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Catalogue

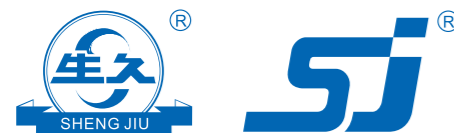


## SHENGJIU CABINETS LOCK

Catalogue



2013-2014



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SHENGJIU CABINETS LOCK CO.,LTD.



ISO9001/ISO14001



## Shengjiu Introduction

*Shengjiu Cabinets Lock Co., Ltd is a comprehensive cabinet locks and hardware manufacturing enterprise integrating R&D, industry and trading. It was established in 1984.*

*Shengjiu has cultivated a professional and dedicated R&D team. We dedicate in developing three main principle products, such as cabinet locks, hinges and handles. We design products base on daring ideas and acquire the up-to-date information locally and abroad keenly. The company possesses more than 40 products of its own producing and selling right.*

*The company has a complete system in tracing, monitoring and inspecting starting from R&D, molding making, die-casting, punching, surface treatment and assembling.*

*After 20 years development, Shengjiu has already established its own quality systems and products standards. The company established the management standard after advanced equipment of mold and testing center was set up .We get ISO9001:2000 in 2001.At the same time we were beginning to pay more attention to environmental protection and got ISO14001:2004 in 2006.*

*Shengjiu regards quality as lifeline. We always concentrate on "Service first, quality first" to get more benefit for customer. We also provides different solutions to satisfy the customer's requirement. Meanwhile, We improves the company's internal competition, and provides the outstanding products to customer on time.Eventually achieve a win-win target.*



ISO9001:2000  
ISO14001:2004

## Testing center

*The testing center of Shengjiu was established in December 2006, It was divided into three sections: weather resisting test, mechanical property test and physically & chemically analytical test. According to the requirement of JB/T10382-2002 "the General Qualification for Mechanical Locks of Electrical Equipments" and the Shengjiu's standard for products quality, a full set of testing equipment was designed and set up.*

*Counting or science, fair and accurate as its aim of work, Shengjiu gives a guarantee to the quality of its products and also lengthens its products' service life.*

*The tests include:*

*1. Weather resisting test*

*Salt spray, ultraviolet light resisting test, dustproof test temperature and moisture/heat alternating test*

*2. Mechanical property test and equipments*

*Tensile test: for examining the tensile strength of the products and materials.*

*Impact load test: for examining the impact strength of the products and materials.*

*Image measuring instrument: for drawing products precisely and for analyzing the materials' whole image.*

*Intelligent electrochemical thickness gauge, hardness gauge, instrument for testing spring's pulling and pressing force, torsion stress testing instrument, vibration testing instrument, instrument for life test.*

*3. Physically & chemically analytical tests*

*Atomic absorption spectrophotometer: for analyzing components of materials; for measuring content of hazardous metal according to RoHS application.*

*Ultraviolet-visible spectrophotometer: for measuring content of hexavalent chromium.*



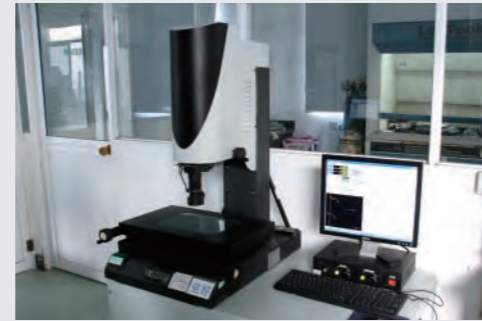


## Testing center equipment introduction



### » Salt spray tester

Application: Test corrosion resistance of the protecting coating on product's surface



### » Image measurement instrument

Application: Measure high precision, irregularly shaped product and draw the outline. Such as angle, radian, radius and hologram generates CAD and so on



### » Ultraviolet light and climate resistance adjustable testing box

Application: Test the influence to the color of product's surface and mechanical property under harsh ultraviolet radiation or at temperature 50°C to 70°C



### » Dust test chamber

Application: Test the influence to product's mechanical property in harsh sand and dust environment. Confirm whether the sand or dust will get into the inside of cabinets through cabinet locks. Survey the IP degree of cabinet locks



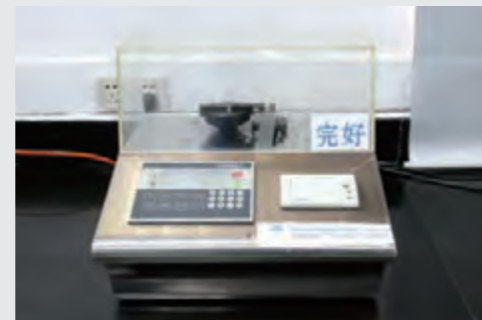
### » High-low temperature-humidity test chamber

Application: Test the influence to product's mechanical and physical property in environment of different temperature and humidities



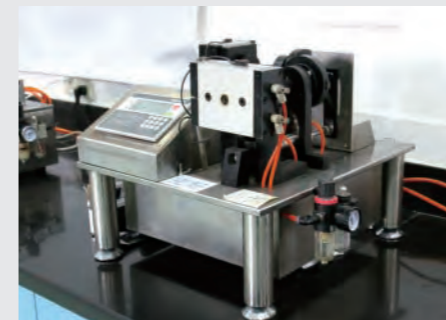
### » Impact testing machine

Application: Test the impact resistance of different materials



### » Torsion spring testing machine

Application: Test the torsion by turning spring and test data can be printed. Analysis torsion fading quickly and correctly by testing at set times



### » Electric cabinet lock fatigue tester

Application: Test the useful time of product and the magnitude of the force by opening or closing it



### » Digital spring torsion tester

Application: Test the elastic force by turning spring and test data can be printed. Test the elastic force's variation factor more correctly



### » Lock insert fatigue tester

Application: Test the useful number of times by sticking the key into the lock, by pulling the key out and by turning the key. The torsion by turning the key and the magnitude of plug power can be displayed



### » Universal electronic spring pull and press tester

Application: 1. Test the physical property of different materials, such as the tensile strength, the yield stress and the point of elastic deformation  
2. Test the bearing capacity of the cam, the magnitude of tensile resistance and the stress of the whole cabinet lock. Test the product's bearable load according to the testing graph  
3. Test the magnitude of hinge's widthways and lengthways bearing capacity. Test the product's bearable load according to the testing graph



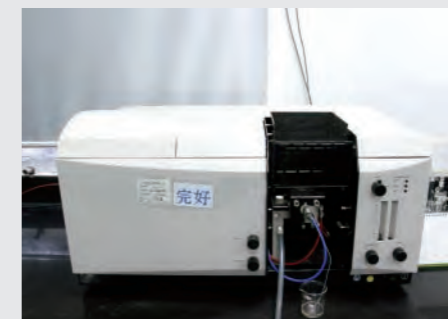
### » Vickers hardness tester

Application: Measure the hardness of product after the heat treatment or the hardness of some big products with great hardness. All the products tested by electric hardness tester can also be tested by vickers microhardness tester. Electric hardness tester measures more fast. Vickers microhardness tester measures slowly and complexly



### » High speed carbon-sulfur analyzer

Application: Test the percentage of carbon and sulfur in different materials



### » Atomic absorption spectrophotometer

Application: Test the percentage of Ni, Pb, Cu, Zn, Fe, Al, Hg, Mn, Li, Mo and so on in different materials



### » Ultraviolet and visible spectrophotometer

Application: Identify materials, inspect the purity, research the organic molecule



The injection has a variety of types, including plastics, rubber, pottery, metal powder and so on. Metal Powder Injection Molding is a new-style manufacturing technology which combines plastics injection molding process, polymer chemistry, powder metallurgy and metal material process.



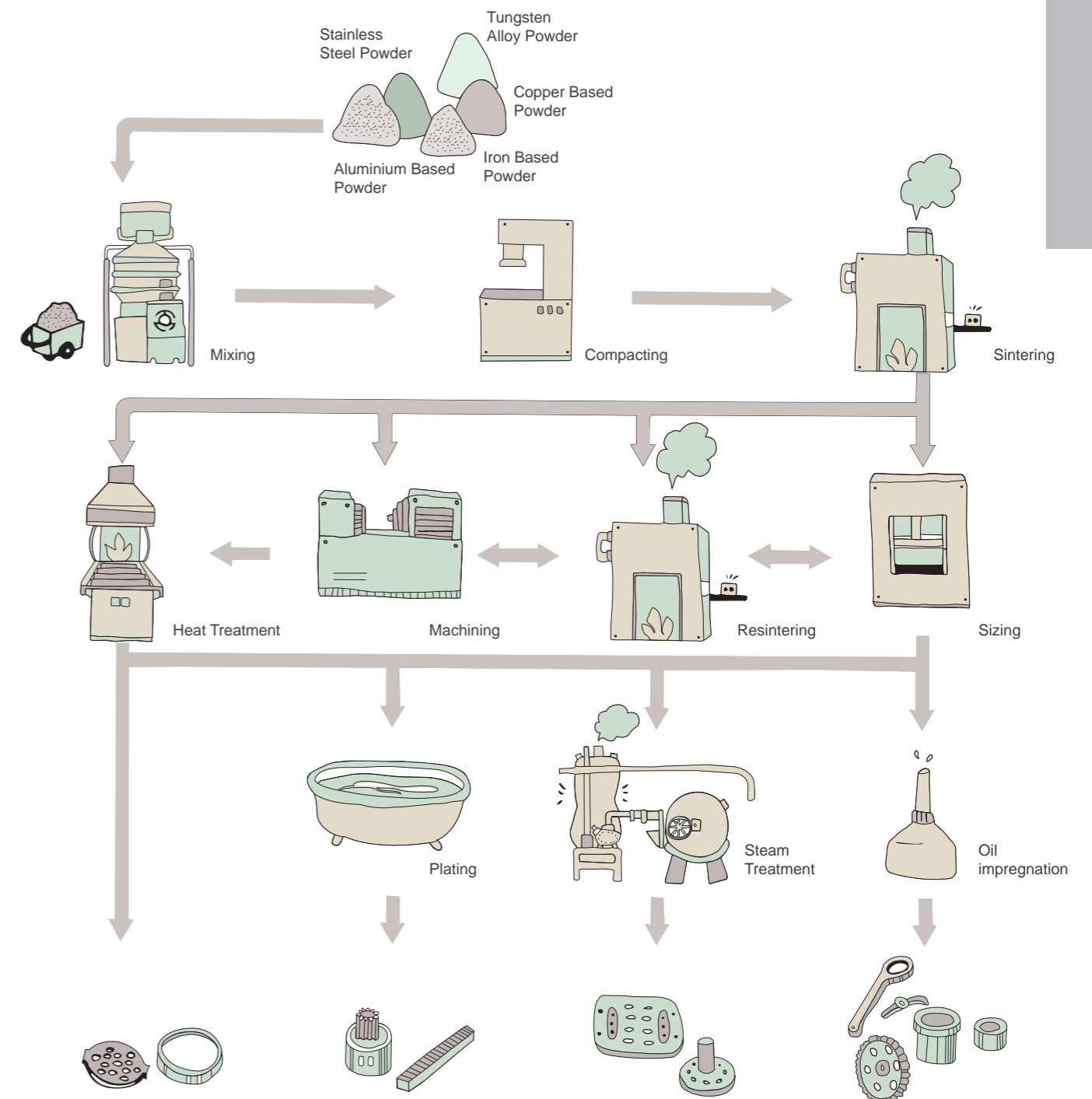
**The manufacturer processing of MIM could apply to the following material**

- Iron-Nickel Alloy: Fe-2%Ni, Fe-8%Ni
- Stainless Steel: 316L, 304L, 630(17-4 PH), 440C, 420J2, 4140
- Special Alloy: M2, SKD11, Kovar(F150), Cu, SKH57
- Soft Magnetism Alloy: Permalloy PB, Permalloy PC, 18 Si-Fe

**MIM Technology**

The Metal Powder Injection molding process (short for MIM) is a new style manufacture technology which combines plastic injection molding process with powder metallurgy process.

As a net shaping technology which manufactures high quality precision parts, MIM has the greater advantage than common powder metallurgy processing and machining. MIM can produce a large amount of shape complicated parts. Such as all kinds of external cutting slots, external threads, tapered outside surfaces, cross through-holes, blind holes, concaves and keying pins, strengthening tendon-plates, carved designs and so on. All the above parts can not make by the common powder metallurgy processing. Because the MIM parts seldom need doing machining again. It reduces the waste of the material. Thus the MIM will be more economical than the machining when the quantity of the complicated parts above a constant value.

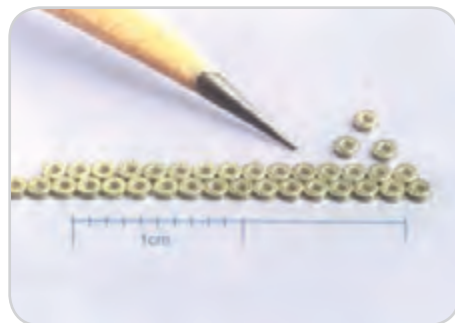


## The application area of MIM technology

- Aviation Industry
- Automobile Industry
- Electronic Industry
- Military project Industry
- Medical Devices
- Machinery Industry etc



▲ Automotive exhaust flange



▲ Tungsten alloy parts



▲ Bearing



▲ 3 Speed Gear Box



▲ Actuator Gear Box

## MIM Compares With Other Methods

	Metal Injection	Traditional Powder metallurgy	Precision Casting	Machining
Cost of production	Mid	Low	Mid	High
Density	95% ~ 99%	< 95%	< 100%	= 100%
Mass production capacity	High	High	Mid	Low
Mechanical properties	High	Mid	Mid	High
Surface roughness	Fine (1µm Ra)	Medium	Medium	Fine
Shape complexity	High	Low	Mid	High
Material Option	Various	Mid	Mid	Various
Electroplating	Superior	Low	Superior	Superior

## Dimensional Tolerance of Injection

Dimension	Standard Tolerance
25.0	+/- 0.12
12.0	+/- 0.05
6.0	+/- 0.04
3.0	+/- 0.03
1.0	+/- 0.03

(Unit: mm)

## Mim Design Criteria of Parts

- limitation of dimension  
Maximum size < 110mm  
Maximum weight < 300g
- Even thickness
- Design should have sintering surface
- The thinnest size

## Material components and Mechanical Properties

	Density	Tensile strength	Elongation	Visual hardness	Hardness after heat	Characteristics
Fe-2%Ni	> 7.5	280	25	HRB 55	> HRC 50	
Fe-8%Ni	> 7.5	450	12	HRB 84	> HRC 50	
316L	> 7.5	495	53	HRB 66	-	Corrosion resistance
17-4PH	> 7.6	850	6	HRB 100	HRC 38	
4140	> 7.5	1100	3	-	HRC 50	
M2	> 7.9	1600	-	-	HRC 60	



## Design&Mould



Shengjiu focuses on every detail and humanization design of its' products. We try to attain the most simple operation method with the most reasonable structure on the premise of our products' quality.

Moulding tool, as the most important link of carrying out an idea into reality, is the key for guarantee factor to the product quality. Our CNC processing center, CNC engraving machine, electric impulse machine and experienced would designer, make the whole process to be more efficient and reliable.



## Nanometer spray Painting

### CONCEPT OF NANOMETER SPRAY PAINTING

Nanotechnology is one of development form science-and-technology in the area of physics. Nanometer spray painting is which nanotechnology is used in manufacture. It forms compact nanometer painting on the surface of products which include exceptional hardness and high corrosion resistance materials. It can provide many kinds of colors and luster. This is one of the surface treatment which is environment friendly, lower cost, and durable. Nanometer spray painting is not eroded itself to protect the inside metal, the material can be eroded if the surface coating is destroyed, but it's excellent physical capability could replace electroplating treatment in a certain extent.



1	Highest temperature	150 - 180
2	Lowest temperature	- 40
3	Hardness	GB/T6739-96 CHUNG HWA pencil 5-6H
4	Impact	GB/T1732-93 no rift, nofall-off (50kg.cm)
5	Resistance to Boid	Keep normal under 100 water for 1 hour
6	Resistance to Acid	Keep normal under 5% HCl for 200 hours
7	Resistance to Alkali	Keep normal under 5% NaOH for 200 hours
8	Salt corrosive-resistance	GB/T1025-1997 under 5% NaCl 500hours in PH=7
9	RoHS compliance	Accordance with RoHS application
10	Color-resistance	Keep the normal color under drying in 180 for 1 hour
11	Weather-resistance	GB/T4522-93 E<2 ( ASTMG-53 ) QUV200 hours
12	Bend	GB11185-89 3MM Keep normal
13	Thickness	GB1764-79 40-60um



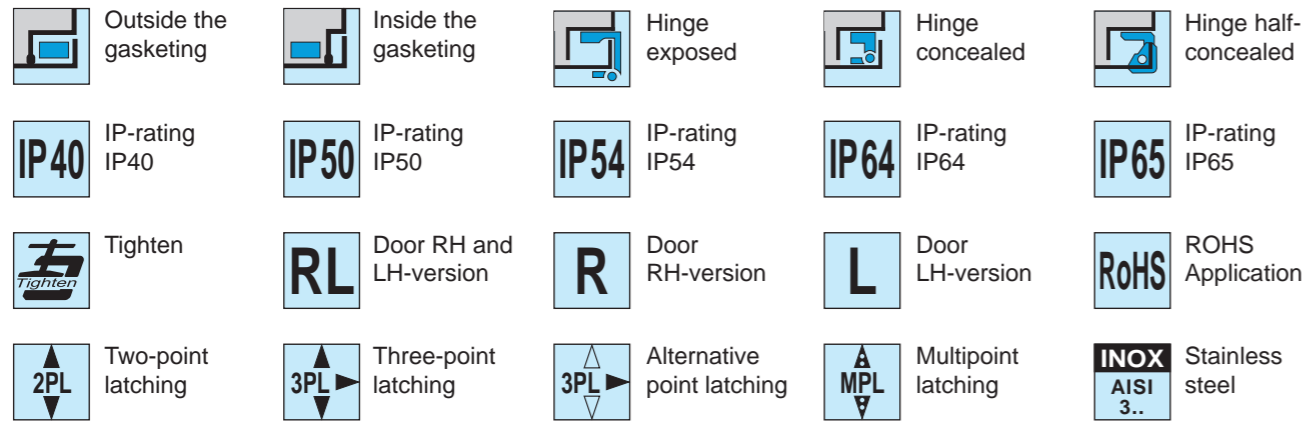
## A STRONG SALES NETWORK

With the continued business expansion, Shengjiu has **7** companies which located in city of Beijing, Shanghai, Shenzhen, Wuhan, Qingdao, Ningbo and UAE. It's excellent quality high reputation, prompt service have won trust and favorable comments from a number of clients, and thus build up a reliable brand of Shengjiu(SJ). We own **26** distributors in domestic and **9** distributors in singapore, Japan, Korea, India, Sweden, Germany, Spain, South Africa, and Italy. That make Shengjiu a strong sales network to service for our valuable clients.

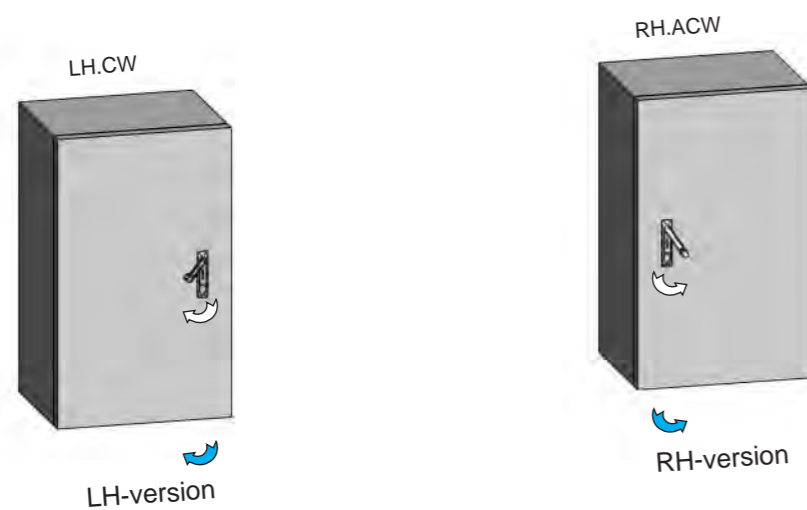
## List of contents

Accessories	
Handle lock	
Cylinder lock	
Electronic lock	
Plane lock	
Rod control lock	
Panel lock	
Toggle and hook	
Handles	
Door stop	
Hinge	
Seal gasket	

► Explanation of pictograms



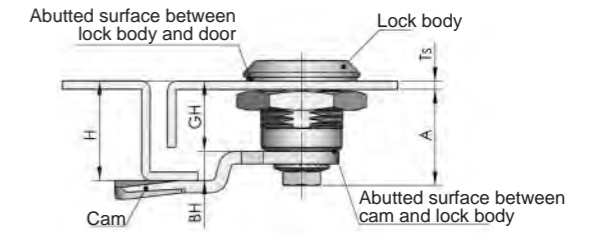
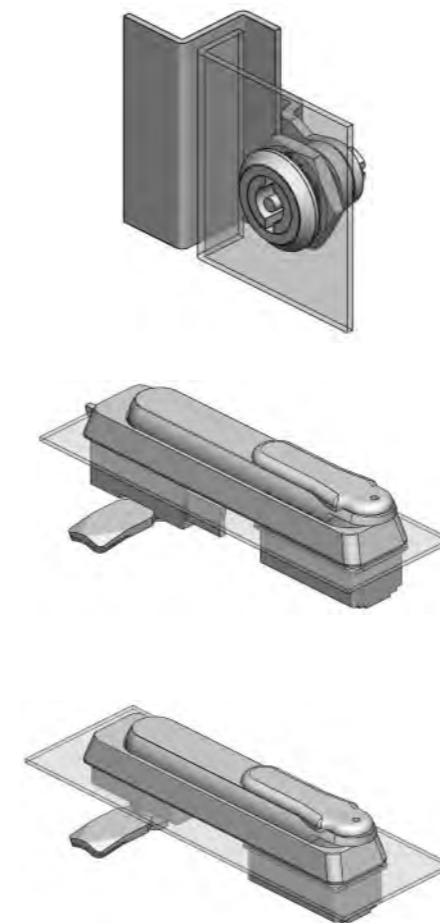
► Explanation of LH and RH version



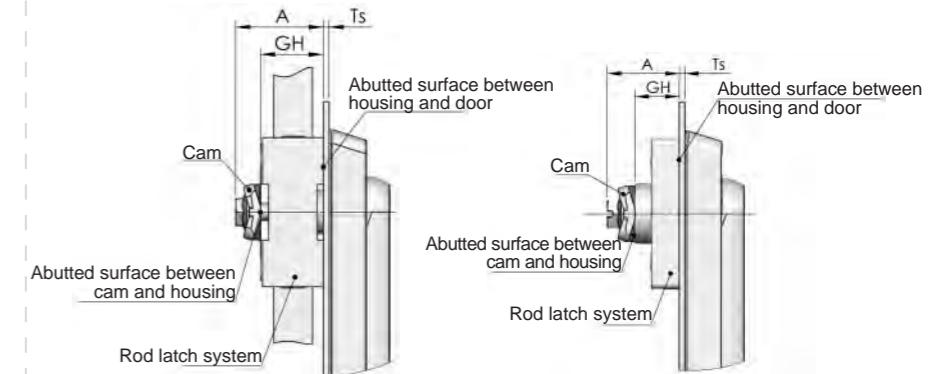
► Abbreviation

Lock: MS	Nut: NT	Right-hand:RH	Brass: Br
Toggle: DK	Vibration proof screw: SW	Anticlockwise rotation: ACW	Zinc die-casting: ZDC
Handle: LS	key: K	Clockwise rotation: CW	Aluminum: ALU
Door stop: TX	Gasket: G	Stroke: Dm	Polyamide: PA
Hinge: CL	Pin: P	Rotation angle: Ra	Polypropylene: PP
Rod: LG	Latch: MB	Powder coated finish: CS	Acrylonitrile Butadiene
Rod accessories: RG	Thickness: Ts	Plated finish: CP	Styrene: ABS
Handle pull: HP	Adjustable distance: Ha	Max-Torque: Tmax	Polycarbonate: PC
Waterproof cap: WP	Stop height: H	Max-load: Fmax	Rubber: RB
Dustproof cap: DP	Groundwork height: GH	Cold rolled steel: CRS	
Profile cylinder: TC	Bend height: BH	Spring steel: Fst	
Cam: S	Left-hand: LH	Stainless steel: SUS	

► H and GH specification



GH: the distance A from the abutted surface between lock body and door to the abutted surface between cam and lock body changes when Ts changes.



GH: the distance A from abutted surface between housing and door to the abutted surface between cam and housing is invariable when Ts changes. GH is measured from inboard door. The product is separable structure in common case. H=GH+BH

► IP-rating

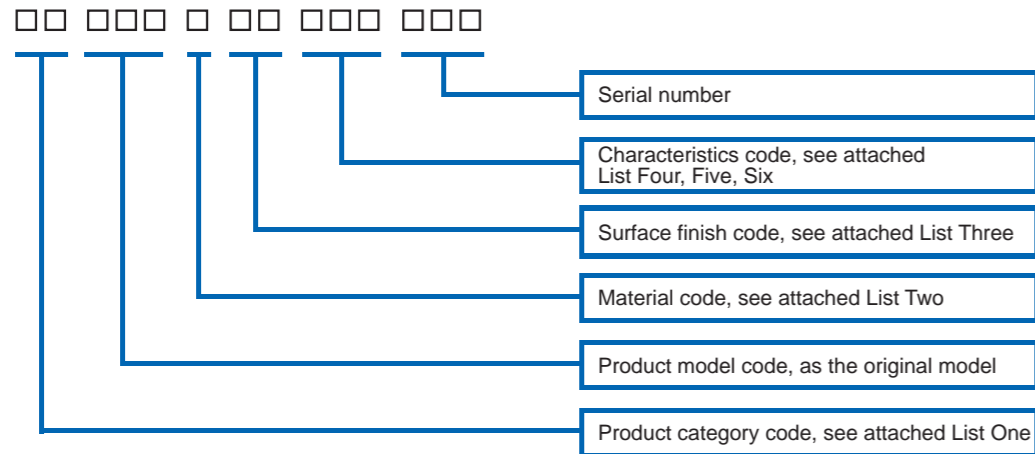
The IP protection category is characterised by two numerals for protection against contact, foreign objects and water. As defined in IEC60529, the description is following:

1st numeral	Description	2nd numeral	Description
0	Non-protected	0	Non-protected
1	Protected against solid foreign objects with a diameter of 50mm and greater (such as hand)	1	Protected vertically falling water drops (such as condensation water)
2	Protected against solid foreign objects with a diameter of 12.5mm and greater (such as fingers)	2	Protected vertically falling water drops when the enclosure is tilted up to 15°
3	Protected against solid foreign objects with a diameter of 2.5mm and greater (such as tools or thick wires)	3	Protected against splashing water
4	Protected against solid foreign objects with a diameter of 1mm and greater (such as most wires or screws)	4	Protected against splashing water
5	Dust-protected	5	Protected against water jets
6	Dust-tight	6	Protected against powerful water jets
		7	Protected against the effects of temporary immersion in water
		8	Protected against the effects of continuous immersion in water



ERP definition

Lock code

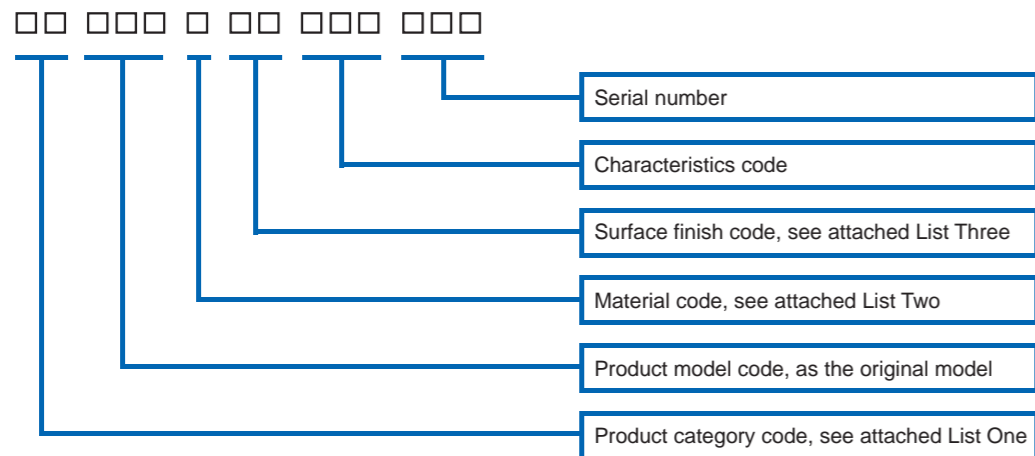


Key characteristics description: Instrumental insert code (attached List Four); Pin tumbler cylinder code (attached List Six); Key code for blade cylinder (attached List Five)

E.g. model: MS705Z1AT01001 Model: MS705 lock Specification: Matt black double bit ZDC insert

Name	Category	Model	Material	Surface finish	Insert characteristics	Serial number
Code	MS	705	Z	1A	T01	001
Character	2	3	1	2	3	3

Buckle, handle, rod code



Key characteristics description: Buckle with key use key characteristics code (attached List Five), Buckle no key fill the blank with "0"; Handle characteristics code is width between centres; Rod characteristics code is 000;

E.g. model: DK604Z1A080001 Model: DK604 buckle Specification: Matt black ZDC buckle with K08 key

Name	Category	Model	Material	Surface finish	Insert characteristics	Serial number
Code	DK	604	Z	1A	080	001
Character	2	3	1	2	3	3

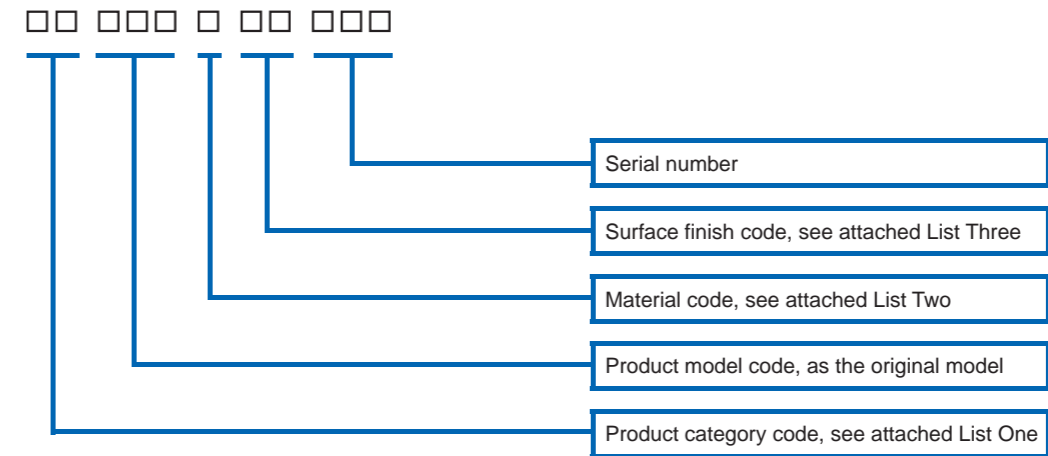
E.g. model: LS503S4A248001 Model: LS503 handle Specification: Mirror polished stainless steel handle 248mm\*\*\*

Name	Category	Model	Material	Surface finish	Width between centres	Serial number
Code	LS	503	S	4A	248	001
Character	2	3	1	2	3	3

E.g. model: LG001S3D000001 Model: LG001 Specification: Zinc-plated stainless steel rod

Name	Category	Model	Material	Surface finish	Insert characteristics	Serial number
Code	LG	001	S	3D	000	001
Character	2	3	1	2	3	3

Hinge, door stop code



E.g. model: CL201Z1A001 Model: CL201 Specification: Matt black ZDC hinge

Name	Category	Model	Material	Surface finish	Serial number
Code	CL	201	Z	1A	001
Character	2	3	1	2	3

E.g. model: TX080Z3D001 Model: TX80 Specification: Zinc-plated ZDC door stop

Name	Category	Model	Material	Surface finish	Serial number
Code	TX	080	Z	3D	001
Character	2	3	1	2	3

» Attached List

**Attached List One:**  
Product category code table

Name	Code
Lock	MS
Buckle	DK
Door stop	TX
Handle	LS
Rod	LG
Hinge	CL
Seal gasket	MF
Rod latch system	MB
Others	QT
.....	.....(Inceasable)

**Attached List Two**

Num	Material category	Code	Remarks
1	Iron	F	
2	Brass	C	
3	Zinc	Z	
4	Stainless steel	S	
5	Aluminum	A	
6	Nylon	N	
7	PVC	P	Special for seal gasket
8	EPDM	E	Special for seal gasket
.....	.....	.....(Inceasable)	

**Attached List Three:**  
Surface finish code table

Num	ERP Code	Surface finish category	Color/name
1	1A	Powder coated	Silk black
2	1B	Powder coated	Pocked black
3	1D	Powder coated	Blue gray
4	1E	Powder coated	Yellow gray
5	1F	Powder coated	Peacock green
6	2A	Painting	Silk black
7	2B	Painting	Nanometer silvery
8	2C	Painting	Pocked black painting
9	2D	Painting	Blue gray painting
10	3A	Plating	Bright chrome
11	3B	Plating	Gray chrome
12	3C	Plating	Yellow zinc
13	3D	Plating	White zinc
14	3E	Plating	Trivalent yellow zinc
15	3F	Plating	Silvery
16	3G	Plating	Nickel-plating
17	3H	Plating	Sand blast chrome-plating
18	3I	Plating	Sand blast nickel-plating
19	4A	Machining	Mirror polishing
20	4B	Machining	Wire-drawing polishing
23	4C	Machining	Vibration polishing
24	4D	Machining	Sand blast
25	9A	Other	Oxidation
26	XX	Custom request	

**Attached List Three:**  
Instrumental insert code table

Code	Description
T01	Double bit 3mm
T01	Double bit 4mm
T01	Double bit 5mm
T02	Hooked 4mm
T03	Triangular 8mm
T05	Square 6mm
T06	Square 7mm
T04	Square 8mm
T04	Square 8mm with slot
T07	Socket hexagon 10mm
T08	Slot
T09	Hexagon 11mm
T10	Thorn
T11	Flat cylinder
T12	Triangular 7mm
T13	Triangular 9mm
T14	Heptagon
T15	Triangular 10mm
T16	Concave with slot
T18	Socket hexagon 8mm
.....	.....(Inceasable)

» Attached List

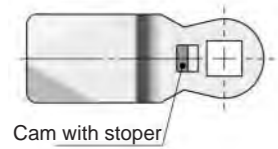
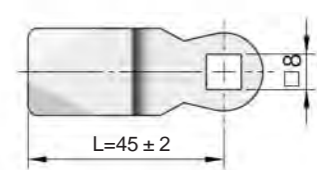
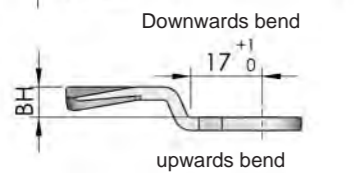
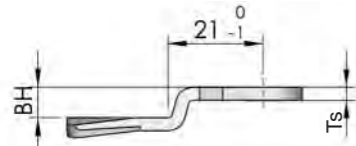
**Attached List Five: Key characteristics code table**

Original name	New name	Code	Original name	New name	Code	Original name	New name	Code
K01	K010	010	K14-3	K143	143	K28	K280	280
K02	K020	020	K14-4	K144	144	K28-2	K282	282
K03	K030	030	K14-5	K145	145	K29	K290	290
K04	K040	040	K15	K150	150	K30	K300	300
K04-2	K042	042	K16	K160	160	K32	K320	320
K05	K050	050	K16-2	K162	162	K33	K330	330
K05-2	K052	052	K17	K170	170	K34	K340	340
K06	K060	060	K18	K180	180	K35	K350	350
K07	K070	070	K19	K190	190	K36-1	K361	361
K08	K080	080	K19-2	K192	192	K36-2	K362	362
K08-2	K082	082	K19-3	K193	193	K37	K370	370
K08-3	K083	083	K19-4	K194	194	K38	K380	380
K09	K090	090	K19-5	K195	195	K39	K390	390
K10	K100	100	K20	K200	200	K40	K400	400
K10-2	K102	102	K21	K210	210	K41	K410	410
K11	K110	110	K22	K220	220	K42	K420	420
K12	K120	120	K23	K230	230	K42-1	K421	421
K13	K130	130	K24	K240	240	K43	K430	430
K13-1	K131	131	K25	K250	250	K44	K440	440
K14	K140	140	K26	K260	260	K46	K460	460
K14-2	K142	142	K27	K270	270	K47	K470	470

**Attached List Six: Pin tumbler cylinder code table**

Code	Description
E01	Crescent pin tumbler cylinder
E02	Crisscross pin tumbler cylinder
E03	Blade cylinder
E04	Head face pin tumbler cylinder
E05	Two-sided pin tumbler cylinder

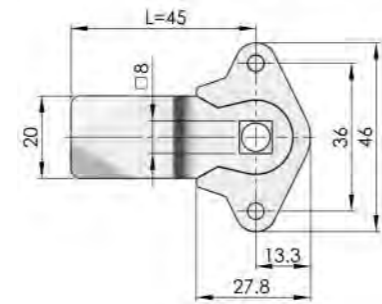
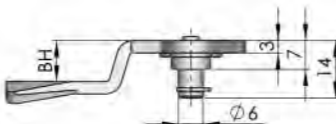
**S1B Series**



Remarks: Default thickness 3mm, please specify on request of other material, center distance and thickness. Code prefixed with D stands for cam with stopper.

Cam code	BH	ERP
	TS=3	
S1B45N02	-2	S1B45N02019
S1B4500	0	S1B45Y00002
S1B4502	2	S1B45Y02002
S1B4504	4	S1B45Y04002
S1B4506	6	S1B45Y06004
S1B4507	7	S1B45Y07002
S1B4508	8	S1B45Y08002
S1B4510	10	S1B45Y10002
S1B4512	12	S1B45Y12002
S1B4514	14	S1B45Y14002
S1B4516	16	S1B45Y16002
S1B4518	18	S1B45Y18004
S1B4520	20	S1B45Y20002

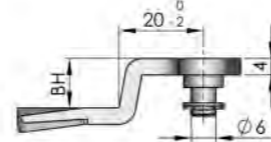
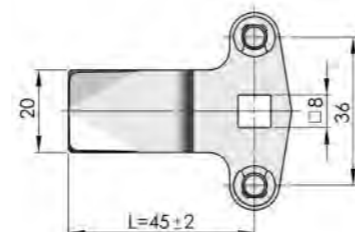
**AS3B Series**



Remarks: Default thickness 3mm, please specify on request of other material, center distance and thickness. Code prefixed with D stands for cam with stopper.

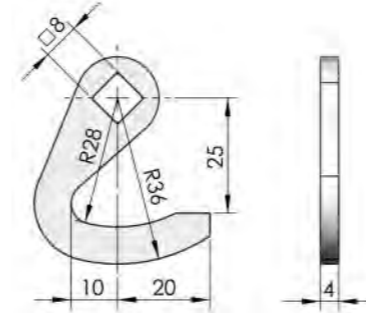
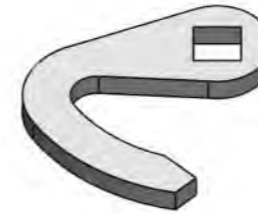
Cam code	BH	ERP
AS3B45N02	-2	2882452023
AS3B4500	0	2882450015
AS3B4502	2	2882452024
AS3B4504	4	2882452025
AS3B4506	6	2882452026
AS3B4507	7	2882452027
AS3B4508	8	2882452028
AS3B4510	10	2882452029
AS3B4512	12	2882451226
AS3B4514	14	2882452030
AS3B4516	16	2882452031
AS3B4518	18	2882452032
AS3B4520	20	2882452022

**S3B Series**



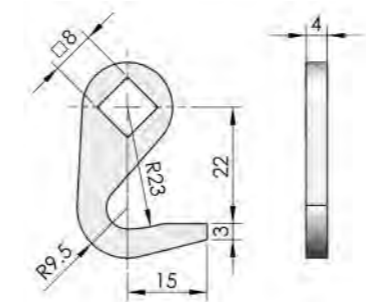
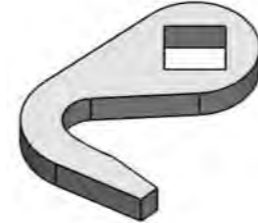
Cam code	BH	ERP
S3B4500	0	2882450029
S3B4504	4	2882450418
S3B4508	8	2882450822
S3B4510	10	2882451020
S3B4512	12	2882451218
S3B4514	14	2882451415
S3B4516	16	2882451611
S3B4520	20	2882452013
S3B4522	22	2882452212

**S1B2836H**



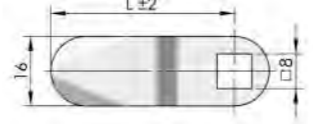
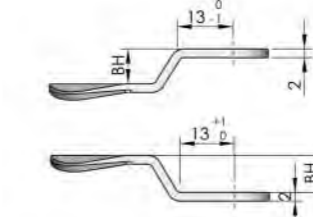
Cam code	Rotation Radius	ERP
S1B2836H	28	S1B28Y36002

**S1B2328H**



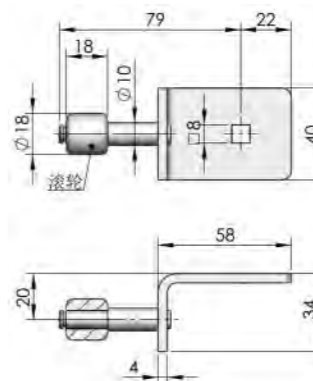
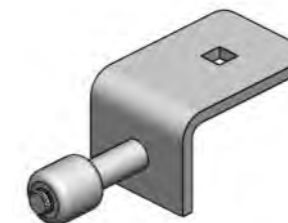
Cam code	Rotation Radius	ERP
S1B2328H	23	S1B23Y28002

**S1BK Series**



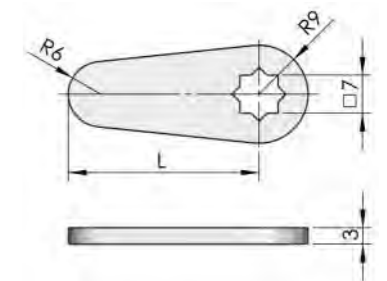
Cam code	BH	L	ERP
S1B33N4K	-4	33	S1B33N04001

**S1B1179D**



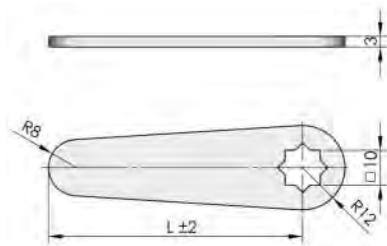
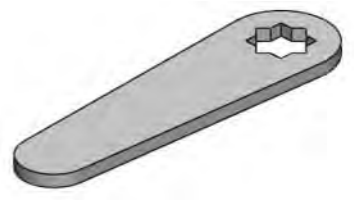
Cam code	BH	Material	ERP
S1B1179D	11	SUS	S1B11Y79003

**S1A Series**



Cam code	BH	L	ERP
S1A3500	0	35	S1A35Y00005
S1A3900	0	39	S1A39Y00001
S1A7200	0	72	S1A72Y00001

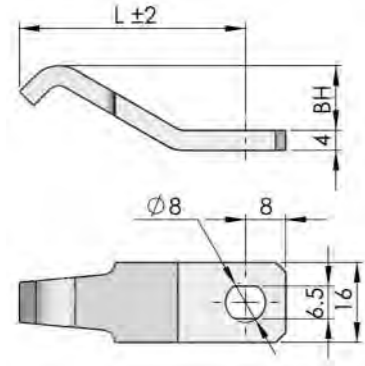
**S1C Series**



Cam code	BH	L	ERP
S1C4000	0	40	S1C40Y00001
S1C6300	0	63	S1C63Y00002
S1C7200	0	72	S1C72Y00002

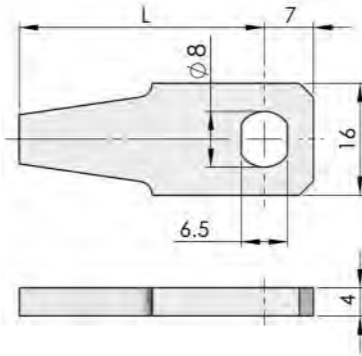
Accessories

**S1K4513**



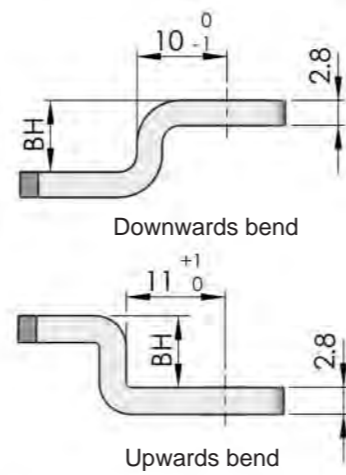
Cam code	BH	L	ERP
S1K4513	-13	45	S1K45N13003

**S1K3500**



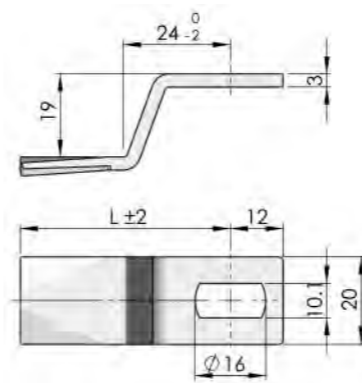
Cam code	BH	L	ERP
S1L3500	0	35	S1K35Y00002

**S1G Series**



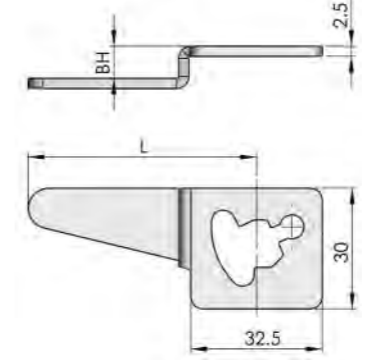
Cam code	BH	L	ERP
S1G2300	0	23	S1G23Y00002
S1G2304	4	23	S1G23Y04002
S1G2308	8	23	S1G23Y08002
S1G2312	12	23	S1G23Y12002
S1G2316	16	23	S1G23Y16002
S1G2320	20	23	S1G23Y20002
S1G2304	-4	23	S1G23N04001
S1G2308	-8	23	S1G23N08005
S1G2312	-12	23	S1G23N12001
S1G2316	-16	23	S1G23N16001
S1G2320	-23	23	S1G23N20005

**S1H Series**



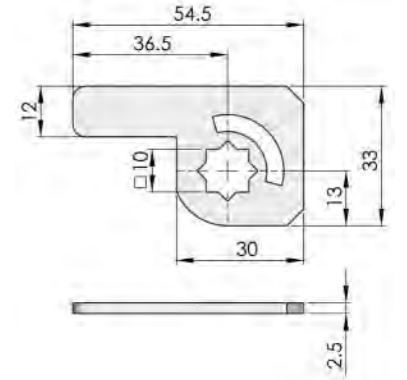
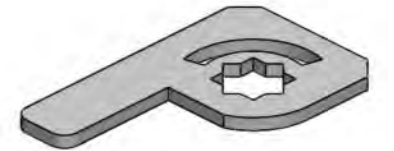
Cam code	BH	L	ERP
S1H4819	19	48	S1H48Y19001

**S1D Series(Left)**



Cam code	BH	L	ERP
S1D5600Z	0	56	S1D56Y00006
S1D5608Z	8	56	S1D56Y08002
S1D5612Z	12	56	S1D56Y12002
S1D5618Z	18	56	S1D56Y18002
S1D5628Z	28	56	S1D56Y28001

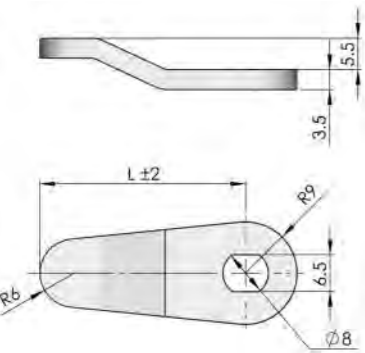
**S1C3700D**



Cam code	BH	L	ERP
S1C3700D	0	36.5	S1C37Y00002

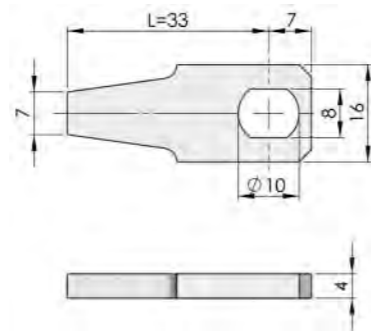
Panel lock

**S1K3606**



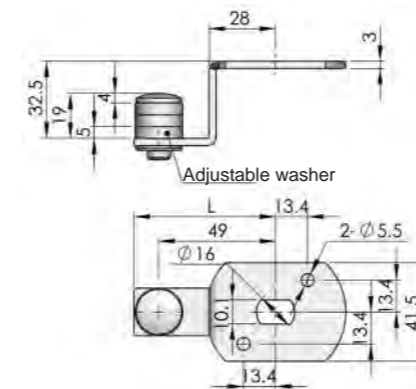
Cam code	BH	L	ERP
S1K36N06	-6	36	S1K36N06001

**S1M3300**



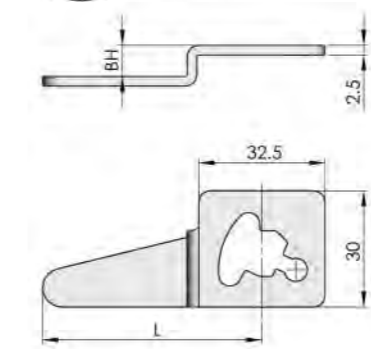
Cam code	BH	L	ERP
S1M3300	0	33	S1M33Y00002

**S3H6028**



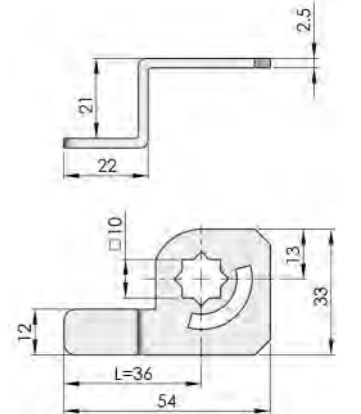
Cam code	BH	L	ERP
S3H6028	13.5/18.5/23.5/28.5	60	S3H60Y28001

**S1D Series(Right)**



Cam code	BH	L	ERP
S1D5600Y	0	56	S1D56Y00002
S1D5608Y	8	56	S1D56Y08005
S1D5612Y	12	56	S1D56Y12005
S1D5618Y	18	56	S1D56Y18005
S1D5628Y	28	56	S1D56Y28005

**S1C3621D**

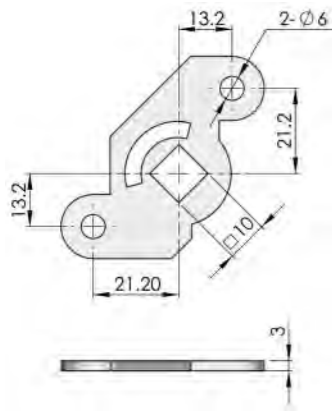


Cam code	BH	L	ERP
S1C3621D	21	36	S1C36Y21002

Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket

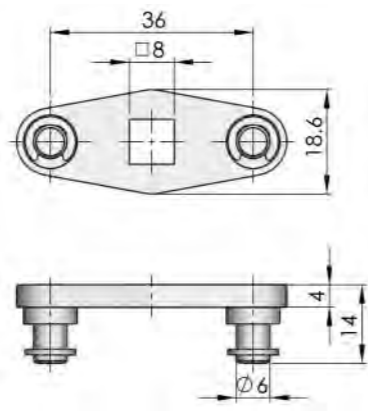
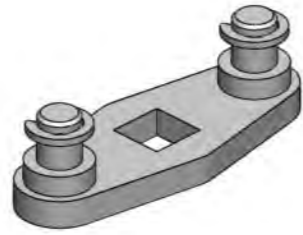
Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket

**S2C2100**



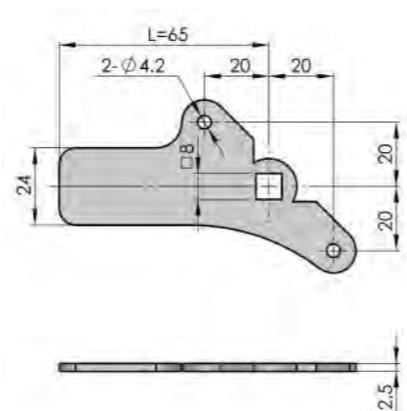
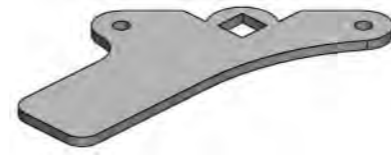
Cam code	ERP
S2C2100	S2C21Y00002

**S2B1800**



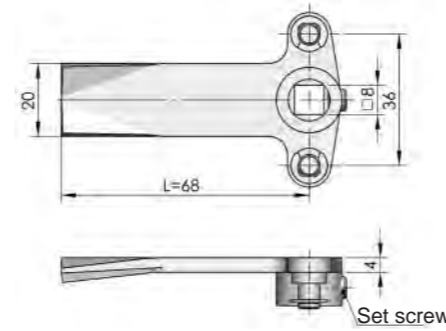
Cam code	ERP
S2B1800	S2B18Y00005

**S3B6500**



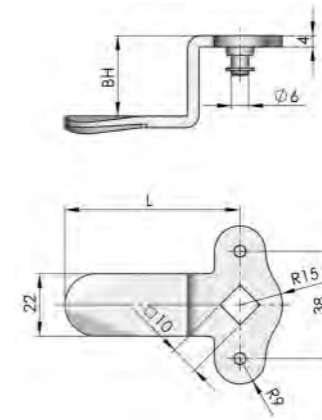
Cam code	ERP
S3B6500	S3B65Y00002

**S3B6800A**



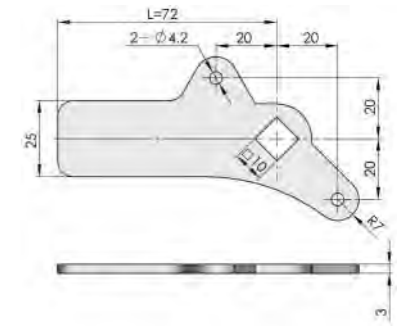
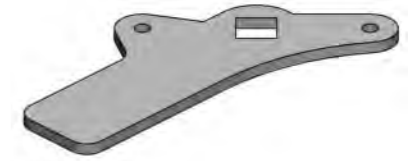
Cam code	BH	L	ERP
S3B6800A	0	68	S3B68Y00002

**S3C Series**



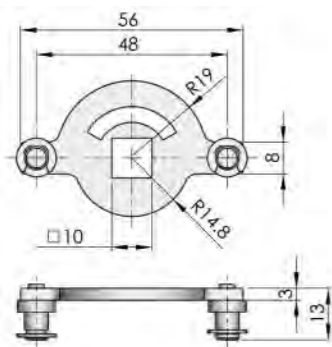
Cam code	BH	L	ERP
S3C8600	0	86	S3C86Y00002
S3C6527	27	65	S3C65Y27002
S3C4851	51	48	S3C48Y51002

**S3C7200**



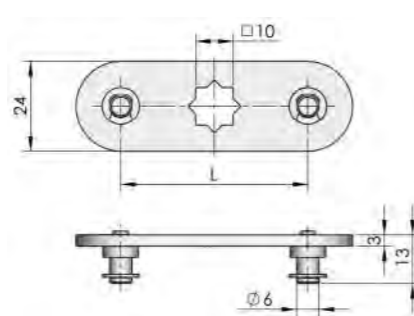
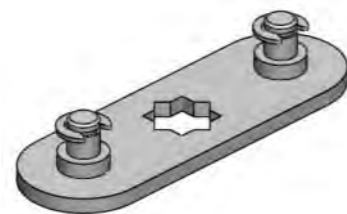
Cam code	BH	L	ERP
S3C7200	0	72	S3C72Y00002

**S2C2400**



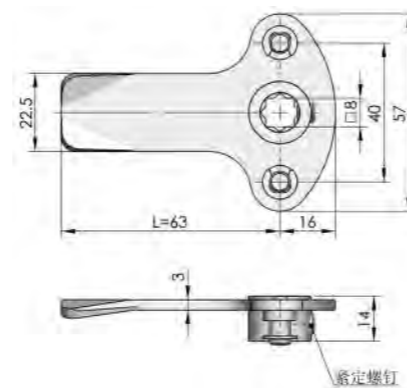
Cam code	ERP
S2C2400	S2C24Y00002

**S2C Series**



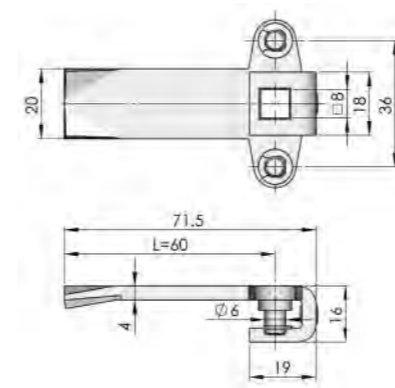
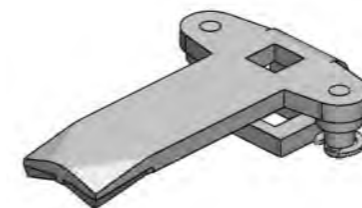
Cam code	L	ERP
S2C2000	0	S2C20Y00002
S2C2500	25	S2C25Y00002

**S3B6300A**



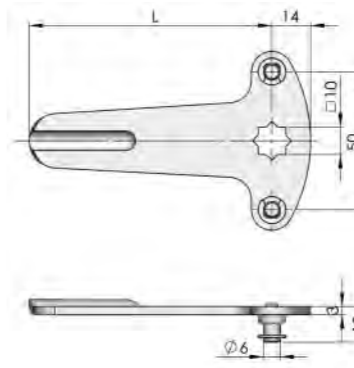
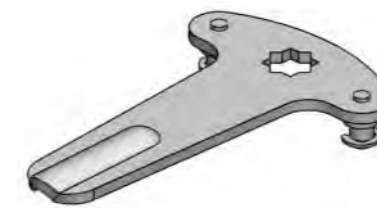
Cam code	BH	L	ERP
S3B6300A	0	63	S3B63Y00002

**S3B6000A**



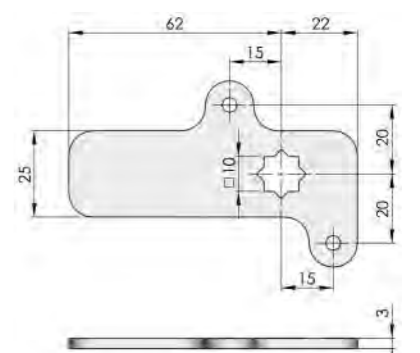
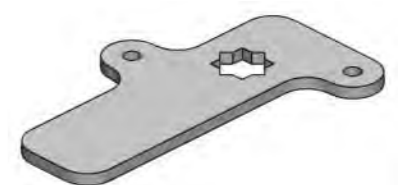
Cam code	BH	L	ERP
S3B6000A	0	60	S3B60Y00002

**S3C Series**



Cam code	BH	L	ERP
S3C5000	0	50	S3C50Y00003
S3C7000	0	70	S3C70Y00002
S3C8800	0	88	S3C88Y00002

**S3C6200**

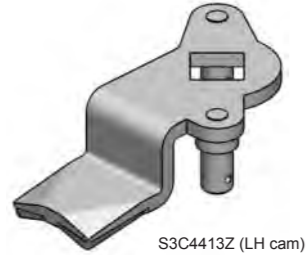


Cam code	BH	L	ERP
S3C6200	0	62	S3C62Y00003

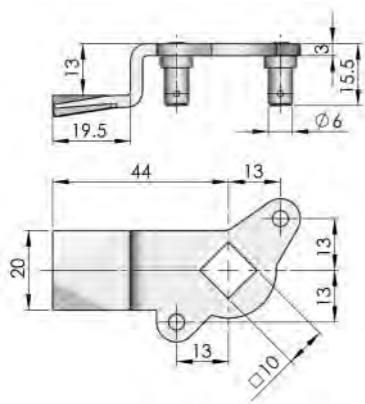
Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket

Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket

**S3C4413 Series**

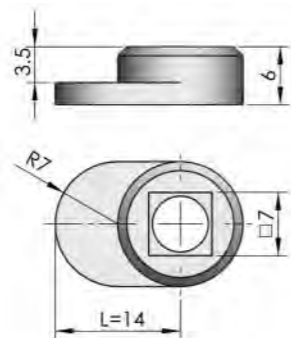
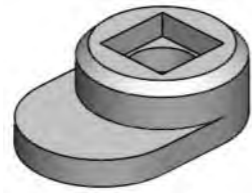


S3C4413Z (LH cam)



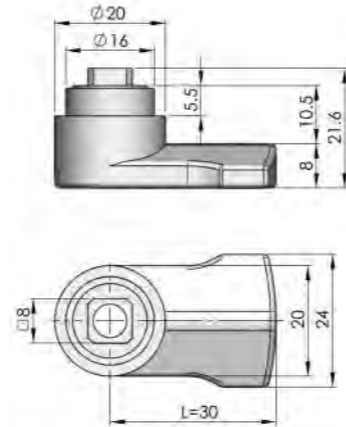
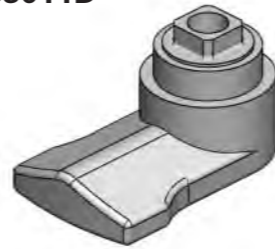
Cam code	BH	L	ERP
S3C4413Y	13	44	2883441307
S3C4413Z	13	44	2883441308

**S1A1403X**



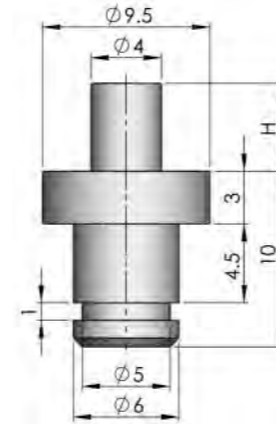
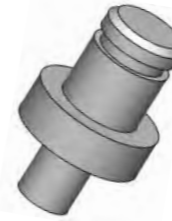
Cam code	ERP
S1A1403X	S1A14Y03001

**S1B3011D**



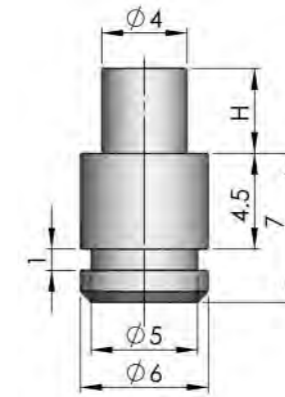
Cam code	L	ERP
S1B3011D	30	S1B30Y11002

**PN0011  
PN0012**



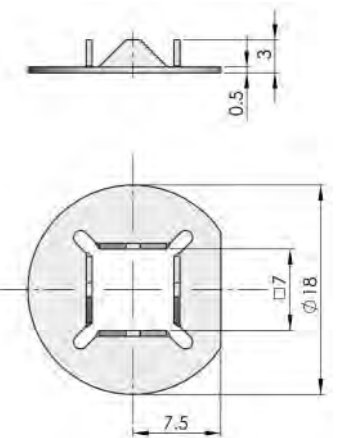
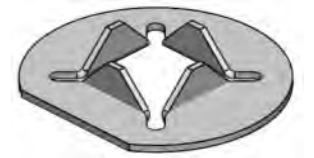
Part code	H	Remarks
PN0011	H=4	Suitable cam thickness 3mm
PN0012	H=5	Suitable cam thickness 4mm

**PN0015  
PN0016**



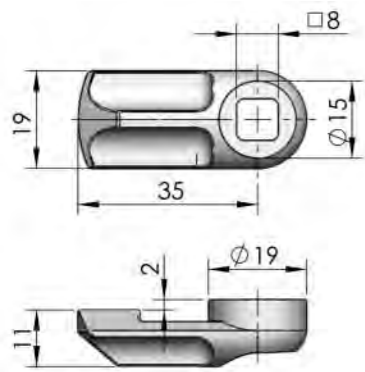
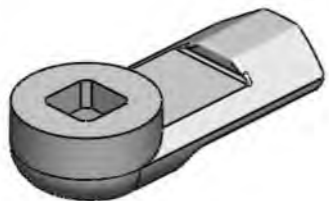
Part code	H	Remarks
PN0015	H=4	Suitable cam thickness 3mm
PN0016	H=5	Suitable cam thickness 4mm

**A1001**



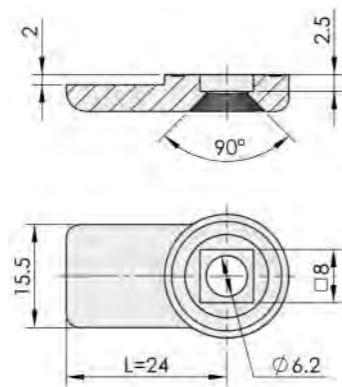
Change cam cut out 8mm to 7mm

**S1B3502A**



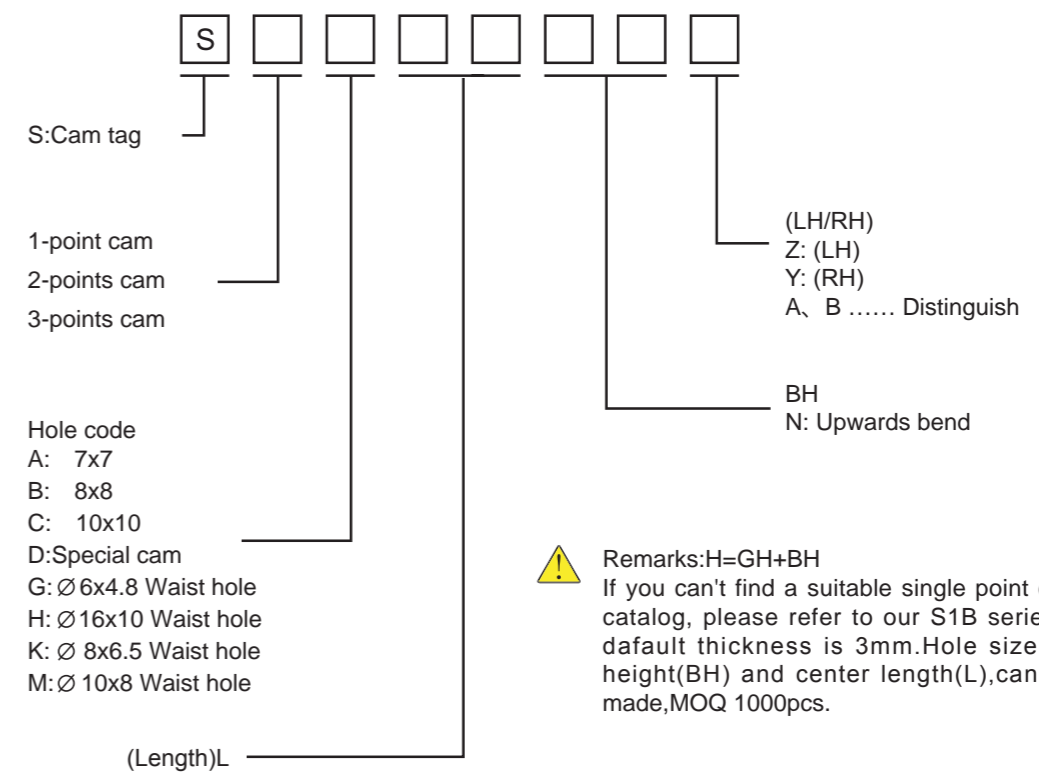
Cam code	BH	L	ERP
S1B3502A	0	35	S1B35Y02001

**S1B2402X**



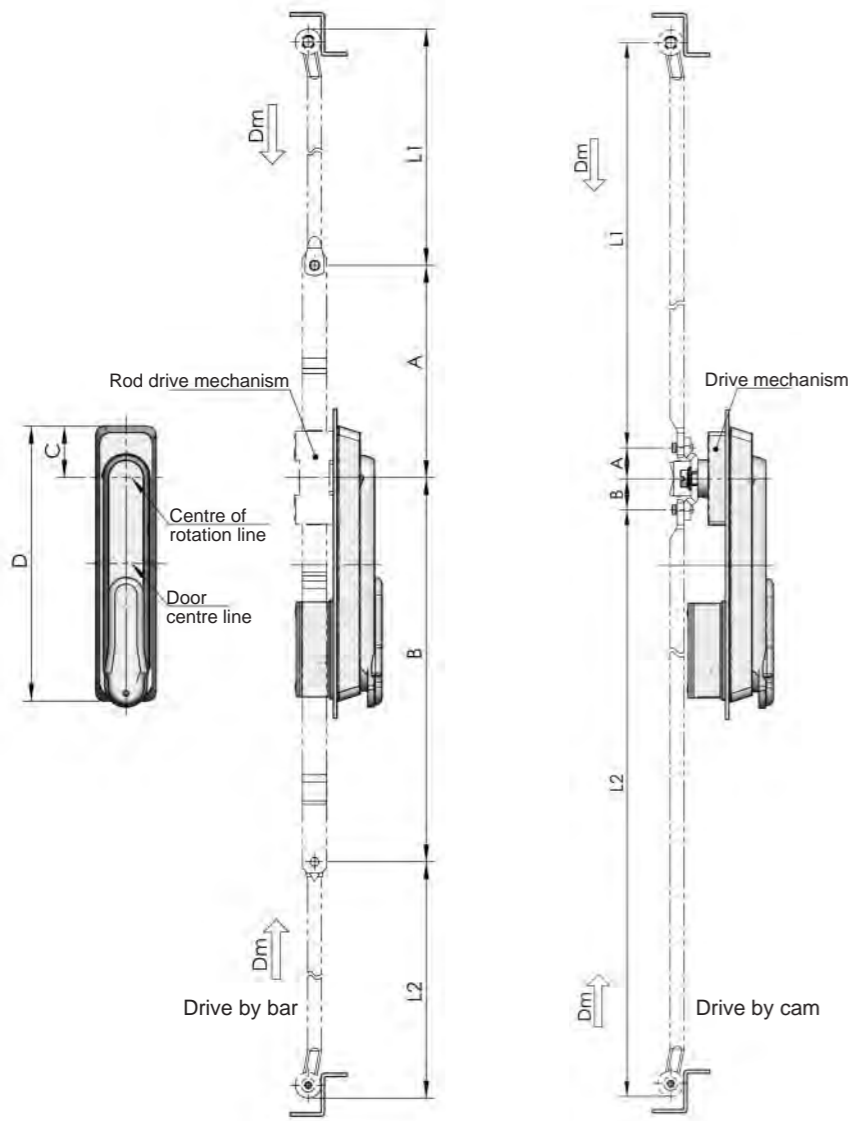
Cam code	BH	L	ERP
S1B2402X	2	24	S1B24Y02001

**Cam code specification**

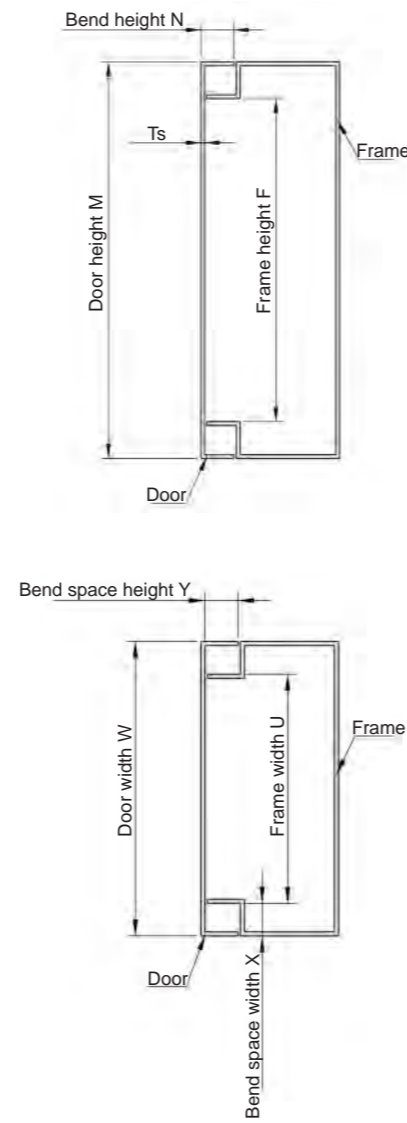


Accessories

**Example of rod-latch application**



**Cabinet structural sketch**



**LG001-1**

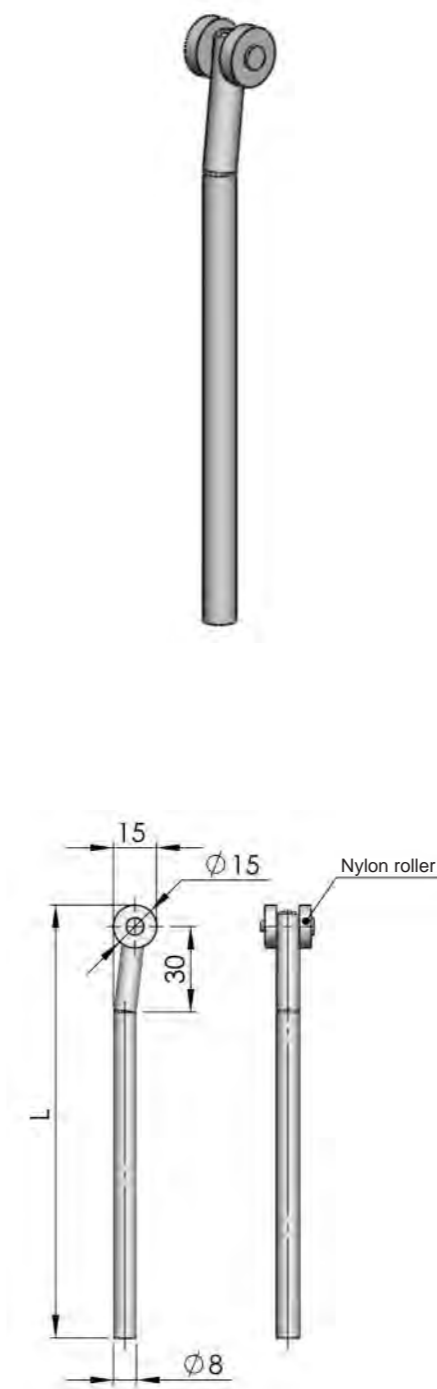


Zinc-plated steel, cone-round rod

**ERP** LG001F3D000003

Please specify the rod length "L" purchase

**LG001-2**

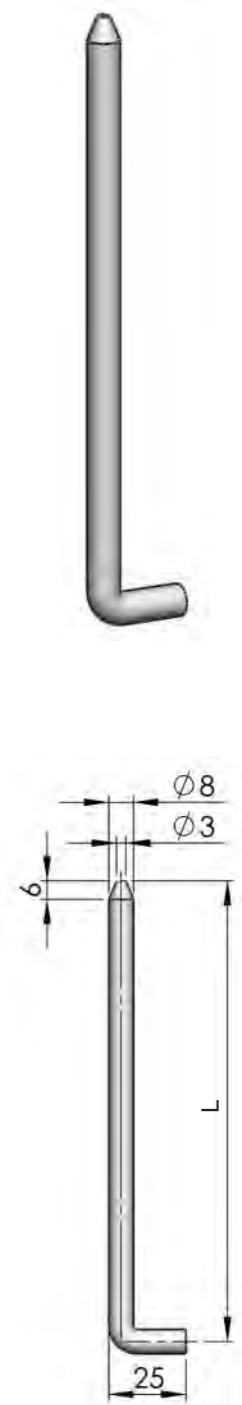


Zinc-plated steel, match with PA roller round rod

**ERP** LG001F3D000004

Please specify the rod length "L" purchase

**LG001-3**



Zinc-plated steel, bend, round rod

**ERP** LG001F3D000005

Please specify the rod length "L" purchase

**Calculate the length of the rod**

Calculation method of coincident length of door center and center line of rotation part

$$L1 = F/2 - A + (Dm - 2)$$

$$L2 = F/2 - B + (Dm - 2)$$

Calculation method of coincident length of door center and center line of lock

$$L1 = F/2 - [A + (D/2 - C)] + (Dm - 2)$$

$$L2 = F/2 - [B - (D/2 - C)] + (Dm - 2)$$

Remark: the effective length of connecting piece should be deducted if a connecting piece is needed for fitting. This calculation method is applicable for those rods with seals fitted inside. Be aware of the actual installation conditions when using the above methods.

Dm: the code of driving distance

F: door frame height

Handle lock

Cylinder lock

Electronic lock

Swing handle

Rod control lock

Panel lock

Toggle and hook

Handles

Door stop

Hinge

Seal gasket

Accessories

Handle lock

Cylinder lock

Electronic lock

Swing handle

Rod control lock

Panel lock

Toggle and hook

Handles

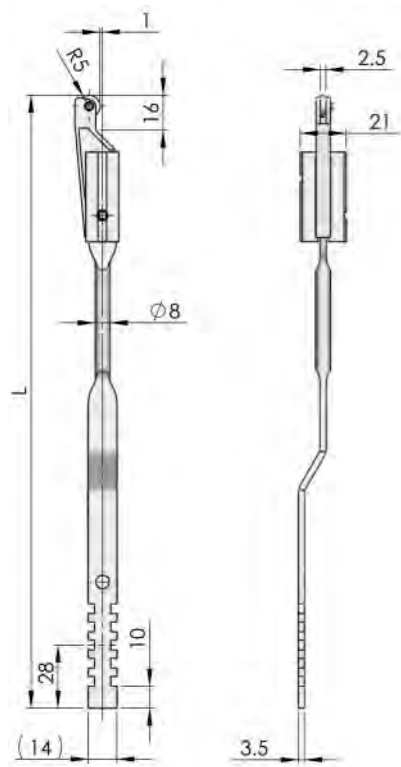
Door stop

Hinge

Seal gasket

Accessories
Handle lock
Cylinder lock
Electronic lock
Swing handle
Rod control lock
Panel lock
Toggle and hook
Handles
Door stop
Hinge
Seal gasket

**LG002-1**

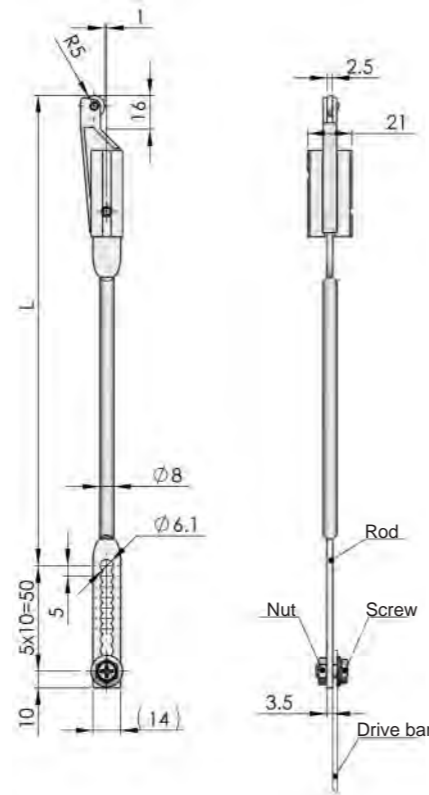


Zinc-plated, flat teeth rod, PA roller. ZDC joint, outside the gasket.

**ERP** LG002F3D000001

Please specify the rod length "L" purchase

**LG002-2**



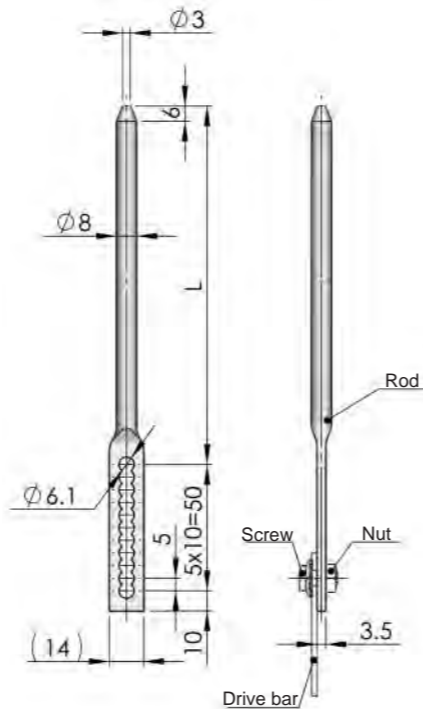
Remarks:fix flat bar with screw, rod length is adjustable, 5mm is adjusted by changing one set hole

Zinc-plated steel, adjustable round rod,PA roller, ZDC joint, outside the gasket.

**ERP** LG002F3D000002

Please specify the rod length "L" purchase

**LG003**



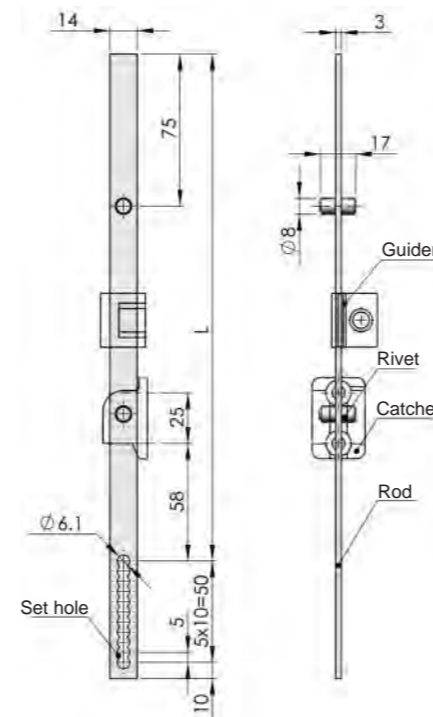
Remarks:fix flat bar with screw, rod length is adjustable, 5mm is adjusted by changing one set hole

Zinc-plated steel, adjustable round rod

**ERP** LG003F3D000001

Please specify the rod length "L" purchase

**LG004**

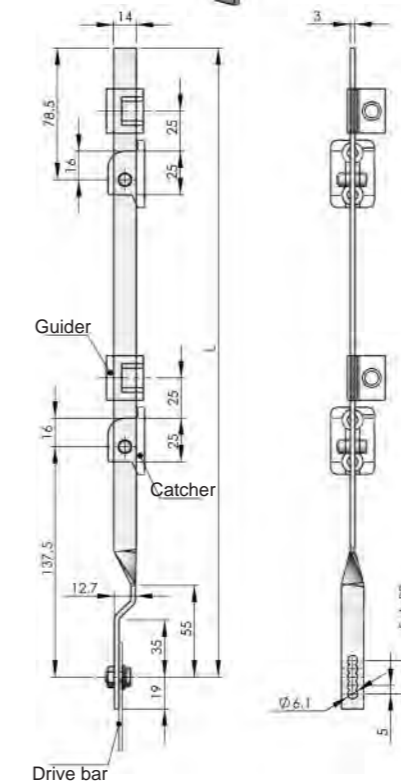


Zinc-plated steel, adjustable flat rod, outside the gasket.

**ERP** LG004F3D000001

Please specify the rod length "L" purchase

**LG005**



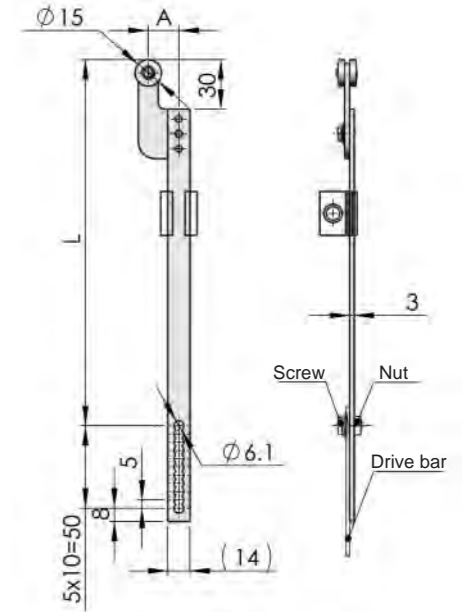
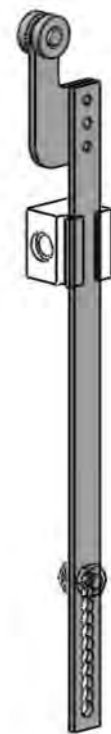
Remarks:fix flat bar with screw, rod length is adjustable, 5mm is adjusted by changing one set hole

Zinc-plated steel, adjustable flat rod, outside the gasket, it is fit for lock MS838.

**ERP** LG005F3D000001

Please specify the rod length "L" purchase

**LG006**



Zinc-plated steel, adjustable flat rod

ERP	A
LG006F3D000001	18.5
LG006F3D000002	22.5
LG006F3D000003	27.5
LG006F3D000004	35

Please specify the rod length "L" purchase

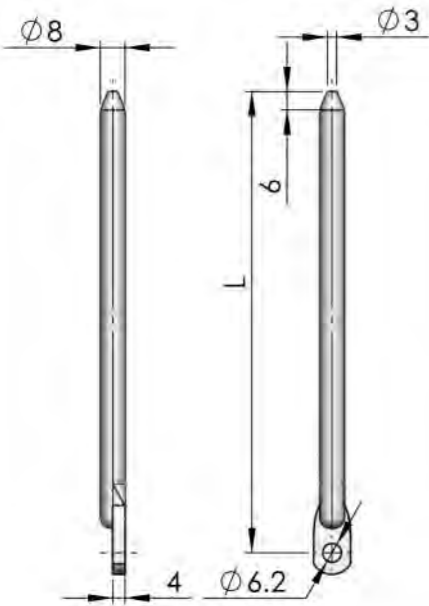
Accessories
Handle lock
Cylinder lock
Electronic lock
Swing handle
Rod control lock
Panel lock
Toggle and hook
Handles
Door stop
Hinge
Seal gasket



Accessories
Handle lock
Cylinder lock
Electronic lock
Swing handle
Rod control lock
Panel lock
Toggle and hook
Handles
Door stop
Hinge
Seal gasket

Accessories
Handle lock
Cylinder lock
Electronic lock
Swing handle
Rod control lock
Panel lock
Toggle and hook
Handles
Door stop
Hinge
Seal gasket

**LG007-A**

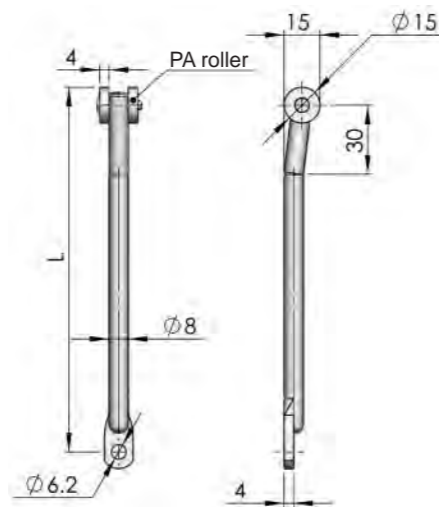


Zinc-plated steel, cone-round head with hole rod

**ERP** LG007F3D000001

Please specify the rod length "L" purchase

**LG007-B**

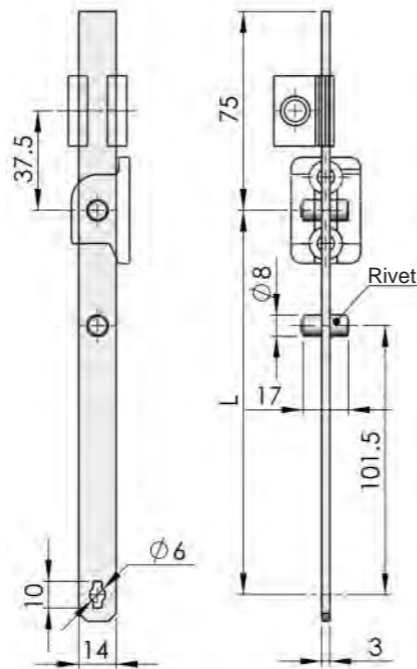
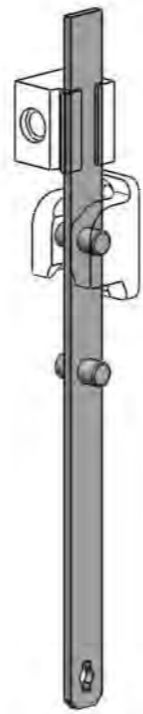


Zinc-plated steel, cone-round head with hole rod; with white PA roller

**ERP** LG007F3D000002

Please specify the rod length "L" purchase

**LG010**

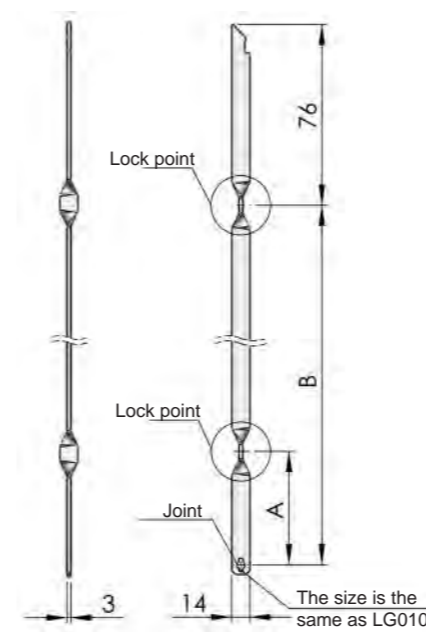


Zinc-plated steel, flat rod, refer to accessory chart on request of accessories

**ERP** LG010F3D000001

Please specify the rod length "L" purchase

**LG011**

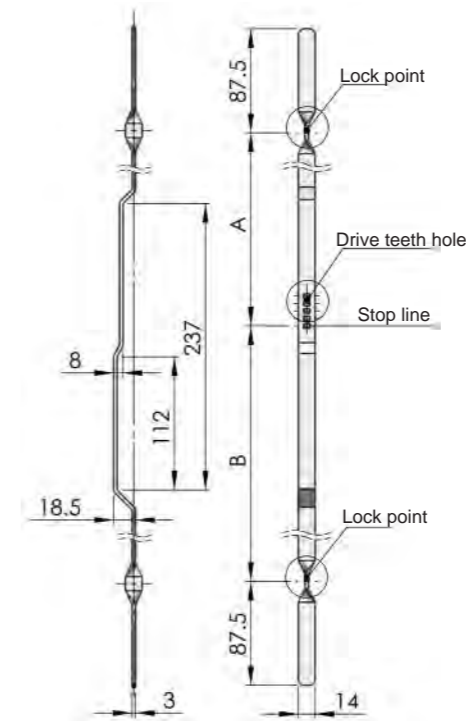


Zinc-plated steel, flat rod, match with RG003-2

**ERP** LG011F3D000001

Please specify the rod length "L" purchase

**LG012**



Zinc-plated steel, flat rod, match with RG003-2, used in MS856

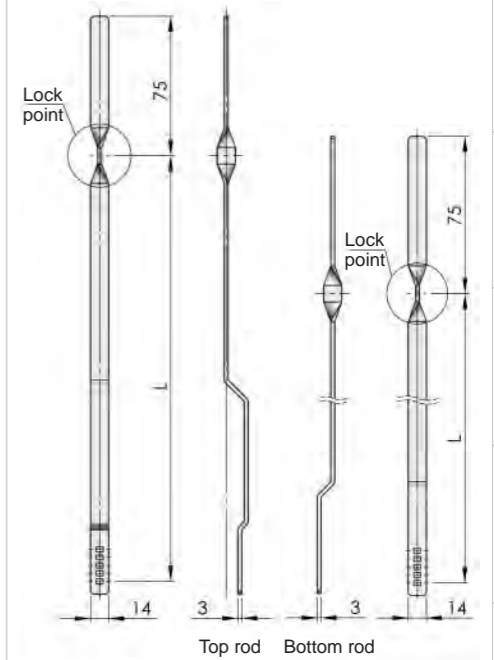
**ERP** LG012F3D000001

Please specify the rod length "L" purchase

**LG013-A**



**LG013-B**



Zinc-plated steel, flat rod, match with RG003-2, used in MS856

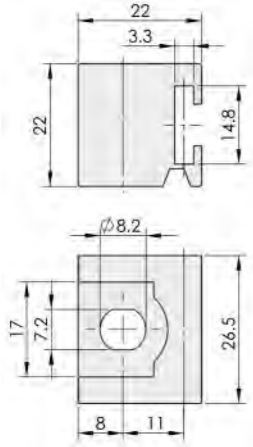
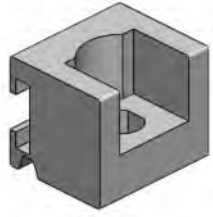
ERP	Specification
LG013F3D000001	Top rod
LG013F3D000002	Bottom rod

Please specify the rod length "L" purchase

Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket

Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket

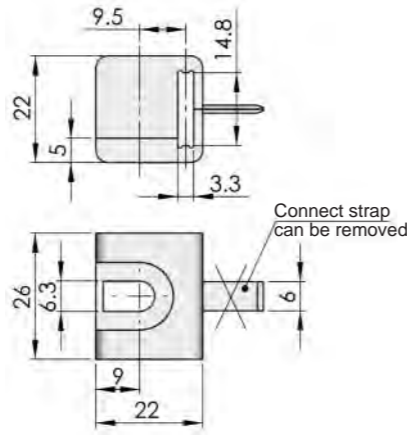
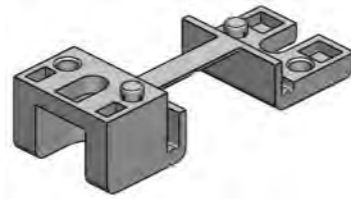
**RG001-1**



Black PA guide, fix with M6\*16~20 weld screw

ERP	Material
1110000001	Black PA

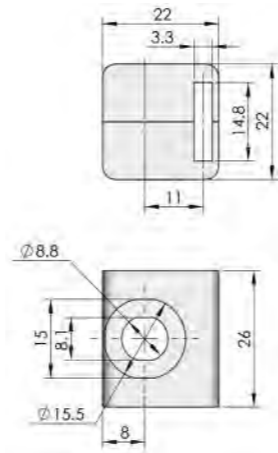
**RG001-2**



Black PA guide, fix with M6\*16~20 weld screw, connect strap can be removed

ERP	Material
1110000002	Black PA

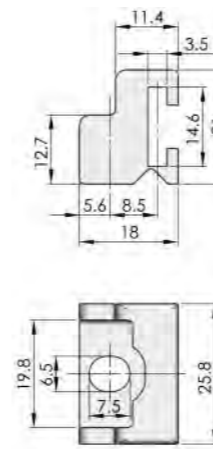
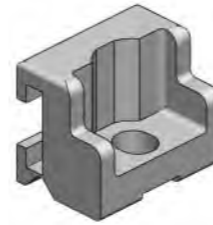
**RG001-3**



Black PA guide, zinc-plated nut, fix with M6\*16~20 weld screw

ERP	Material
1110000003	Black PA

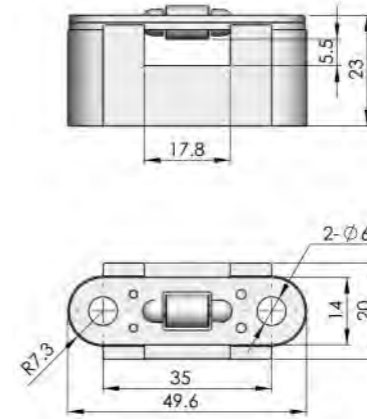
**RG001-8**



Black PA guide, fix with M6\*16~20 weld screw

ERP	Material
1110000008	Black PA

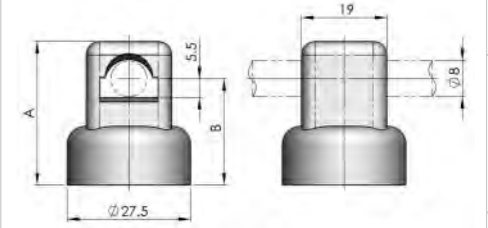
**RG001-9**



PC guide

ERP	Material
1110010009	PC(White)

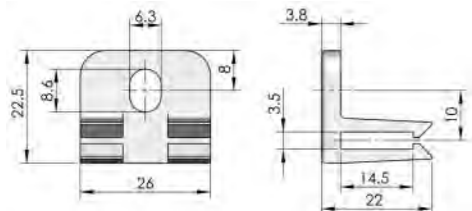
**RG002**



Black PA guide, nut inside

ERP	A	B	Welding screw specification
1110020001	32	24	M6x16
1110020002	38	30	M6x20
1110020003	42	34	M6x20

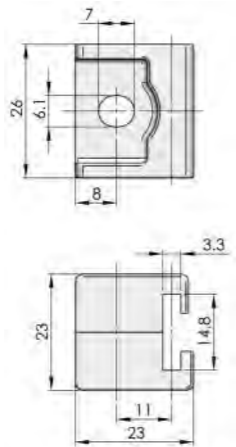
**RG001-4**



Black PA guide, fix with M6\*12 weld screw

ERP	Material
1110000004	Black PA

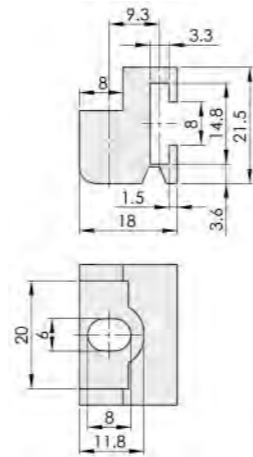
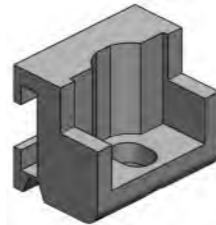
**RG001-5**



Black PA guide, fix with M6\*16~20 weld screw

ERP	Material
1110010001	Black PA

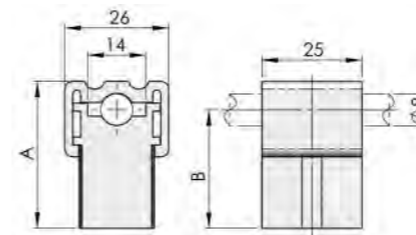
**RG001-6**



Black PA guide, fix with M6\*16~20 weld screw

ERP	Material
1110000006	Black PA

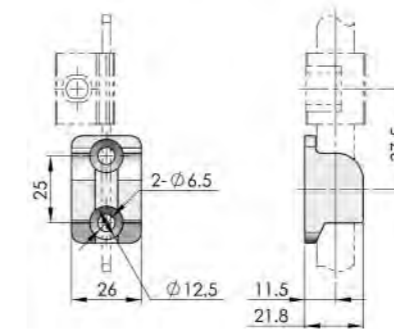
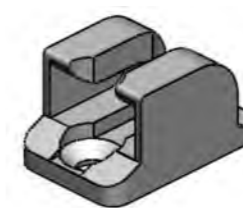
**RG002-A**



Black PA guide, nut inside, match with flat rod and round rod

ERP	A	B	Welding screw specification
1110021102	32	24	M6x16
1110021103	38	30	M6x20

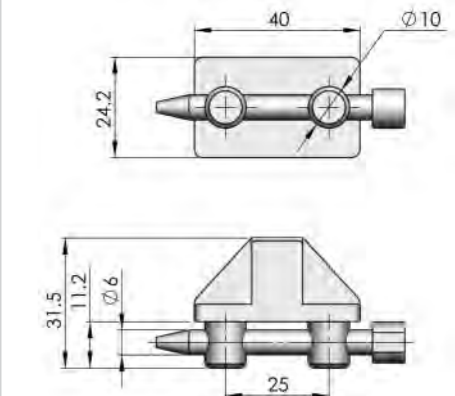
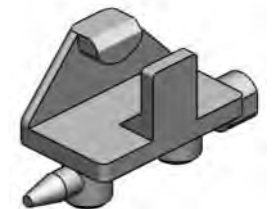
**RG003-1**



Black ZDC catcher, match with the rod white rivet

ERP	Material
1110030001	ZDC

**RG003-2**



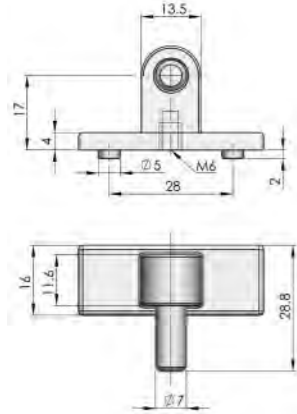
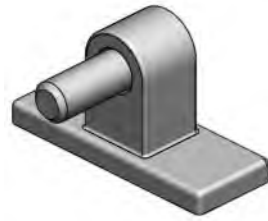
Black ZDC clip catcher, PA pin, fit with 2MM door

ERP	Material
1110030002	ZDC

Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket

Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket

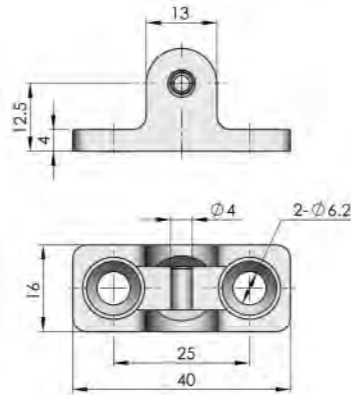
**RG003-3**



Zinc plated ZDC catcher, Zinc plated steel pin, fixed with M6 screw.

ERP	Material
1110030003	ZDC

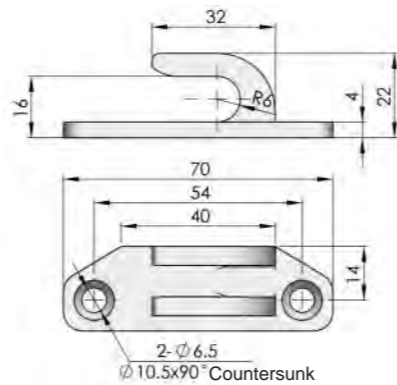
**RG003-4**



Zinc plated ZDC catcher, stainless steel pin, fixed with M6 screw.

ERP	Material
1110030004	ZDC

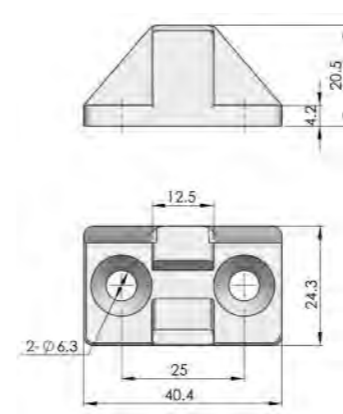
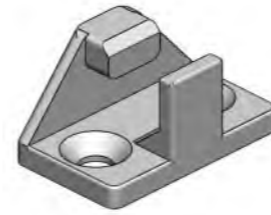
**RG003-5**



Zinc plated ZDC catcher, fixed with M6 countersunk head screw, match with the rod with roller.

ERP	Material
1110030005	ZDC

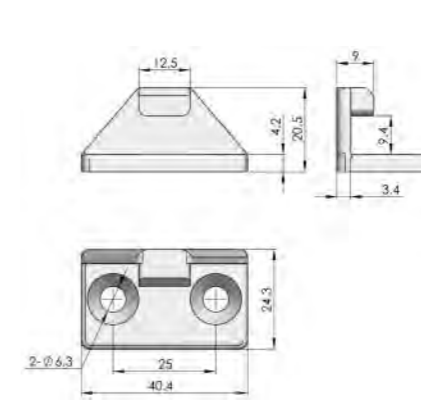
**RG003-9**



Zinc plated ZDC Cassette fixed buckle, fixed with M6 countersunk head screw.

ERP	Material
1110030009	ZDC

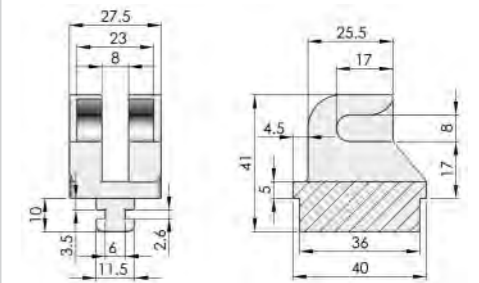
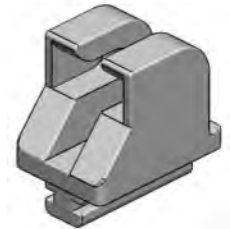
**RG003-10**



Zinc plated ZDC Cassette fixed buckle, fixed with M6 countersunk head screw.

ERP	Material
1110030010	ZDC

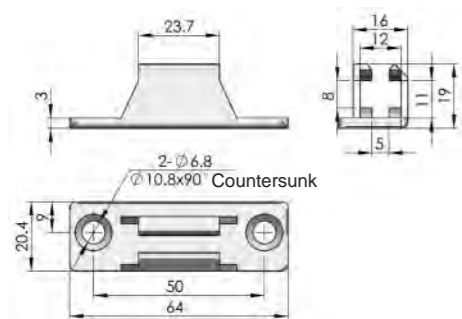
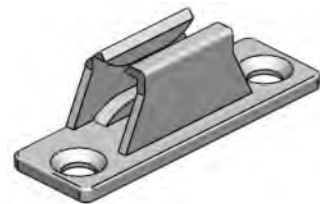
**RG003-11**



Zinc plated ZDC catcher, fixed with M6 countersunk head screw, match with locking pin flat rod.

ERP	Material
1110030012	ZDC

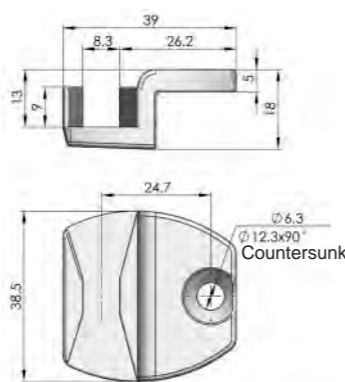
**RG003-6**



Zinc plated ZDC catcher, fixed with M6 countersunk head screw, match with locking pin flat rod.

ERP	Material
1110030006	ZDC

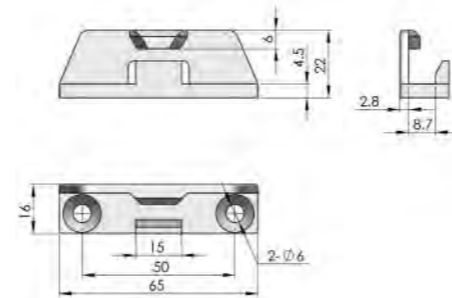
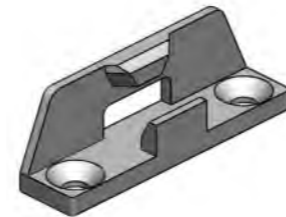
**RG003-7**



Zinc plated ZDC catcher, fixed with M6 countersunk head screw.

ERP	Material
1110030007	ZDC

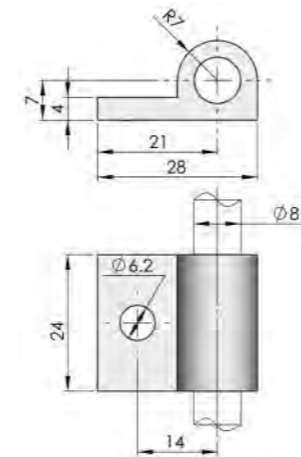
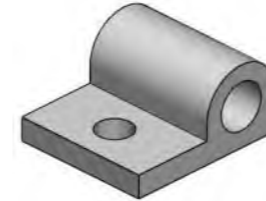
**RG003-8**



Zinc plated ZDC cassette catcher, fixed with M6 countersunk head screw.

ERP	Material
1110030008	ZDC

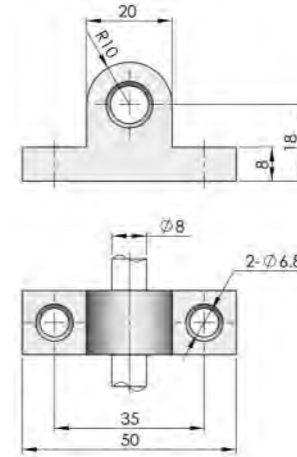
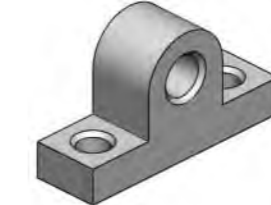
**RG004-1**



PA guider

ERP	Material
1110040001	Black PA

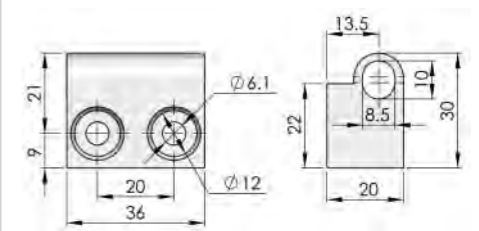
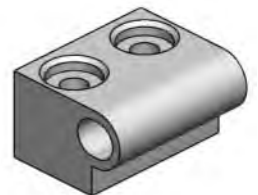
**RG004-2**



PA guider

ERP	Material
1110040002	Black PA

**RG004-3**



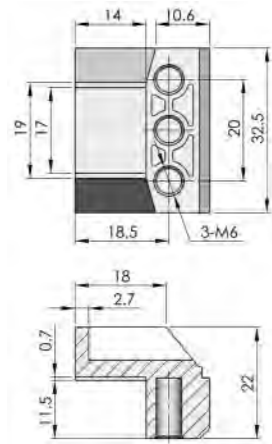
Black ABS guider

ERP	Material
1110040003	Black ABS

Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket

Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket

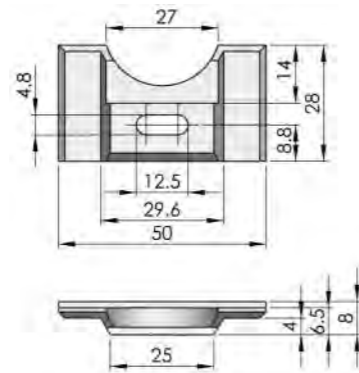
**RG005-1**



ZDC fix catcher, match with LG002-1/2.

ERP	Material
1110050001	ZDC

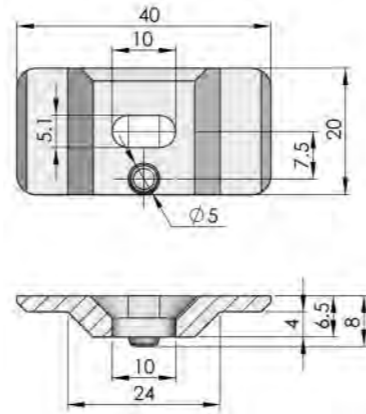
**RG005-2**



Cam fix fastener, match with S1A1403.

ERP	Material
1110050002	ZDC

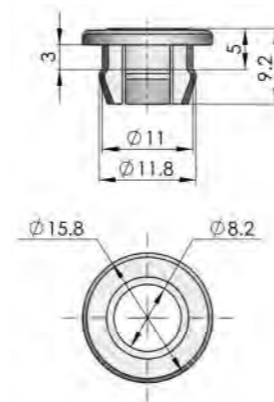
**RG005-3**



Cam catcher, match with S1A1403.

ERP	Material
1110050003	ZDC

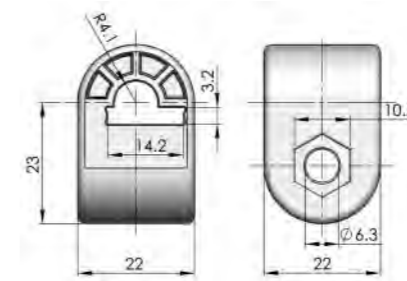
**RG008**



Nylon guide, match with Ø8 mm round rod.

ERP	Material
1110080001	Black PA

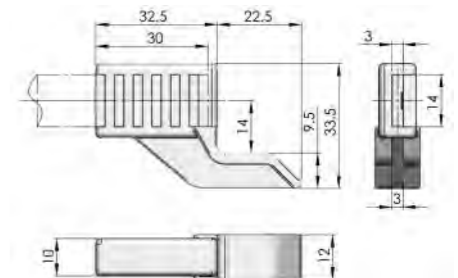
**RG010**



PA guide, match with Ø8 mm round rod and 3X14 flat rod.

ERP	Material
1110100001	Black PA

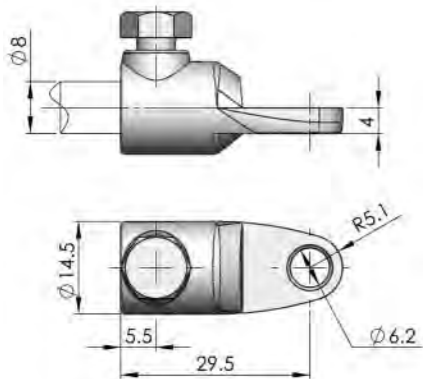
**RG015**



PA guide, match with 3X14 flat rod.

ERP	Material
1110150001	Black PA

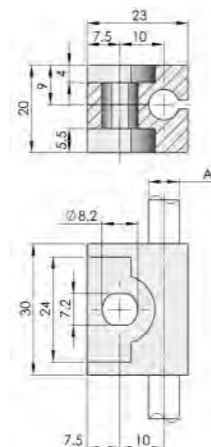
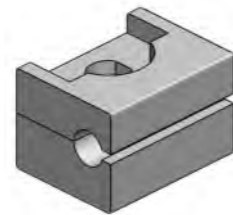
**RG006-1**



Zinc plated ZDC, connect accessories, Zinc plated steel, M6 set screw.

ERP	Material
1110061001	ZDC

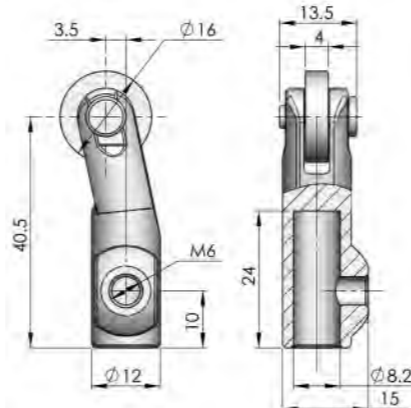
**RG006-2**



PA guider

ERP	Material
1110060002	Black PA

**RG007**



ZDC connect cover, nylon roller, match with LG001-1 and LG003.

ERP	Material
1110070001	ZDC/PA

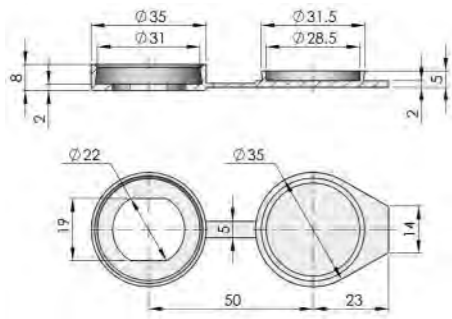
**Accessories for rods**

Rod guide code	Rod code
RG001-1	LG004, LG005, LG006, LG010
RG001-2	LG004, LG005, LG006, LG010
RG001-3	LG004, LG005, LG006, LG010
RG002	LG001-1, LG001-2, LG001-3, LG003, LG007-A
RG002-A	LG001-1, LG001-2, LG001-3, LG003, LG007-A, LG007-B
RG004-1	LG001-1, LG001-2, LG001-3, LG003, LG007-A
RG004-2	LG001-1, LG001-2, LG001-3, LG003, LG007-A
RG004-3	LG001-1, LG001-2, LG001-3, LG003, LG007-A
RG006-2	LG002-1, LG002-2
RG006-2A	LG001-1, LG001-2, LG001-3, LG003, LG007-A, LG007-B
Rod guide code	Rod code
RG003-1	LG004, LG005, LG010
RG003-2	
RG003-3	
RG005-1	LG002-1, LG002-2
RG005-2	LG002-1, LG002-2
RG006-1	LG001-1, LG001-2

Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket

Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket

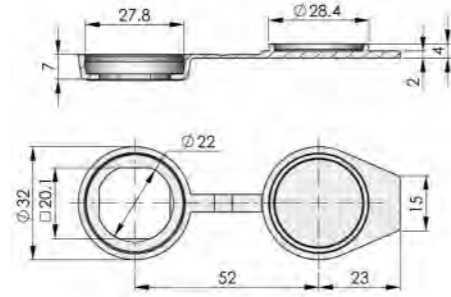
**WP001**



Black PA water-proof cap

ERP	Material
1150010001	Black PA

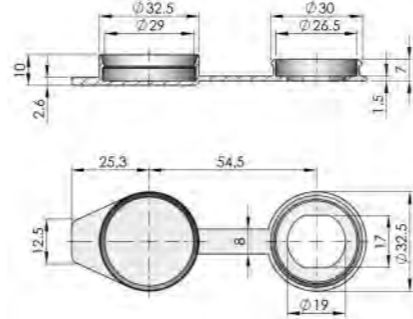
**WP002**



Black PA water-proof cap

ERP	Material
1150020001	Black PA

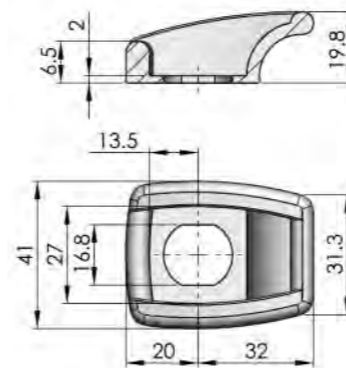
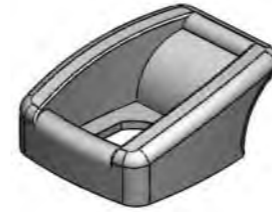
**WP003**



Black PA water-proof cap

ERP	Material
1150030001	Black PA

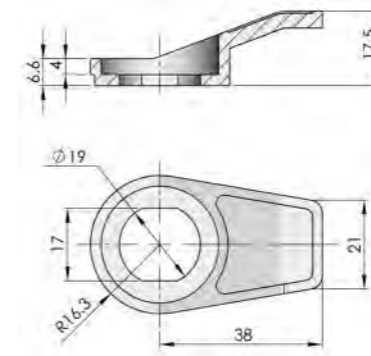
**HP002**



Black rubber handle pull

ERP	Material
1150020002	RB

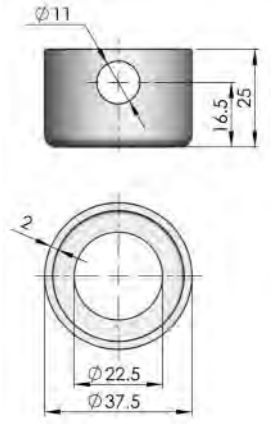
**HP003**



Black PP handle pull

ERP	Material
1150030002	Black PP

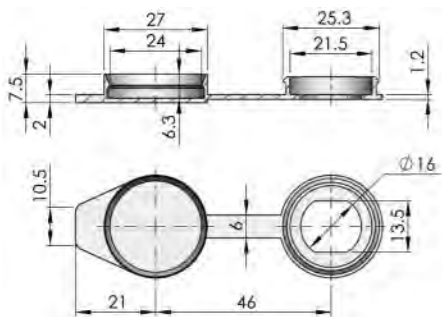
**A3001**



Cannula

ERP	Material
1153001001	SUS
1153001002	Pocked black powder Q235

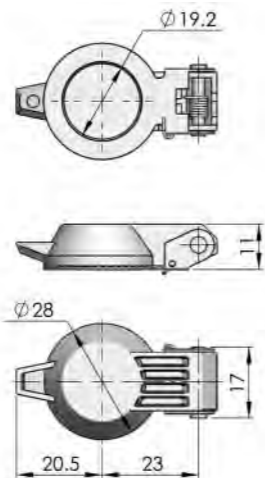
**WP004**



Black PA water-proof cap

ERP	Material
1150040001	Black PA

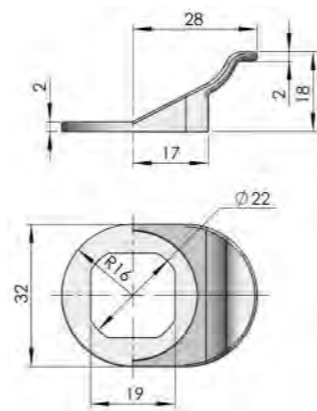
**DP001**



Chrome plated zdc water-tight cap,sus bracket

ERP	Material
1150010002	Zinc plated ZDC/SUS

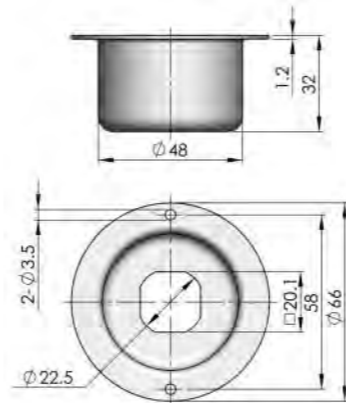
**HP001**



Black PA handle pull

ERP	Material
1150010003	Black PA

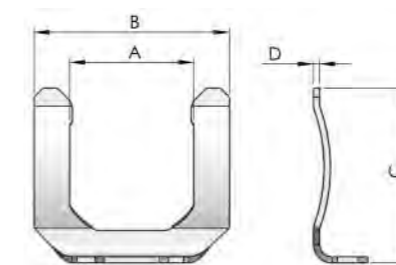
**A3002**



Zinc plated steel seating, applicable for locks similar to MS705

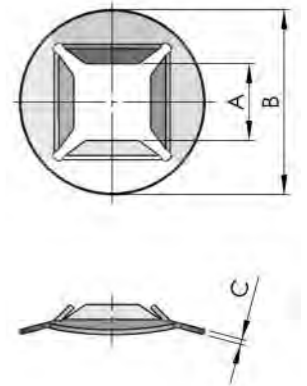
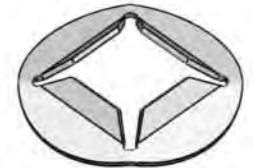
ERP	Material
1110040001	Zinc plated Q235

**Spring clip plate**



Model	Specification				Part from
	A	B	C	D	
KP001	10	14	17	0.5	MS844
KP002	14	21	25	0.5	MS743
KP003	16	25	22	0.8	MS744
KP004	17	28	38	0.8	MS862

**Clip fastener**



Model	Specification				Part from
	A	B	C	Sharft	
KP301	∅3.6	∅12	0.3	∅4/ 4	MS830
KP302	∅5.8	∅15	0.3	∅6/ 5	MS840-1A
KP303	∅7.8	∅16	0.3	∅8/ 8	MS866-1
KP304	∅7.6	∅15	0.5	∅8/ 8	MS312

**Cylinder series**

**TC01**

Chrome plated ZDC cylinder default Key K140, Automatic reset lock tongue.

**TC01-2**

Chrome plated ZDC cylinder default Key K140, Automatic reset lock tongue.

**TC03-1**

Brass Anti-thief cylinder on request of safety and special circumstance.

**TC03-5**

Brass Anti-thief cylinder on request of safety and special circumstance.

**TC04-1**

Chrome plated cylinder, default K140, automatic reset.

**TC04-2**

Chrome plated cylinder, with button, automatic reset.

**TC05-1**

Chrome plated ZDC cylinder, with stainless steel safety cover and stainless steel screw. default key K140, automatic reset.

**TC06-1**

Chrome plated ZDC cylinder, match with padlock, default key K290, automatic reset.

**TC06-2**

Chrome plated ZDC cylinder, match with padlock, default key K290.

Model	A	B
TC06-2	17	Ø12
TC06-3	26.5	Ø14
TC06-4	12	Ø8x11

Specification	Code	Key Code
Double bit 4mm	TC02-1	K15-1/K15-1F/K15-1A
Double bit 3mm	TC02-1A	K15-1/K15-1F/K15-1A
Hooked	TC02-2	K15-1
Triangular 8mm	TC02-3	K15-3/K15-3F
Square 8mm	TC02-4	K15-4/K15-4F
Square 8mm with slot	TC02-4A	K15-4/K15-4F
Square 6mm	TC02-5	K15-5/K15-5F/K15-5A
Square 7mm	TC02-6	K15-6/K15-6F
Socket Hexagon	TC02-7	K15-7/K15-7F
Slot	TC02-8	
Hexagon	TC02-9	K15-9/K15-9F
Thron	TC02-10	K15-10
Oblate-type	TC02-11	K15-11
Triangular 7mm	TC02-12	K15-3/K15-3F

**TC02-1**

Chrome plated ZDC cylinder insert, auto-resile striking plate, see P061 for insert sets.

Specification	Code	Key Code	
Key-type cylinder	Anti-thief insert	TC08-A1	K14/K19
Cylinder insert	Double bit 4mm	TC08-B1	K15-1/K15-1F/K15-1A
	Double bit 3mm	TC08-B1A	K15-1/K15-1F/K15-1A
	Hooked	TC08-B2	K15-1
	Triangular 8mm	TC08-B3	K15-3/K15-3F
	Square 8mm	TC08-B4	K15-4/K15-4F
	Square 8mm with slot	TC08-B4A	K15-4/K15-4F
	Square 6mm	TC08-B5	K15-5/K15-5F/K15-5A
	Square 7mm	TC08-B6	K15-6/K15-6F
	Socket Hexagon	TC08-B7	K15-7/K15-7F
	Slot	TC08-B8	
	Hexagon	TC08-B9	K15-9/K15-9F
	Thron	TC08-B10	K15-10
Oblate-type	TC08-B11	K15-11	
Triangular 7mm	TC08-B12	K15-3/K15-3F	

**TC08**

Cylinder list on P061

**Nut**



Hex earthing nut



**Locking screw**



Non-standard nuts table							
Plane nut				Step nut			
Nut code	Part source	Dimensions				Material	Remarks
		A	B	C	D		
M 26x1.5	807	36	9.5	7.5	31	ZDC	
M 26x1.5	807	36	10	8	31.5	SUS	
M 24x1.5	823	32	5			ZDC	Eight-square nut
M 22x1.5	812	36	10	8	31.5	ZDC	
M 22x1.5	705	27	4			ZDC	
M 22x1.5	705	27	4			CRS	
M 22x1.5	705	27	5			SUS304	
M 22x1.5	PH-53	32	3			ZDC	
M 22x1.5	705	27	4			CRS	Hex earthing nut
M 22x1	304	29	4.5			ZDC	Eight-square nut
M 19x1	824	24	4			ZDC	
M 19x1	BKS	22	3.5			BR	
M 18x1	PH-30-4	28	3			ZDC	
M 18x1	PH-3-1	26	1.5	3.3	21	ZDC	
M 17x1	PH-30-3	26	1.5	3.3	21	ZDC	
M 17x1	PH-6-2	26	3			ZDC	
M 16x1	845	20	3			ZDC	

Washer screw size	H
SW4 x 8	8

Washer screw size	H
SW6 x 8	8
SW6 x 10	10
SW6 x 27	27
SW6 x 55	55

Washer screw size	H
SW6 x 5	5
SW6 x 8	8
SW6 x 10	10
SW6 x 12	12

Washer screw size	H
SW8 x 12	12

Accessories	Key series										Key screw										Accessories																																										
	K010	K020	K030	K040	K050	K240	K250	K260	K270	K280	K060	K070	K080	K082	K083	K282	K290	K321	K322	K330		K090	K100	K102	K110	K120	K360	K410	K420	K430	K440	K130	K140(Stainless iron)	K140(Plastic grip)	K160	K170	K480	K500	K530	K540	K560	K722	K180	K190	K200	K210	K220	K570	K580	K590	K590 (Steel)	K600	K723										
Handle lock																																																					Handle lock	Cylinder lock	Electronic lock	Swing handle	Rod control lock	Panel lock	Toggle and hook	Handles	Door stop	Hinge	Seal gasket

Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket

Key Code	Applicable Products Mode
K010	MS710, MS731, MS829, MS736, MS730
K020	MS719, MS727, MS712, MS713, MS819, MS828, MS831, MS838, DKS, DK601
K030	MS737, TC04-1, TC05-1, TC05-2, MS833, MS832, MS835
K040	MS805, TC04-1, TC05-1, TC05-2, MS719, MS727, MS712, MS713, MS819, MS831, MS828, MS838, MS318, MS305, MS307, MS748-1
K050	MS301, MS304, MS305, MS306, MS307, MS310, MS317, MS807 Series, MS737, TC04-1, TC05-1, TC05-2, MS833, MS832, MS835, MS804, MS802, MS826
K060	MS710, MS731, MS829, MS736, MS730
K070	MS719, MS727, MS712, MS713, MS819, MS831, MS828, MS838
K080	DKS, DK601, DK604, MS852, MS843, MS731-1/2/3/6, MS736, MS710, MS829, MS866-1/2/3/5/6
K082	MS710, MS731, MS829, MS736, MS866-1, MS866-2, MS867, MS866-5, MS866-11
K083	MS710, MS731 Series, MS829, MS736, MS723, MS723-2, MS730
K090	MS719, MS727, MS712, MS713, MS819, MS831, MS828
K100	MS719, MS727, MS712, MS713, MS819, MS831, MS828, MS838
K102	MS737, TC04-1, TC05-1, TC05-2, MS833, MS832, MS834, MS835
K110	MS807 Series, MS304, MS310, MS719, MS727, MS712, MS713, MS819, MS831, MS828, MS838, DK604, MS852, MS843, MS805, MS737, MS832, MS833, MS835, DKS, DK601, TC04, TC05-1/2
K120	DKS, DK601
K130	MS856, MS857, MS858
K140	MS861-1, MS705-3E, MS848-B, MS840-B, MS840-C, MS872, MS719, MS727, MS712, MS713, MS819, MS831, MS828, MS865, MS861-2, TC01\748-3, MS324, MS323
K160	MS825, MS826, MS719, MS727, MS712, MS713, MS819, MS831, MS828, MS312, MS313, MS314, MS315, MS741, MS748, MS744, MS718-3, MS870, MS762, MS753, MS861-1, MS705-3E, MS848-B, MS840-B, MS840-C, MS872, MS760, MS866-3, MS866-6, MS865, MS861-2
K170	MS855-1, MS815-2, MS815-3
K180	MS718
K190	MS862, MS861-1, MS840-1B, MS705-3E, TC08, MS872, MS861-3, MS861-2, MS865, MS840, MS846, MS848, MS748 Series
K200	MS730
K210	TC01, MS846, MS840, MS848
K220	MS816
K240	MS815, MS869
K250	MS308
K260	MS880, MS680

Key Code	Applicable Products Mode
K270	MS790, MS690
K280	TC01, MS719, MS727, MS712, MS713, MS819, MS831, MS828, MS737, TC04-1, TC05-1, TC05-2, MS833, MS832, MS835, MS838, MS805, MS312, MS313, MS314, MS315
K282	MS743
K290	MS818, MS864
K321	MS731 Series, MS710, MS730, MS736, MS829
K322	MS731 Series, MS710, MS730, MS736, MS829
K330	MS866-4, MS746
K360	MS744
K410	MS858-6D, MS866-7, MS745-3-01D
K420	MS729 Series, MS711
K430	MS733-1
K440	MS884
K480	MS775
K500	MS779
K530	MS866-3S
K540	MS786
K560	TC01, MS840, MS846, MS848
K570	MS816-1D-1, MS816-1D-2
K580	MS830, MS824
K590	MS720
K590(Steel)	MS720
K600	MS732
K722	MS712, MS712-Q, MS713, MS819, MS828, MS831, MS727
K723	TC01, TC04, TC05, MS737, MS832, MS833, MS835, MS301, MS304, MS305, MS306, MS307, MS317, MS817, MS805, MS762

Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket

**K722**



**Application range :**

MS712, MS712-Q, MS713, MS819, MS828, MS831, MS727  
Quantity for unique key: 200pcs

**K723**



**Application range :**

TC01, TC04, TC05, MS301, MS304, MS305, MS306, MS307, MS317, MS737, MS762, MS805, MS817, MS832, MS833, MS835  
Quantity for unique key: 5000pcs



Accessories

Handle lock

Cylinder lock

Electronic lock

Swing handle

Rod control lock

Panel lock

Toggle and hook

Handles

Door stop

Hinge

Seal gasket

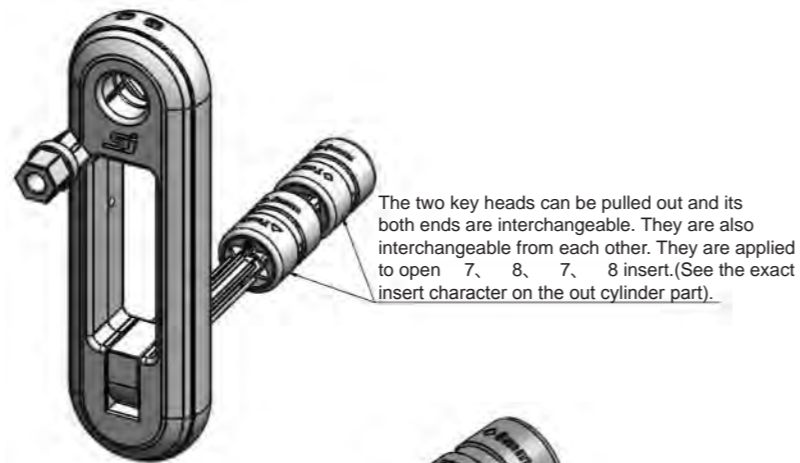
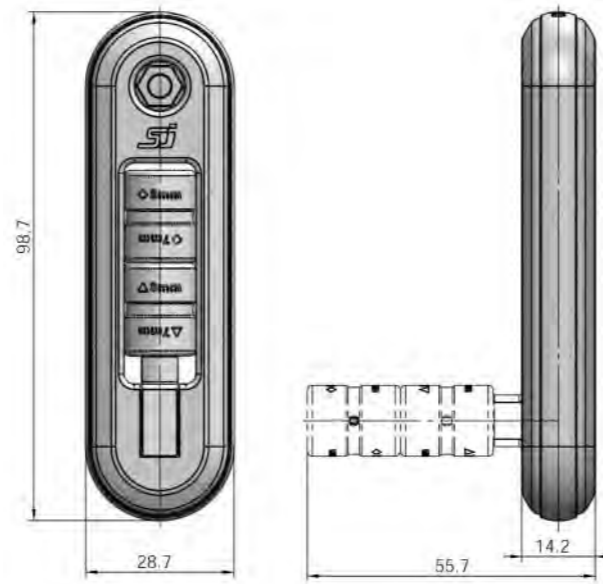
**K66 Key**



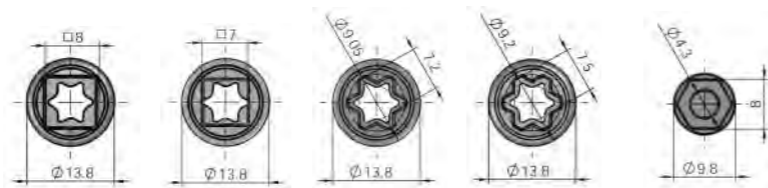
**Material:** Plastic upper and down cover, stainless steel housing, shaft and key head.

**Note:** It's multi-functional tool key, can open 7、 8、 7、 8 and hexagon female 8mm insert, by changing the key head.

**New item : Consult R & D department when there is order.**



The two key heads can be pulled out and its both ends are interchangeable. They are also interchangeable from each other. They are applied to open 7、 8、 7、 8 insert. (See the exact insert character on the out cylinder part).



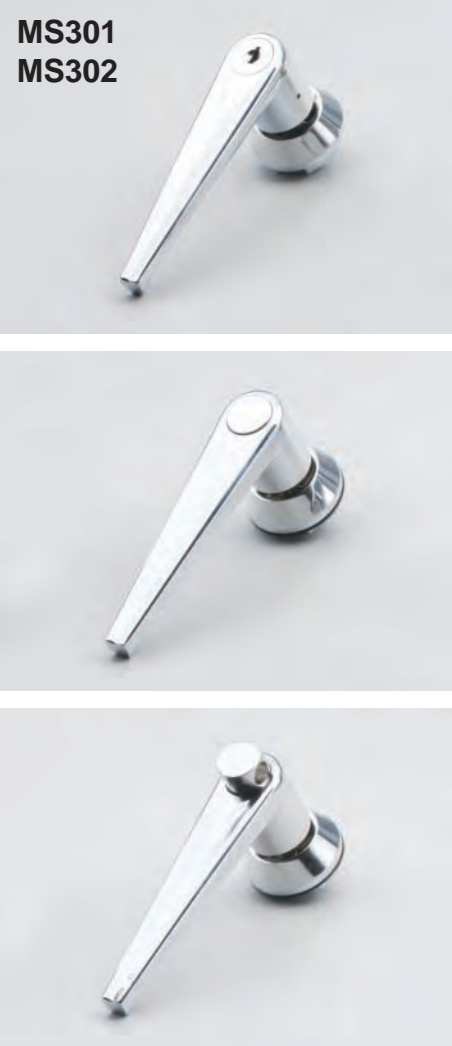
8 key head    7 key head    8 key head    7 key head    Hexagon female 8mm key head

ERP    3290660001

**HANDLE LOCK SERIES**

				
MS301	MS304	MS305	MS306	MS307
				
MS308	MS310	MS312	MS313	MS314
				
MS315	MS316	MS317	MS319	MS320
				
MS324	MS842	MS807-1	MS841	MS859
				
MS868	MS887-1	MS887-2	MS887-3	MS887-4

Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket



**MS301**  
**MS302**

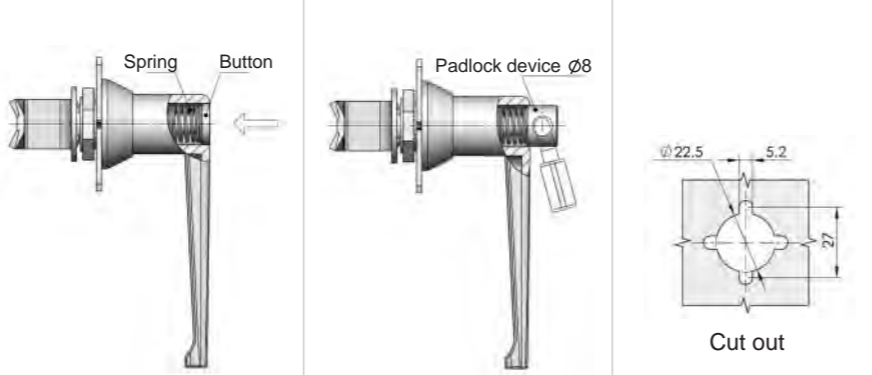
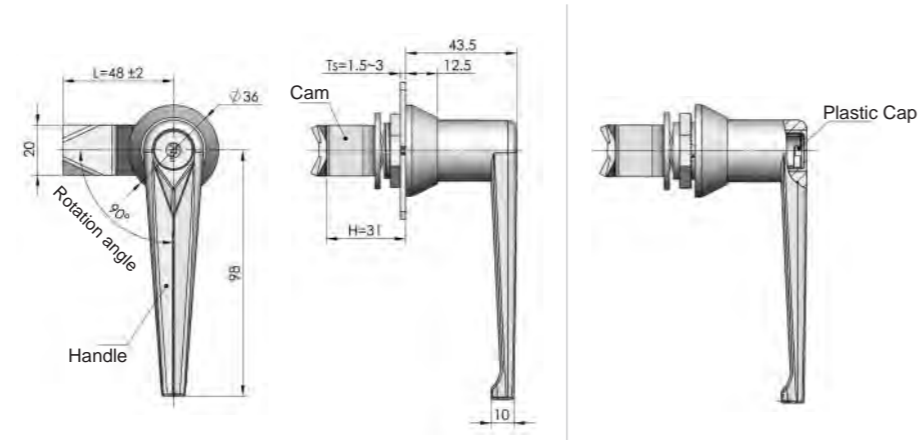
**RL**

**Main material and finish :** Bright chrome-plated ZDC handle and housing, white zinc-plated steel cam, bright chrome plated button and white zinc plated shaft

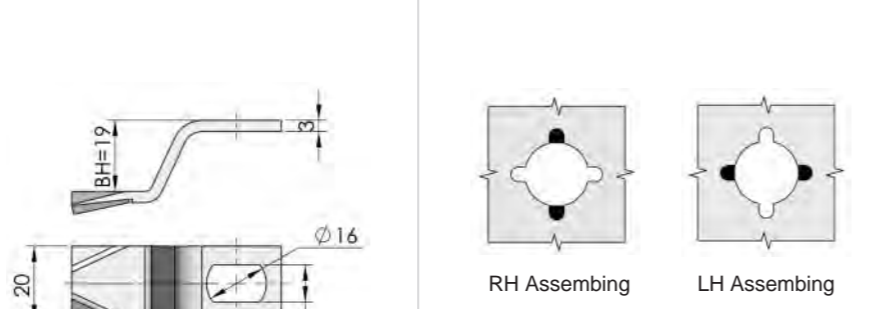
**Application :** Quarter-turn opening or closing

**Remarks :** Default Key K050

**Default cam :** S1H48Y19002



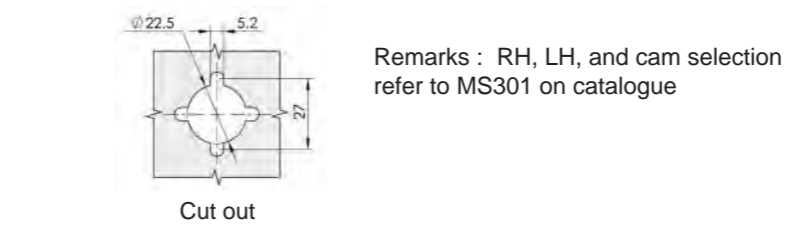
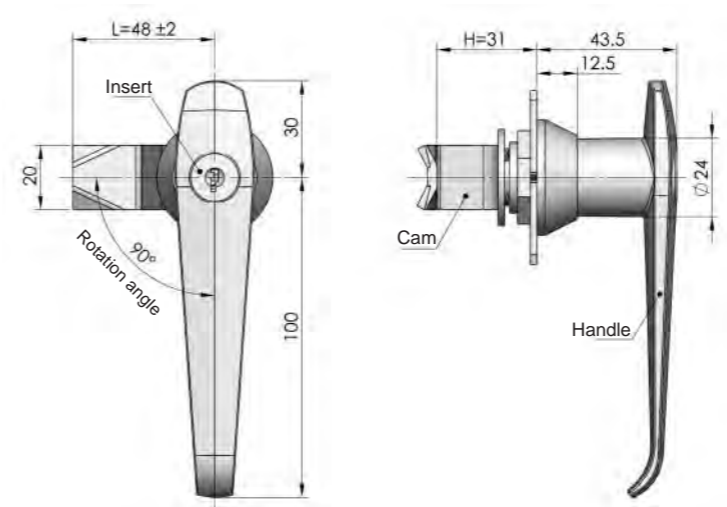
**Cam S1H4819 (Optional)**



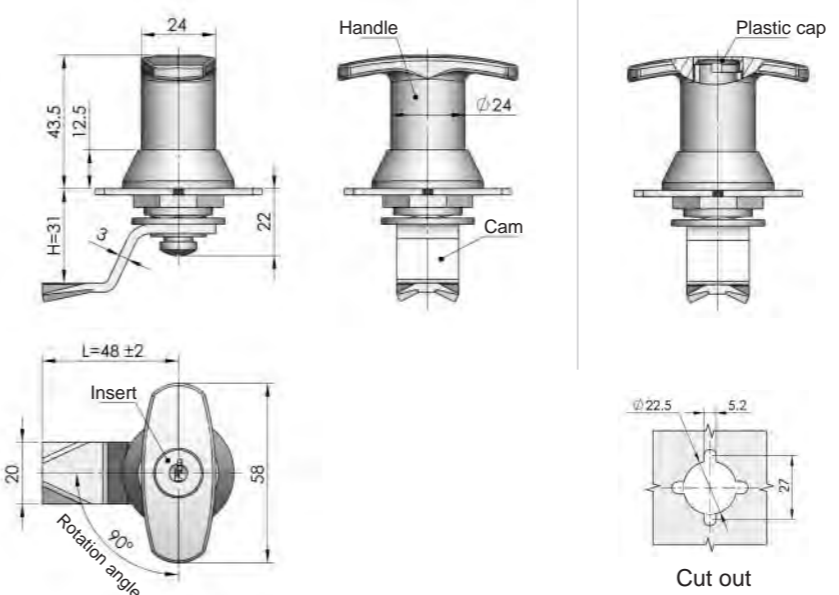
**Remarks:** shadow parts shows mounting hole allocation between housing and door panel

Specification	Model	ERP
With insert	MS301 - 1	MS301Z3A050008
Without insert	MS301 - 2	MS301Z3A000001
With button type	MS302 - 1	MS302Z3A000001
With padlock type	MS302 - 2	MS302Z3A000008

Remarks : Default Cam S1H4819



**ERP** MS304Z3A050008  
Remarks : Default cam S1H4819



Remarks : RH, LH, and cam selection refer to MS301 on catalogue

Specification	Model	ERP
With insert	MS305 - 1	MS305Z3A050006
Without insert	MS305 - 2	MS305Z3A000003

Remarks : Default cam S1H4819



**MS304**

**RL**

**Main material and finish :** Bright chrome-plated ZDC handle and housing, white zinc-plated steel cam

**Application :** Quarter -turn opening or closing

**Remarks :** Default Key K050

**Default cam :** S1H48Y19002



**MS305**

**RL**

**Main Material and finish :** Bright chrome-plated ZDC handle and housing, white zinc-plated steel cam

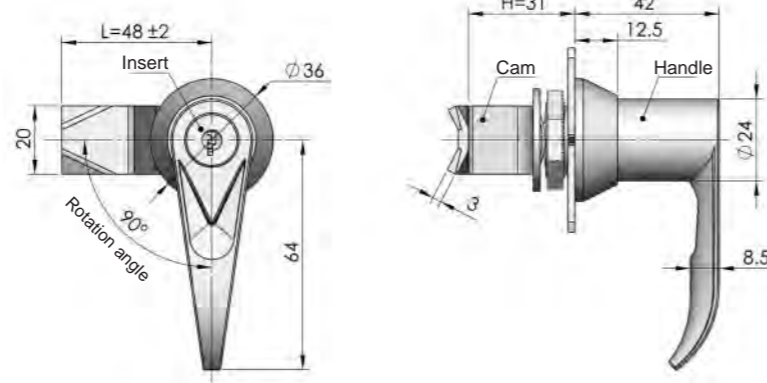
**Application :** Quarter -turn opening or closing

**Remarks :** Default key K050

**Default cam :** S1H48Y19002

Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket

**MS306**



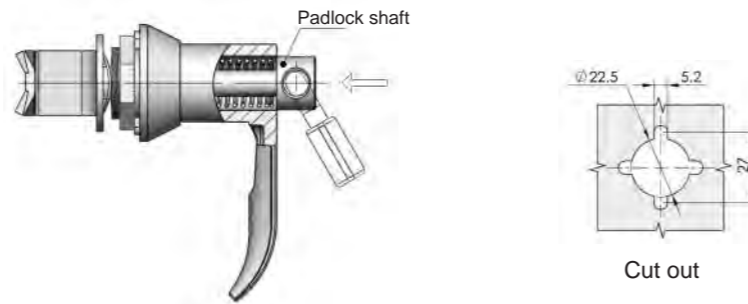
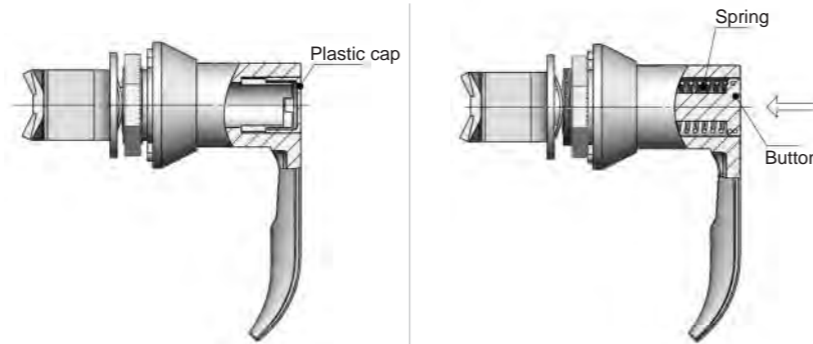
**RL**

**Material and finish :** Bright chrome-plated ZDC handle and housing, white zinc-plated steel cam, bright chrome plated steel button and shaft

**Application :** Quarter-turn opening or closing

**Remarks :** Default key K050

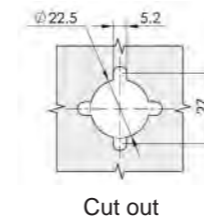
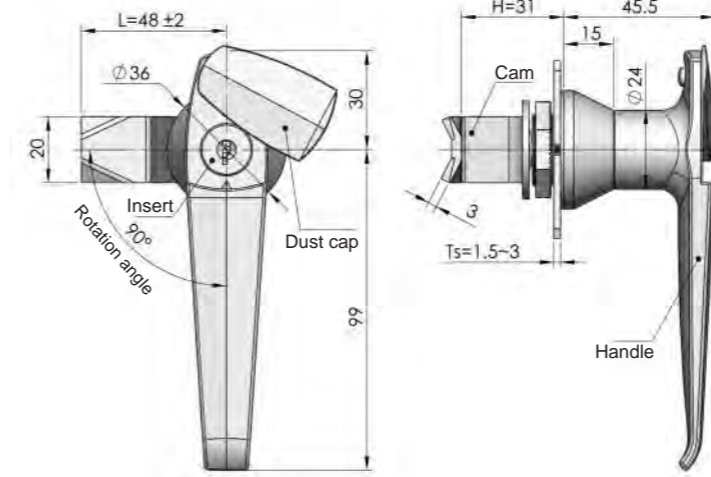
**Default cam :** S1H48Y19002



**Remarks :** RH ,LH changes and cam selection refer to MS301 on catalogue

Specification	Model	ERP
With insert	MS306-1	MS306Z3A050005
Without insert	MS306-2	MS306Z3A000007
With button type	MS306-3	MS306Z3A000002
With padlock type	MS306-4	MS306Z3A000006

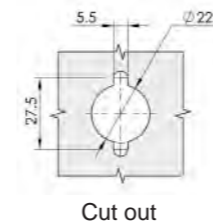
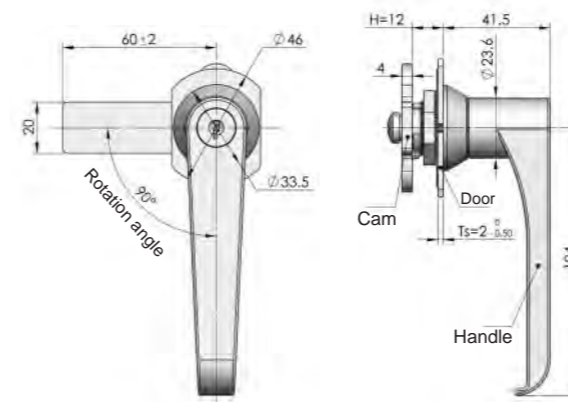
**Remarks :** Default Cam S1H4819



**Remarks :** RH,LH, and cam selection please refer to MS301 on catalogue

**ERP** MS307Z3A050011

**Remarks :** Default cam S1H4819

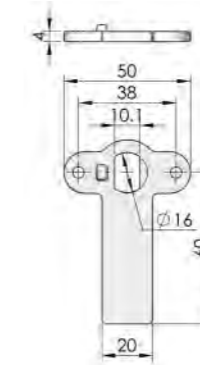


**Remarks :** Default specification RH

**ERP** MS308Z3A250002

**Remarks :** Default cam S3H6000

**Cam (Optional)**



**ERP** S3H60Y00001

**MS307**



**RL IP54**

**Main material and finish :** Bright chrome-plated ZDC handle and housing, white zinc-plated steel cam

**Remarks :** Default key K050

**Default cam :** S1H48Y19002

**MS308**



**R**

**Main material and finish :** Bright chrome-plated ZDC handle and housing, white zinc-plated steel cam

**Application :** Quarter-turn opening or closing

**Remarks :** Default key K250

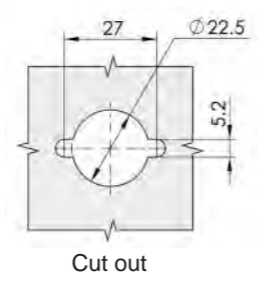
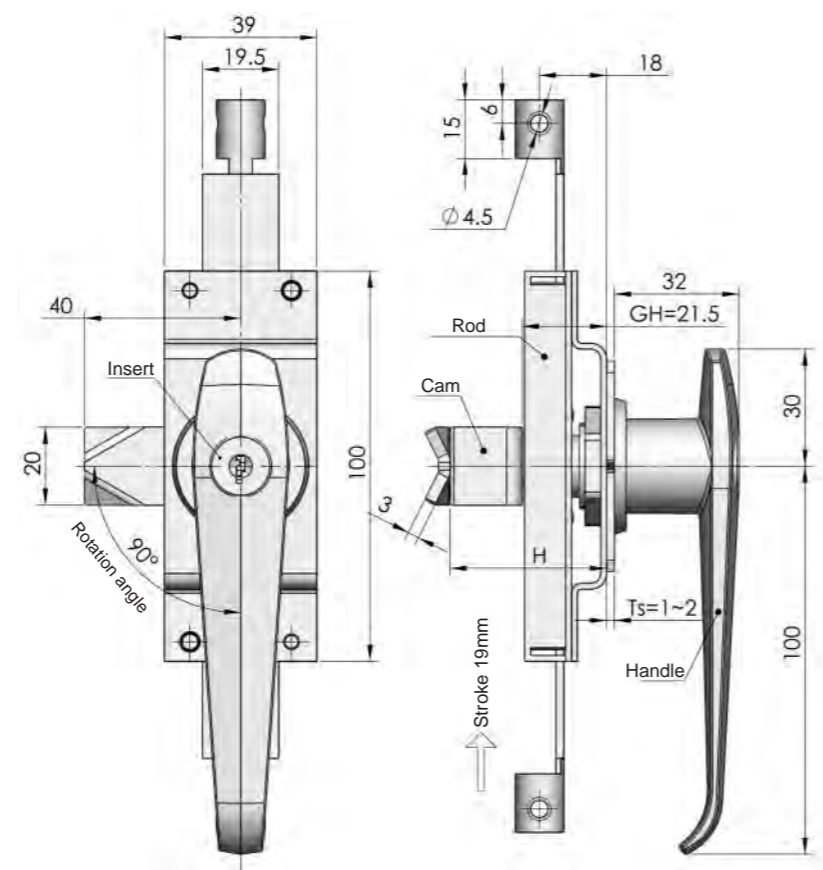
Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket



**R L**

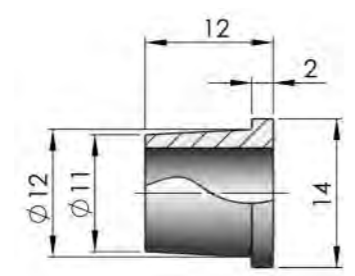
**Main material and finish :** Bright chrome-plated ZDC handle and housing, white zinc-plated steel cam and rod drive mechanism  
**Application :** Quarter-turn opening or closing, combining with rod drive mechanism and cam  
**Remarks :** Default key K050

**Default cam :** S1C42Y24001



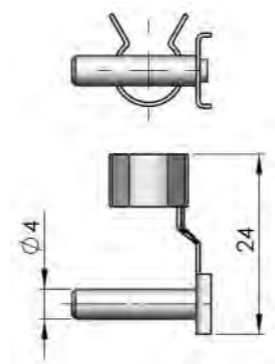
**ERP** MS310Z3A050002  
 Remarks : Default cam S1C4224

**Plastic cover (Optional)**

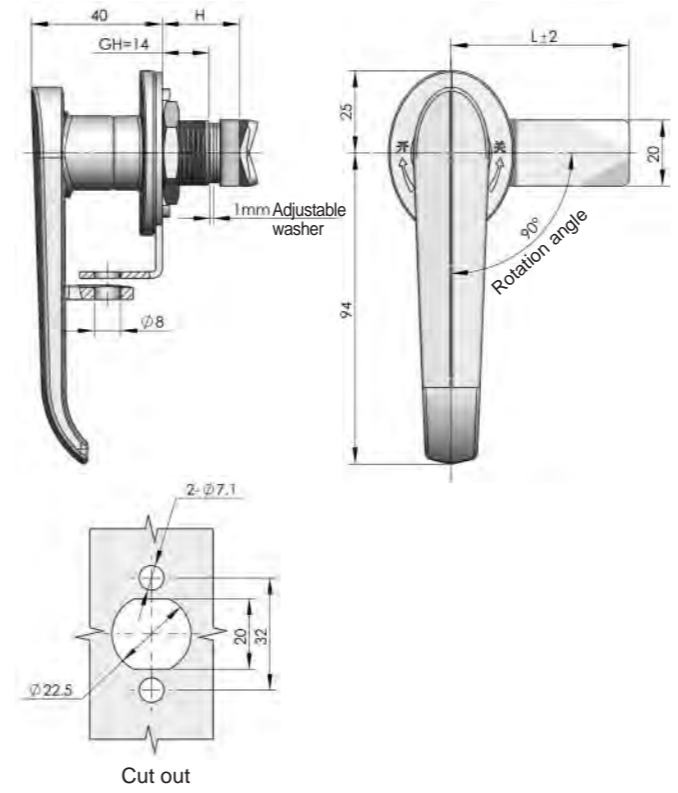


**ERP** 3593100001

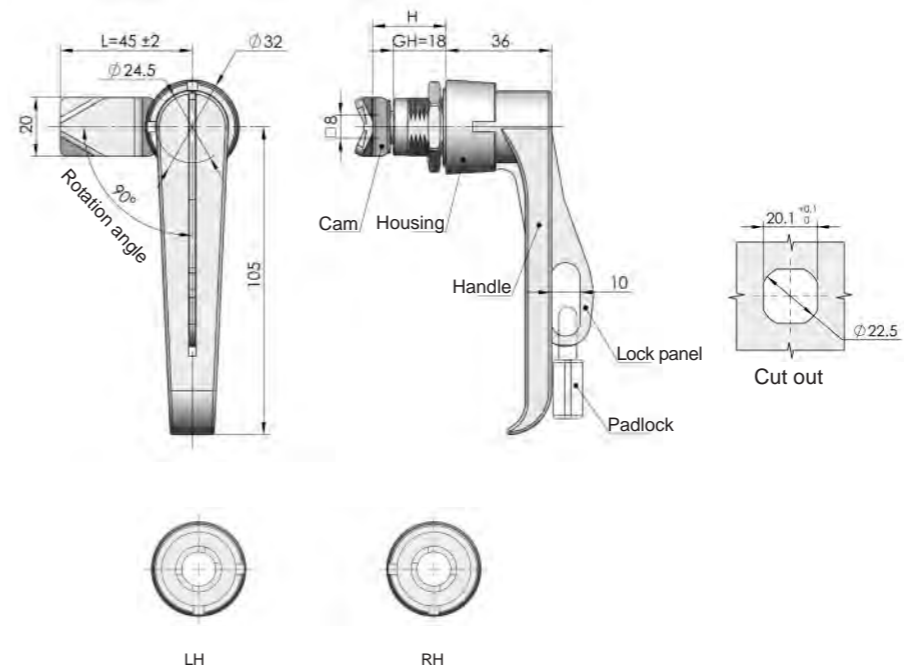
**Rod fixing set (Optional)**



**ERP** 3433100001



**ERP** MS322Z2B000003  
 Remarks : Default cam S1B5406 ( square 8\*8 cam optional )



Specification	Model	ERP
ZDC	MS842	MS842Z1B000003
Stainless steel	MS842-1B	MS842S4B000001

Remarks : Default cam S1B4507 ( square 8\*8 cam optional )



**L** **IP65** **3PL**

**Main material and finish :** Nanometer painting ZDC handle and housing, white zinc-plated steel padlock and cam  
**Application :** 90 degree rotation opening or closing, pad-lockable

**Default cam :** S1B54Y06001



**RL** **IP54**

**Main material and finish :** black pocked coated ZDC handle and housing, white zinc-plated steel cam, stainless steel lock panel or whole stainless steel for selection  
**Application :** Quarter-turn opening or closing, padlockable

**Default cam :** S1B45Y07002  
 S1B45Y07022

Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket

Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket

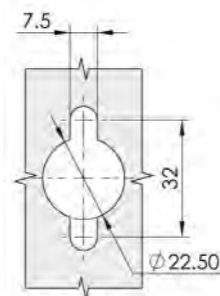
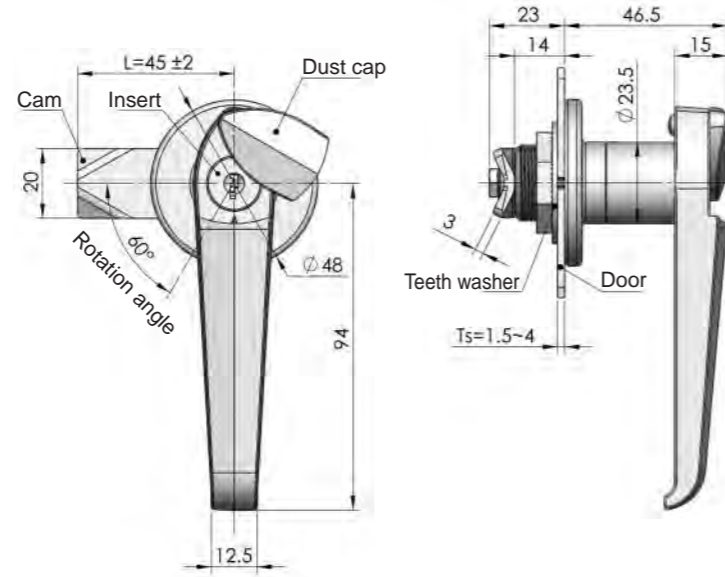
**MS317**



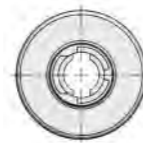
**RL IP54**

**Main material and finish :** Bright chrome-plated ZDC handle, housing and insert, white zinc-plated steel cam, teeth washer  
**Application :** 60 degree rotation opening or closing  
**Remarks :** Default key K050

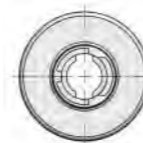
**Default cam :** S1B45Y00002



Cut out



Opening from left rotation



Opening from right rotation

**ERP** MS317Z3A050001

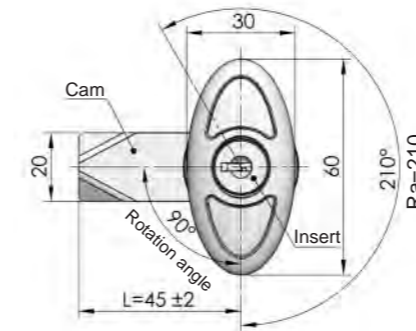
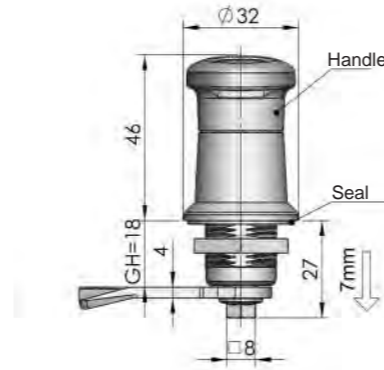
Remarks : Default cam S1B4500

**MS319**

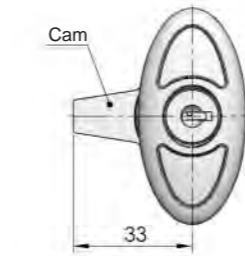
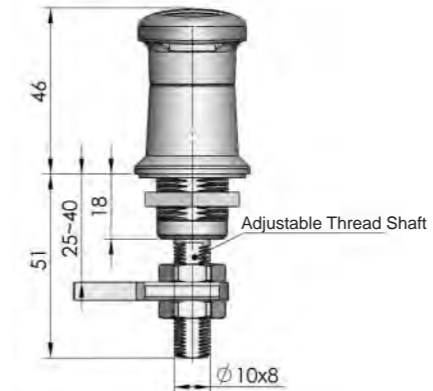


**Main material :** Nanometer-plated ZDC handle and housing, white zinc-plated steel shaft and cam  
**Application :** 210 degree handle rotation combines with 90 degree cam rotation  
**Remarks :** Default key K280

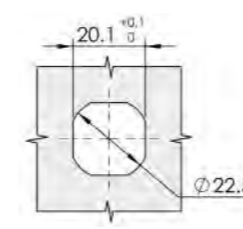
**Default cam :** S1B45Y00002(Unadjustable)  
 S1M33Y00002(Adjustable)



Unadjustable type



Adjustable type



Cut out

Specification	Model	ERP
With insert, unadjustable	MS319-1	MS319Z2B280001
Without insert, unadjustable	MS319-2	MS319Z2B000001
With insert, adjustable	MS319-1A	MS319Z2B280002
Without insert, adjustable	MS319-2A	MS319Z2B000002

Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket

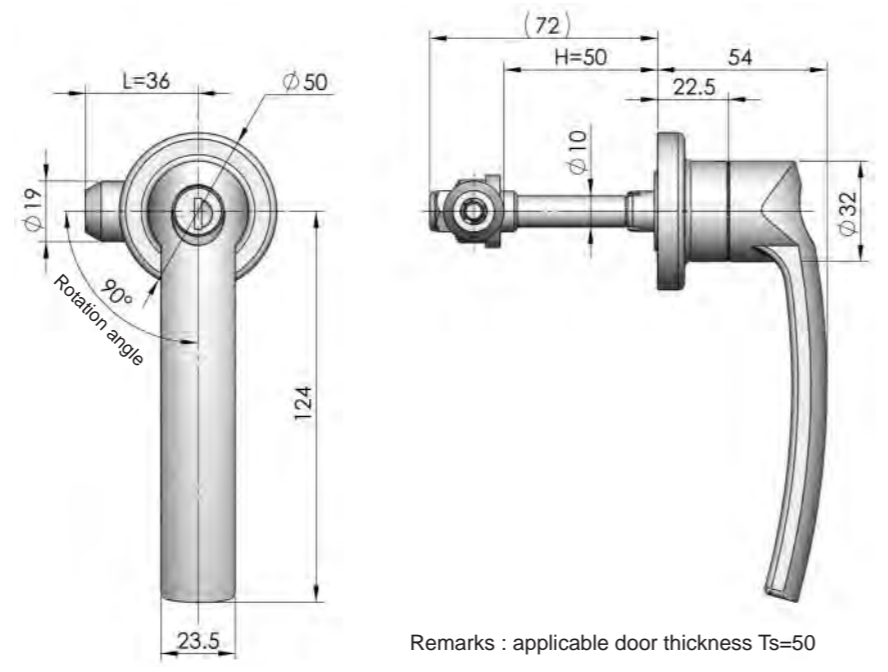
Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket



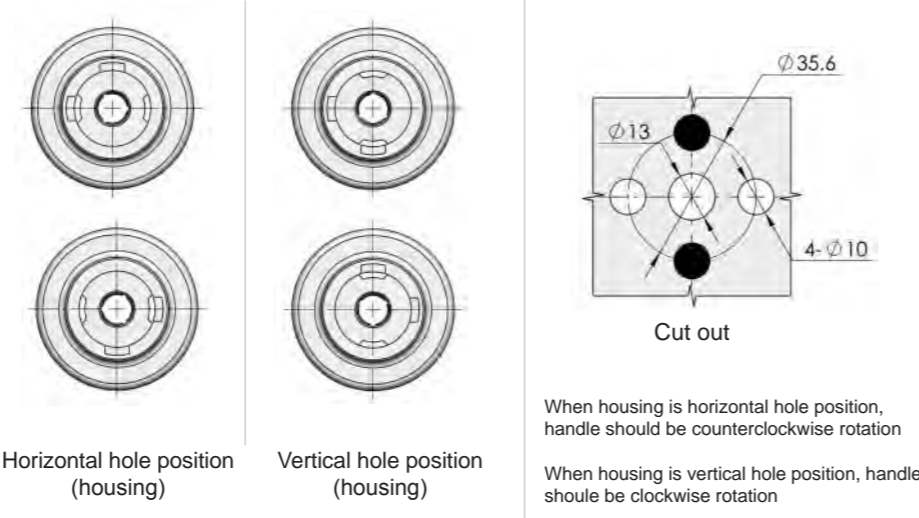
**MS320**

**RL**

**Main material and finish :** PA handle and housing, white zinc-plated steel shaft  
**Application :** Quarter-turn opening or closing  
**Remarks :** Default key K160



**Installation Method**



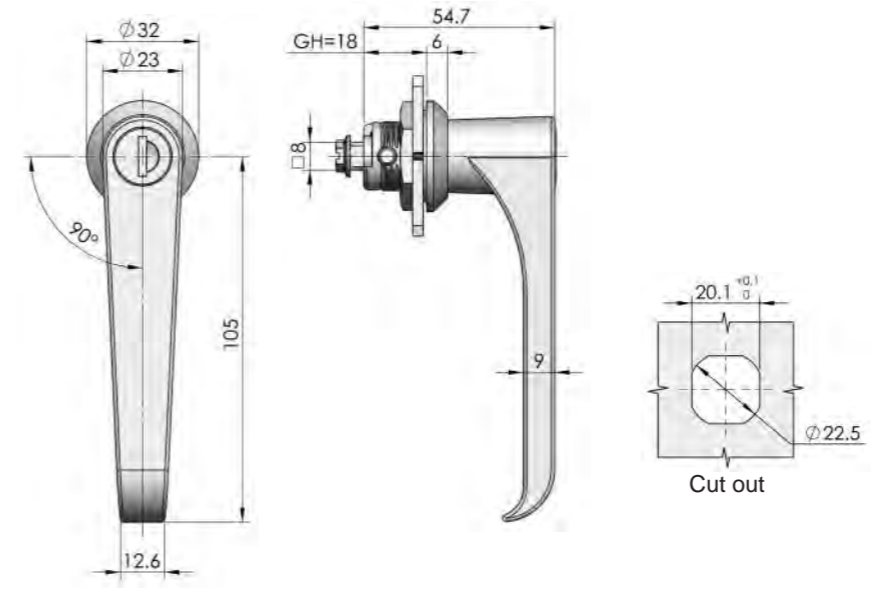
ERP	MS320N00160004
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**MS324**

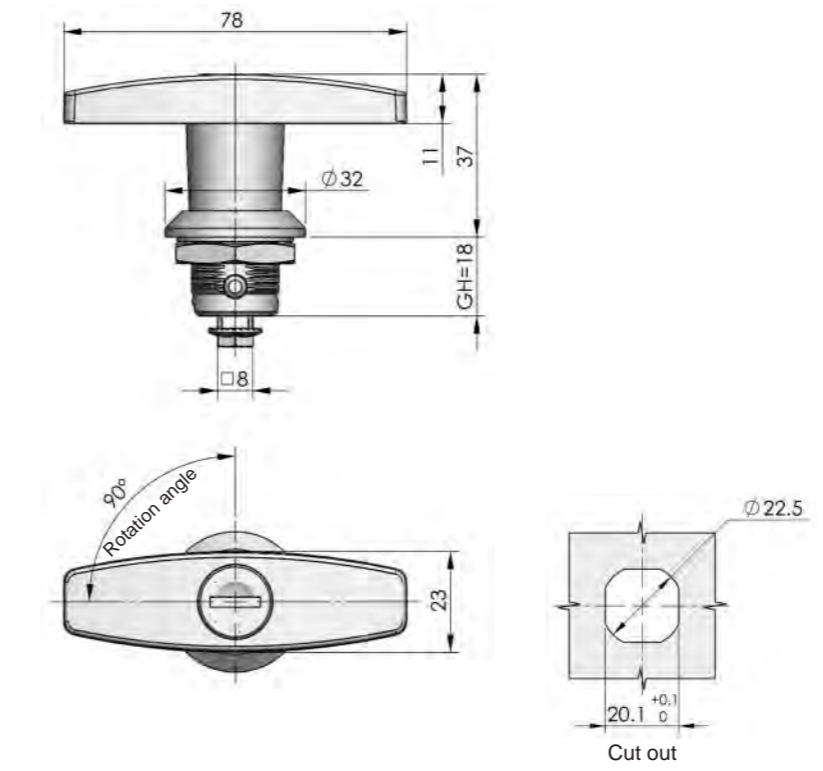
**Main material and finish :** ZDC handle and housing, steel cam  
**Application :** Handle 90 rotation opening or closing  
**Remarks :** Default key K140

**Default cam :** S1B45Y07002



	MS324-1 Black powder coating ZDC	MS324-1B Stainless steel
ERP	MS324Z1A140010	MS324S4B140007

Remarks: Default cam S1B4507 ( Square 8\*8 cam optional )



	MS324-2 With insert	MS324-2A Without insert
ERP	MS324Z1A140040	MS324Z1A000002

Remarks : Default cam S1B4507 ( square 8\*8 cam optional )



**MS324-2**

**RL IP65 3PL**

**Main material and finish :** Black powder coating ZDC housing and handle, white zinc plating steel cam  
**Application :** 90 degree rotation opening or closing  
**Remarks :** Default key K140

**Default cam :** S1B45Y07020

Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket

Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket

Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket

MS807-1



MS807-2



MS807-3



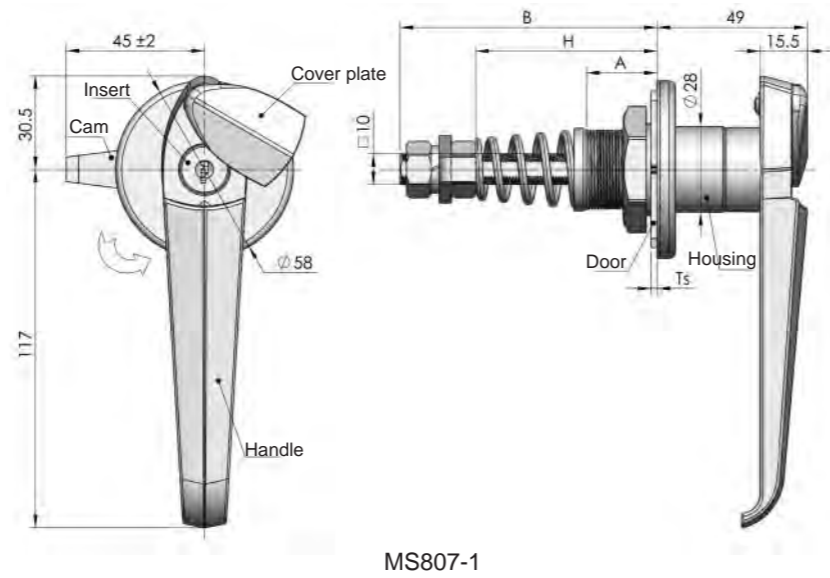
**R L IP54**

**Main material and finish :** Bright chrome-plated ZDC handle, housing, insert and dust-tight cap, white Zinc-plated steel cam, teeth washer, and shaft

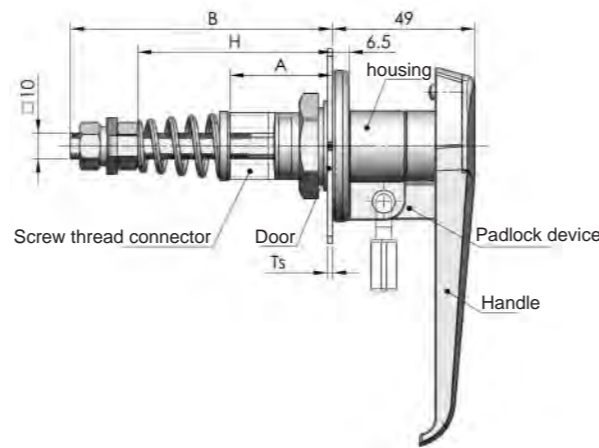
**Application :** Cam adjustable

**Remarks :** Default key K050

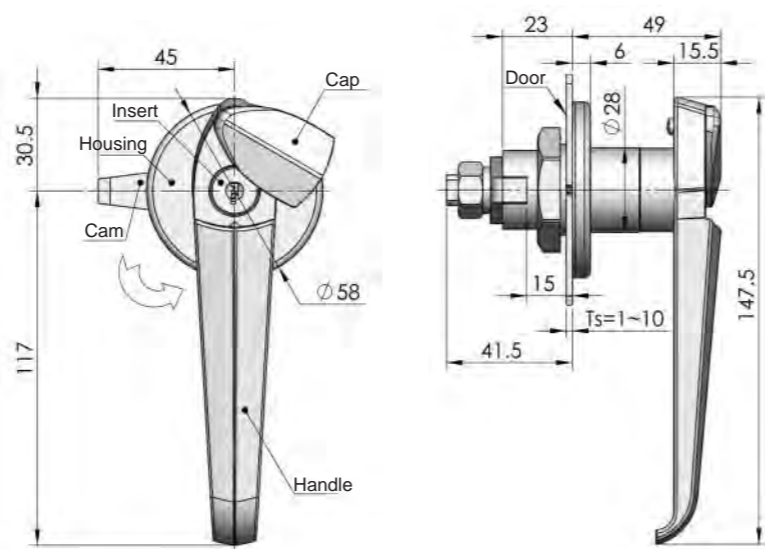
**Default cam :** S1C45Y00003(Steel)  
S1C45Y00004(Stainless steel)



MS807-1

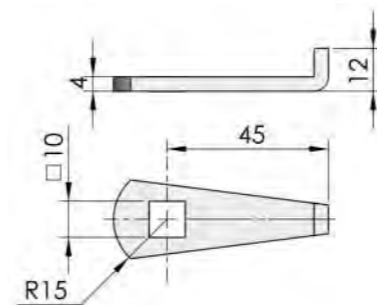


MS807-2

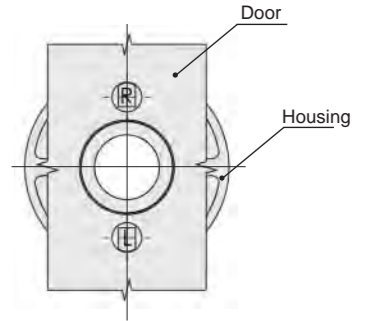
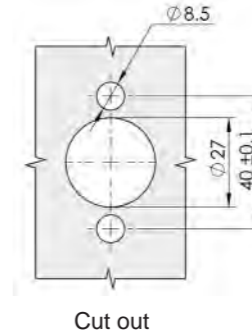


MS807-3

Default cam



Remarks : Default cam drawing cut out is square 10mm, other cam selection refer to cam list



Note : if it is used for 60 RH and LH, the door can be opened both right and left through housing 180 rotation assembling position, it is the dorsal view after lock is assembled on the door

Specification		MS807-1 Series			
		Bright chrome-plated ZDC housing, handle, cap		S.S housing, handle, cap	
		Model	ERP	Model	ERP
A=23 B=83 H=45-58	60°For RH an LH	MS807-1	MS807Z3A050029	MS807-1B	MS807S4A050010
	90°RH	MS807-1-Y	MS807Z3A050036		
	90°LH	MS807-1-Z	MS807Z3A050039		
A=40 B=103 H=52-75	60°For RH an LH	MS807-1-D1	MS807Z3A050002	MS807-1B-1	MS807S4A050011
	90°RH	MS807-1-Y1	MS807Z3A050005		
	90°LH	MS807-1-Z1	MS807Z3A050008		
A=63 B=103 H=75-80	60°For RH an LH	MS807-1-D2	MS807Z3A050003	MS807-1B-2	MS807S4A050012
	90°RH	MS807-1-Y2	MS807Z3A050006		
	90°LH	MS807-1-Z2	MS807Z3A050009		
Specification		MS807-2 Series			
		Bright chrome-plated ZDC housing, handle, cap		S.S housing, handle, cap	
		Model	ERP	Model	ERP
A=23 B=83 H=45-58	60°For RH an LH				
	90°RH	MS807-2-Y	MS807Z3A050011	MS807-2B-Y	MS807S4A050001
	90°LH	MS807-2-Z	MS807Z3A050010	MS807-2B-Z	MS807S4A050019
Specification		MS807-3 Series			
		Bright chrome-plated ZDC housing, handle, cap		S.S housing, handle, cap	
		Model	ERP	Model	ERP
	60°For RH an LH	MS807-3	MS807Z3A050017	MS807-3B	MS807S4A050003
	90°RH	MS807-3-Y	MS807Z3A050018	MS807-3B-Y	MS807S4A050024
	90°LH	MS807-3-Z	MS807Z3A050019	MS807-3B-Z	MS807S4A050025

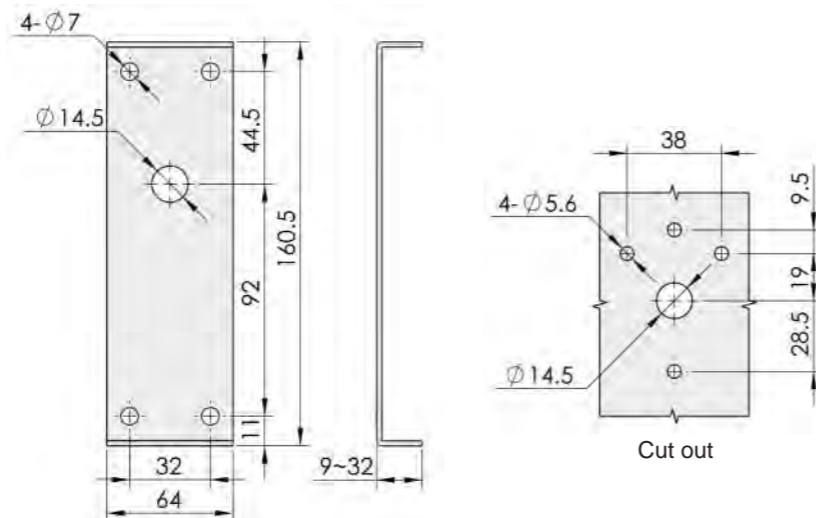
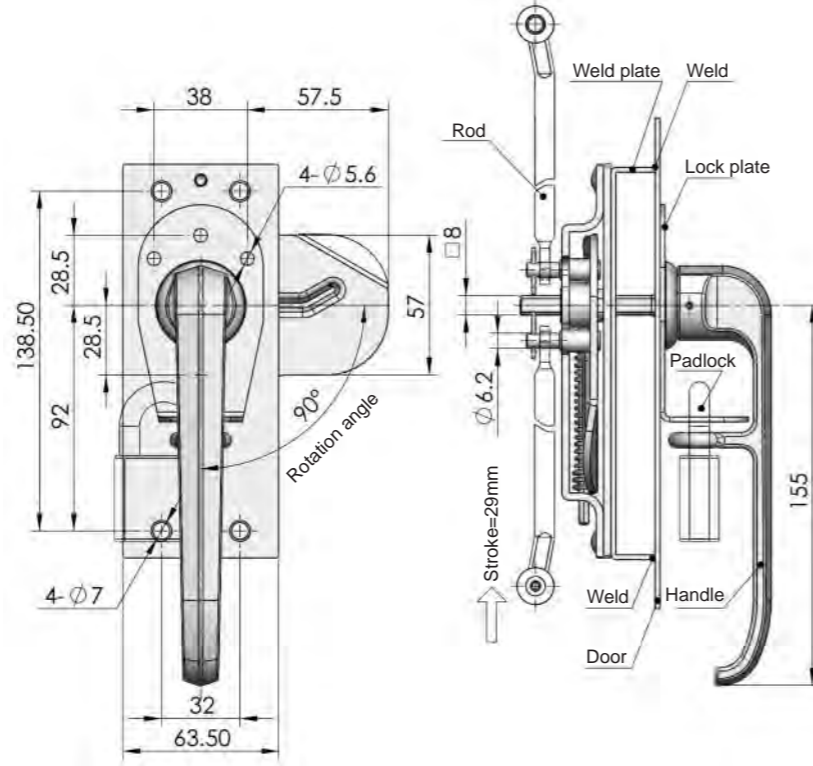
Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket

**MS841**



**RL**

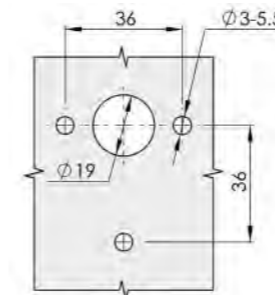
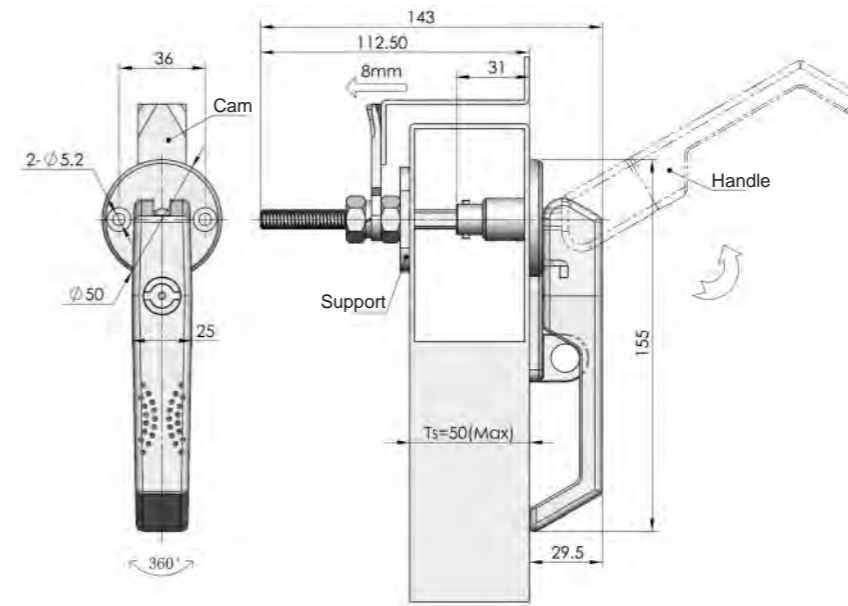
**Main material and finish :** White zinc-plated drive box rod drive mechanism, stainless steel handle and lock panel  
**Application :** Quarter-turn opening or closing padlockable



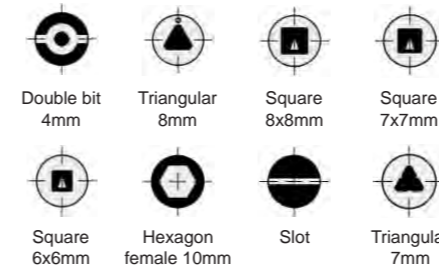
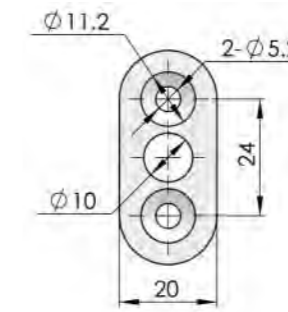
Weld panel ( prepared by user )

ERP

MS841S00000001



**Support ( Accessory )**



Specification	Model	ERP
Double bit	MS859-1-1	MS859Z1BT01001
Triangular 8mm	MS859-1-2	MS859Z1BT04001
Square 8x8mm	MS859-1-3	MS859Z1BT07001
Square 7x7mm	MS859-1-4	MS859Z1BT06001
Square 6x6mm	MS859-1-5	MS859Z1BT05001
Hexagon Female	MS859-1-6	MS859Z1BT09002
Slot	MS859-1-7	MS859Z1BT10001
Triangular 7mm	MS859-1-8	MS859Z1BT14001

Remarks : ERP excludes cam ( cut out square 8mm)

**MS859**



**Main material and finish :** PA handle, pocked black powder coated ZDC housing, bright chrome-plated ZDC insert, white zinc-plated steel shaft

**Application :** Quarter-turn opening or closing

**Remark :** Optional key K15 series

**Default cam :** S1B45Y00005(Ts=4)

Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket





Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket

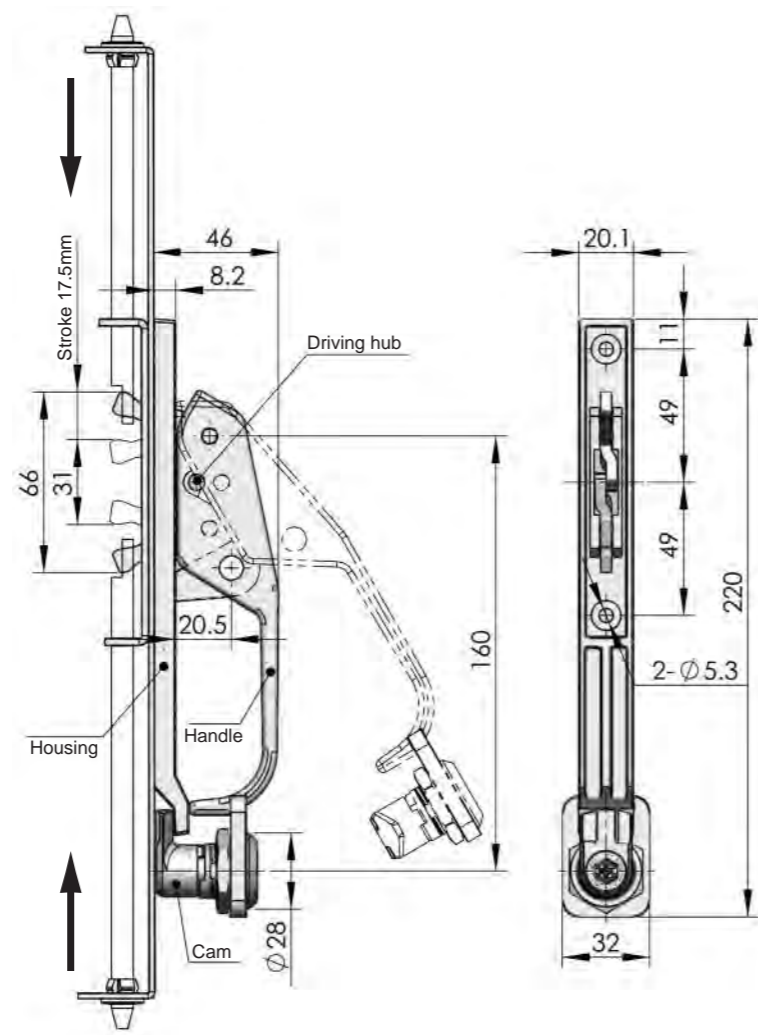


**MS887-3**

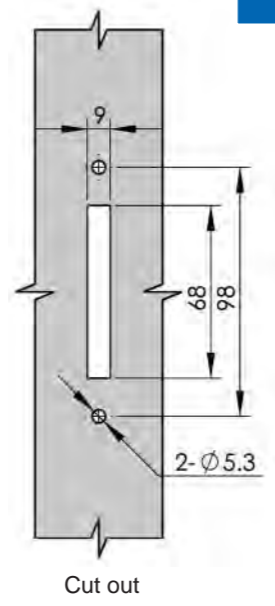
**Main material and finish :** Blue gray (RAL 7012) powder coated ZDC housing, handle and cylinder barrel

**Application :** Handle combines with latch, rod-latch system on sketch is just for reference, generally prepared by user

**Remarks :** Optional K15-01C



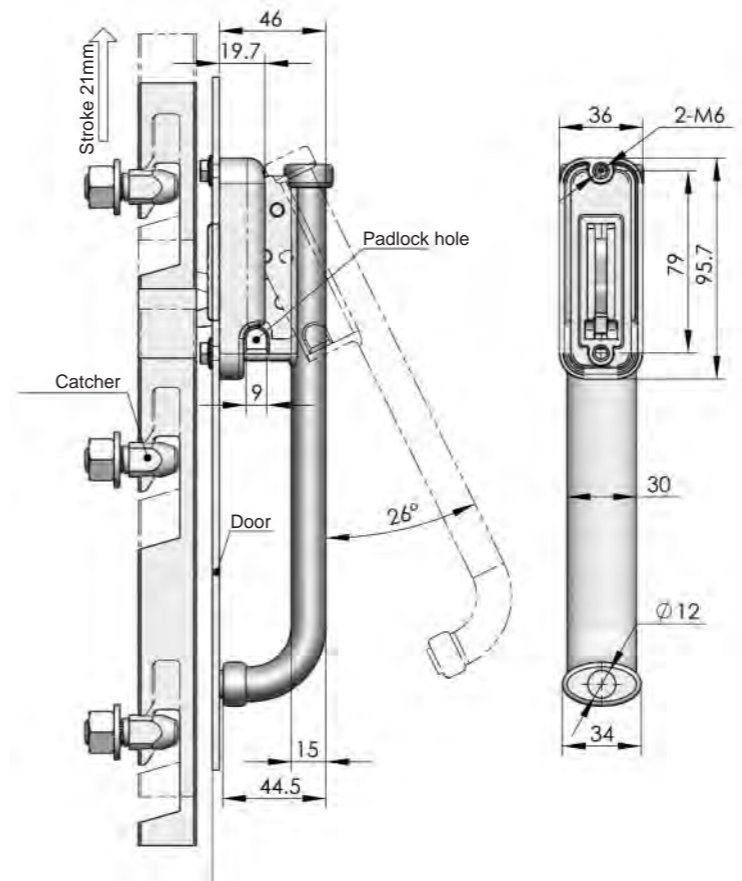
ERP MS887Z1DT02001



Select K15 as per various inserts

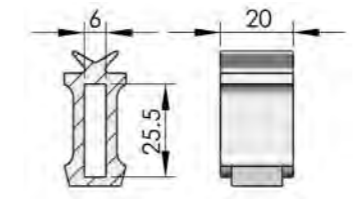


ERP 3290151001



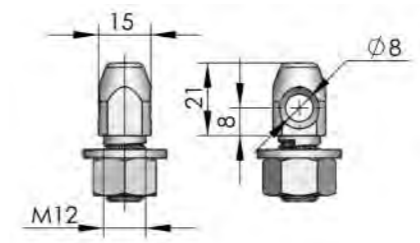
ERP MS887Z1D000001

**PA guider (Optional)**



ERP 3438874001

**Catcher (Optional)**



ERP 3248874001



**MS887-4**

**Main material and finish :** Blue gray (RAL 7012) powder coated ZDC housing, and handle

**Application :** Handle combines with latch, rod-latch system on sketch is just for reference, generally prepared by user

Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket

CYLINDER LOCK SERIES

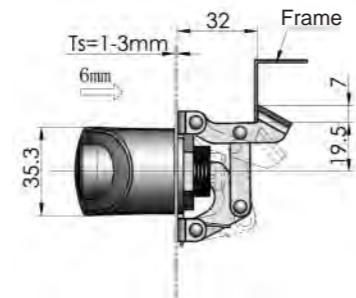
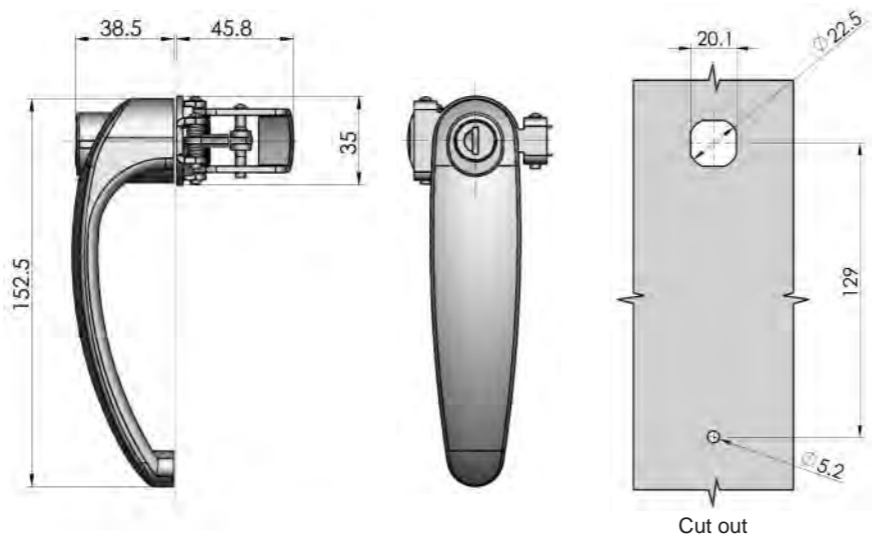
- Accessories
- Handle lock
- Cylinder lock
- Electronic lock
- Swing handle
- Rod control lock
- Panel lock
- Toggle and hook
- Handles
- Door stop
- Hinge
- Seal gasket



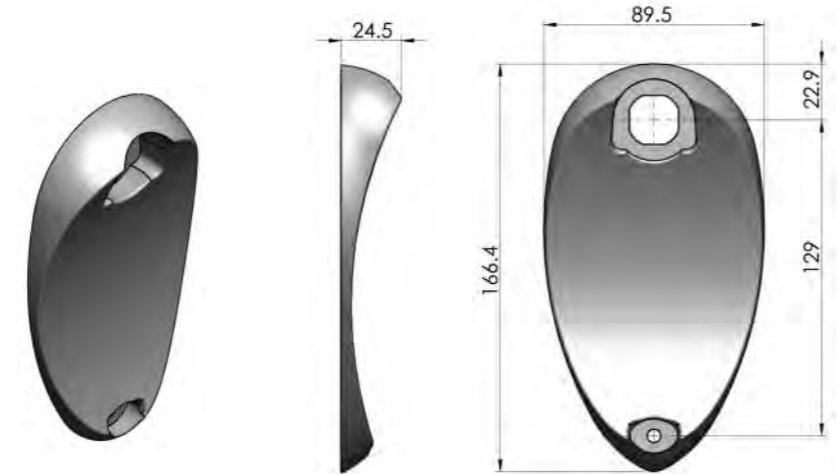
**RL IP40**

**Main material and finish:** Pocked black powder coating PA6 housing, nanometer painting PA handle and button handle, PA insert and button, stainless steel cam  
**Application:** Key 90 degree rotates, push insert, pull handle to open

**New item : Consult R & D department when there is order.**



**Support option**






















**ERP MS794N2B160001**  
 Remarsk : ERP includes support










MS705	MS705-3A	MS705-3C	MS705-3E	MS705-3U	MS705-K01	MS714-2	MS714-3
MS714-4	MS715	MS722	MS763	MS734	MS761	MS735	MS739
MS813	MS704-1	MS837	MS844	MS845	MS750	MS812	MS801-1
MS801-2	MS803	MS811-4	MS811-5	MS811-6	MS816-1	MS816-2	MS816-3S
MS817	MS823	MS816-4B	MS822	MS706	MS809	MS729	MS733
MS741	MS742	MS743	MS744	MS745-2	MS748	MS760	MS802
MS804	MS806	MS815-1	MS815-2	MS815-3	MS824	MS825	MS826
MS303	MS330	MS775	MS735-4	MS753	MS754	MS767	MS772

Summary listing of instrumental lock insert for MS705 Series

Summary listing of instrumental lock insert for MS816-1/MS816-1A/MS817Series

-  Double bit 4mm pin
-  Double bit 3mm pin
-  Hooked 4mm
-  Triangular 8mm
-  Square 8mm
-  Square 8mm with solt
-  Square 6mm
-  Square 7mm
-  Socket Hexagon 10mm
-  Slot

-  Hexagon 11mm
-  Thorn
-  Flat Cylinder
-  Triangular 7mm
-  Triangular 9mm
-  Heptagon
-  Triangular 10mm with circle
-  Concave with solt
-  Hexagon female with pin

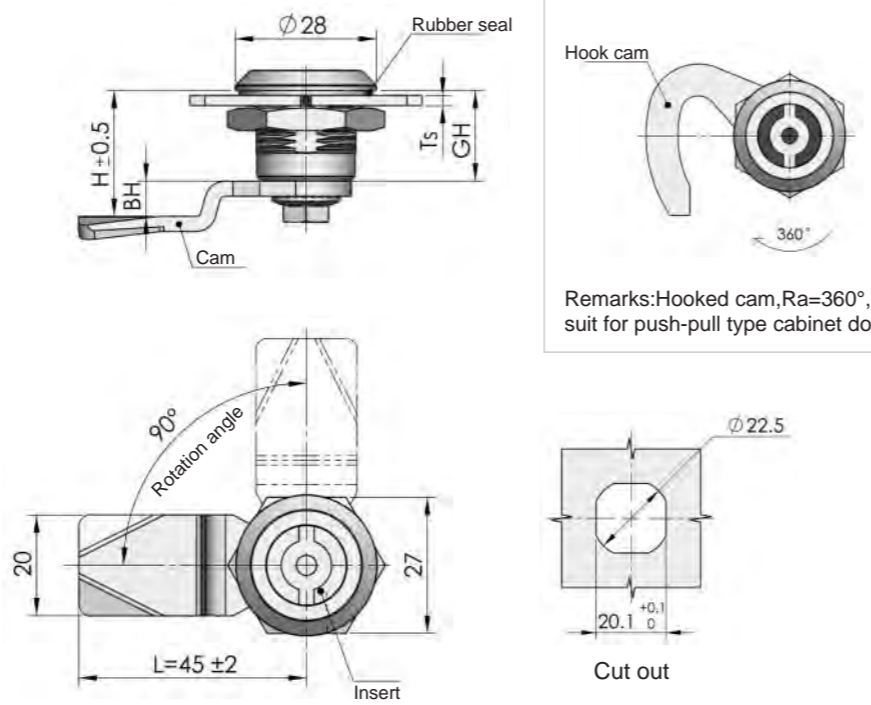
-  Triangular 8mm
-  Hooked 4mm
-  Socket Hexagon female 8mm
-  Hexagon male 10mm
-  Square 8mm
-  Square 7mm
-  Square 9mm
-  Slot
-  Triangular 7mm

Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket



**RL** **IP54**

**Application :** Insert quarter-turn opening or closing  
**Default cam :** S1B45Y07002 (ZDC)  
S1B45Y07022 (SUS)

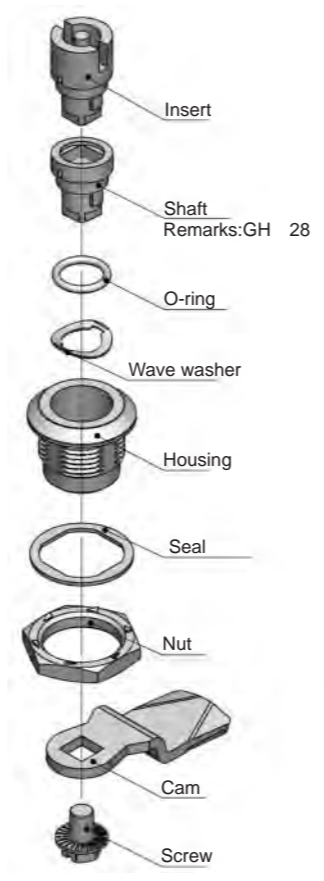


Remarks: Hooked cam, Ra=360°, suit for push-pull type cabinet doors

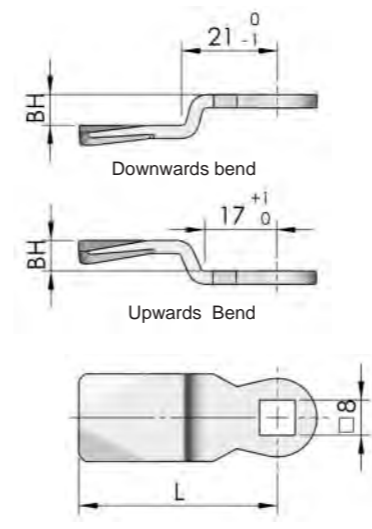
**Assembling sketch**



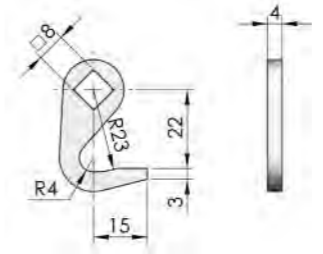
**Exploded view**



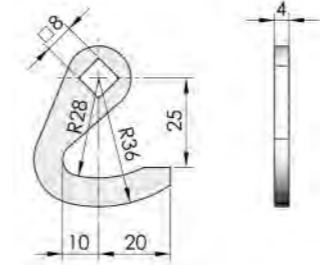
**Cams ( Optional )**



Remarks : See S1B cam series on P007

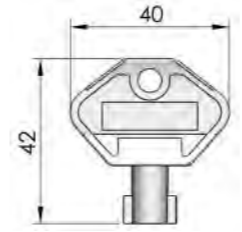


SIB2328H (Hooked cam)

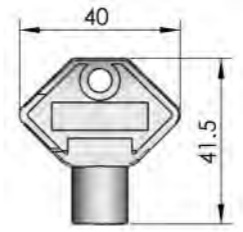


SIB2836H (Hooked cam)

**Keys for selection**

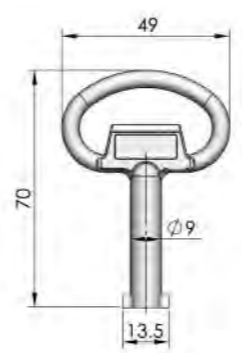


K15-1F

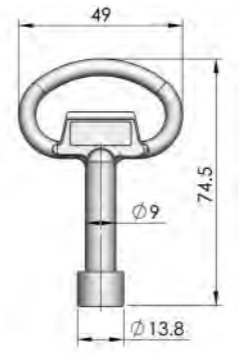


K15-□F Series

Remarks: Material is plastic, "□" stands for the model variable.



K15-1

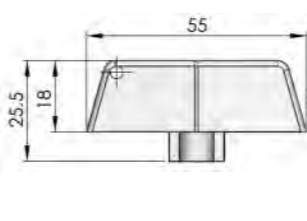


K15-□ Series

Remarks: Material is ZDC, "□" stands for the model variable.



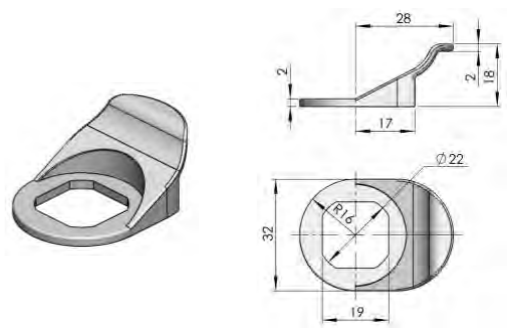
K15-05E



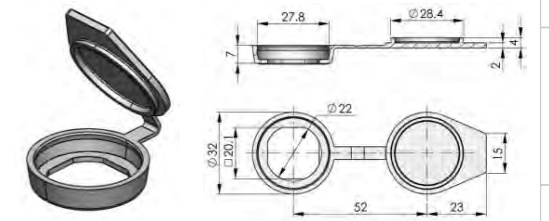
K15-01D

Remarks: Material is ZDC, "□" stands for the model variable.

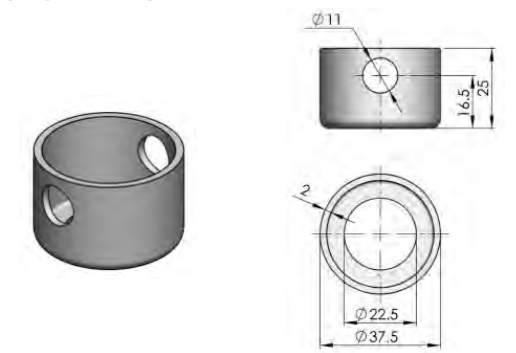
**HP001 Handle pull ( Optional )**



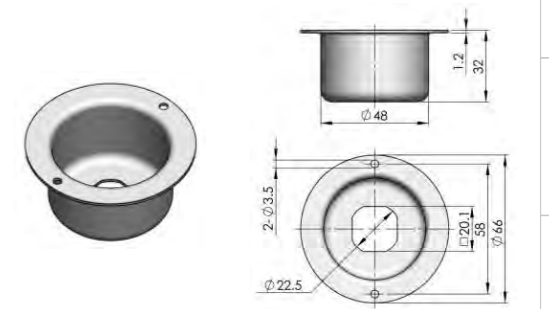
**WP002 Water-proof cap ( Optional )**



**A3001 Stainless steel lock tube ( Optional )**

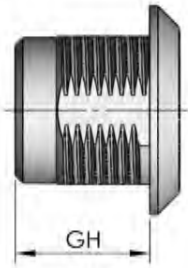


**A3002 Carbon steel seat cover ( Optional )**



Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket

Housing

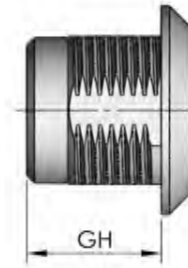


Specification	Housing GH=18					
	ZDC housing and bright chrome insert		SUS housing and insert		Black PA housing and bright chrome ZDC insert	
	Model	ERP	Model	ERP	Model	ERP
Double bit 4mm	MS705-1	MS705Z3AT02032	MS705-1B	MS705S00T02008	MS705-1S	MS705N00T02008
Double bit 3mm	MS705-1A	MS705Z3AT01007	MS705-1AB	MS705S00T01017	MS705-1AS	MS705N00T01014
Hooked 4mm	MS705-2	MS705Z3AT03034	MS705-2B	MS705S00T03005	MS705-2S	MS705N00T03001
Triangular 8mm	MS705-3	MS705Z3AT04041	MS705-3B	MS705S00T04008	MS705-3S	MS705N00T04017
Square 8mm	MS705-4	MS705Z3AT07021	MS705-4B	MS705S00T07007	MS705-4S	MS705N00T07001
square 8mm with solt	MS705-4A	MS705Z3AT08001	MS705-4AB	MS705S00T08005	MS705-4AS	MS705N00T08001
Square 6mm	MS705-5	MS705Z3AT05008			MS705-5S	MS705N00T05007
Square 7mm	MS705-6	MS705Z3AT06010			MS705-6S	MS705N00T06002
10mm Hexagon female	MS705-7	MS705Z3AT09025	MS705-7B	MS705S00T09003	MS705-7S	MS705N00T09001
Slot	MS705-8	MS705Z3AT10012			MS705-8S	MS705N00T10012
11mm Hexagon male	MS705-9	MS705Z3AT11008			MS705-9S	MS705N00T11002
Thorn	MS705-10	MS705Z3AT12001			MS705-10S	MS705N00T12001
Flat Cylinder	MS705-11	MS705Z3AT13001			MS705-11S	MS705N00T13001
Triangular 7mm	MS705-12	MS705Z3AT14014			MS705-12S	MS705N00T14001
Triangular 9mm	MS705-13	MS705Z3AT15009			MS705-13S	MS705N00T15001
Heptagon male	MS705-14	MS705Z3AT16001			MS705-14S	MS705N00T16001
Triangular 10mm	MS705-15	MS705Z3AT17017			MS705-15S	MS705N00T17002
Concave with solt	MS705-16	MS705Z3AT18005			MS705-16S	MS705N00T18002
Inside hexagon with pin	MS705-18	MS705Z3AT24001				

Specification	Housing GH=28		Housing GH=36			
	ZDC housing, bright chrome insert		ZDC housing, bright chrome insert		Black PA housing, bright chrome ZDC insert	
	Model	ERP	Model	ERP	Model	ERP
Double bit 4mm	MS705-2M-1	MS705Z3AT02088	MS705-3M-1	MS705Z3AT02077	MS705-3M-1S	MS705N00T03003
Double bit 3mm	MS705-2M-1A	MS705Z3AT01026	MS705-3M-1A	MS705Z3AT01027	MS705-3M-1AS	MS705N00T01003
Hooked 4mm	MS705-2M-2	MS705Z3AT03022	MS705-3M-2	MS705Z3AT03015	MS705-3M-2S	MS705N00T03005
Triangular 8mm	MS705-2M-3	MS705Z3AT04027	MS705-3M-3	MS705Z3AT04096	MS705-3M-3S	MS705N00T04018
Square 8mm	MS705-2M-4	MS705Z3AT07017	MS705-3M-4	MS705Z3AT07035	MS705-3M-4S	MS705N00T07003
square 8mm with solt	MS705-2M-4A	MS705Z3AT08002	MS705-3M-4A	MS705Z3AT08025	MS705-3M-4AS	MS705N00T08003
Square 6mm	MS705-2M-5	MS705Z3AT05011	MS705-3M-5	MS705Z3AT05003	MS705-3M-5S	MS705N00T05003
Square 7mm	MS705-2M-6	MS705Z3AT06009	MS705-3M-6	MS705Z3AT06015	MS705-3M-6S	MS705N00T06003
10mm Hexagon female	MS705-2M-7	MS705Z3AT09026	MS705-3M-7	MS705Z3AT09027	MS705-3M-7S	MS705N00T09003
Slot	MS705-2M-8	MS705Z3AT10002	MS705-3M-8	MS705Z3AT10031	MS705-3M-8S	MS705N00T10003
11mm Hexagon male	MS705-2M-9	MS705Z3AT11010	MS705-3M-9	MS705Z3AT11003	MS705-3M-9S	MS705N00T11003
Thorn	MS705-2M-10	MS705Z3AT12002	MS705-3M-10	MS705Z3AT12003	MS705-3M-10S	MS705N00T12003
Flat Cylinder	MS705-2M-11	MS705Z3AT13002	MS705-3M-11	MS705Z3AT13003	MS705-3M-11S	MS705N00T13003
Triangular 7mm	MS705-2M-12	MS705Z3AT14002	MS705-3M-12	MS705Z3AT14003	MS705-3M-12S	MS705N00T14003
Triangular 9mm	MS705-2M-13	MS705Z3AT15002	MS705-3M-13	MS705Z3AT15003	MS705-3M-13S	MS705N00T15003
Heptagon male	MS705-2M-14	MS705Z3AT16002	MS705-3M-14	MS705Z3AT16003	MS705-3M-14S	MS705N00T16003
Triangular 10mm	MS705-2M-15	MS705Z3AT17002	MS705-3M-15	MS705Z3AT17003	MS705-3M-15S	MS705N00T17003
Concave with solt	MS705-2M-16	MS705Z3AT18002	MS705-3M-16	MS705Z3AT18003	MS705-3M-16S	MS705N00T18003

Remarks: For ERP no. above, default cam S1B4507 ( cutout 8x8)

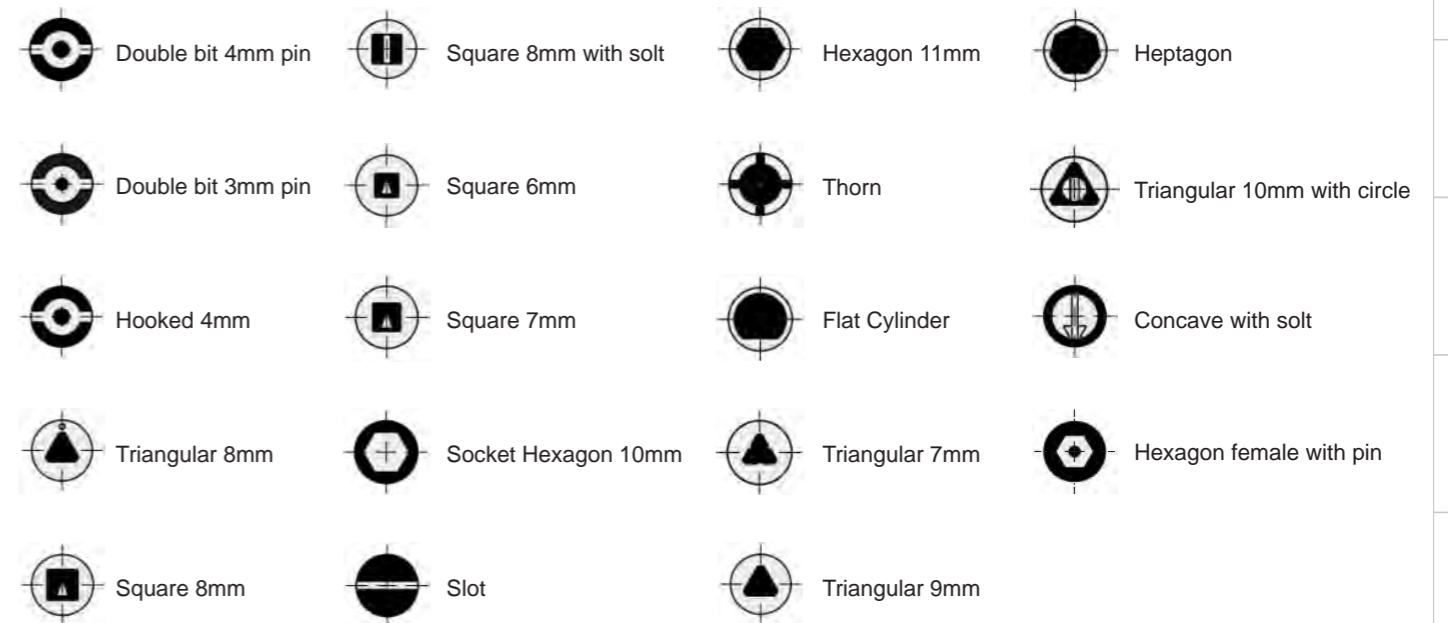
Housing



Specification	Housing GH=62			
	ZDC housing and bright chrome insert		housing and bright chrome ZDC insert	
	Model	ERP	Model	ERP
Double bit 4mm	MS705-H62-1	MS705Z3AT02070	MS705-H62-1S	MS705N00T02004
Double bit 3mm	MS705-H62-1A	MS705Z3AT01004	MS705-H62-1AS	MS705N00T01004
Hooked 4mm	MS705-H62-2	MS705Z3AT03073	MS705-H62-2S	MS705N00T03004
Triangular 8mm	MS705-H62-3	MS705Z3AT04099	MS705-H62-3S	MS705N00T04004
Square 8mm	MS705-H62-4	MS705Z3AT07015	MS705-H62-4S	MS705N00T07004
square 8mm with solt	MS705-H62-4A	MS705Z3AT08054	MS705-H62-4AS	MS705N00T08004
Square 6mm	MS705-H62-5	MS705Z3AT05004	MS705-H62-5S	MS705N00T05004
Square 7mm	MS705-H62-6	MS705Z3AT06004	MS705-H62-6S	MS705N00T06004
10mm Hexagon female	MS705-H62-7	MS705Z3AT09028	MS705-H62-7S	MS705N00T09004
Slot	MS705-H62-8	MS705Z3AT10032	MS705-H62-8S	MS705N00T10004
11mm Hexagon male	MS705-H62-9	MS705Z3AT11004	MS705-H62-9S	MS705N00T11004
Thorn	MS705-H62-10	MS705Z3AT12004	MS705-H62-10S	MS705N00T12004
Flat Cylinder	MS705-H62-11	MS705Z3AT13004	MS705-H62-11S	MS705N00T13004
Triangular 7mm	MS705-H62-12	MS705Z3AT14004	MS705-H62-12S	MS705N00T14004
Triangular 9mm	MS705-H62-13	MS705Z3AT15004	MS705-H62-13S	MS705N00T15004
Heptagon male	MS705-H62-14	MS705Z3AT16004	MS705-H62-14S	MS705N00T16004
Triangular 10mm	MS705-H62-15	MS705Z3AT17004	MS705-H62-15S	MS705N00T17004
Concave with solt	MS705-H62-16	MS705Z3AT18004	MS705-H62-16S	MS705N00T18004

Remarks: For ERP no. above, default cam S1B4507 ( cutout 8x8)

Specification



Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket

**MS705-3A**



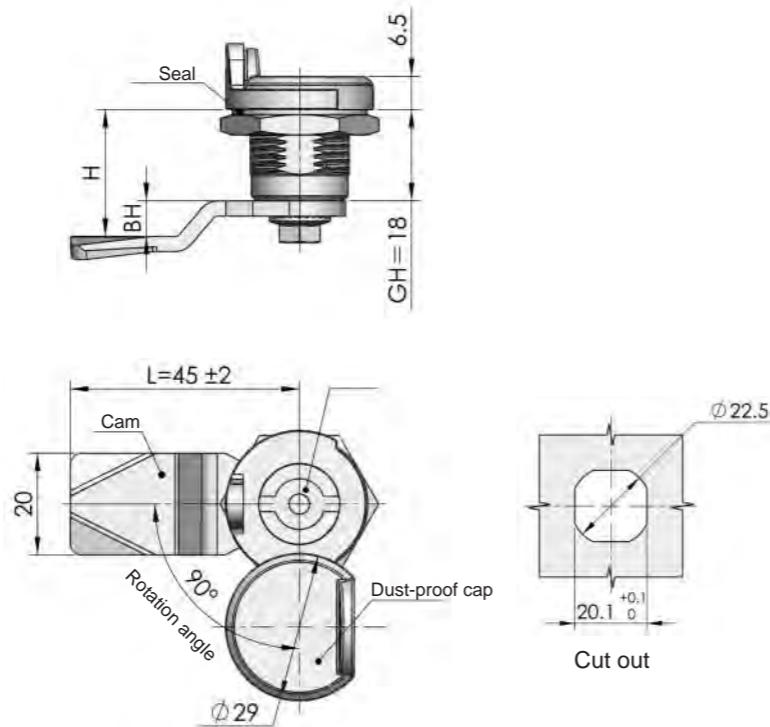
**RL IP54**

**Main material and finish :** Sand-spray and bright chrome-plated ZDC housing, insert and dust-proof cap, white zinc-plated steel cam

**Application :** Quarter-turn opening or closing

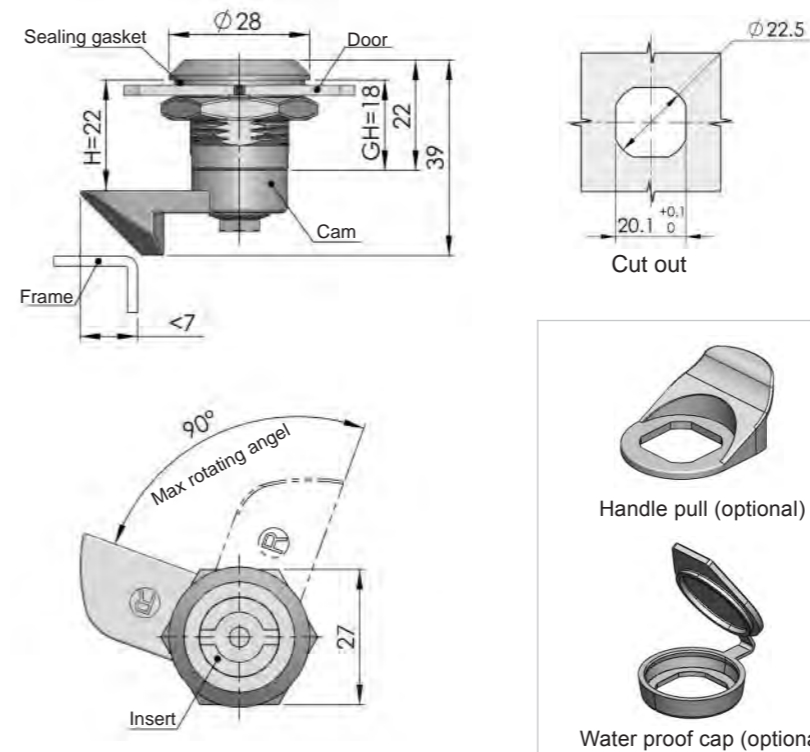
**Remarks:** Optional key K15 series

**Default cam :** S1B45Y07002



ERP	Model	Insert range	Optional key
MS705Z3HT02009	MS705-3A-1	Double bit 4mm	K15-1/K15-1F/K15-1A
MS705Z3HT01008	MS705-3A-1A	Double bit 3mm	K15-1/K15-1F/K15-1A
MS705Z3HT03008	MS705-3A-2	Hooked 4mm	K15-1
MS705Z3HT04010	MS705-3A-3	Triangular 8mm	K15-3/K15-3F
MS705Z3HT07007	MS705-3A-4	Square 8mm	K15-4/K15-4F
MS705Z3HT08005	MS705-3A-4A	square 8mm with solt	K15-4/K15-4F
MS705Z3HT05005	MS705-3A-5	Square 6mm	K15-5/K15-5F/K15-5A
MS705Z3HT06005	MS705-3A-6	Square 7mm	K15-6/K15-6F
MS705Z3HT09001	MS705-3A-7	10mm Hexagon female	K15-7/K15-7F
MS705Z3HT10007	MS705-3A-8	Slot	
MS705Z3HT11005	MS705-3A-9	11mm Hexagon male	K15-9/K15-9F
MS705Z3HT12005	MS705-3A-10	Thorn	K15-10
MS705Z3HT13005	MS705-3A-11	Flat Cylinder	K15-11
MS705Z3HT14007	MS705-3A-12	Triangular 7mm	K15-3/K15-3F
MS705Z3HT15005	MS705-3A-13	Triangular 9mm	
MS705Z3HT16005	MS705-3A-14	Heptagon male	
MS705Z3HT17005	MS705-3A-15	Triangular 10mm	
MS705Z3HT18005	MS705-3A-16	Concave with solt	

Remarks: For ERP no. above, default cam S1B4507 ( cutout 8x8)



	MS705-1W-2D Left hand cam	MS705-1W-2D Right hand cam
ERP	MS705Z3AT02020	MS705Z3AT02018

**MS705-1W-2D**



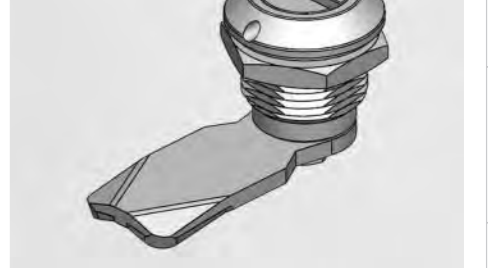
**R L**

**Main material and finish:** Bright chrome ZDC housing, insert and cam

**Application:** Quarter turn opening or closing, auto locking function

**Remark:** Optional key K15

**MS705-8G**



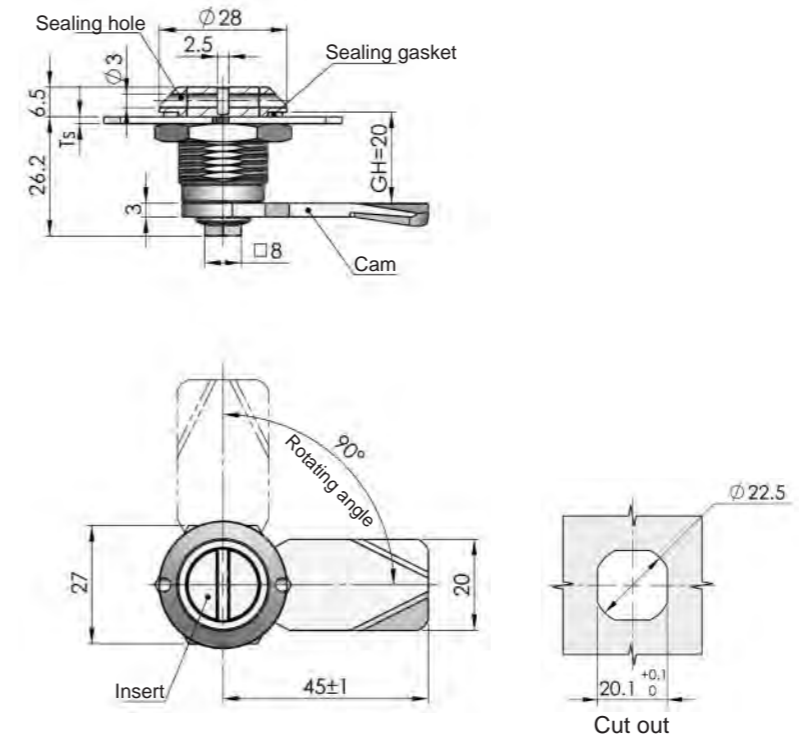
**IP55**

**Material:** ZDC housing, insert, nut and steel cam.

**Finish:** bright chrome housing and insert; white plated cam.

**Construction:** Quarter turn opening or closing

**Default cam :** S1B45Y00002



ERP	MS705Z3AT10030
Remark:	Default cam S1B4500 (Cutout 8x8)

Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket

**MS705-3C**

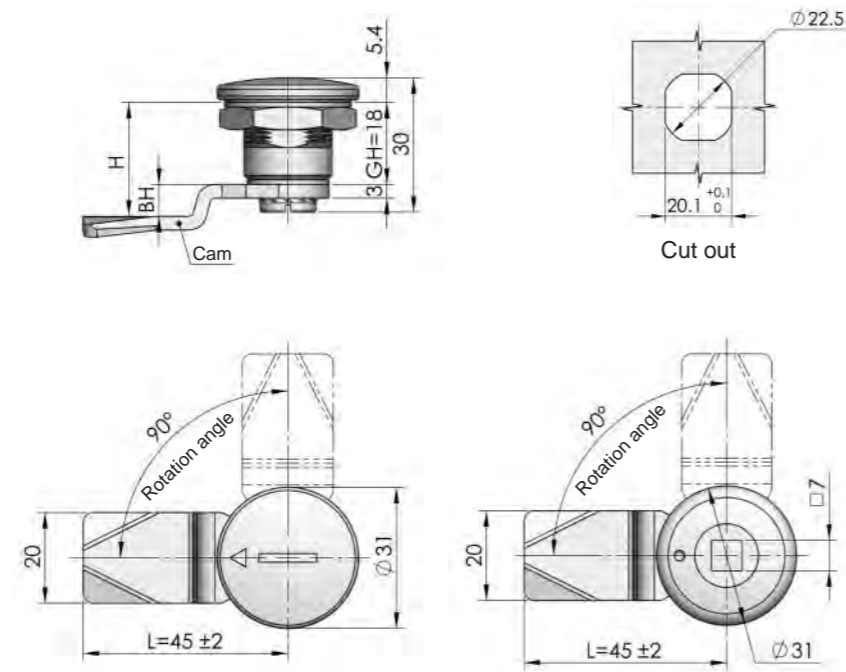


**RL**

**Main material and finish :** Sand-spray, and bright chrome-plated ZDC housing, white zinc-plated steel cam

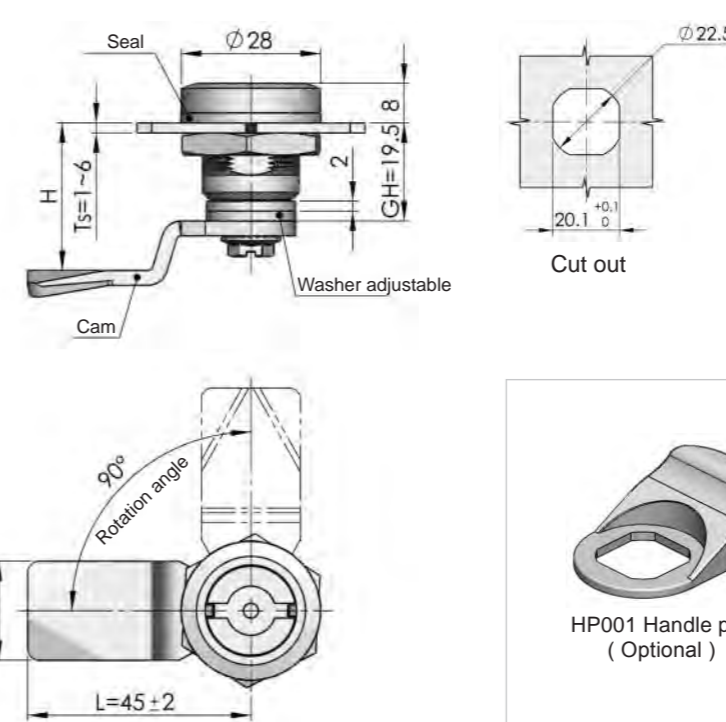
**Application :** Quarter-turn opening or closing

**Default cam :** S1B45Y02002



Specification	Model	ERP
Slot	MS705-3C-1	MS705Z1B000002
Square 7x7	MS705-3C-2	MS705Z3HT06001

Remark: default cam S1B4502 ( Cut out 8x8 cam)



ERP	MS705Z2AT01018
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Default cam: S1B4507 ( cut 8x8)

**MS705-3D**



**RL IP54**

**Main material and and finish :** Black powder coated ZDC housing and insert, white zinc-plated steel cam

**Application :** Quarter-turn opening or closing

**Remarks :** Optional key K15-1A

**MS705-3C-4**

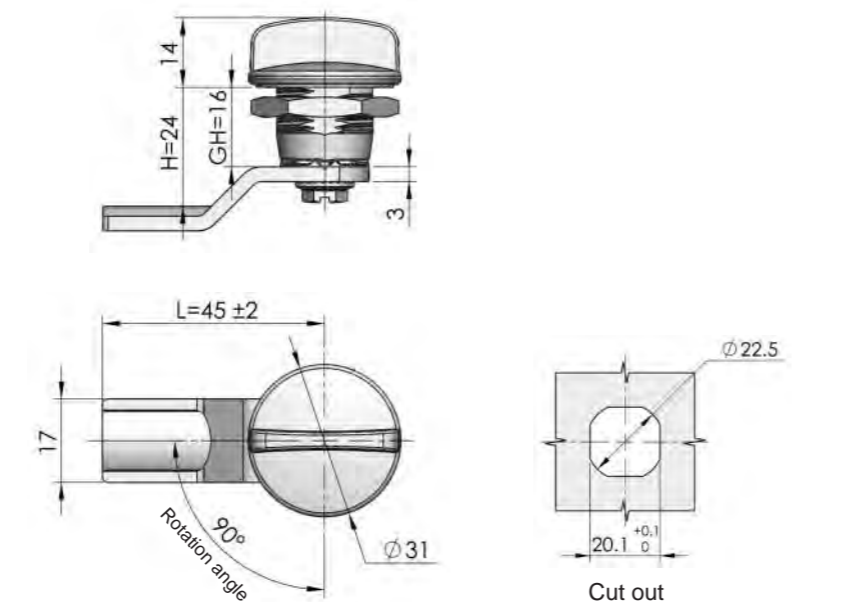


**RL**

**Main material and finish:** Bright chrome ZDC housing, black powder coated handle

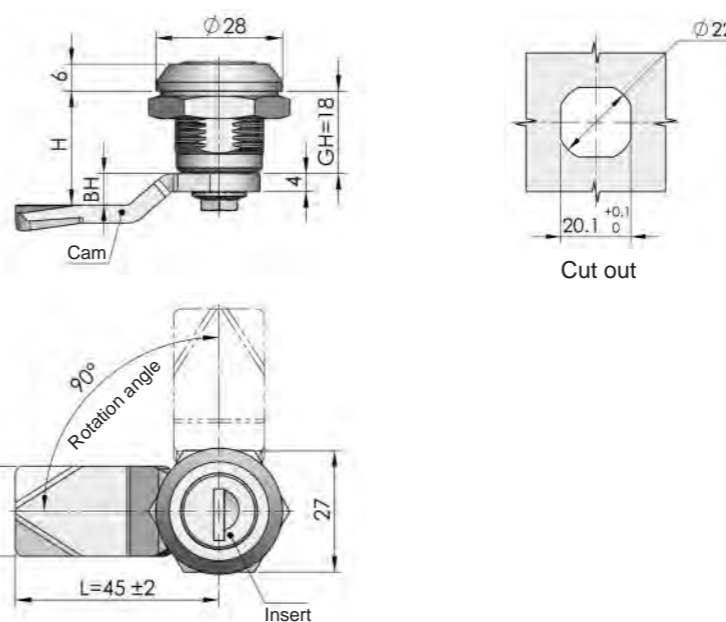
**Application :** Quarter-turn opening or closing

**Default cam :** S1V45Y08001



ERP	MS705Z3A000009
-----	----------------

Remarks : Default cam S1V4508



Specification	Model	ERP
ZDC housing,insert(RH-rotation)	MS705-3E	MS705Z1A140026
ZDC housing,insert(LH-rotation)	MS705-3E-2	MS705Z3A140011
PA housing,insert(RH-rotation)	MS705-3E-F	MS705N00140007

Default cam: S1B4507 T=4 ( cut out 8x8)

**MS705-3E**



**RL**

**Main material and finish :** Black powder coated ZDC housing, white zinc-plated steel cam

**Application :** Quarter-turn opening or closing

**Remarks :** Default key K140

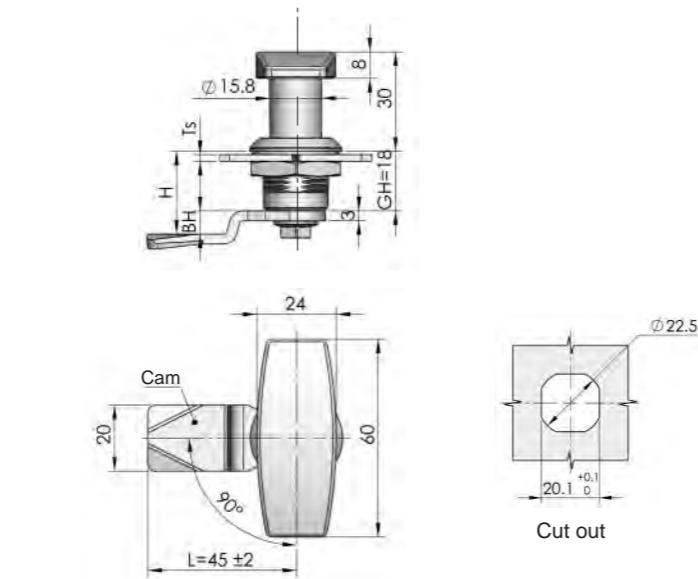




**RL IP54**

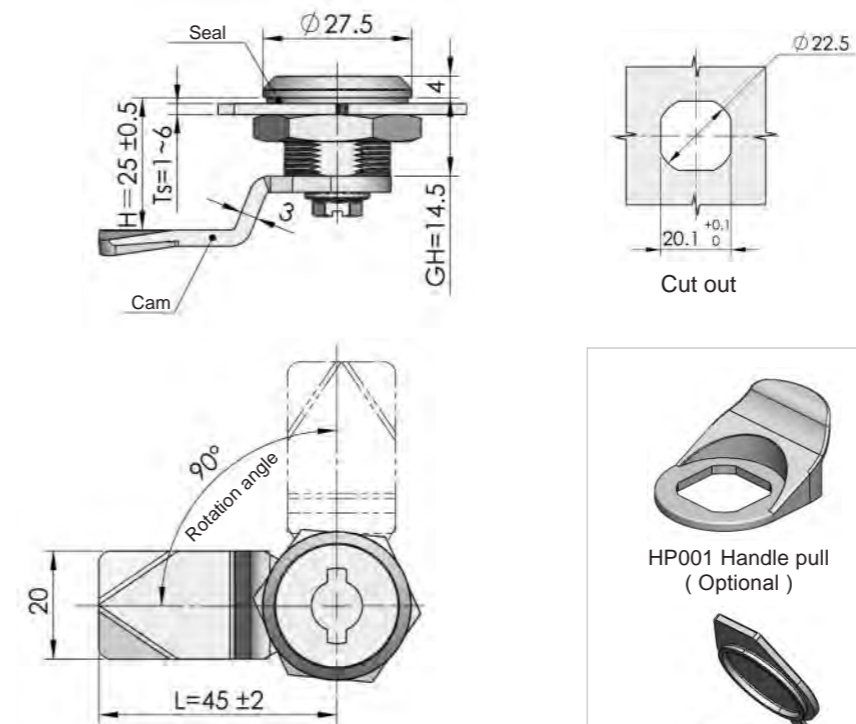
**Main material and finish :** Black powder coated ZDC housing, or black PA housing, white zinc-plated steel cam  
**Application :** Quarter-turn opening or closing

**Default cam :** S1B45Y07002



Specification	ZDC housing and handle		PA housing, ZDC handle	
	Model	ERP	Model	ERP
<b>GH=18</b>	MS705-3U-1	MS705Z1A000028	MS705-3U-1F	MS705N00000009
<b>GH=28</b>	MS705-3U-2	MS705Z1A000047	MS705-3U-2F	MS705N00000008
<b>GH=36</b>	MS705-3U-3	MS705Z1A000048	MS705-3U-3F	MS705N00000007
<b>GH=62</b>	MS705-3U-4	MS705Z1A000049	MS705-3U-4F	MS705N00000010

Remarks : Default cam S1B4507 ( cut out 8x8 )



**ERP MS722Z3AT01009**

Remark: Default cam S1B4507, T=4 (cut out 8x8)



HP001 Handle pull ( Optional )



WP002 Water-proof cap ( Optional )



**RL IP54**

**Main material and finish:** Bright chrome-plated ZDC housing, white zinc-plated steel cam and insert

**Application :** Quarter-turn opening or closing

**Remarks :** Optional key K15-1

**Default cam :** S1B45Y07002

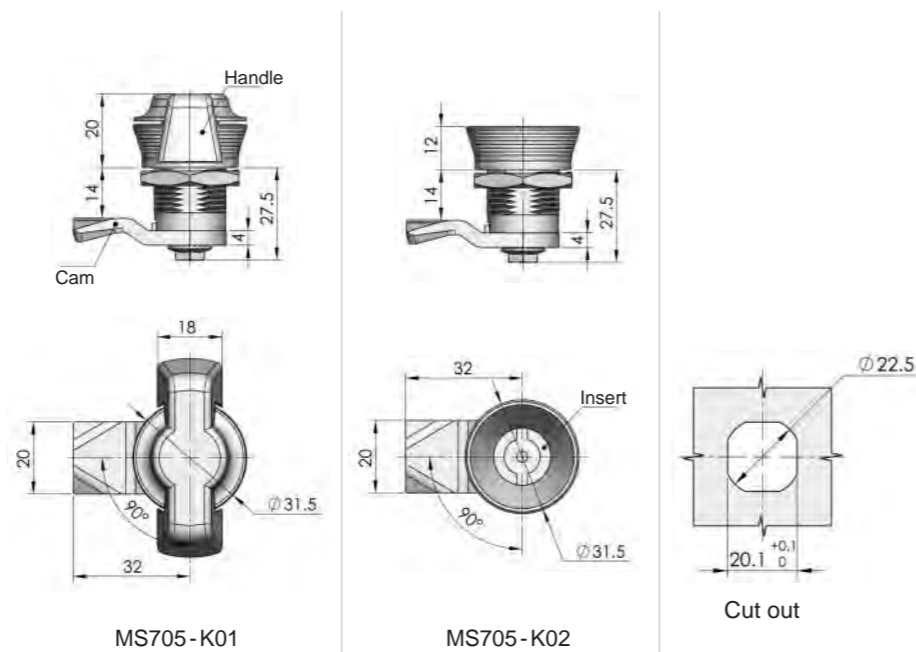


**RL**

**Main material and finish :** Green powder coated ZDC handle, housing and insert, white zinc-plated steel cam  
**Application :** Quarter-turn opening or closing

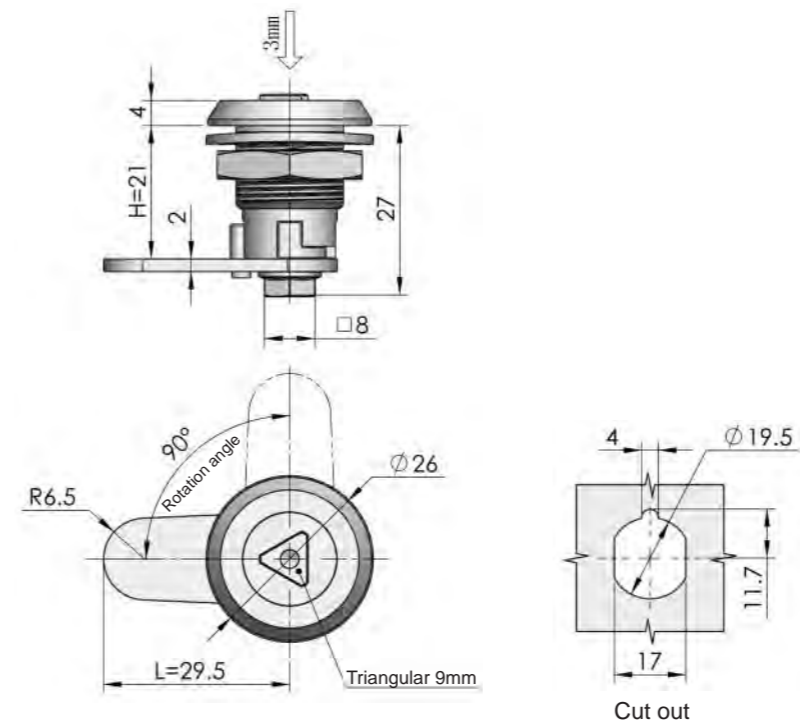
**Remarks :** Optional key K15-01C

**Default cam :** S1B32N04002



Specification	Model	ERP
Handles	MS705-K01	MS705Z1F000015
Double bit	MS705-K02	MS705Z1FT01001

Remark: Default cam DS1B32N04, T=4



**ERP MS761Z3AT04001**

Remark: Default cam S1B2900



**RL**

**Main material and finish :** Bright chrome-plated ZDC housing and steel insert, white zinc-plated steel cam

**Application :** Quarter-turn opening or closing, with function of locking

**Remarks :** Optional key K15-04A

**Default cam :** S1B29Y00005

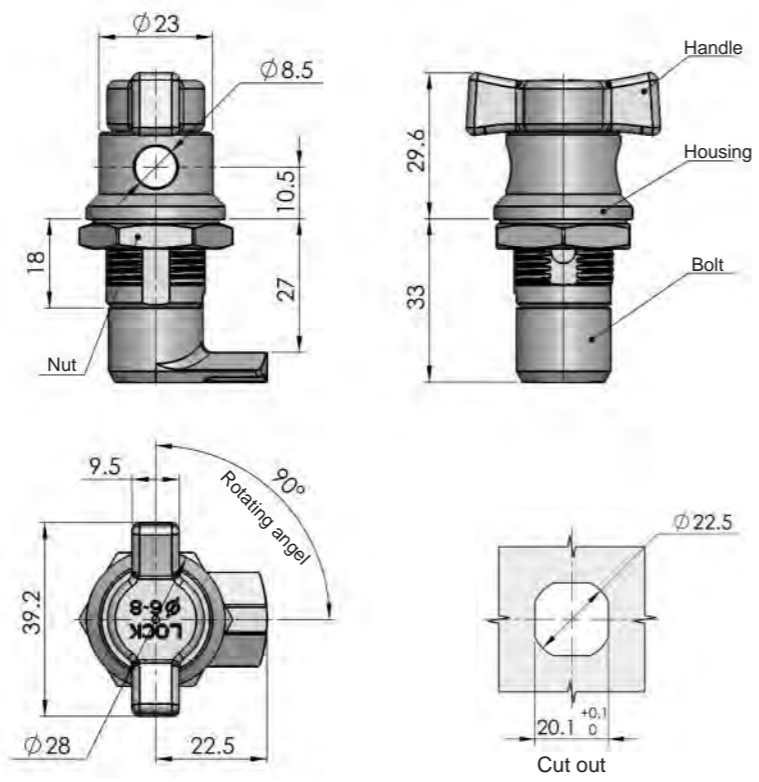
Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket



**RL** **IP54**

**Main material and finish:** Blue gray powder coated (RAL 7012) ZDC housing, PA handle, white zinc-plated steel cam  
**Application:** Camstop quarter-turn opening or closing, padlockable

**Default cam :** S1B45Y02015



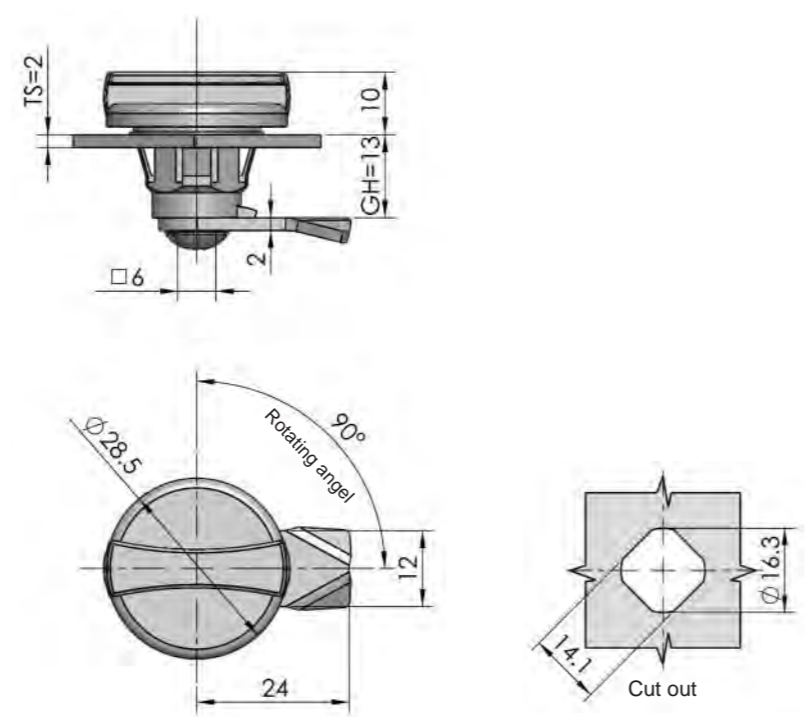
**ERP** MS772Z1D000001  
Remark: Default cam S1B4502 T=4 (cut out 8x8)



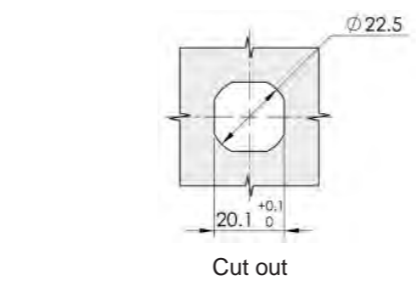
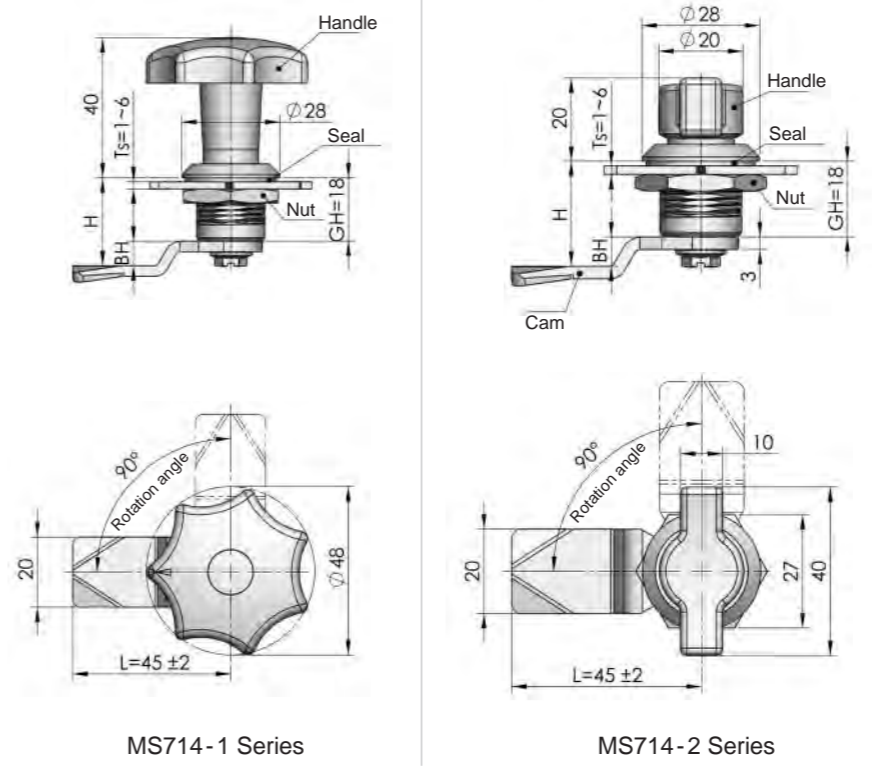
**RL**

**Main material and finish:** ZDC housing and black PA handle, white zinc plated steel cam.  
**Remark:** Fast-installed housing, cam DS1V serial optional

**Default cam :** S1V24Y00001



**ERP** MS845N00000001  
Remark: Default cam S1V2400



Specification	Knob			
	black powder coated ZDC housing, PA handle		PA housing and handle	
	Model	ERP	Model	ERP
GH=18	MS714-1-1	MS714Z1A000020	MS714-1A-1	MS714N00000001
GH=28	MS714-1-2	MS714Z1A000002	MS714-1A-2	MS714N00000002
GH=36	MS714-1-3	MS714Z1A000003	MS714-1A-3	MS714N00000003
GH=62	MS714-1-4	MS714Z1A000004	MS714-1A-4	MS714N00000004

Specification	Handle			
	black powder coated ZDC housing, PA handle		PA housing and handle	
	Model	ERP	Model	ERP
GH=18	MS714-2-1	MS714Z1A000040	MS714-2A-1	MS714N000000014
GH=28	MS714-2-2	MS714Z1A000053	MS714-2A-2	MS714N000000006
GH=36	MS714-2-3	MS714Z1A000054	MS714-2A-3	MS714N000000007
GH=62	MS714-2-4	MS714Z1A000008	MS714-2A-4	MS714N000000008

Remark: Default cam S1B4507 (cut out 8x8)



**RL** **IP54**

**Main material and finish :** Black powder coated ZDC housing or PA housing, PA handle, white zinc plated steel cam  
**Application :** Quarter-turn opening or closing

Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket

MS714-3

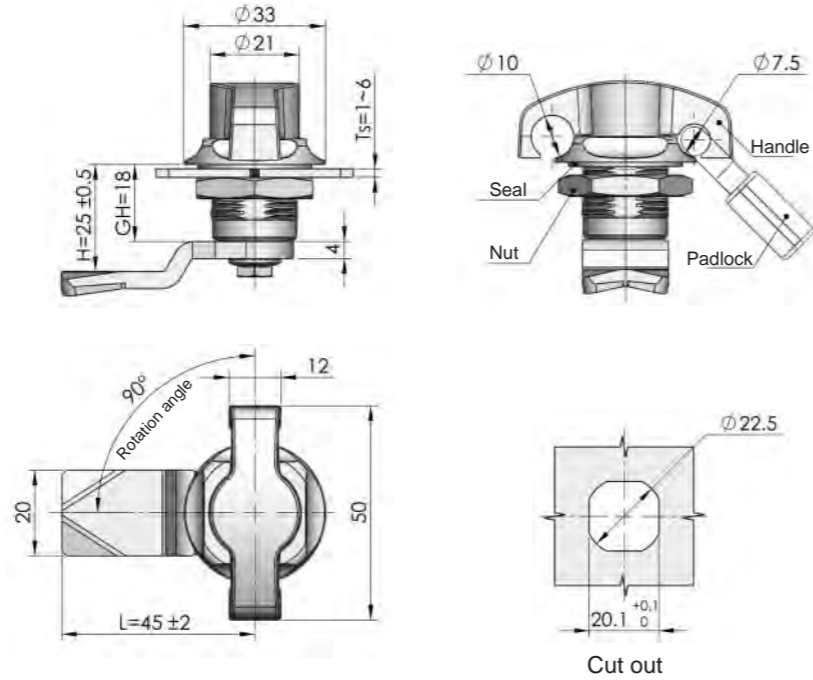


**RL IP54**

**Main material and finish :** Pocked black powder coated ZDC housing and handle, white zinc-plated steel cam

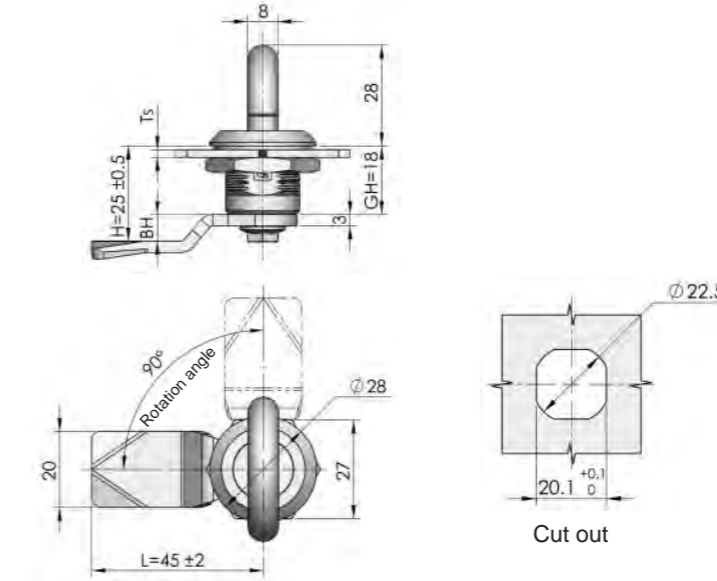
**Application :** Quarter-turn opening or closing

**Default cam :** S1B45Y07005



**ERP** MS714Z1B000007

Remark: Default cam S1B4507, T=4 (cut out 8x8)



Specification	ZDC housing, bright chrome handle	PA housing and ZDC handle
GH=18	MS715Z3A000001	MS715N00000001
GH=28	MS715Z3A000002	MS715N00000002
GH=36	MS715Z3A000003	MS715N00000003
GH=62	MS715Z3A000004	MS715N00000004

Remark: Default cam S1B4507, T=4 (cut out 8x8)

MS715



**RL IP54**

**Main material and finish :** Bright chrome-plated ZDC housing or PA housing, bright chrome plated ZDC handle, white zinc-plated steel cam

**Application :** Quarter-turn opening or closing

**Default cam :** S1B45Y07002

MS714-4

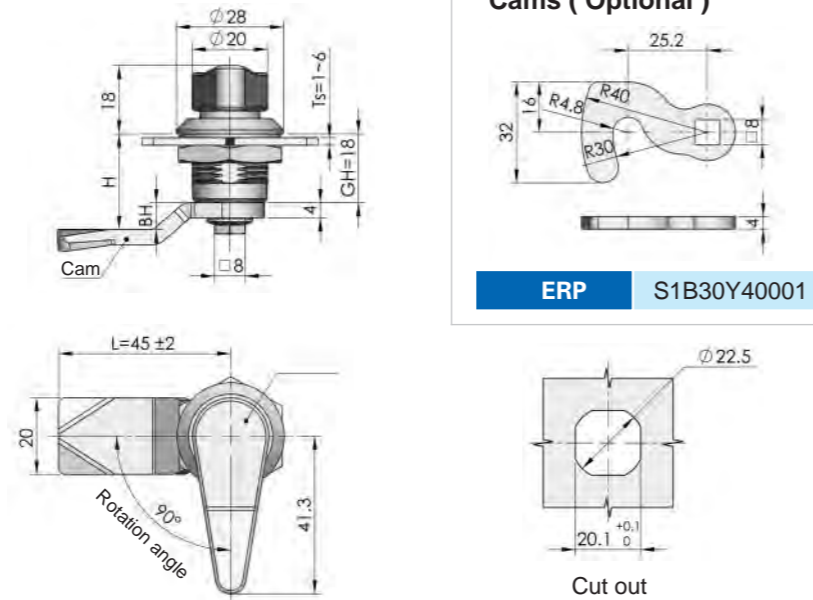


**RL IP54**

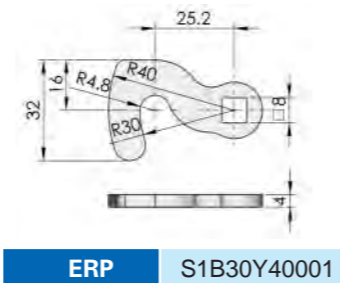
**Main material and finish :** Pocked black powder coated ZDC housing, PA handle, white zinc-plated steel cam

**Application :** Quarter-turn opening or closing

**Default cam :** S1B45Y07005



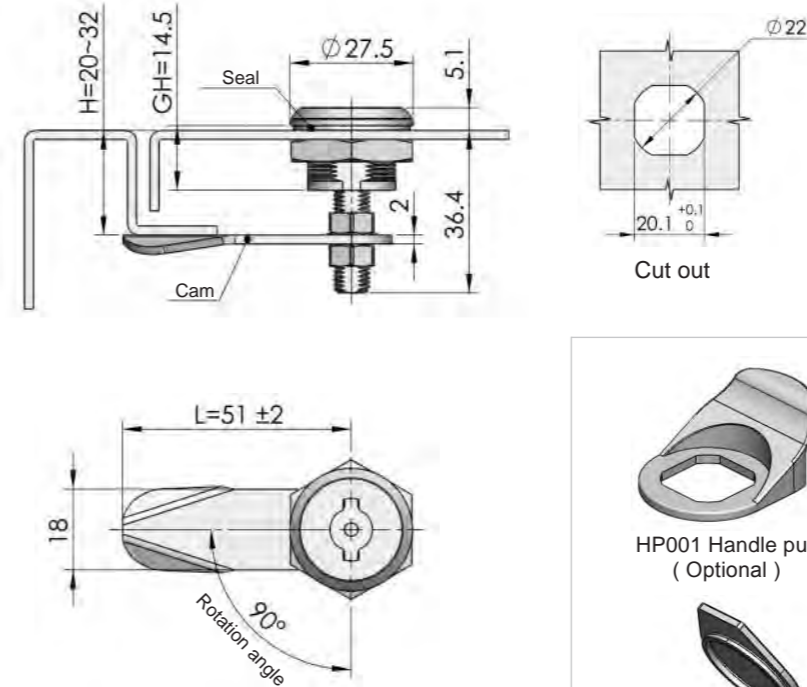
**Cams ( Optional )**



**ERP** S1B30Y40001

Specification	ZDC housing, PA handle		PA housing and handle	
	Model	ERP	Model	ERP
GH=18	MS714-4-1	MS714Z1A0000061	MS714-4A-1	MS714N000000009
GH=28	MS714-4-2	MS714Z1A0000013	MS714-4A-2	MS714N000000010
GH=36	MS714-4-3	MS714Z1A0000014	MS714-4A-3	MS714N000000011
GH=62	MS714-4-4	MS714Z1A0000015	MS714-4A-4	MS714N000000012

Remarks : Default cam S1B4507, T=4 ( cut out 8x8 )



**ERP** MS721Z3AT01001

Remarks : Default cam S1W5100 ( cut out Ø8x6)



MS721



**Main material and finish:** Bright chrome-plated ZDC housing and insert, steel cam

**Application :** Quarter-turn opening or closing

**Default cam :** S1W51Y00001

**MS805**



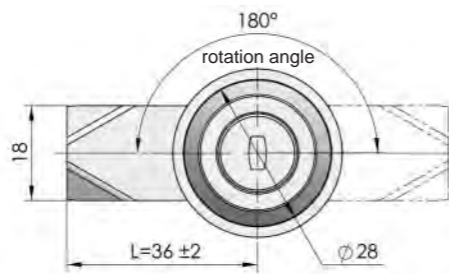
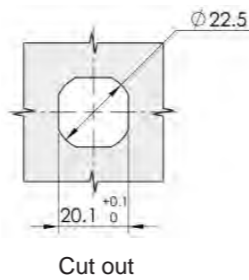
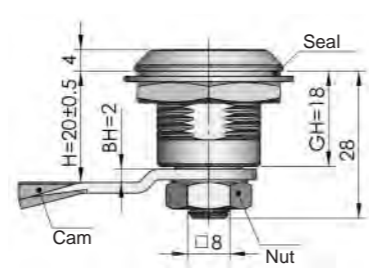
**RL**

**Main material and finish :** Black powder coated ZDC housing and insert, white zinc-plated steel cam

**Application :** 180 degree rotation opening or closing

**Remarks :** Default key K040

**Default cam :** S1B36Y02001

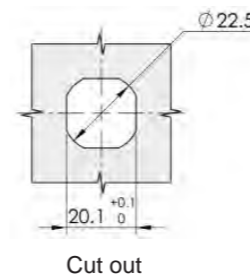
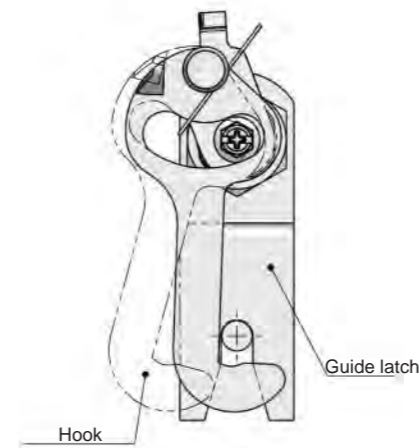
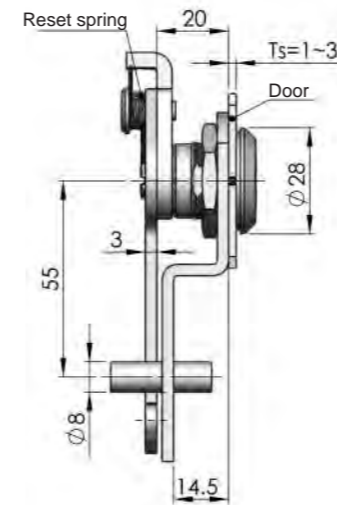


HP001 Handle pull (Optional)



WP002 Water-proof cap (Optional)

**ERP** MS805Z2A040005  
Remarks : Default cam S1B3602, T=2 ( Cut out 8x8 )



Cut out



HP001 Handle pull (Optional)



WP002 Water-proof cap (Optional)

Remarks : Assembling prepared by user

ERP	Model	Insert range	Optional key
MS837Z3AT02001	MS837-1	Double bit 4mm	K15-1/K15-1F/K15-1A
MS837Z3AT01001	MS837-1A	Double bit 3mm	K15-1/K15-1F/K15-1A
MS837Z3AT03001	MS837-2	Hooked 4mm	K15-1
MS837Z3AT04001	MS837-3	Triangular 8mm	K15-3/K15-3F
MS837Z3AT07001	MS837-4	Square 8mm	K15-4/K15-4F
MS837Z3AT08001	MS837-4A	square 8mm with solt	K15-4/K15-4F
MS837Z3AT05001	MS837-5	Square 6mm	K15-5/K15-5F/K15-5A
MS837Z3AT06001	MS837-6	Square 7mm	K15-6/K15-6F
MS837Z3AT09002	MS837-7	10mm Hexagon female	K15-7/K15-7F
MS837Z3AT10001	MS837-8	Slot	
MS837Z3AT11001	MS837-9	11mm Hexagon male	K15-9/K15-9F
MS837Z3AT12001	MS837-10	Thorn	K15-10
MS837Z3AT13001	MS837-11	Flat Cylinder	K15-11
MS837Z3AT14001	MS837-12	Triangular 7mm	K15-3/K15-3F

**MS837**



**RL IP54**

**Main material and finish :** Bright chrome-plated ZDC housing and insert, white zinc-plated steel hook and guide latch

**Application :** by rotating to open or close, hook returns automatically

**Remarks :** Optional key K15 series

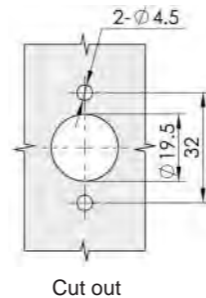
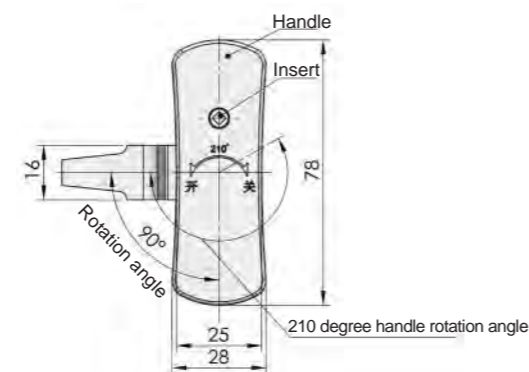
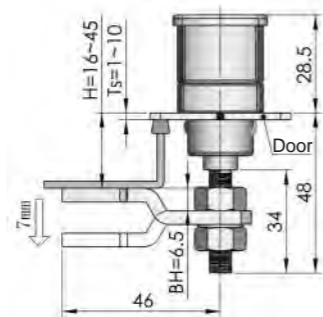
**MS822**



**Main material and finish :** Black powder coated ZDC housing and handle, white zinc-plated steel cam, insert and shaft

**Application :** Quarter-turn opening or closing, adjustable, with function of locking

**Default cam :** S1K46Y07001



Cut out

**ERP** MS822Z1A000001  
Remarks : ERP excludes cam ( cut out 28x25 )

**MS734**



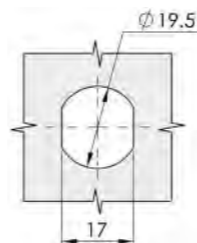
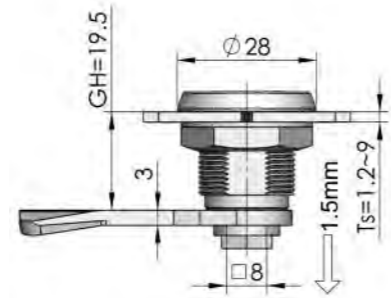
**RL**

**Main material and finish :** Bright chrome-plated ZDC housing and insert, white zinc-plated steel cam

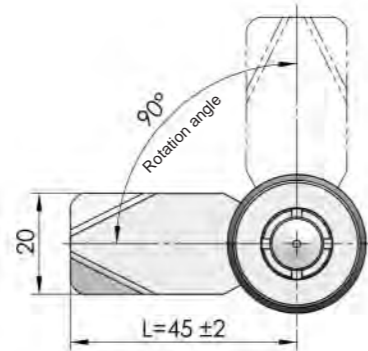
**Application :** Quarter-turn opening or closing, with function of locking

**Remarks :** Optional key K15-10

**Default cam :** S1B45Y00002



Cut out



HP002 ( Optional )

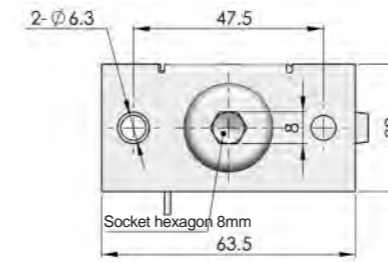
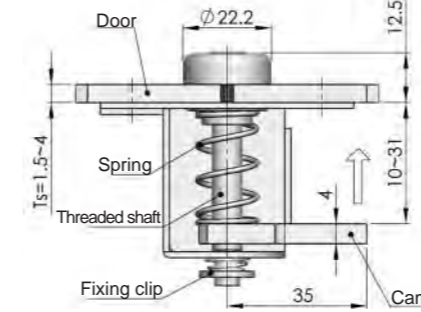


HP003 ( Optional )

ERP

MS734Z3AT12001

Remarks : Default cam S1B4500 ( cut out 8x8 )



Cut out

ERP

MS735F3D000002

Remarks : Default cam S1S3500

**MS735**

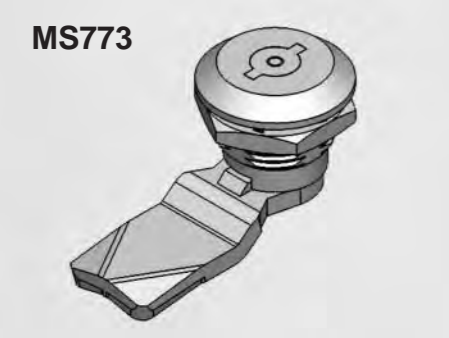


**Main material and finish :** White zinc-plated steel lock body.

**Application :** Quarter-turn opening or closing, with function of locking

**Default cam :** S1S35Y00001

**MS773**

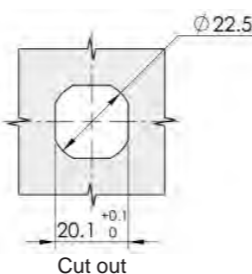
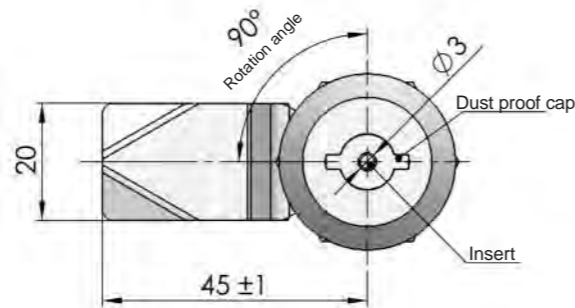
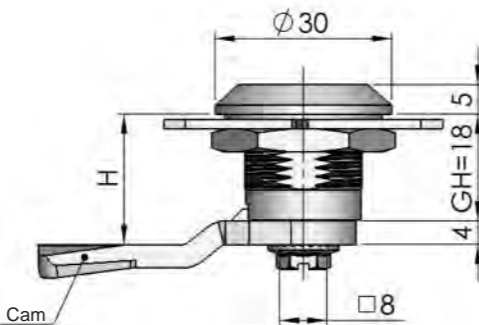


**RL IP55**

**Main material and finish:** Bright chrome plated ZDC housing, dust-proof cap and insert; white zinc plated ZDC nuts, white zinc plated steel cam and screw.

**Remark:** Default key K15 double bit key

**Default cam :** S1B45Y04008

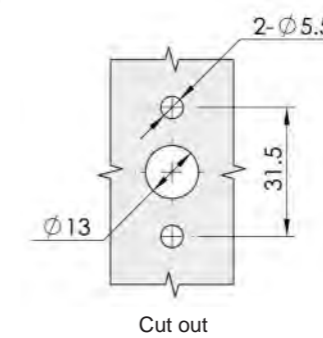
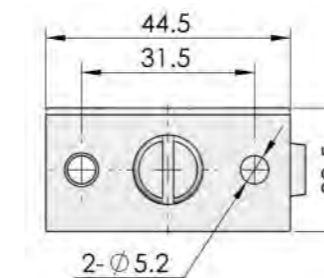
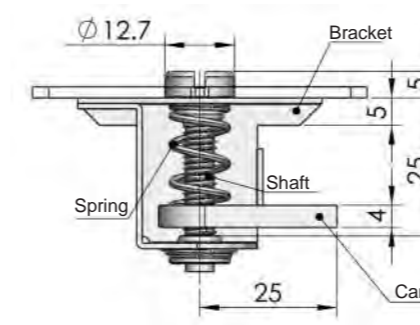


Cut out

ERP

MS773Z2AT01001

Remarks : Default cam DS1B4504, T=4 ( cut out 8x8 )



Cut out

ERP

MS735F3E000001

Remarks : Default cam S1S2500

**MS735-2**



**Main material and finish :** Trivalent zinc-plated steel lock body.

**Application :** Quarter-turn opening or closing

**Default cam :** S1S25Y00001

Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket

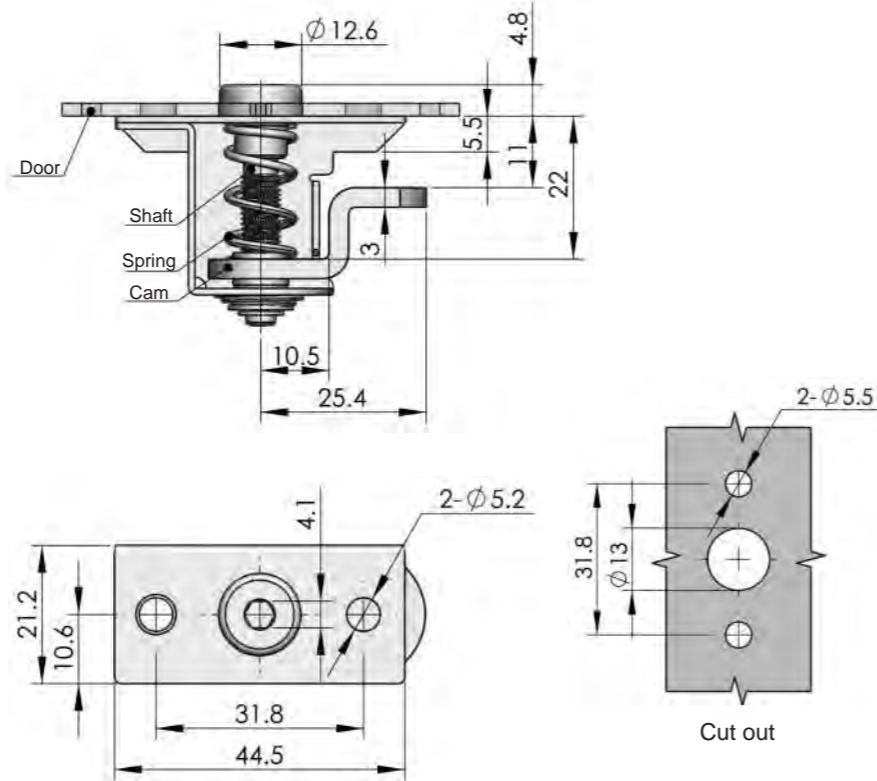
**MS735-4**



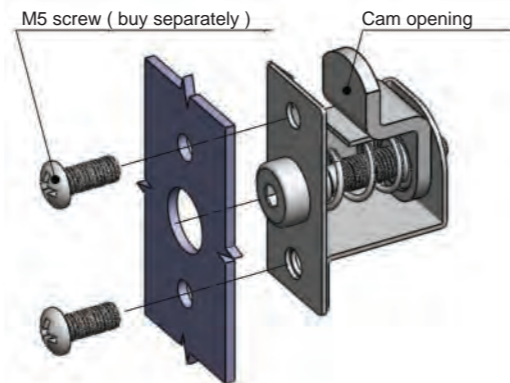
**Main material and finish:** White zinc-plated steel lock body

**Application:** Quarter-turn opening or closing, cam adjustable

**Default cam :** S1S25Y11001

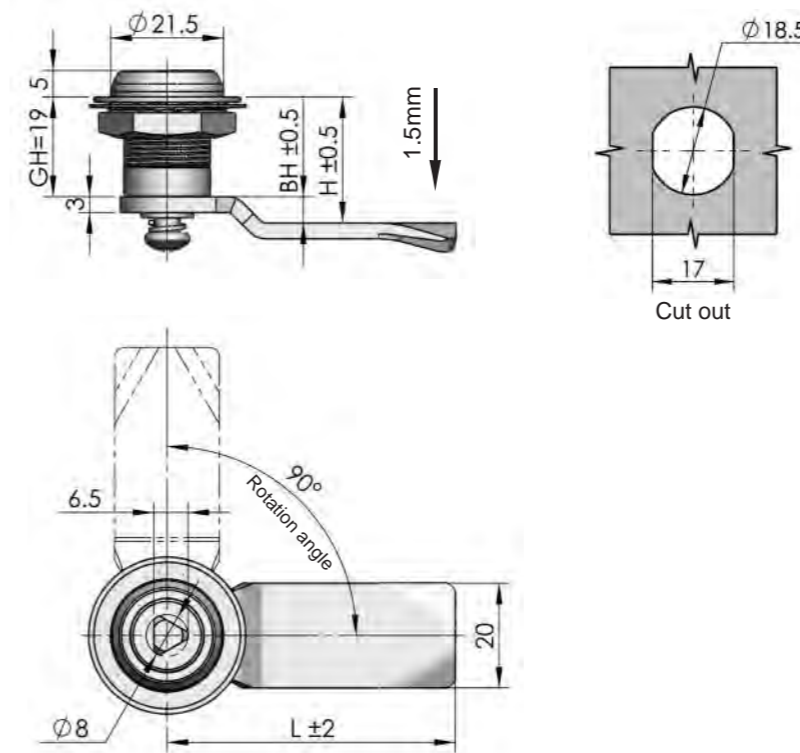


**Example of assembling**



**ERP** MS735F3D000001

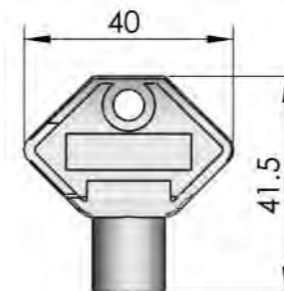
Remarks : Default cam S1S2511



**ERP** MS754Z3AT14001

Remarks : Default cam S1B4502 ( cut out 8x8 )

**Optional key**



**ERP** 3290153005

**MS754**



**Main material and finish:** Bright chrome-plated ZDC housing, white zinc-plated ZDC insert and steel cam

**Application:** Automatic locked quarter-turn to open or close

**Remarks:** Optional key K15-12F

**Default cam :** S1B45Y02005

Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket

Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket

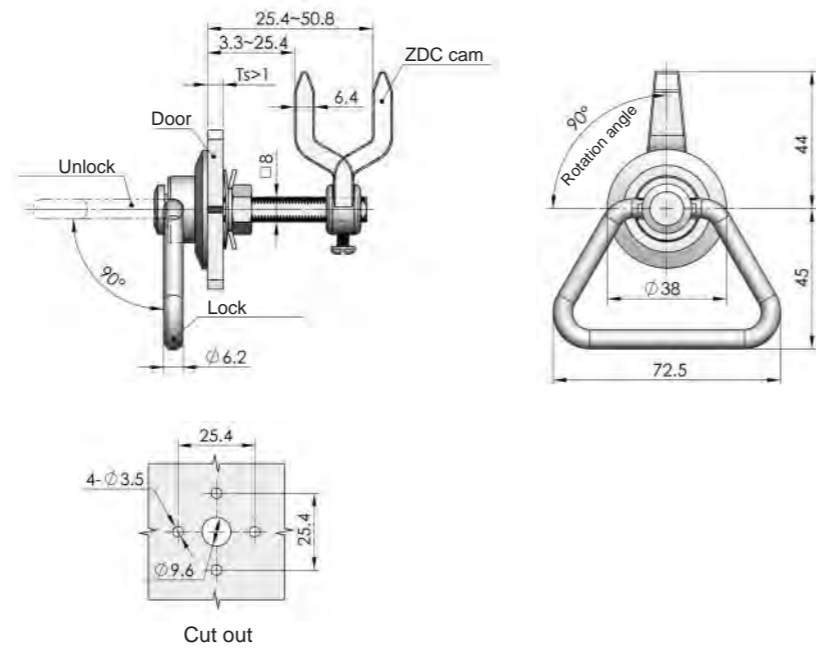
**MS739**



**Main material and finish :** White zinc-plated steel handle, shaft, screw and ZDC cam

**Application :** Handle 360 degree rotation, Height adjustable

**Default cam :** S1X44Y13001



ERP MS739Z3D000004

**MS813**



**MS813-B**

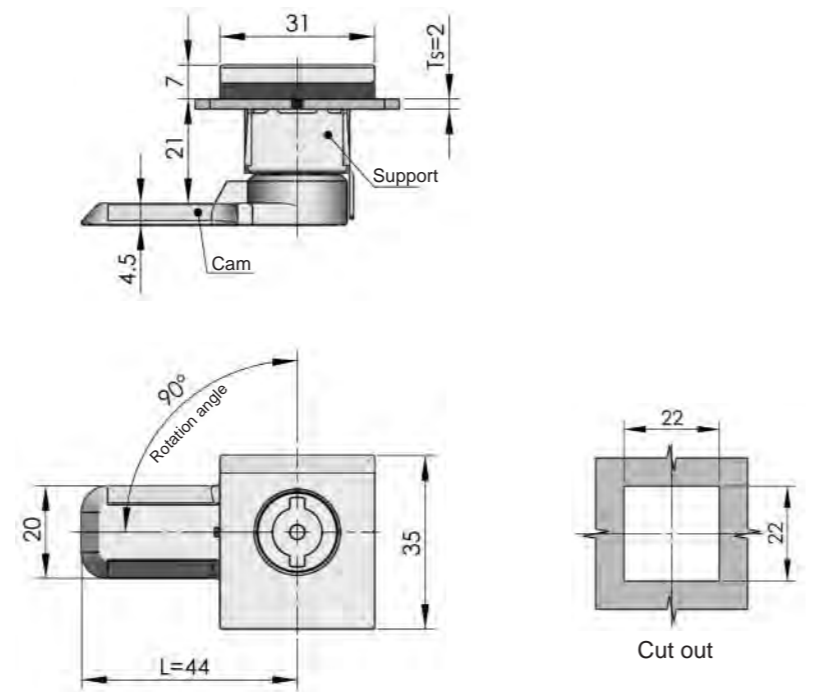


**RL IP54**

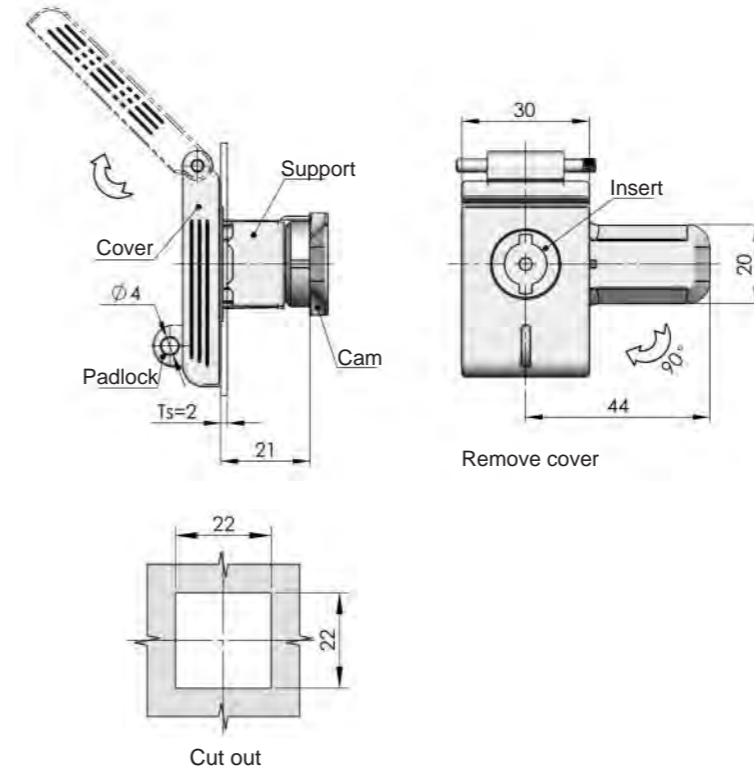
**Main material and finish :** Yellow-gray ZDC housing, bright chrome-plated ZDC insert, white zinc-plated ZDC cam

**Application :** Quarter-turn opening or closing

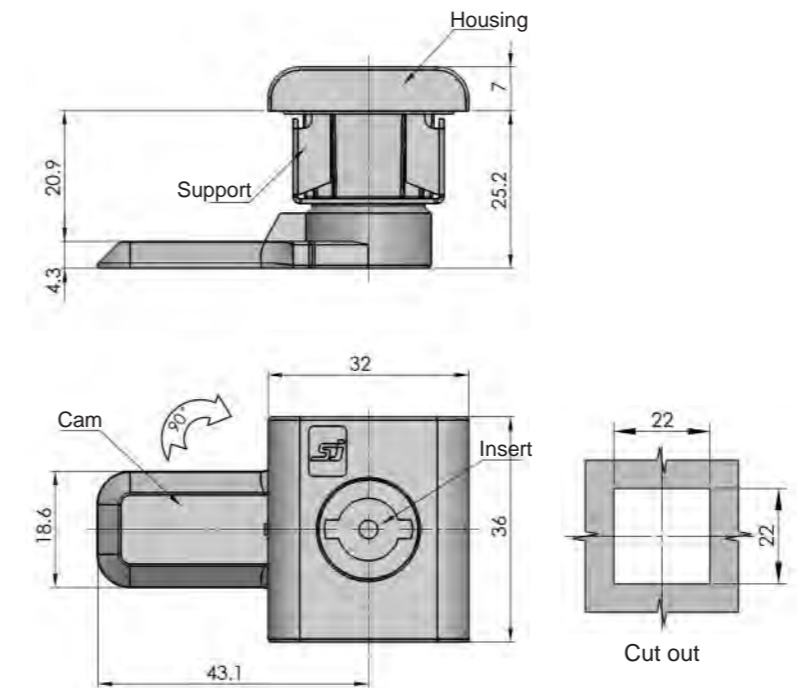
**Remarks :** Optional key K15-1



Specification	Model	ERP
ZDC	MS813	MS813Z1ET01003
Full S.S.	MS813-B	MS813S4AT01002



ERP MS813Z1ET01006  
Remarks : Default cam S1A4406



ERP MS813S4AT01001  
Remarks : Default cam S1A4406

**MS813-4**



**RL IP54**

**Main material and finish:** Yellow gray powder coated ZDC housing, bright chrome plated insert, white zinc plated steel cam.

**Application:** Quarter turn opening or closing

**Remarks:** Optional key K15-1

**Default cam :** S1A44Y06001

**MS813-5B**



**RL IP54**

**Main material and finish:** Mirror polishing stainless steel housing, insert, ZDC cam ,steel screw and support

**Remarks:** Optional key K15 series

**Default cam :** S1A44Y06001

Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket

Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket



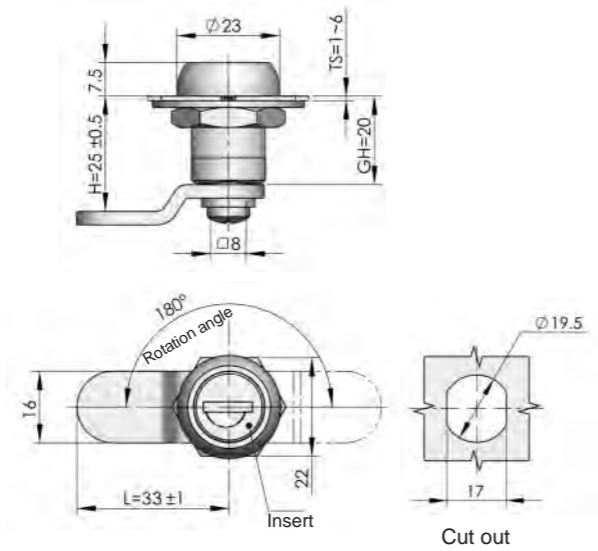
**MS706**

**Main material and finish:** Bright chrome plated ZDC housing and insert, white zinc plated steel cam

**Application:** Cam 180 degree rotation to open or lock

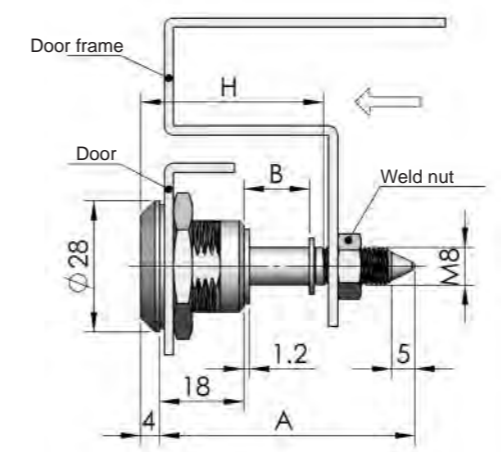
**Remarks:** Default key K130

**Default cam : S1B33Y06002**

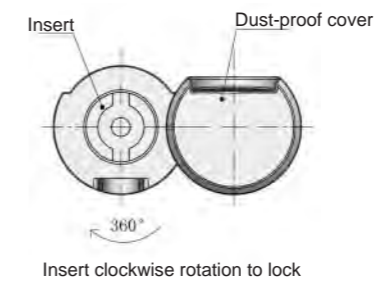
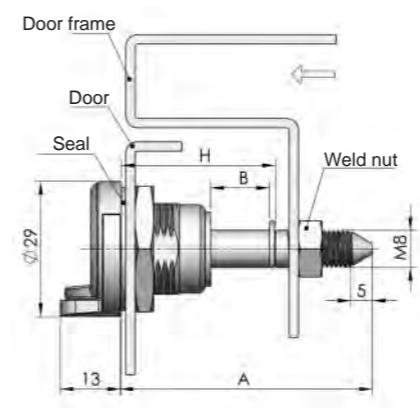


Model	ERP
MS706 - 1	MS706Z3A130001
MS706 - 2	MS706Z3A130012
MS706 - 3	MS706Z3A130004

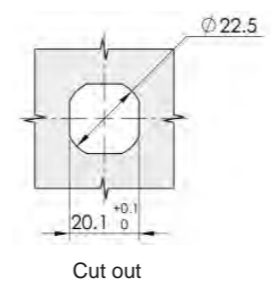
Remarks : Default cam S1B3306



Insert clockwise rotation to lock



Insert clockwise rotation to lock



Cut out



**Main material and finish :** Bright chrome-plated ZDC housing and steel insert

**Application :** 360 degree opening or closing, with function of locking

**Remarks :** Optional key K15-1



**MS809**

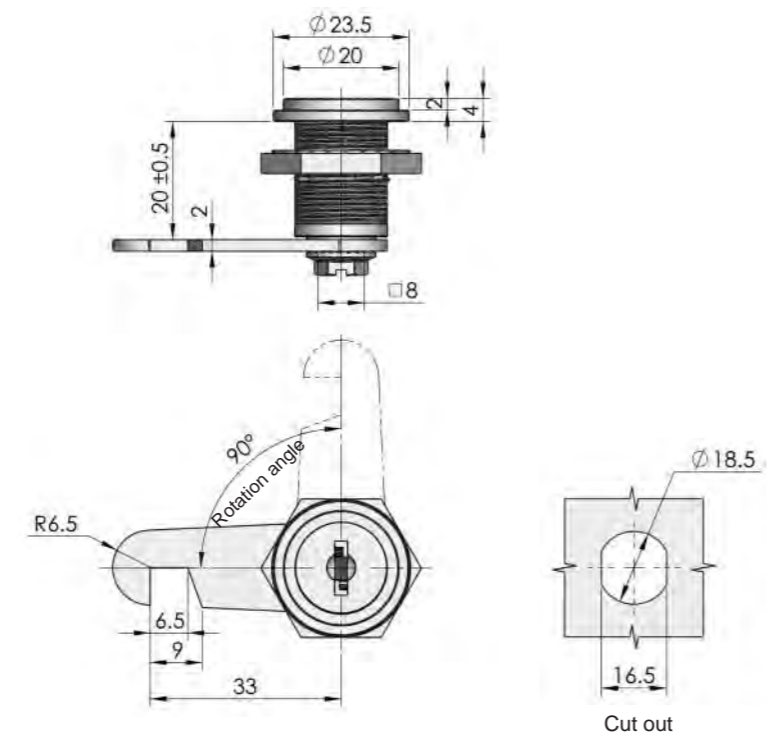
**RL**

**Main material and finish:** Bright chrome-plated ZDC housing and insert, white zinc-plated steel cam

**Application:** Quarter-turn opening or closing

**Remarks:** Default key K230

**Default cam : S1B40Y00004**



Cut out

ERP	MS809Z3A230006
ERP	MS809Z3A230006

Remarks : Default cam S1B4000

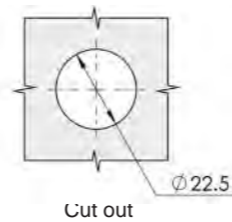
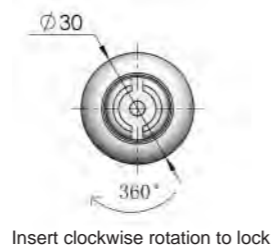
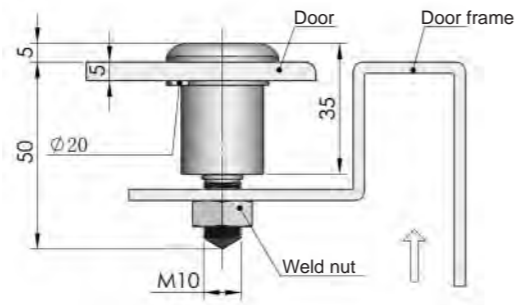
Specification	ZDC housing		Lead sealable housing		PA housing	
	Model	ERP	Model	ERP	Model	ERP
A=40 B=2.5 H=23	MS704 - 1/23	MS704Z3AT02001	MS704 - 1A/23	MS704Z3HT02004	MS704 - 1F/23	MS704N00T02001
A=46 B=7.5 H=28	MS704 - 1/28	MS704Z3AT02002	MS704 - 1A/28	MS704Z3HT02005	MS704 - 1F/28	MS704N00T02002
A=54 B=13.5 H=34	MS704 - 1/34	MS704Z3AT02003	MS704 - 1A/34	MS704Z3HT02006	MS704 - 1F/34	MS704N00T02003



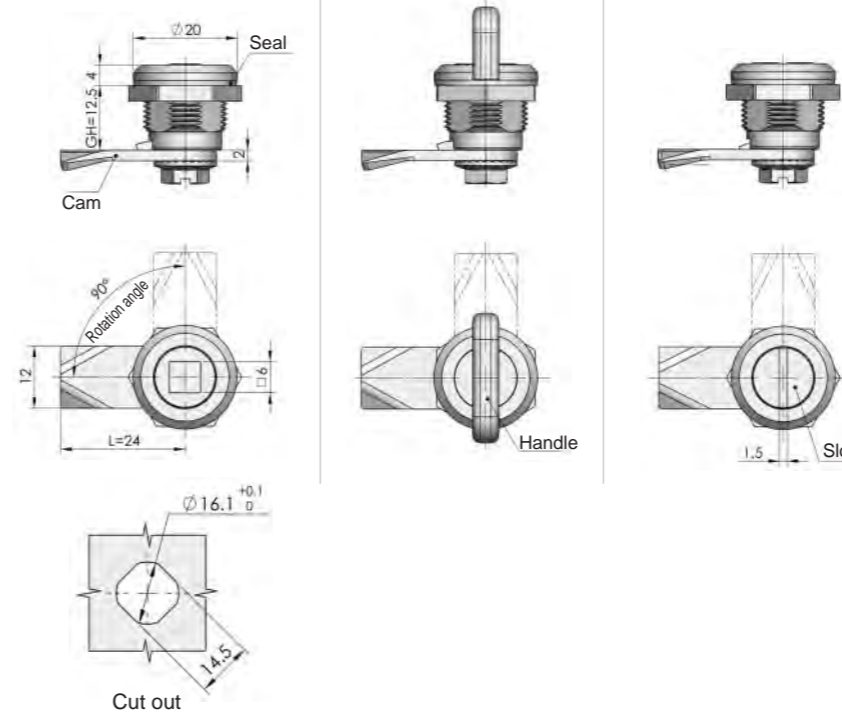
**MS704-2**



**Main material and finish :** Bright chrome-plated steel housing and insert  
**Application :** 360 degree rotation opening or closing, with function of locking  
**Remarks :** Optional key K15-1



<b>ERP</b>	<b>MS704F3AT02004</b>
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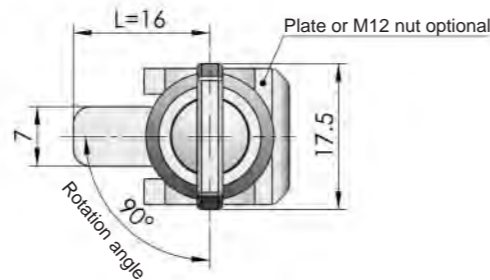
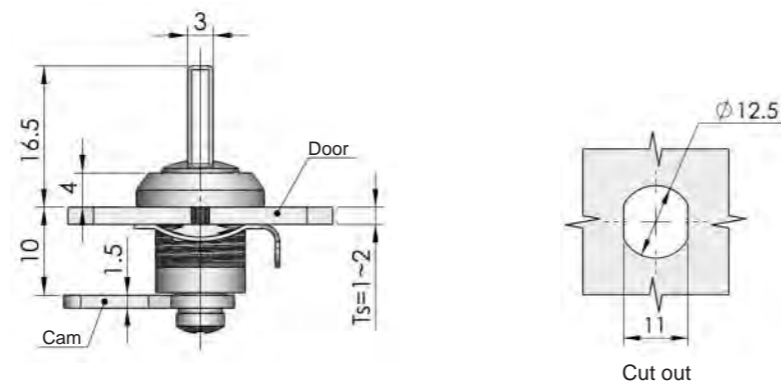
Specification	Model	ERP
Square 6mm	MS845-1	MS845Z3AT05001
Slot	MS845-2	MS845Z1AT10007
Handle	MS845-3	MS845Z1A000013

Remarks : Default cam S1V2400 ( cut out 6x6 )

**MS844**



**Main material and finish :** Bright chrome-plated ZDC housing and handle, white zinc-plated steel cam  
**Application :** Quarter-turn opening or closing  
**Default cam :** S1W16Y00001



Specification	Model	ERP
Plate	MS844-1	MS844Z3A000001
Nut	MS844-2	MS844Z3A000002

Remarks : Default cam S1W1600 ( Cutout  $\varnothing$ 4.6x3.6 )

**MS845-1**



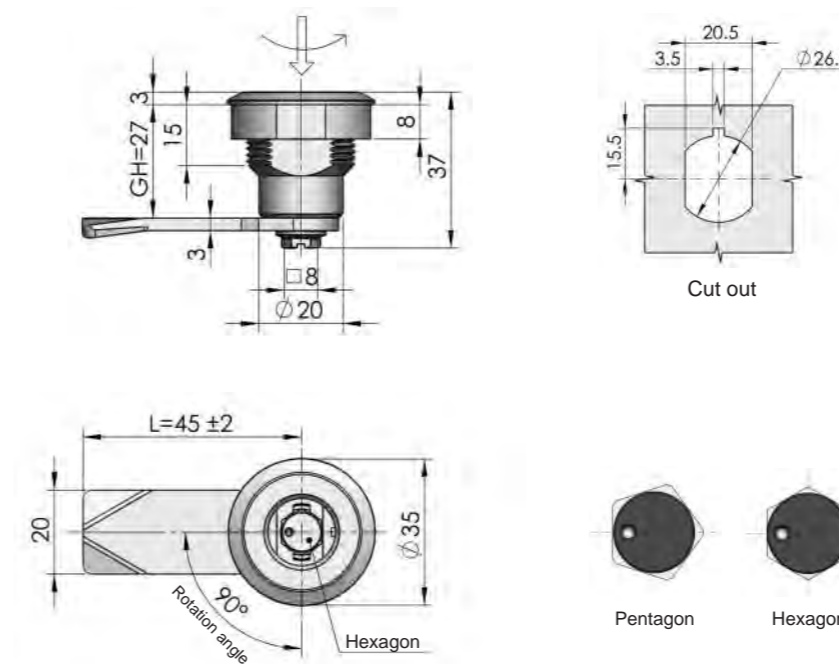
**RL IP54**

**Main material and finish :** Black powder coated ZDC housing and insert, white zinc-plated steel cam  
**Application :** Quarter-turn opening or closing  
**Default cam :** S1V24Y00001

**MS750**



**Main material and finish :** Bright chrome-plated ZDC housing and insert, white zinc-plated steel cam  
**Application :** Quarter-turn opening or closing  
**Remarks :** Optional key K15-19 ( Socket pentagon ) or K15-25 ( Socket hexagon )  
**Default cam :** S1B45Y00002



Specification	Model	ERP
Plate	MS750-1	MS750Z3AT19005
Nut	MS750-2	MS750Z3AT25003

Remarks : Default cam S1B4500 ( cut out 8x8 )

Accessories
Handle lock
Cylinder lock
Electronic lock
Swing handle
Rod control lock
Panel lock
Toggle and hook
Handles
Door stop
Hinge
Seal gasket

**MS812-1**



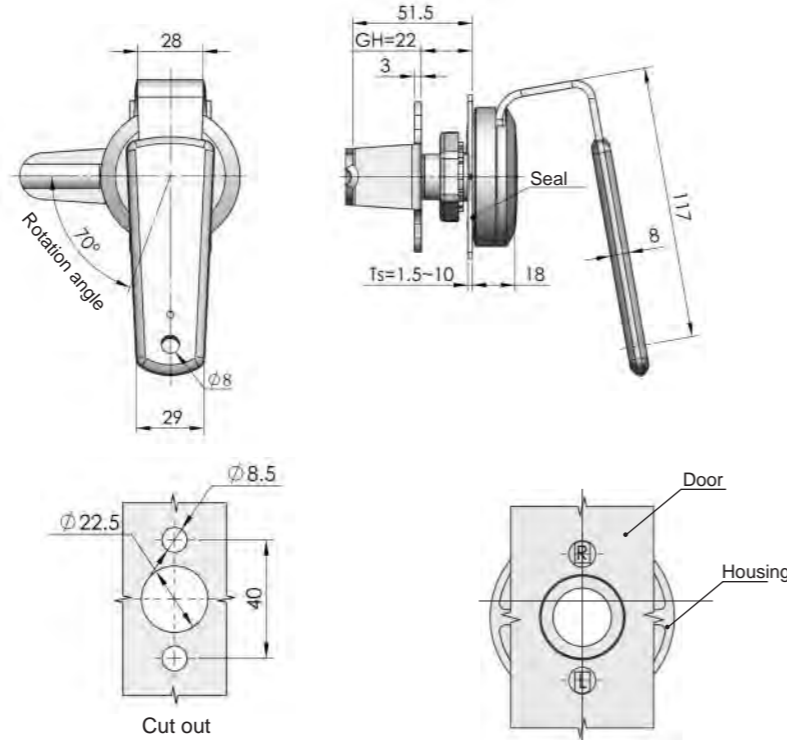
**RL IP54**

**Main material and finish :** Bright chrome-plated ZDC housing and insert, white zinc-plated steel cam

**Application :** 70 degree rotation opening or closing

**Remarks :** Key the same as MS812-2

**Default cam :** S3C86Y00002



**ERP MS812Z3A000006**

Remarks : Default cam S3C8600 ( cut out 10x10 )

Remarks :Housing rotate 180°for installing. the picture shows the product and panel after installing

**MS812-2**

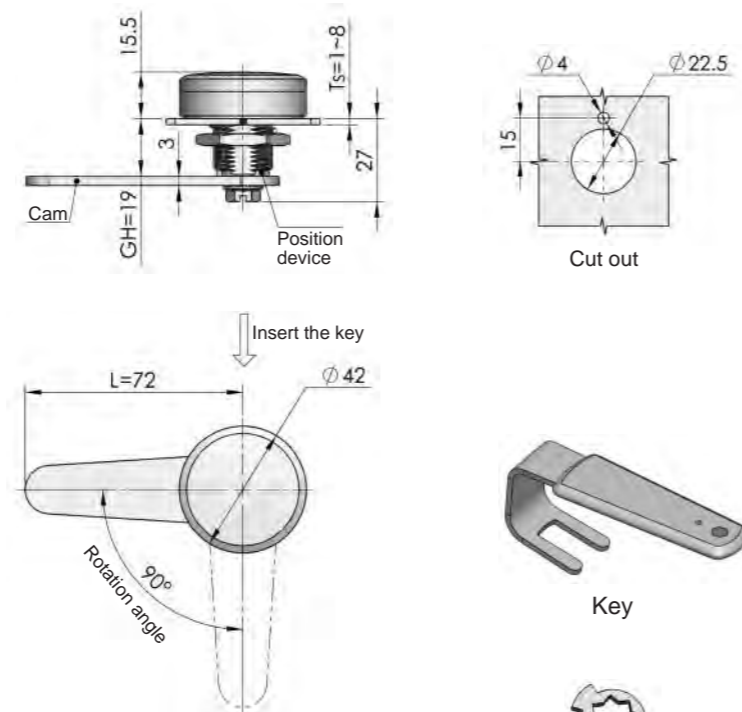


**RL IP54**

**Main material and finish:** Bright chrome plated ZDC housing and cap, white zinc plated steel cam.

**Application:** Quarter turn opening or closing

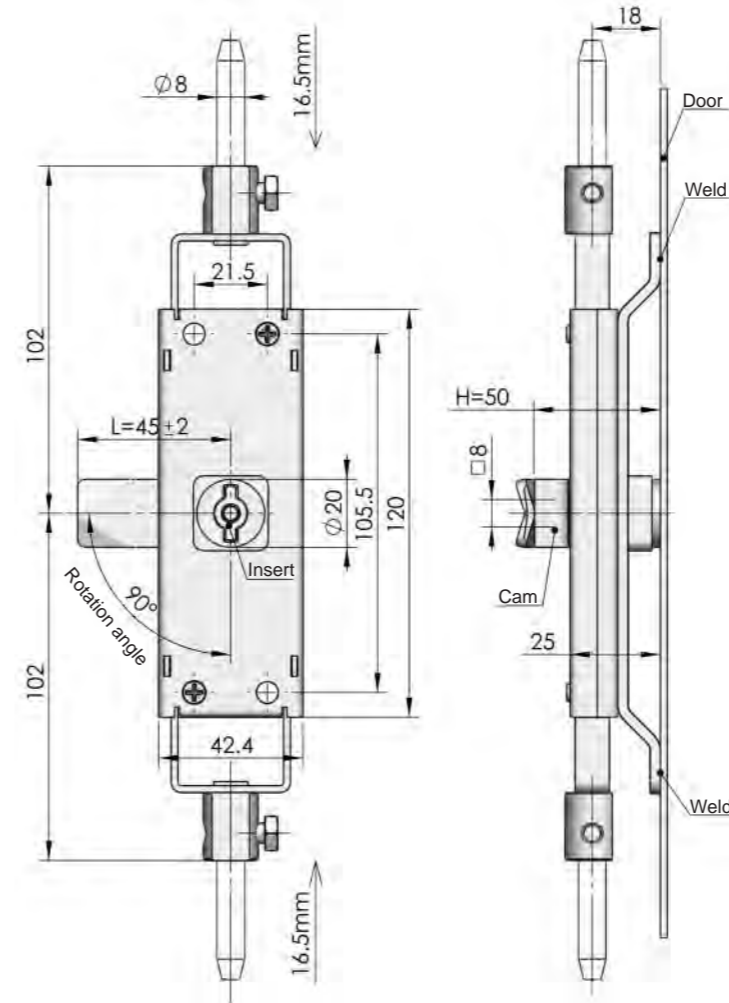
**Default cam :** S1B72Y00001



**ERP MS812Z2B000003**

Remarks : Default cam S1B7200 ( cut out 8x8 )

Remarks: change direction device and cam to realize left or right opening



**ERP MS801F3DT02003**

Remarks : Default cam S1B4523 ( cut out 8x8 )

**MS801-1**



**Main material and finish :** White zinc-plated steel lock body, ABS plastic cover

**Application :** Insert quarter-turn rotation combines with cam and rod latch

**Remarks :** Optional key K15-1

**Default cam :** S1B45Y23001

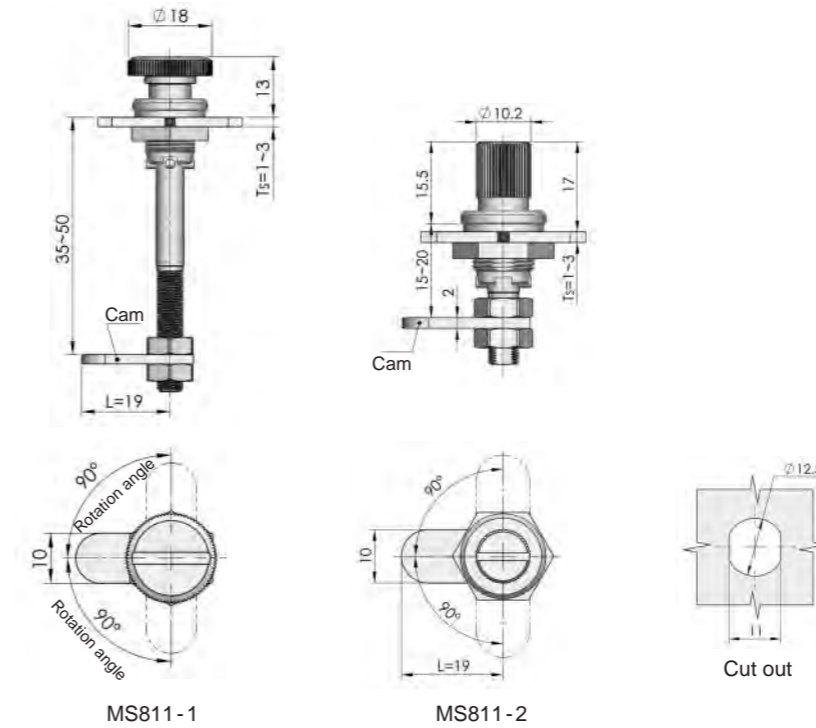
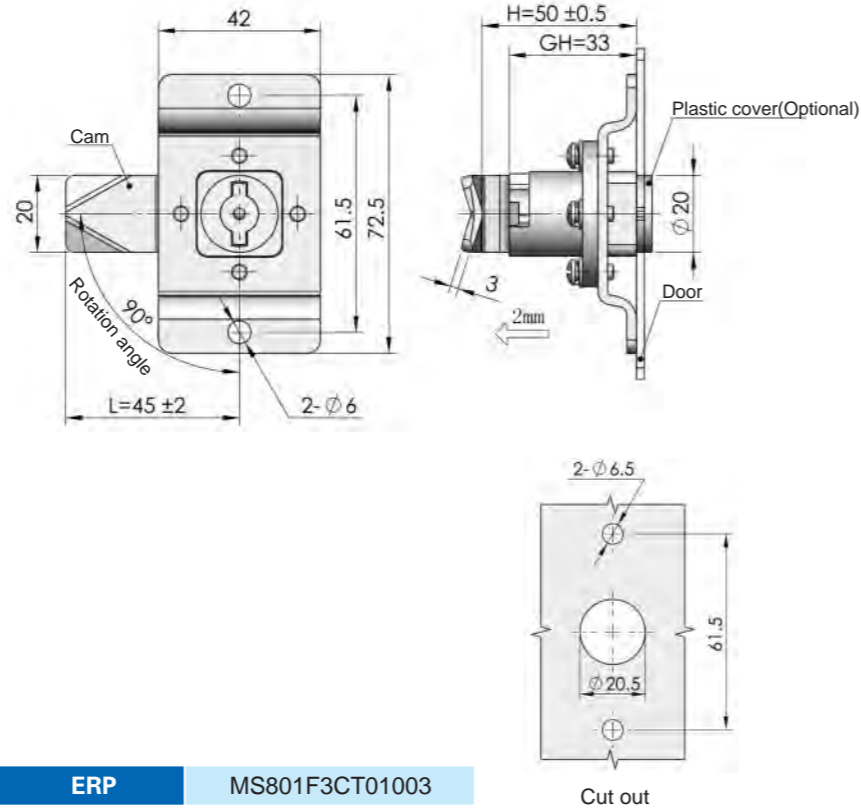
Accessories
Handle lock
Cylinder lock
Electronic lock
Swing handle
Rod control lock
Panel lock
Toggle and hook
Handles
Door stop
Hinge
Seal gasket

Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket

**MS801-2**



**Main material and finish :** White zinc-plated steel lock body, ABS plastic cover  
**Application :** Quarter-turn opening or closing  
**Remarks :** Optional key K15-1  
**Default cam :** S1B45Y17002

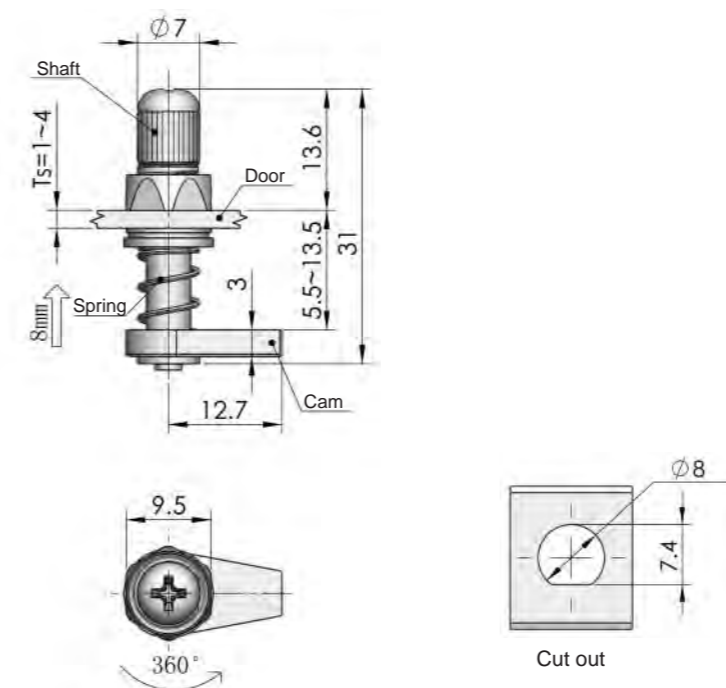
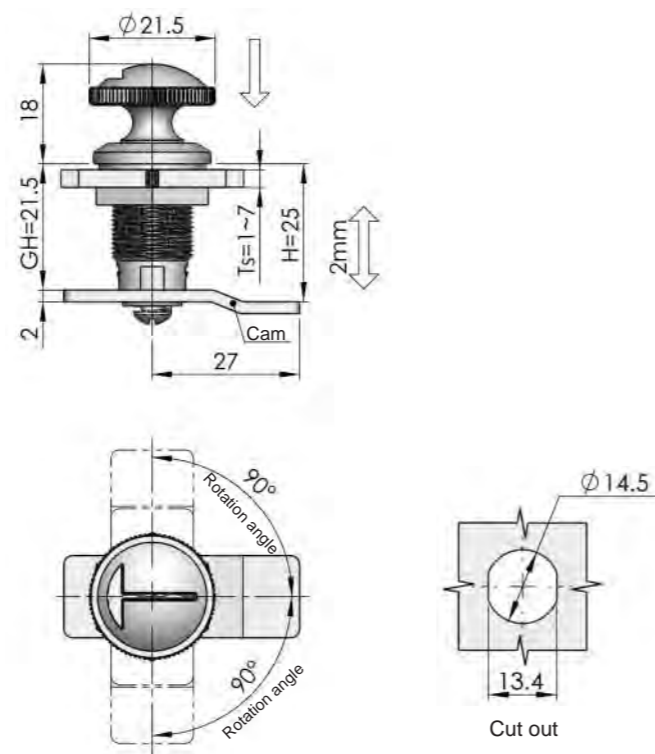


**RL**  
**Main material and finish :** Bright chrome-plated steel housing and handle, white zinc-plated steel cam  
**Application :** Quarter-turn opening or closing  
**Default cam :** S1W19Y00002

**MS803**



**Tighten RL**  
**Main material and finish :** Bright chrome-plated ZDC housing and handle, white zinc-plated steel cam  
**Application :** Quarter-turn opening or closing, with function of locking automatically  
**Default cam :** S1K27N05001



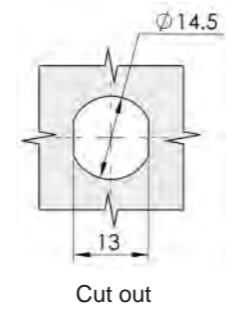
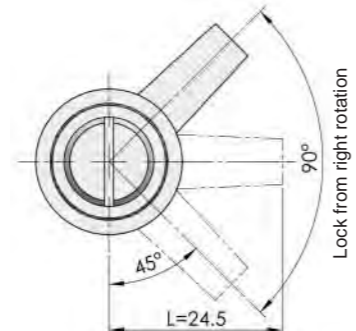
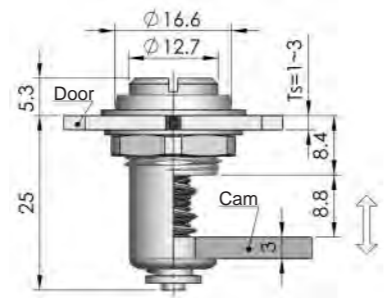
**Tighten R L**  
**Main material and finish :** Trivalent zinc-plated steel housing, handle and cam  
**Application :** Handle 360 degree, rotation with function of locking  
**Default cam :** S1S13Y00001

Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket



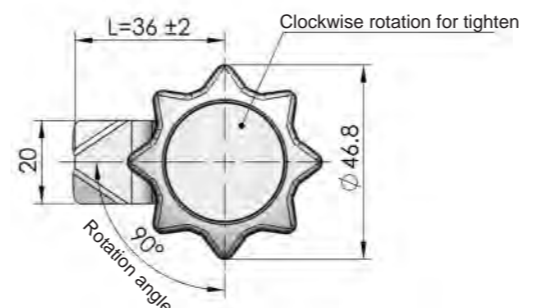
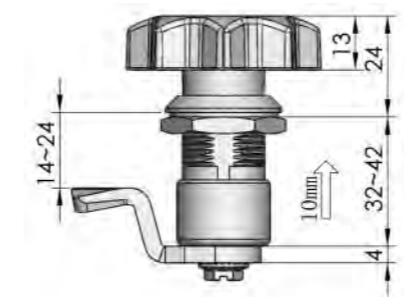
Main material and finish : White zinc-plated ZDC housing, white zinc-plated steel cam and shaft  
Application : Quarter-turn opening or closing, with function of locking

Default cam : S1S25Y00002



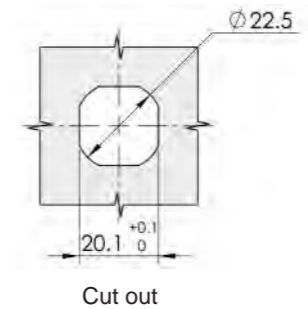
	MS811-4-Z ( Left )	MS811-4-Y ( Right )
ERP	MS811Z3D000008	MS811Z3D000001

Remarks : Default cam S1S2500



ERP	MS811Z2B000003
-----	----------------

Remark: Default cam S1M3614



Main material and finish : Nanometer-painted ZDC button and housing, nanometer-painted aluminum cover, white-zinc-plated cam  
Application : Quarter-turn opening or closing, with function of locking

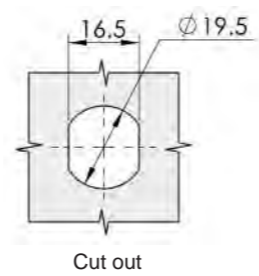
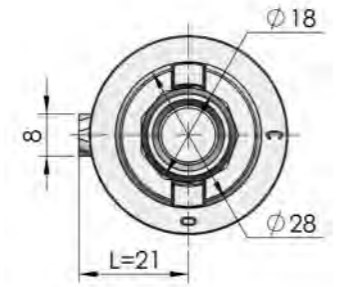
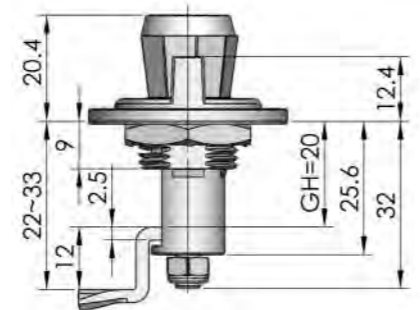
Default cam : S1M36Y14001

Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket



Main material and finish : PA handle and housing, white zinc-plated steel cam  
Application : Quarter-turn opening or closing, with function of locking

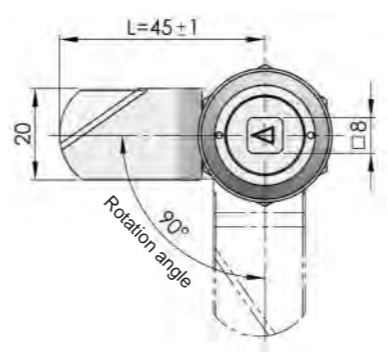
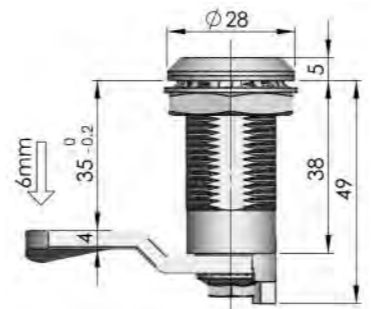
Default cam : S1S21Y12001



ERP	MS811N00000009
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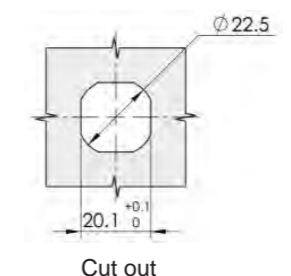
Remarks : Default cam S1S2112

Remarks : Quarter-turn rotation to realize LH or RH



ERP	MS816S00T07009
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Remark: Default cam S1M44N06 ( cut out  $\phi 10 \times 8$  )



Main material and finish : Stainless steel housing, insert and cam, white zinc-plated steel shaft  
Application : Quarter-turn opening or closing, with function of locking  
Remarks : Optional key K15 series

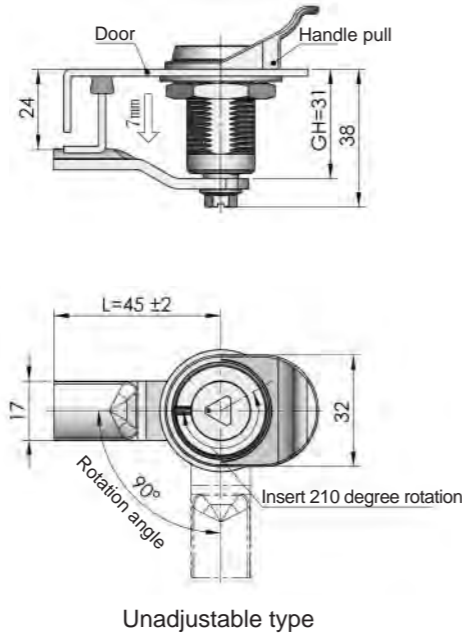
Default cam : S1M44N06001

MS816-1

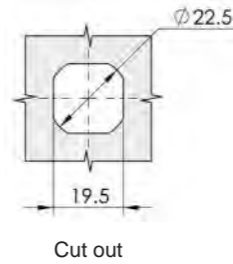


**Main material and finish :** Blue-gray powder coated ZDC housing and insert, white zinc-plated steel cam, PA handle pull  
**Application:** Cam quarter-turn to open or close, with function of locking  
**Remarks:** Optional key K15 series

**Default cam :** S1B45N07016(Unadjustable)  
 S1M33Y00002(Adjustable Ts=5)

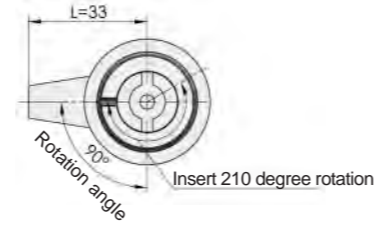
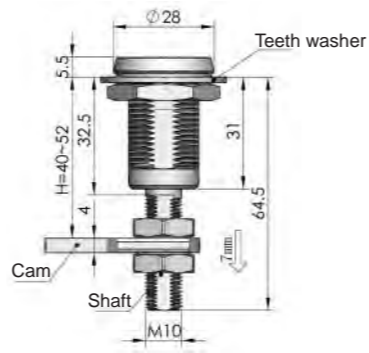


Unadjustable type



Cut out

Remarks : Inserts sketch refers to inserts list 2 on P058

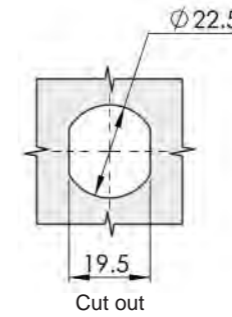
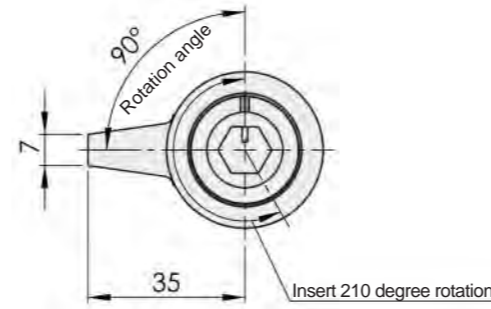
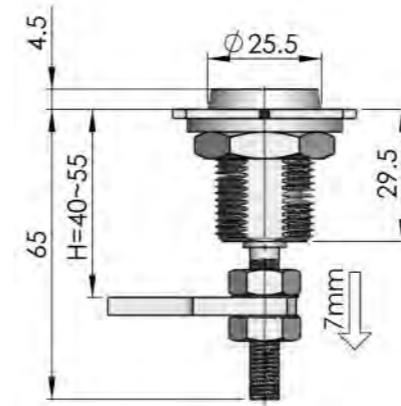


Adjustable type



WP002 water-proof cap ( Optional )

Specification	Unadjustable type		Adjustable type	
	Model	ERP	Model	ERP
8mm Triangle	MS816-1-1	MS816Z1DT04009	MS816-1A-1	MS816Z1DT04015
S Hook	MS816-1-2	MS816Z1DT03007	MS816-1A-2	MS816Z1DT03010
8mm Socket hexagon	MS816-1-3	MS816Z1DT24004	MS816-1A-3	MS816Z1DT24005
10mm Hexagon	MS816-1-4	MS816Z1DT25001	MS816-1A-4	MS816Z2AT25001
8mm Square	MS816-1-5	MS816Z1DT07001	MS816-1A-5	MS816Z1DT07003
7mm Square	MS816-1-6	MS816Z1DT06001	MS816-1A-6	MS816Z1DT06003
9mm Square	MS816-1-8	MS816Z1DT26001	MS816-1A-8	MS816Z1DT26003
Slot	MS816-1-9	MS816Z1DT10001	MS816-1A-9	MS816Z1DT10003
7mm Triangle	MS816-1-10	MS816Z1DT14002	MS816-1A-10	MS816Z1DT14003
Abnormal	MS816-1-12	MS816Z1DT21001	MS816-1A-12	MS816Z1DT21004



Cut out



WP001 water-proof cap ( Optional )



Remarks : Inserts sketch refers to inserts list 2 on P058

ERP	Model	Insert	Optional key
MS816Z1DT25004	MS816-2-1	10mm Hexagon	K15-9, K15-9F
MS816Z1DT04004	MS816-2-2	8mm Triangle	K15-3, K15-3F
MS816Z1DT07004	MS816-2-3	8mm Square	K15-4, K15-4F
MS816Z1DT06004	MS816-2-4	7mm Square	K15-6, K15-6F
MS816Z1DT26004	MS816-2-5	9mm Square	
MS816Z1DT14004	MS816-2-6	7mm Triangle	K15-3, K15-3F

Remarks : Default cam S1K3500 ( cut out Ø8x6.5)

MS816-2



**Main material and finish :** Blue-gray powder coated ZDC housing and insert, white zinc-plated steel cam, PA handle pull  
**Application:** Cam quarter-turn to open or close, with function of locking  
**Remarks:** Optional key K15 series

**Default cam :** S1K35Y00002 (Ts=4)

**MS816-3S-1**

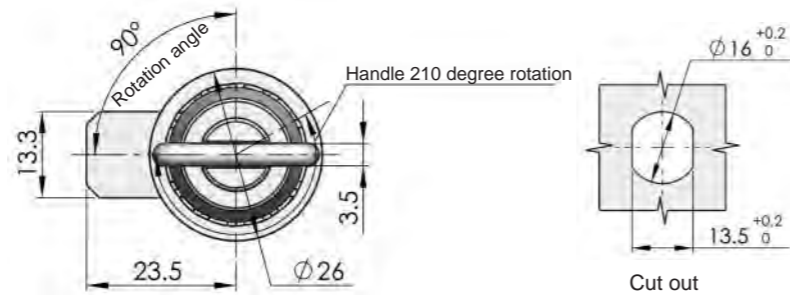
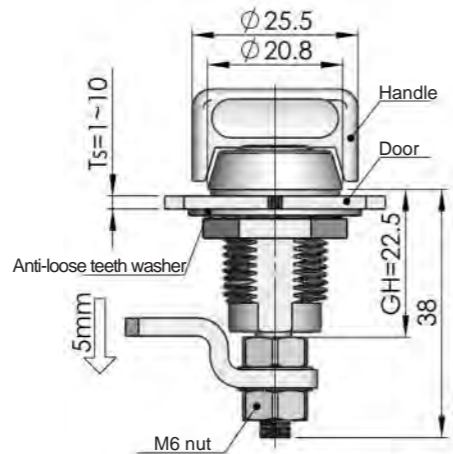


**MS816-3S-2**

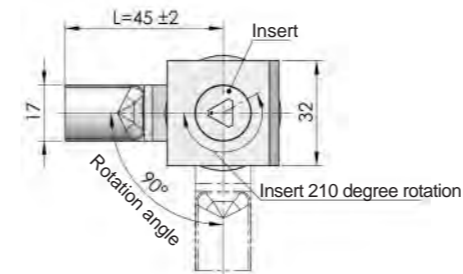
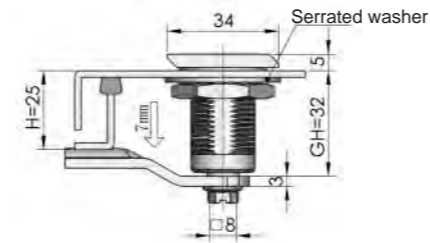


**Main material and finish:** Black painted ZDC housing, insert and handle, white zinc plated steel cam, PA water-proof cap  
**Application:** Cam Quarter-turn to open or close, with function of locking

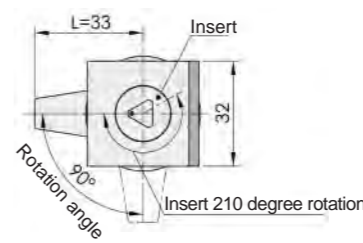
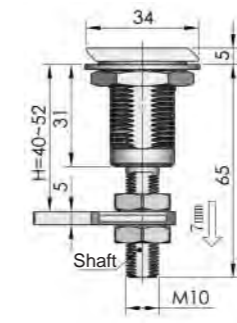
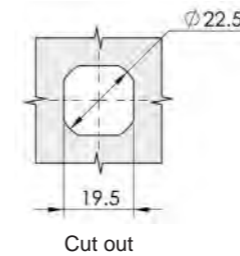
**Default cam :** S1G23N08005



**WP004(Optional)**



Unadjustable type



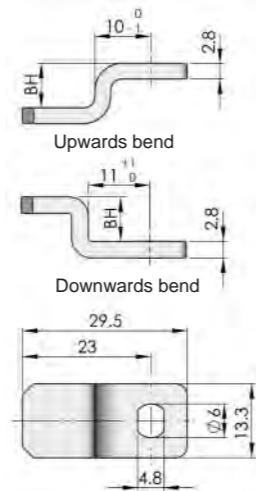
Adjustable type

- Triangular 8mm
- Square 7mm
- Hooked 4mm
- Square 9mm
- Socket Hexagon Ffemale 8mm
- Slot
- Hexagon male 10mm
- Triangular 7mm
- Square 8mm

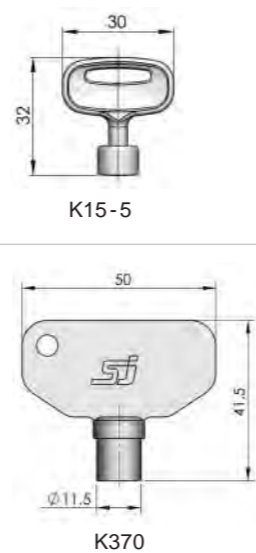
Remrks : Lock insert pic refers to diagram P058

Specification	Unadjustable		Adjustable		Optional key
	Model	ERP	Model	ERP	
8mm Triangle	MS817-1	MS817Z2AT04001	MS817-1A	MS817Z2AT04007	K15-3, K15-3F
S Hook	MS817-2	MS817Z2AT03001	MS817-2A	MS817Z2AT03002	K15-1
8mm Socket hexagon	MS817-3	MS817Z2AT24001	MS817-3A	MS817Z2AT24002	
10mm Hexagon	MS817-4	MS817Z2AT25003	MS817-4A	MS817Z2AT25002	K15-9, K15-9F
8mm Square	MS817-5	MS817Z2AT07001	MS817-5A	MS817Z2BT07002	K15-4, K15-4F
7mm Square	MS817-6	MS817Z2AT06001	MS817-6A	MS817Z2AT06003	K15-6, K15-6F
9mm Square	MS817-8	MS817Z2AT26001	MS817-8A	MS817Z2AT26002	
Slot	MS817-9	MS817Z2AT10001	MS817-9A	MS817Z2AT10002	
7mm Triangle	MS817-10	MS817Z2AT14001	MS817-10A	MS817Z2AT14002	K15-3, K15-3F
Abnormal	MS817-12	MS817Z2AT21001	MS817-12A	MS817Z2AT21002	K31

**Cam(Optional)**



**key(Optional)**



Remarks: Please refer to cam list on P009

Specification	Model	ERP	Optional key
Handle	MS816-3S-1	MS816Z2A000028	
6mm Square	MS816-3S-2	MS816Z2AT05001	K15-5A
Abnormal	MS816-3S-3	MS816Z1AT21002	K370
Slot	MS816-3S-4	MS816Z1AT18006	

Remarks: Default cam S1G23N08 (Cutout Ø6x4.7)

**MS817**



**Main material and finish:** Black powder coated ZDC housing and insert, white zinc plated steel cam  
**Application:** Cam Quarter-turn to open or close, with function of locking  
**Remarks:** Optional key K15

**Default cam :** S1K45N07016(Unadjustable)  
 S1M33Y00002(Adjustable Ts=5)

Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket

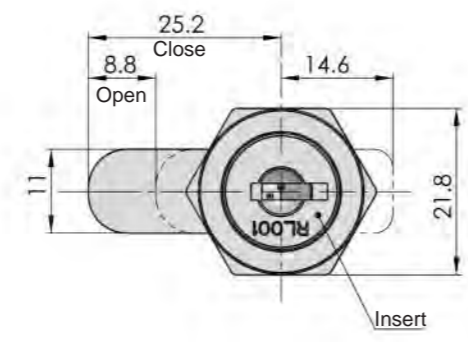
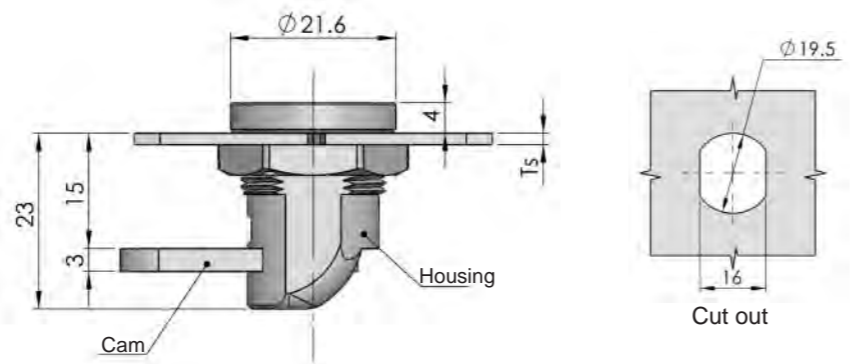


**MS786**

**Main material and finish:** Black painted ZDC housing and insert, white zinc plated steel cam.

**Application:** Insert rotating 180° to drive the cam for opening and closing

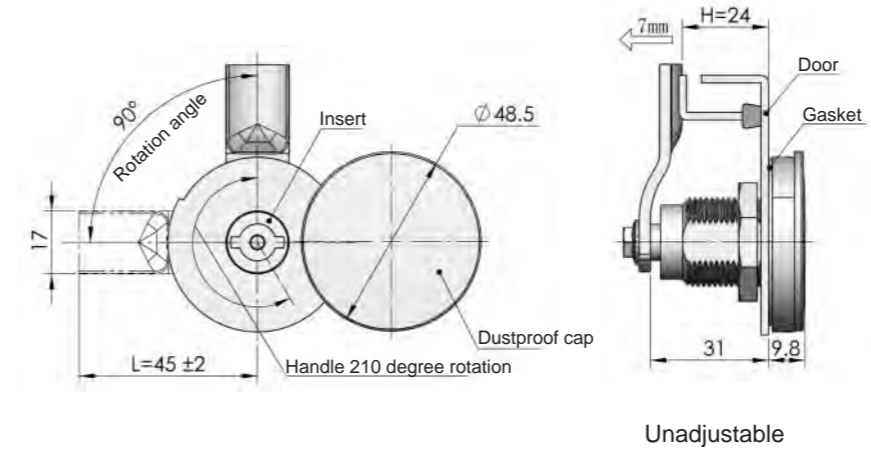
**Remarks:** Default key K540



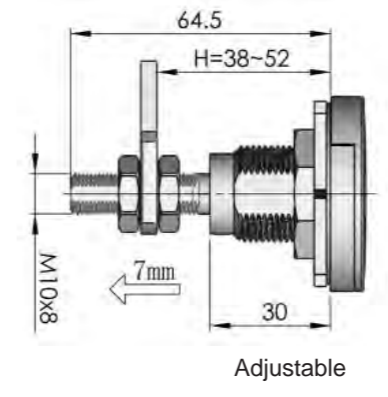
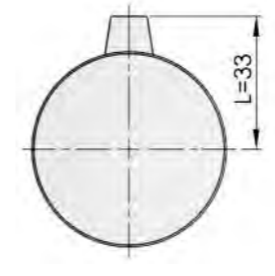
**Optional key**



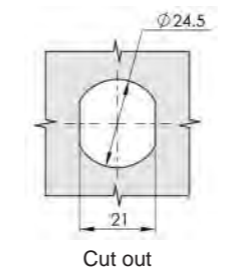
ERP MS786Z2A540002



Unadjustable



Adjustable



Cut out

Specification	Unadjustable		Adjustable		Optional key
	Model	ERP	Model	ERP	
8mm Triangle	MS823-1	MS823Z3AT04001	MS823-1A	MS823Z3AT04004	K15-3, K15-3F
S Hook	MS823-2	MS823Z3AT03007	MS823-2A	MS823Z3AT03014	K15-1
8mm Socket hexagon	MS823-3	MS823Z3AT24001	MS823-3A	MS823Z3AT24002	
10mm Hexagon	MS823-4	MS823Z3AT25001	MS823-4A	MS823Z3AT25002	K15-9, K15-9F
8mm Square	MS823-5	MS823Z3AT07001	MS823-5A	MS823Z3AT07002	K15-4, K15-4F
7mm Square	MS823-6	MS823Z3AT06001	MS823-6A	MS823Z3AT06002	K15-6, K15-6F
9mm Square	MS823-8	MS823Z3AT26001	MS823-8A	MS823Z3AT26002	
Slot	MS823-9	MS823Z3AT10001	MS823-9A	MS823Z3AT10002	
7mm Triangle	MS823-10	MS823Z3AT14001	MS823-10A	MS823Z3AT14002	K15-3, K15-3F
Abnormal	MS823-12	MS823Z3AT14001	MS823-12A	MS823Z3AT21002	K31

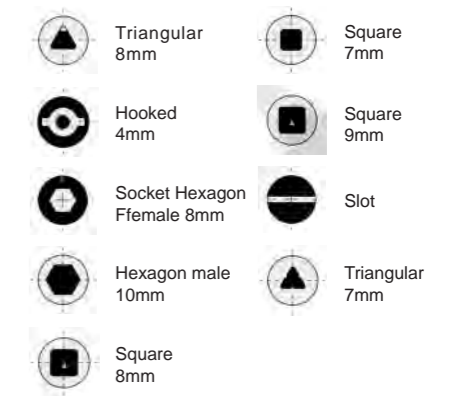


**Main material and finish:** Bright chrome-plated ZDC housing and insert, white zinc plated steel cam

**Application:** Cam quarter-turn to open or lock , with function of locking

**Remarks :** Optional key K15


**Default cam :** S1B45N07005(Unadjustable)  
S1M33Y00002(Adjustable Ts=5)



Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket

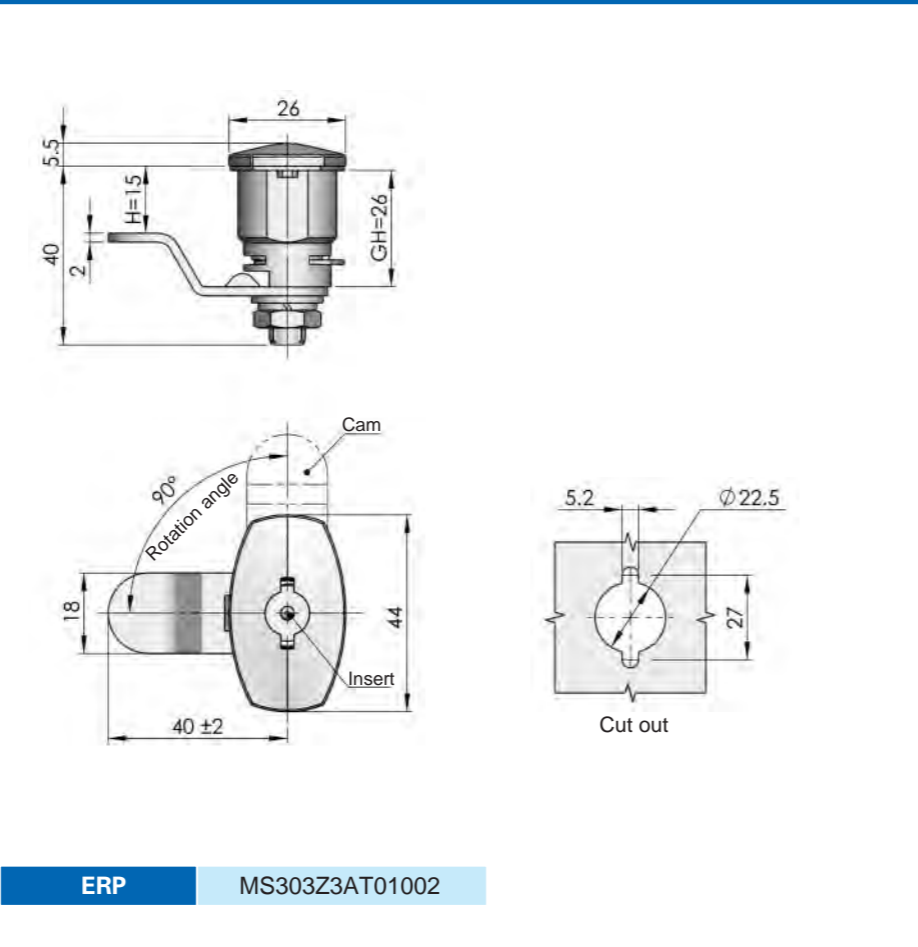
Accessories
Handle lock
Cylinder lock
Electronic lock
Swing handle
Rod control lock
Panel lock
Toggle and hook
Handles
Door stop
Hinge
Seal gasket

**MS303**




**Main material and finish:** Bright chrome-plated ZDC housing and insert, white zinc-plated steel cam  
**Application:** Quarter-turn opening or closing

ERP MS303Z3AT01002

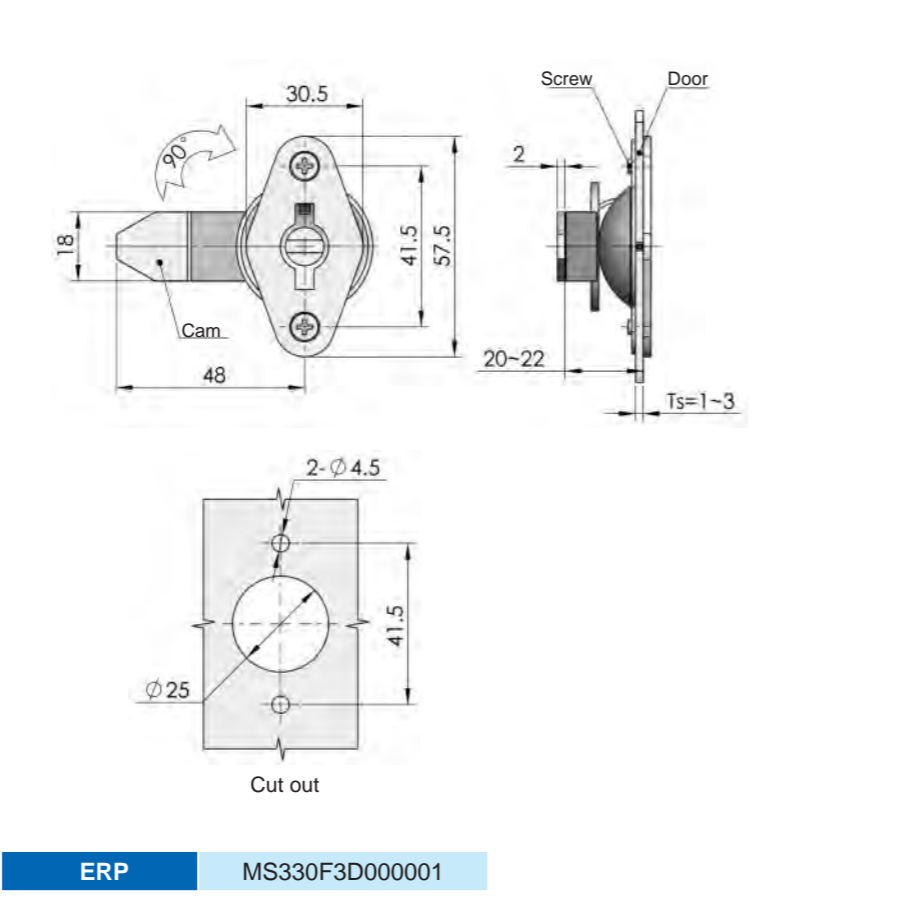


**MS330**

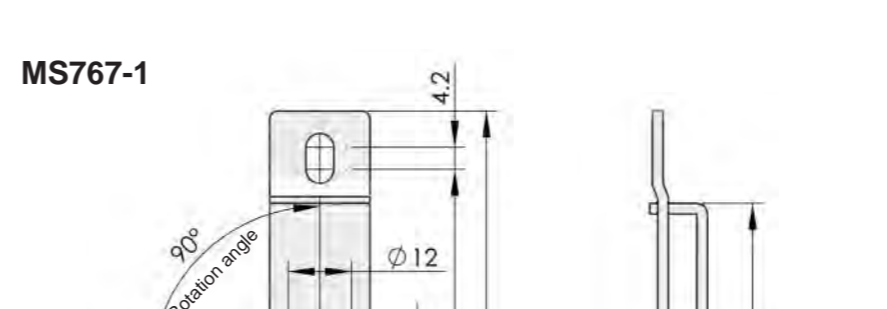


**Main material and finish:** White zinc-plated steel lock body, and steel cam  
**Application:** Quarter-turn opening or closing

ERP MS330F3D000001

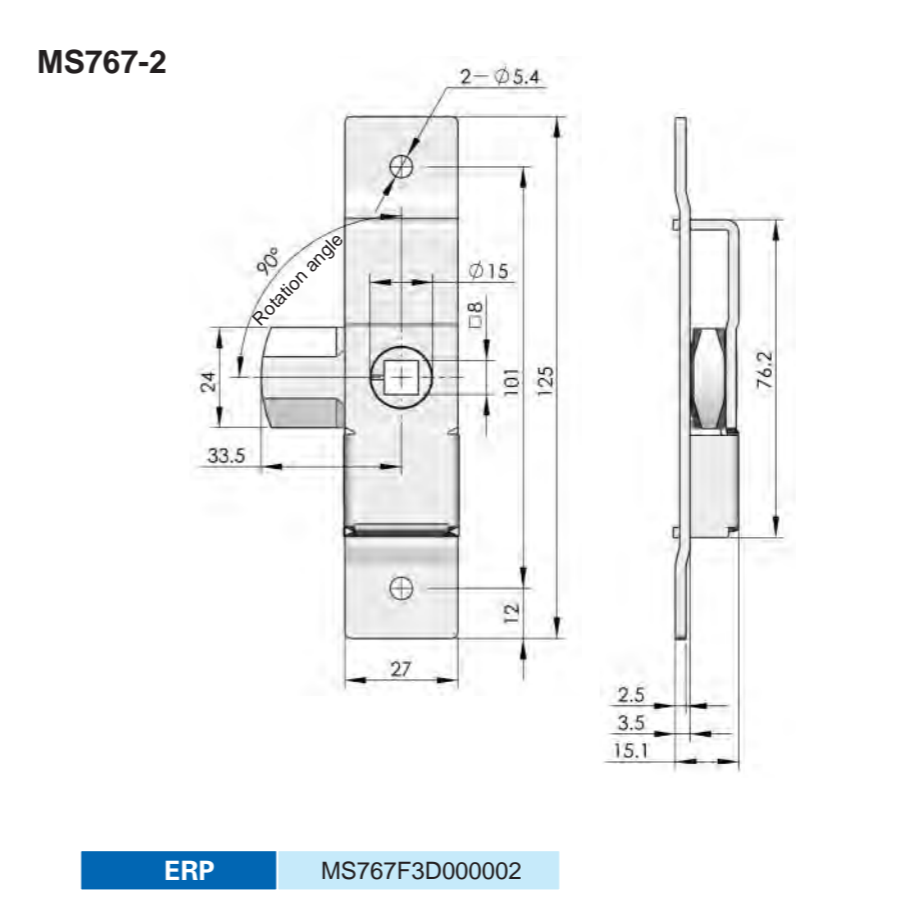


**MS767-1**



**Main material and finish:** White zinc-plated steel lock body and stainless steel cam  
**Application:** Quarter-turn opening or closing

ERP MS767F3D000001



**MS767-1**

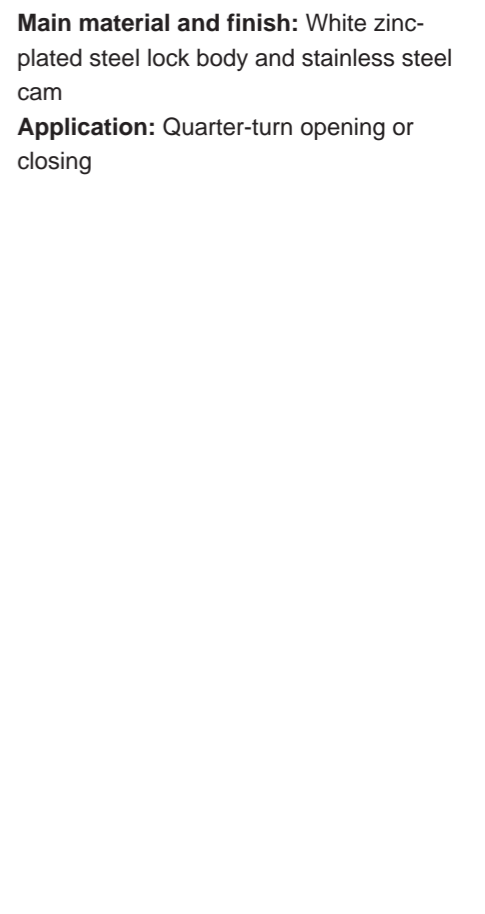


**MS767-2**



**Main material and finish:** White zinc-plated steel lock body and stainless steel cam  
**Application:** Quarter-turn opening or closing

RL

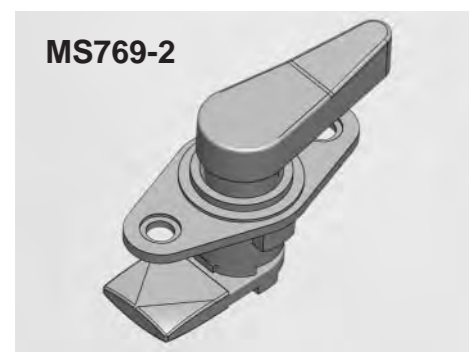
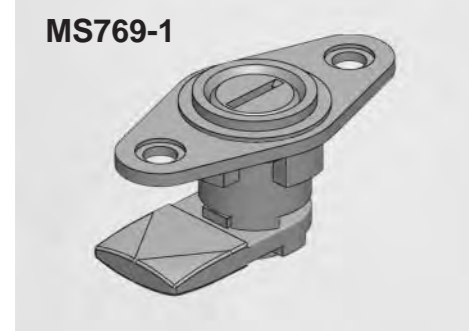


Accessories
Handle lock
Cylinder lock
Electronic lock
Swing handle
Rod control lock
Panel lock
Toggle and hook
Handles
Door stop
Hinge
Seal gasket



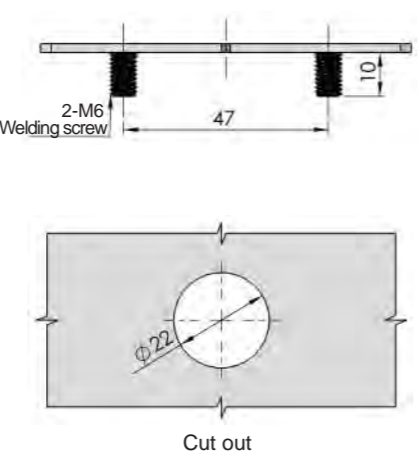
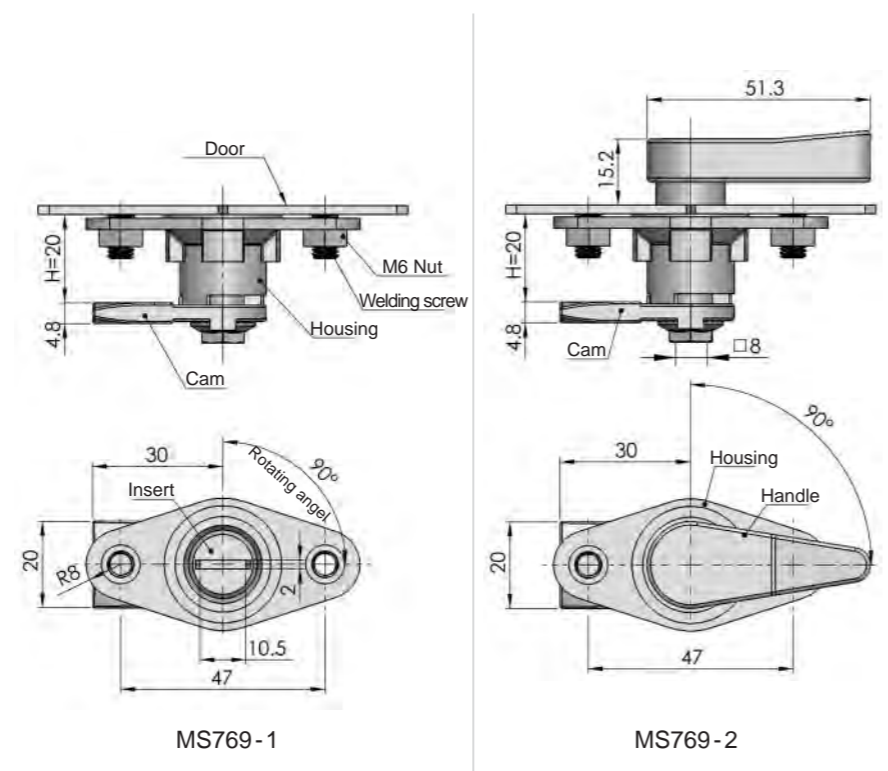
Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket

Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket



**IP55**  
**Material and finish:** White zinc plated ZDC housing, cam and steel screw, stainless steel insert, ZDC plastic-covered handle

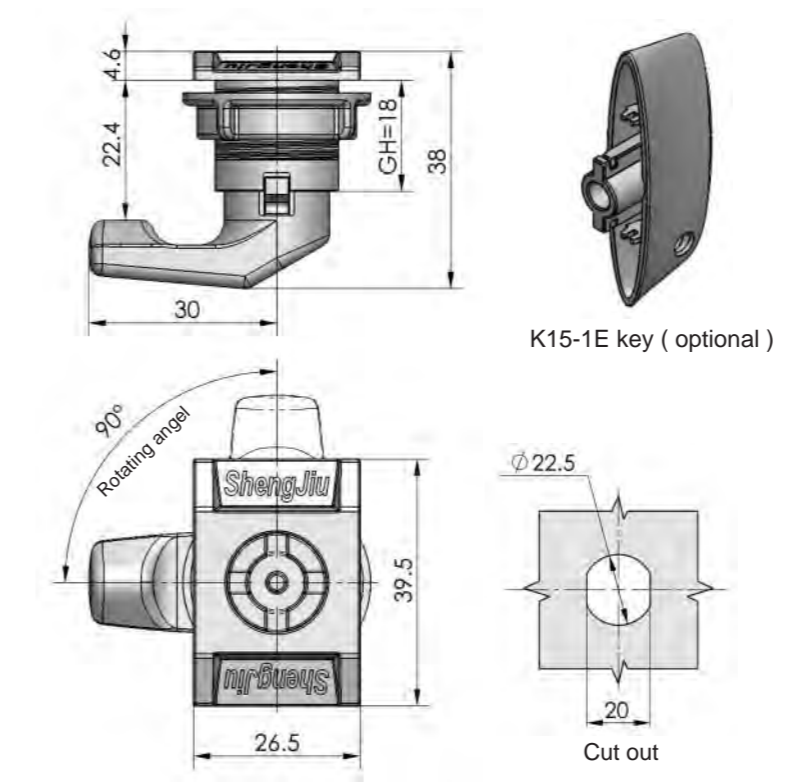
**Default cam :** S1B30Y00004



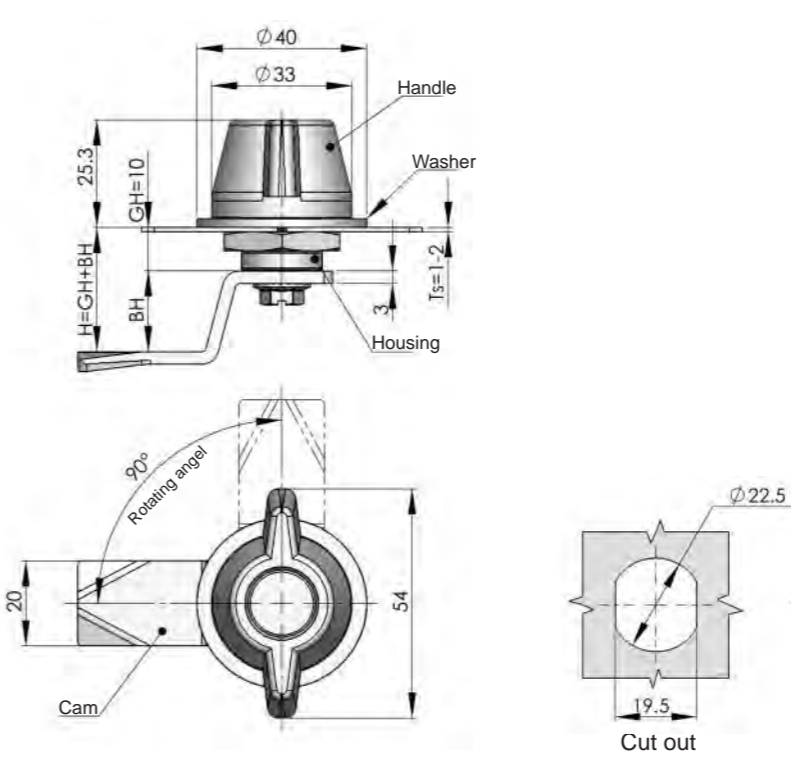
	MS769-1	MS769-2
ERP	MS769Z3DT10001	MS769Z3D000001

Remrks: Default cam S1B3000

Cam can be reversely installed, and rotating angel exceeds 90 °



ERP	MS769N00T01001
-----	----------------



ERP	MS784Z3D000002
-----	----------------

Remrks: Default camS1H4819



**IP55**  
**Material and finish:** Plastic housing, insert and nut  
**Application:** Quarter turn opening or closing



**RL**  
**Material and finish:** White zinc plated ZDC housing and nut, white zinc plated steel cam, black plastic handle  
**Application:** Handle rotating 90° opening or closing  
**Remarks:** S1H cam serials

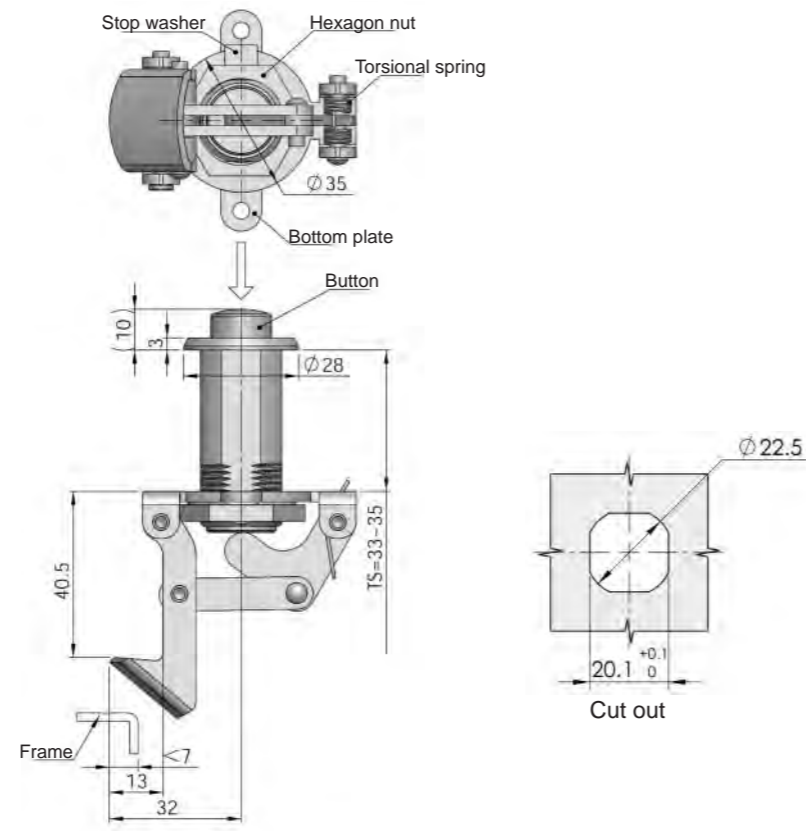
**Default cam :** S1H48Y19002

Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket

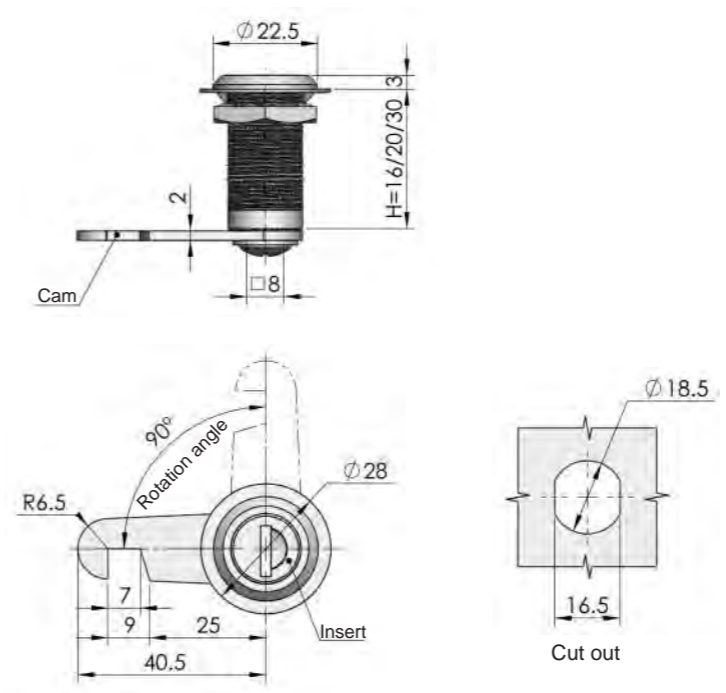


**MS794**

**Main material and finish:** Stainless steel housing, button, bolt and connector.  
**Application:** Press the button to rotate the bolt for opening



ERP MS794S0000001



	MS729-1	MS729-2	MS729-3
ERP	MS729Z3A420022	MS729Z3A420002	MS729Z3A420017

Remarks : Default cam S1B4000



**RL**

**Main material and finish:** Bright chrome plated ZDC housing and insert, white zinc plated steel cam  
**Application:** Quarter-turn opening or closing  
**Remarks:** Default key K420

**Default cam : S1B40Y00001**

Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket

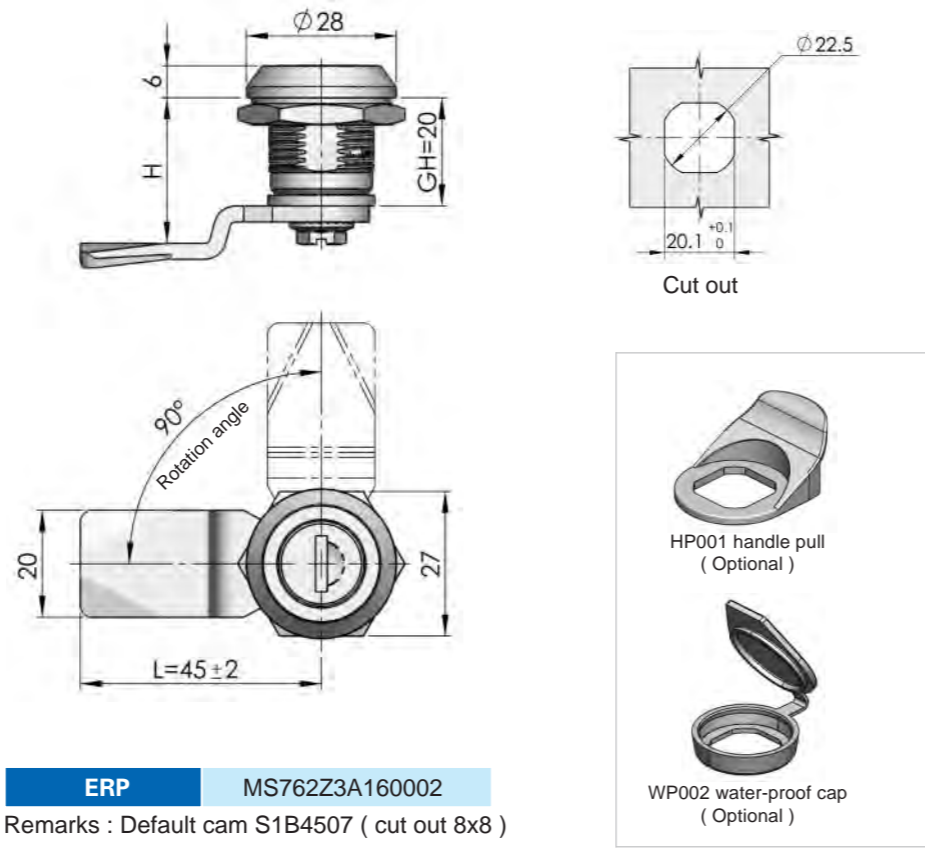


**MS762**

**RL**

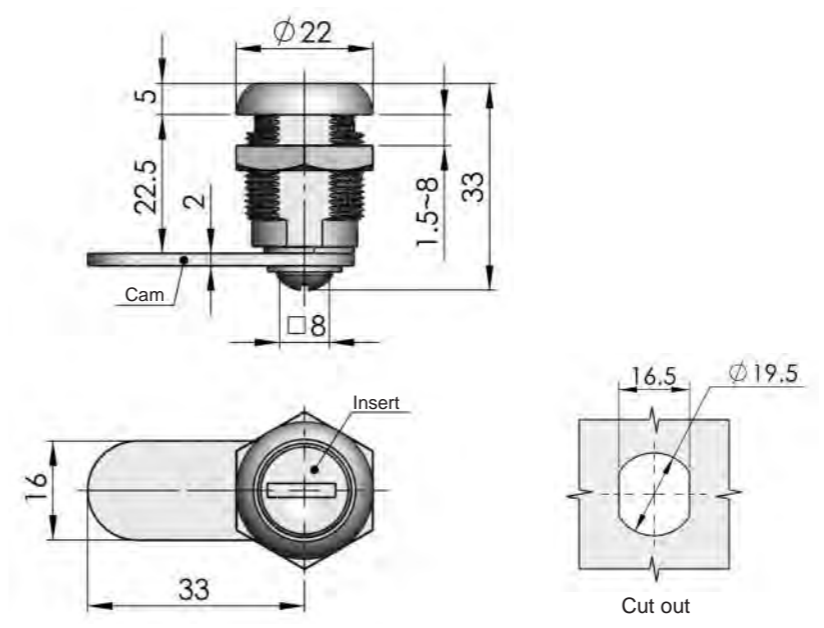
**Main material and finish :** Bright chrome-plated ZDC housing and insert, white zinc-plated steel cam  
**Application :** Quarter-turn opening or closing  
**Remarks :** Default key K160

**Default cam : S1B45Y07002**



ERP MS762Z3A160002

Remarks : Default cam S1B4507 ( cut out 8x8 )



ERP MS733Z3A430009

Remarks : Default cam S1B3300



**MS733**

**RL**

**Main material and finish:** Bright chrome-plated ZDC housing and insert, white zinc-plated steel cam  
**Application:** Quarter-turn opening or closing  
**Remarks:** Default key K430

**Default cam : S1B33Y00005**



**MS741**

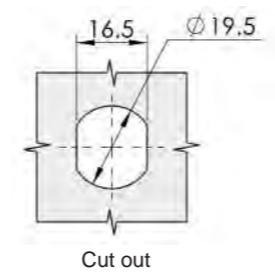
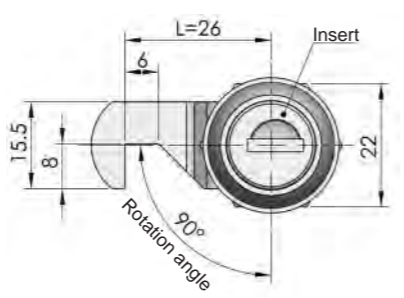
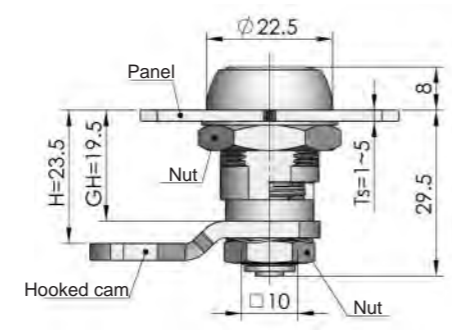
**R**

**Main material and finish:** Bright chrome-plated ZDC housing and insert, white zinc plated steel cam

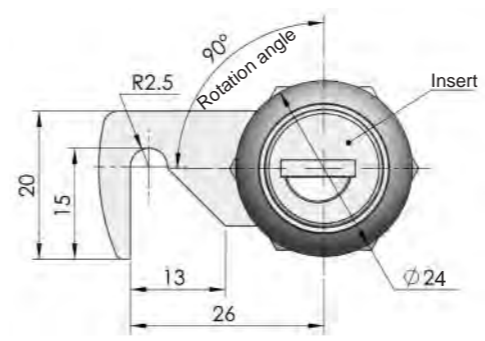
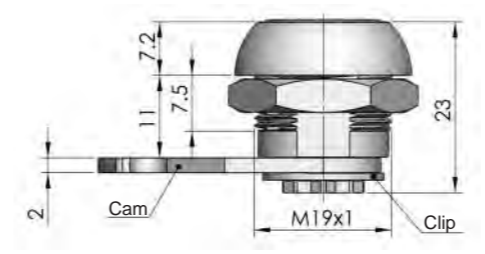
**Application:** Quarter-turn opening or closing, with function of locking automatically

**Remarks:** Default key K160

**Default cam :** S1C32Y04001



**ERP** MS741Z3A160001  
Remarks : Default cam S1C3204



**ERP** MS743Z3A282001  
Remarks : Default cam S1B3000 ( cut out 8x8 )



**MS743**

**IP40**

**Main material and finish:** Bright chrome-plated ZDC housing, white zinc-plated steel cam

**Application:** Quarter-turn opening or closing

**Remarks:** Default key K282

**Default cam :** S1B30Y00006



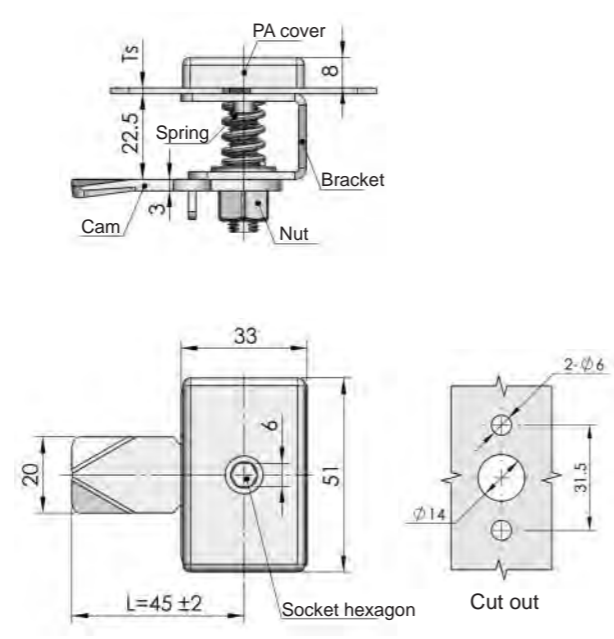
**MS742**

**R L**

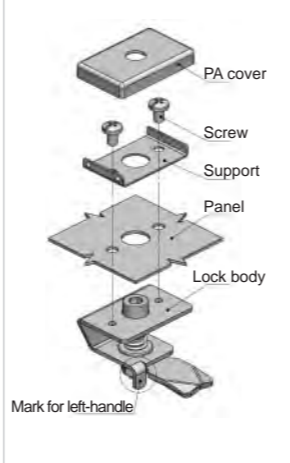
**Main material and finish:** White zinc-plated steel housing cam and shaft , PA cap

**Application:** Quarter-turn opening or closing

**Default cam :** S1K45Y00001

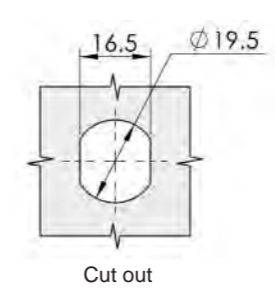
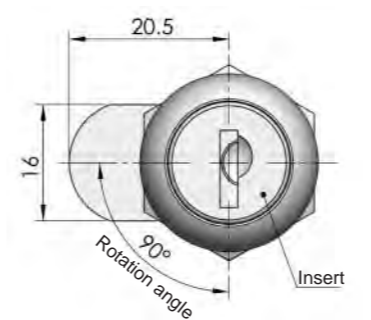
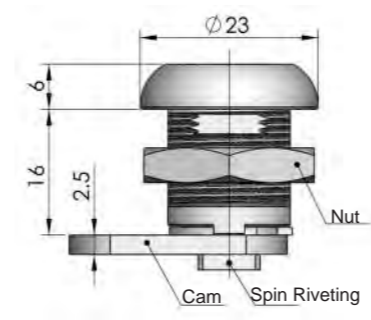


**Exploded view**



Specification	Model	ERP
Close from left rotation	MS742-Z	MS742F3D000001
Close from right rotation	MS742-Y	MS742F3D000002

Remarks : Default cam S1K4500



**ERP** MS744Z3D160002  
Remarks : Default cam S1B2000 ( cut out 8x8 )



**MS744**

**RL IP40**

**Main material and finish:** White zinc-plated ZDC housing and steel cam

**Application:** Quarter-turn opening or closing

**Remarks:** Default key K160

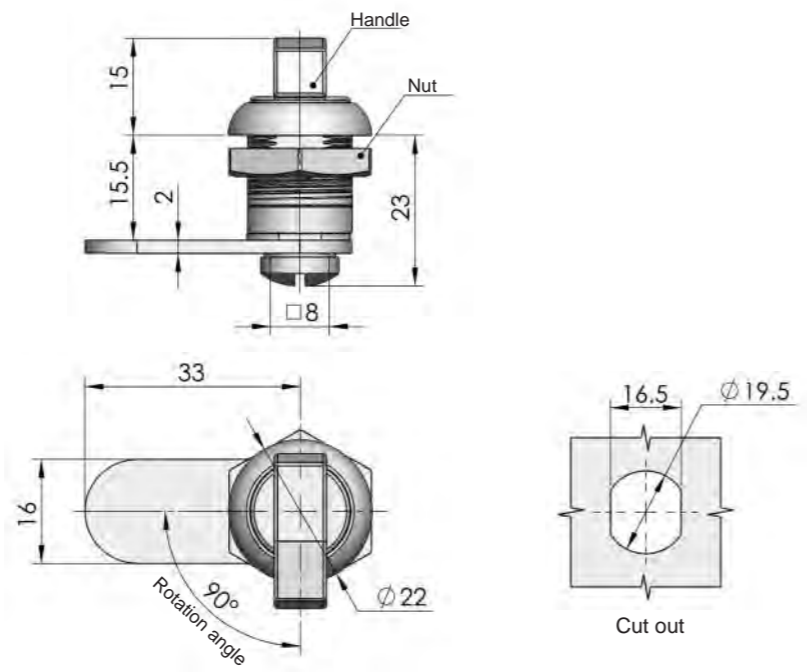
**Default cam :** S1B20Y00001

Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket



**RL IP40**

**Main material and finish:** Bright chrome-plated ZDC housing, white zinc-plated steel cam  
**Application:** Quarter-turn opening or closing  
**Remarks:** Default key K080  
**Default cam :** S1B33Y00005

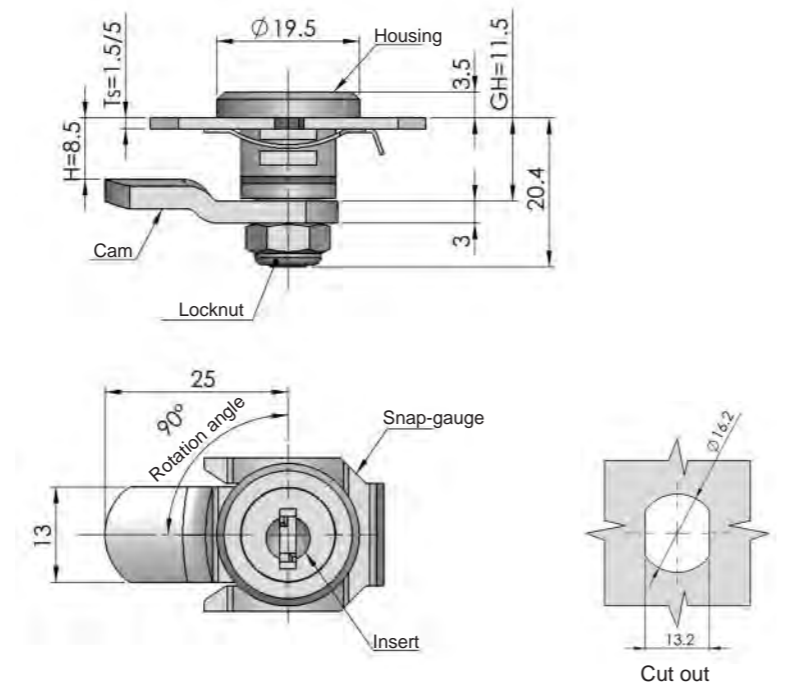


Specification	Model	ERP
With insert	MS745-1	MS745Z3A080001
Knob	MS745-2	MS745Z3A000001

Remarks : Default cam S1B3300



**Material and finish:** Pocked black powder coated ZDC housing and insert, white zinc plated steel cam  
**Remarks:** Default key K40

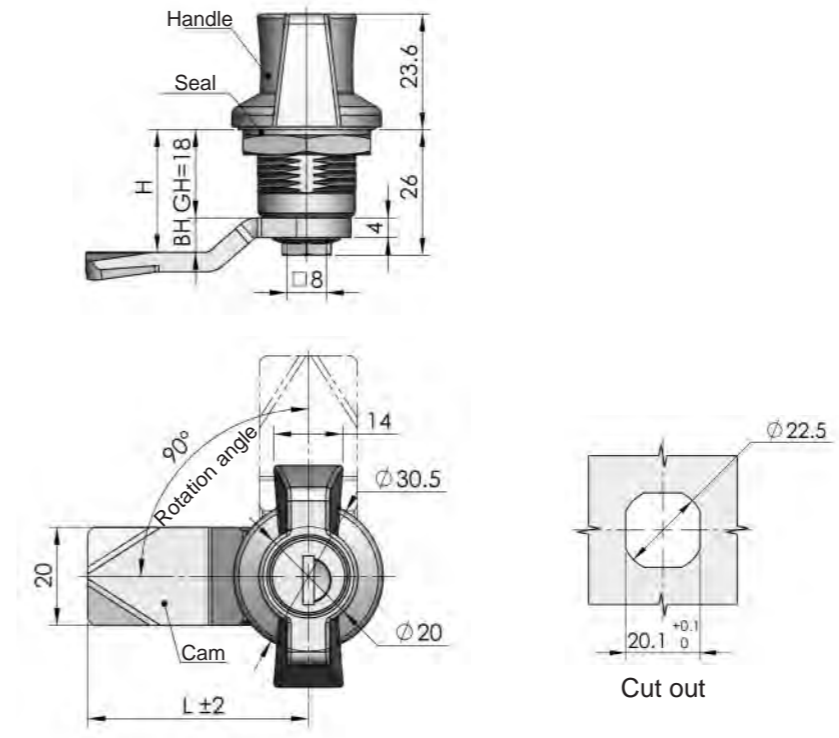


<b>ERP</b>	MS746Z1B400001
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**RL IP54**

**Main material and finish:** Black powder-coated ZDC housing, handle and insert, white zinc plated steel cam  
**Application:** Quarter-turn opening or closing  
**Remarks:** Default key K160  
**Default cam :** S1B45Y07002



Black powder coated housing		Bright chrome-plated housing	
Model	ERP	Model	ERP
MS748-1	MS748Z1A040005	MS748-1	MS748Z3A160009
MS748-2	MS748Z1A160011	MS748-2	MS748Z3A160002

Remarks : Default cam:S1B4500 ( cut out 8x8 )

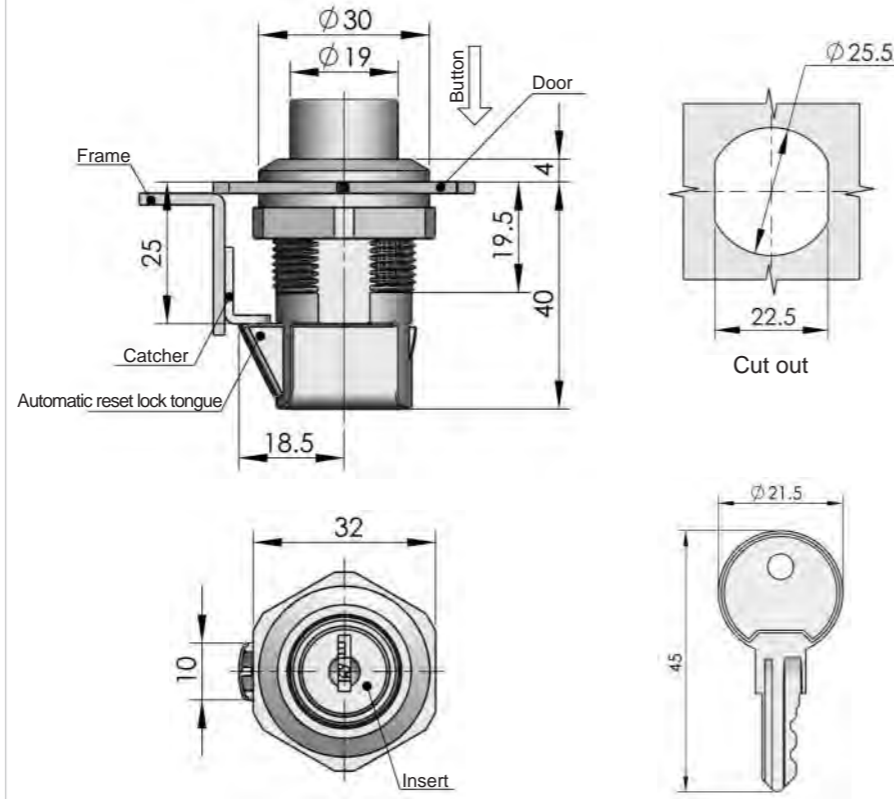
Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket

Accessories
Handle lock
<b>Cylinder lock</b>
Electronic lock
Swing handle
Rod control lock
Panel lock
Toggle and hook
Handles
Door stop
Hinge
Seal gasket

**MS753**

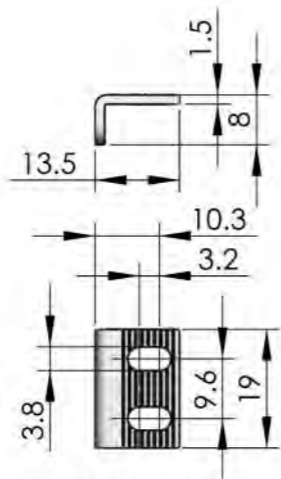


**Main material and finish:** Black PC housing, insert, shaft pipe and lock tongue  
**Application:** Automatic locked push type  
**Remarks:** Default key K160



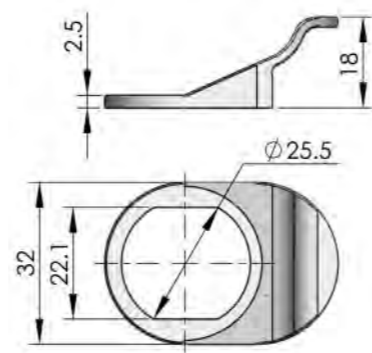
**ERP** MS753N00160001

**Catcher (Optional)**

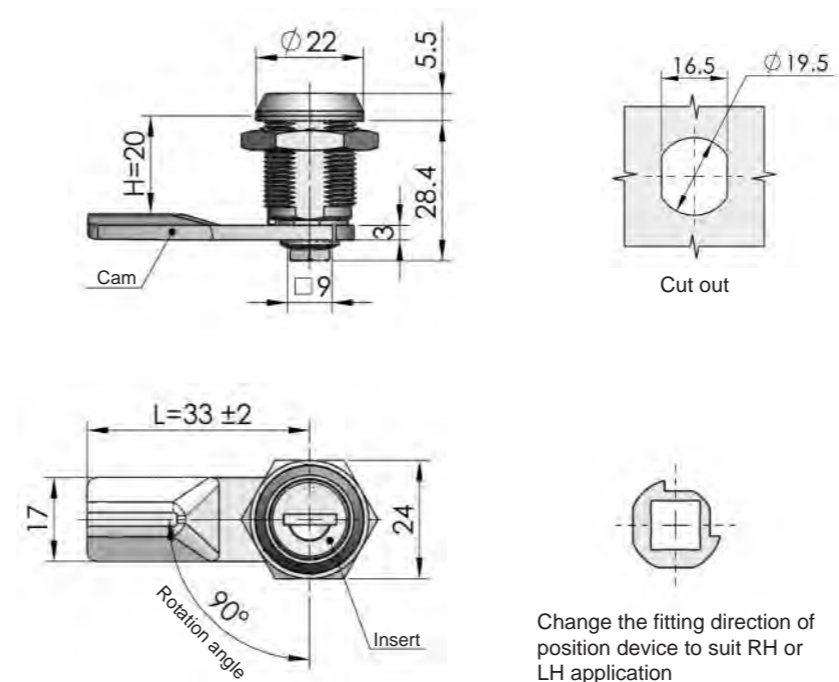


**ERP** 3658250001

**Handle pull (Optional)**

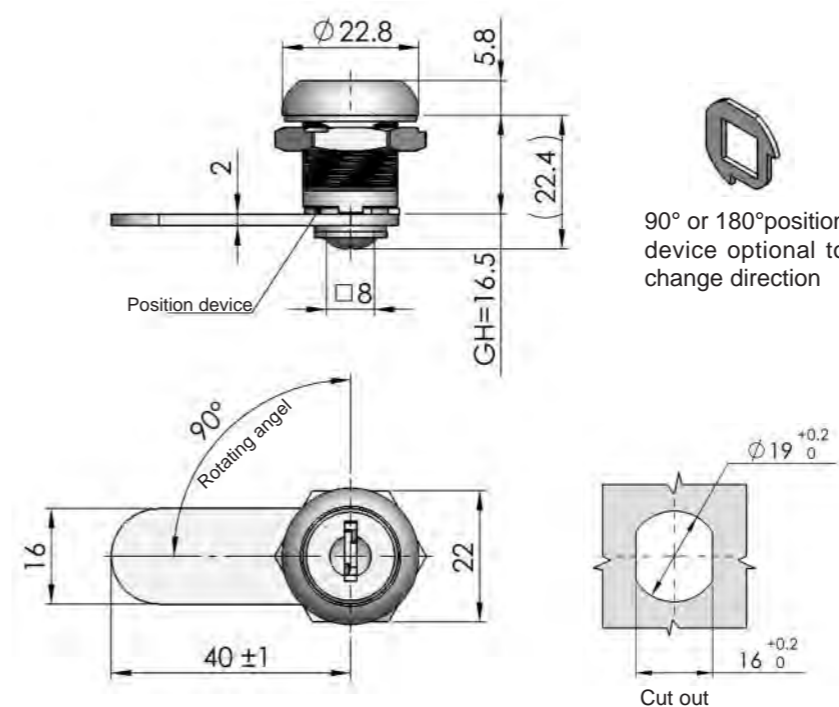


**ERP** 1150050002



**ERP** MS760Z3A160001

Remarks : Default cam S1V33N02



**ERP** MS775N00024001

Remarks : Default cam S1B4000

**MS760**

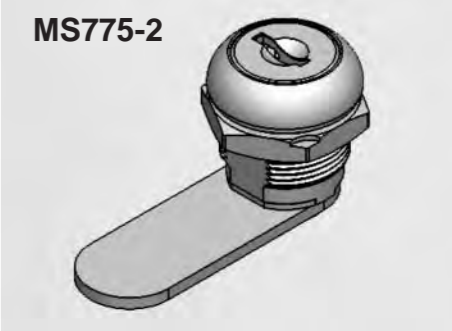


**RL IP54**

**Main material and finish:** Bright chrome-plated ZDC housing and insert, white zinc-plated steel cam  
**Application:** Quarter-turn opening or closing  
**Remarks:** Default key K160

**Default cam :** S1V33N02001

**MS775-2**



**RL IP55**

**Main material and finish:** Plastic housing and inset; white zinc plated ZDC nut, steel cam and screw; mirror polished stainless steel housing cap and inset cap  
**Remarks:** Default key K024

**Default cam :** S1B40Y00003

Accessories
Handle lock
Cylinder lock
Electronic lock
Swing handle
Rod control lock
Panel lock
Toggle and hook
Handles
Door stop
Hinge
Seal gasket



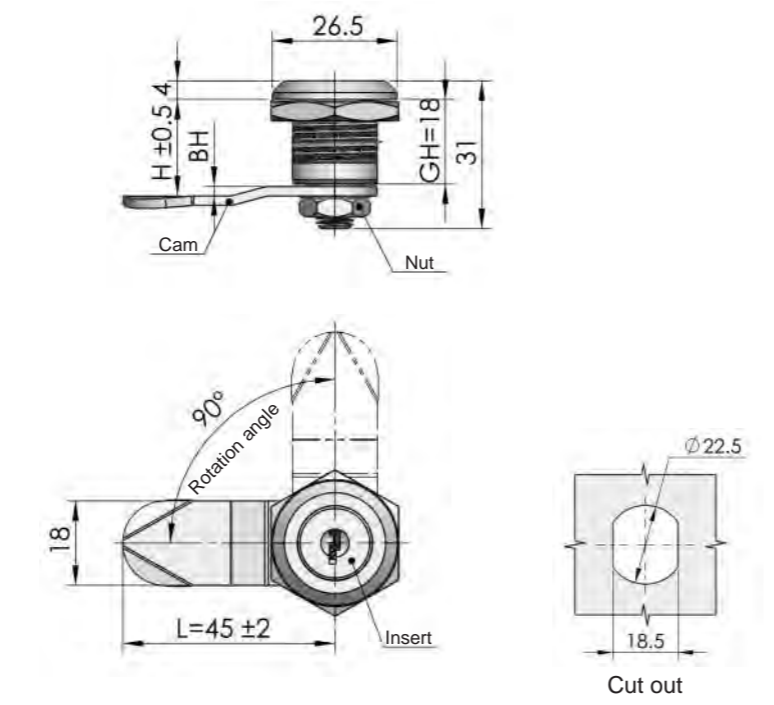
**MS802**

**Main material and finish:** Bright chrome-plated ZDC housing and insert, white zinc-plated steel cam

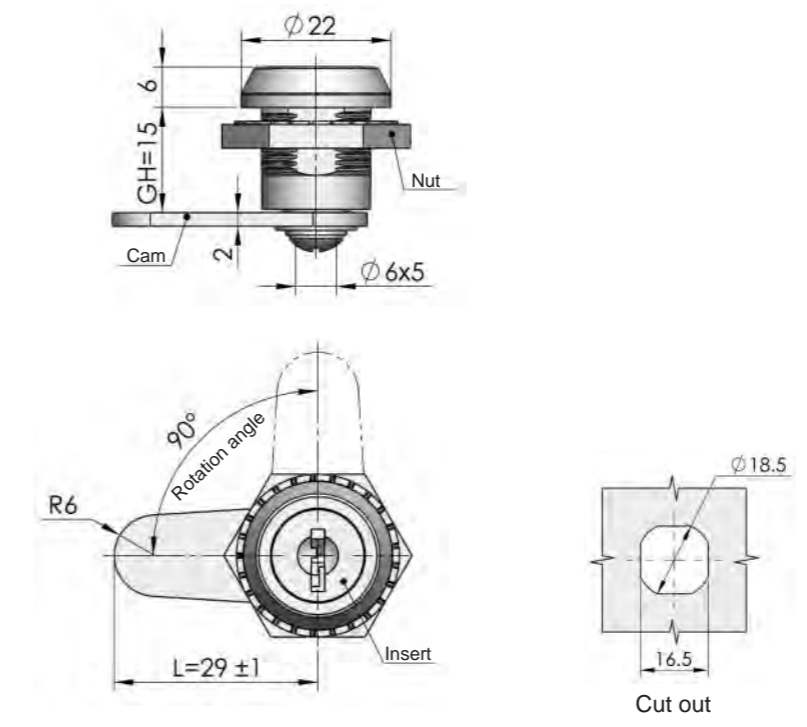
**Application:** Quarter-turn opening or closing

**Remarks:** Default key K050

**Default cam :** S1B45Y02001 (Ts=2)



**ERP** MS802Z3A050017  
Remarks : Default cam S1B4502 ( cut out 8x8 )



**ERP** MS806Z3A220011  
Remarks : Default cam S1G2900



**MS806**

**Main material and finish:** Bright chrome-plated ZDC housing, insert, white zinc-plated steel cam

**Application:** Quarter-turn opening or closing

**Remarks:** Default key K220

**Default cam :** S1G29Y00001

Accessories
Handle lock
Cylinder lock
Electronic lock
Swing handle
Rod control lock
Panel lock
Toggle and hook
Handles
Door stop
Hinge
Seal gasket



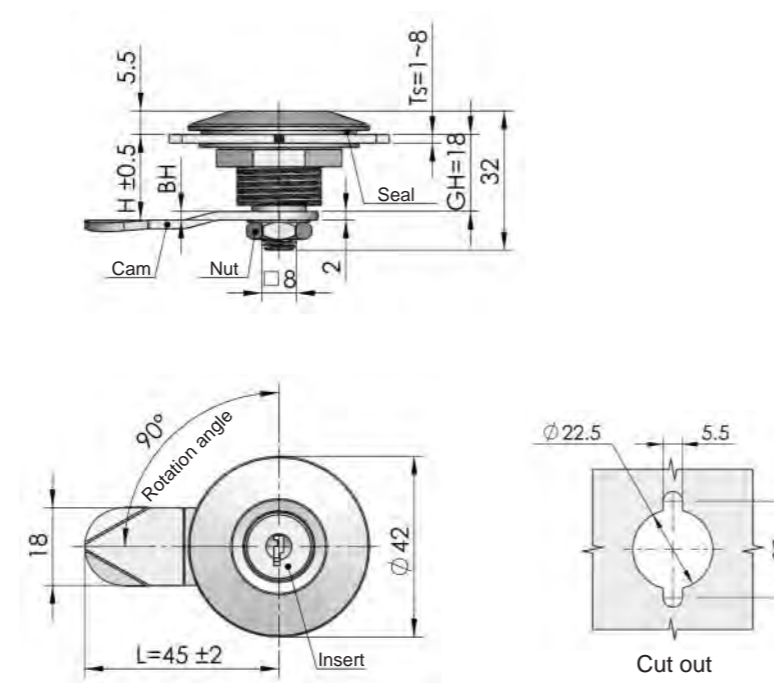
**MS804**

**Main material and finish:** Bright chrome-plated ZDC housing and insert, white zinc-plated steel cam

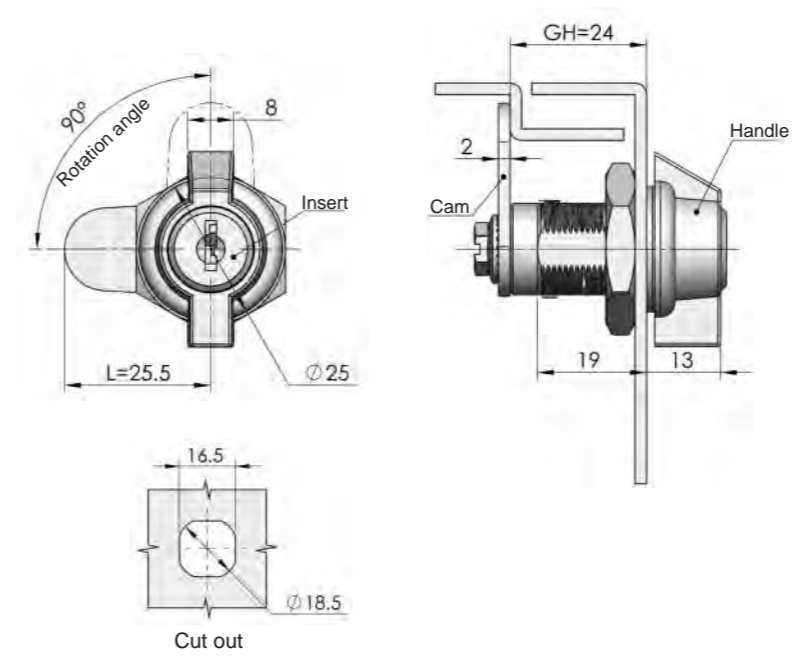
**Application:** Quarter-turn opening or closing

**Remarks:** Default key K050

**Default cam :** S1B45Y02001 (Ts=2)



**ERP** MS804Z3A050008  
Remarks : Default cam S1B4502 ( cut out 8x8 )



**ERP** MS815Z2A240001  
Remarks : Default cam S1B2600 ( cut out 8x8 )



**MS815-1**

**IP54**

**Main material and finish:** Black painted ZDC housing and handle, white zinc plated steel cam

**Application:** Quarter turn opening or closing

**Remarks:** Default key K240

**Default cam :** S1B26Y00001



**MS815-2**

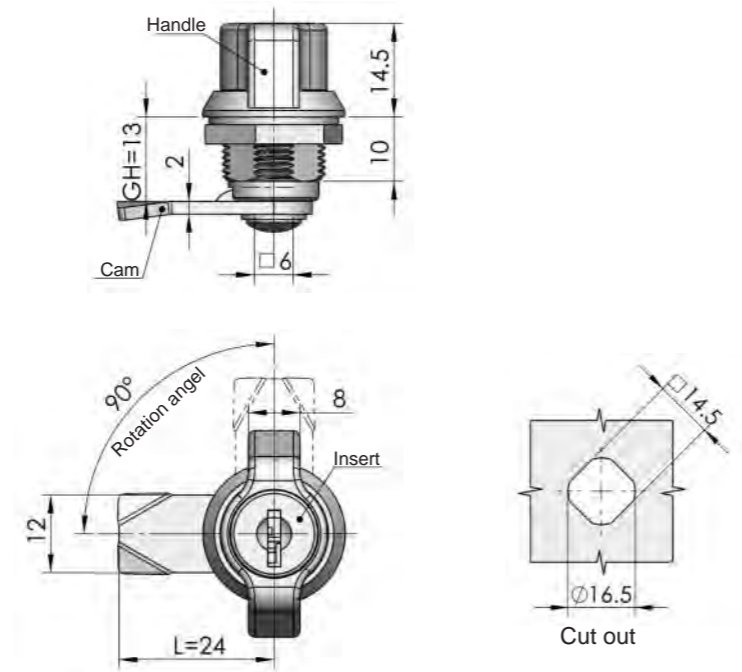
**IP54**

**Main material and finish:** Black painted ZDC housing and handle, white zinc plated steel cam

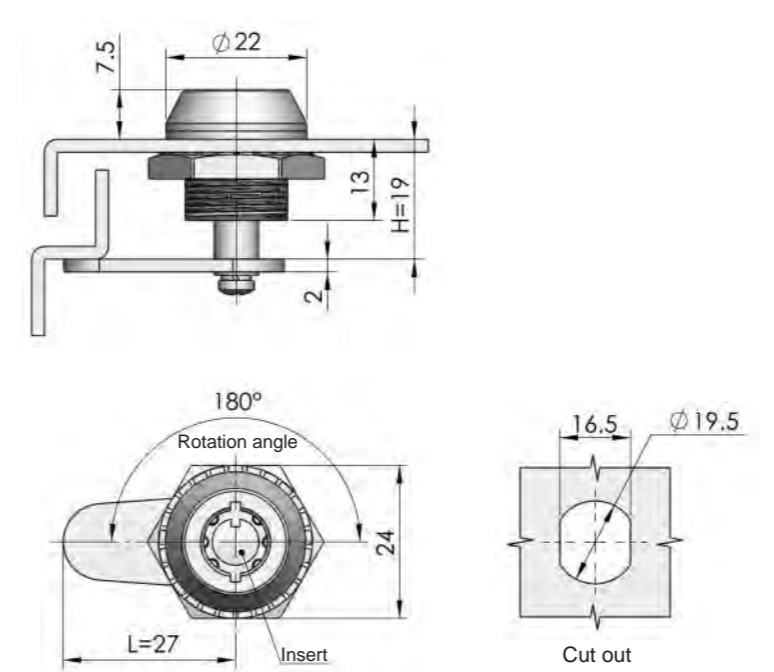
**Application:** Quarter turn opening or closing

**Remarks:** Default key K170

**Default cam:** S1V24Y00002



**ERP** MS815Z2A170002  
Remarks : Default cam S1V2400



**ERP** MS824Z3A000001  
Remarks : Default cam S1V2700



**MS824**

**Main material and finish:** Bright chrome-plated ZDC housing, insert and white zinc-plated steel cam

**Application:** 180 degree rotation opening or closing

**Default cam :** S1V27Y00001



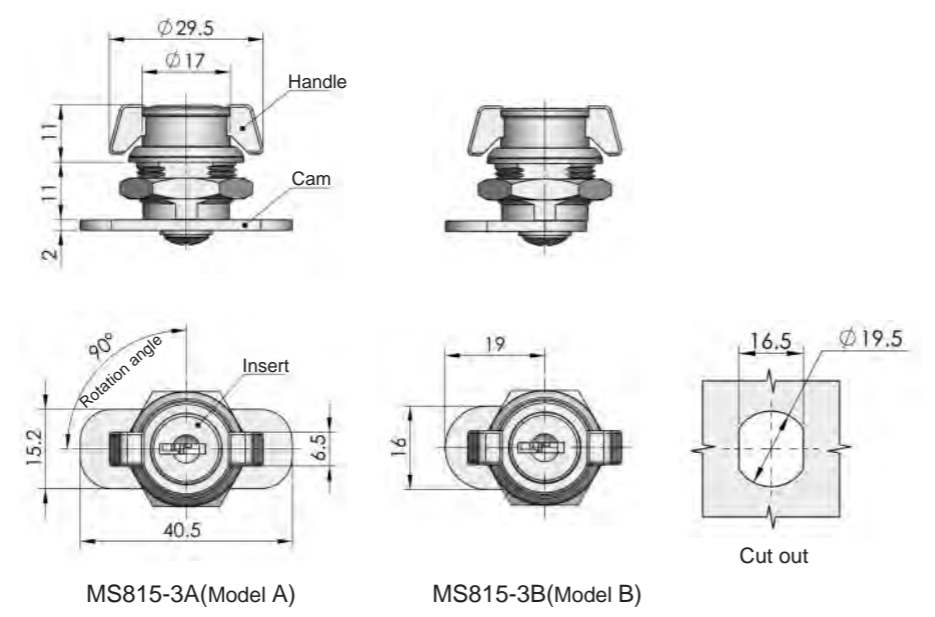
**MS815-3**

**Main material and finish:** ZDC housing, insert and steel cam

**Application:** Quarter-turn opening or closing

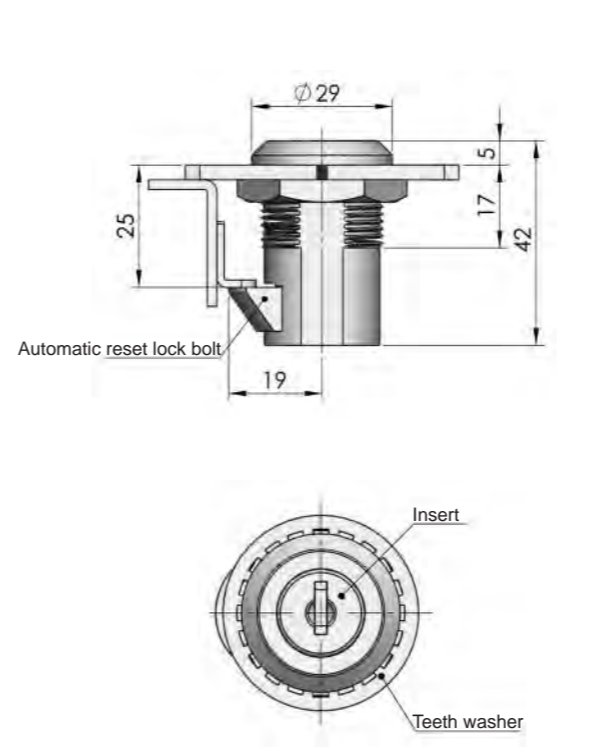
**Remarks:** Default key K170

**Default cam :** S1W20Y00001 (Model A)  
S1W19Y00001 (Model B)

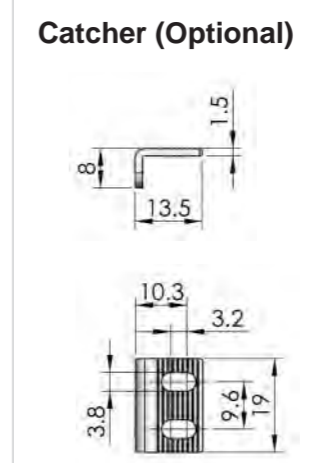


Specification	Model	ERP	
		Painted (matt black) housing	Bright chrome-plated housing
Model A	MS815-3A	MS815Z1A170003	MS815Z3A170003
Model B	MS815-3B	MS815Z1A170004	MS815Z3A170004

Remarks: Cam cut out  $\phi 7*5.5$



**ERP** MS825Z3A160001



**MS825**

**Main material and finish:** Bright chrome-plated ZDC housing, insert and lock bolt, white zinc-plated ZDC lock bolt

**Application:** Automatic reset locked

**Remarks:** Default key K160

ELECTRONIC LOCK SERIES

- Accessories
- Handle lock
- Cylinder lock
- Electronic lock
- Swing handle
- Rod control lock
- Panel lock
- Toggle and hook
- Handles
- Door stop
- Hinge
- Seal gasket

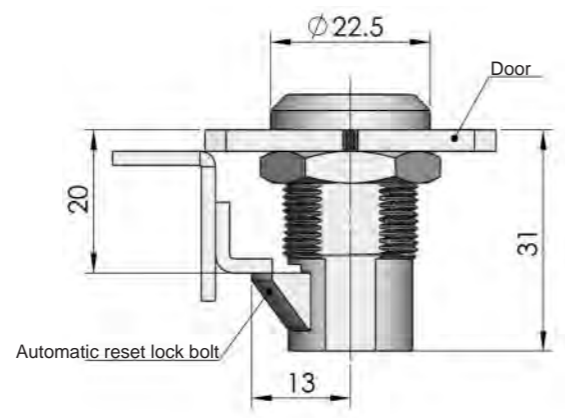


**MS826**

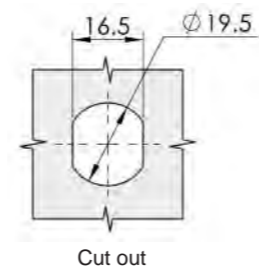
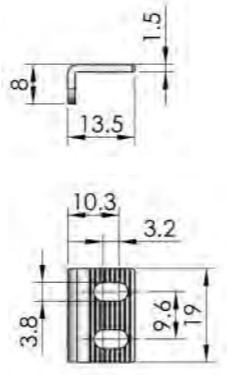
**Main material and finish:** Bright chrome-plated ZDC housing, insert and lock-tongue, white ZDC zinc-plated lock tongue

**Application:** Automatic reset locked

**Remarks:** Default key K160



Catcher (Optional)



ERP	MS826Z3A160001
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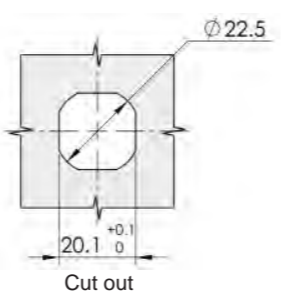
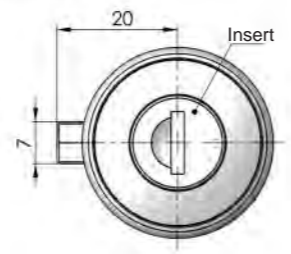
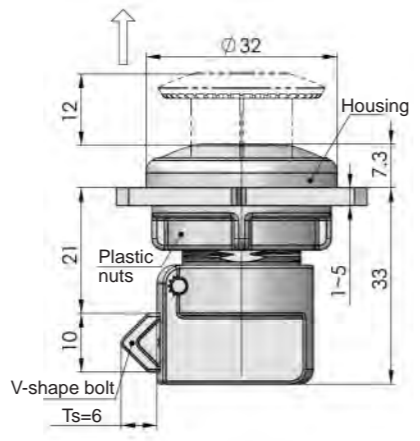


**MS793**

**Main material and finish:** Bright chrome plated ZDC housing, plastic lock bolt

**Application:** Rotate the insert 90° and handle pop out to be pulled and opened; press down the handle, insert rotate back to 90° and close

**Remarks:** Default key K160

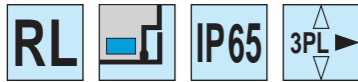


	MS793-1 With insert	MS793-2 Without insert
ERP	MS793Z3A160001	MS793Z3A000001





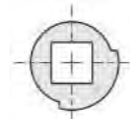
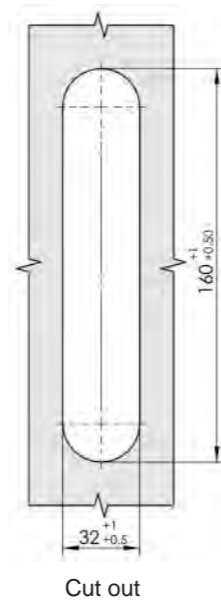
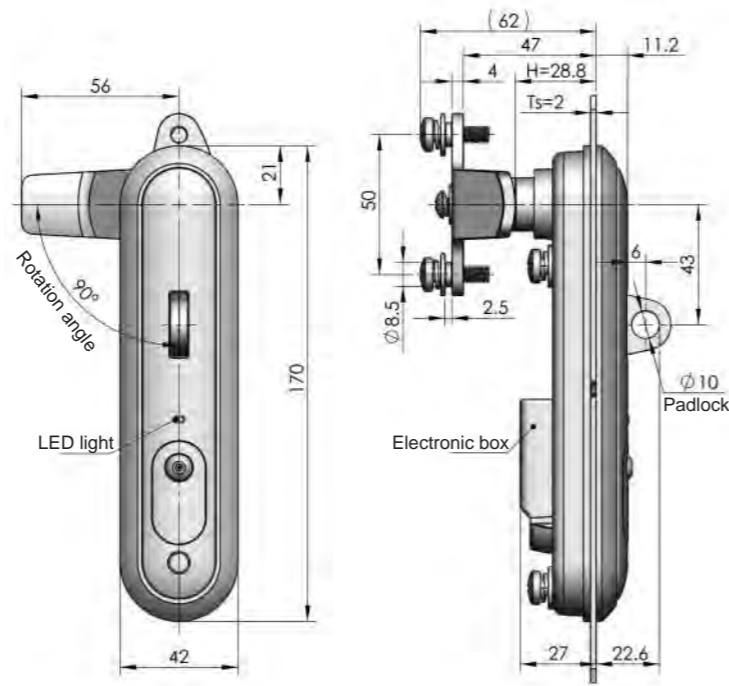
**MS864-8**



**Main material and finish:** Black painted (high salt mist resistant) ZDC housing, handle, stainless steel cam

**Application:** Handle quarter-turn, one point locked stroke is 25mm, 3 point locked; without changing the structure, you can open the door either RH or LH by changing the direction of the position device; changing the part of electronic box, the electronic lock can become the mechanism lock.

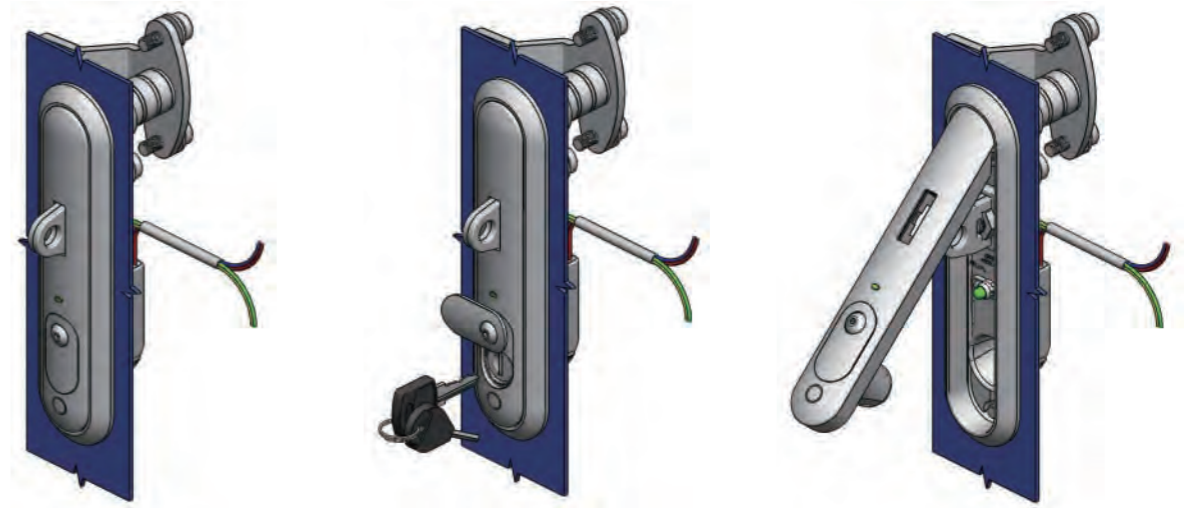
**Remarks:** Default key K052



Changing the direction of the position device to realize RH or LH

**Electronic Lock Instruction:**

1. Rated voltage DC12V, rated current 250-300 mA (electricity charged no more than 40 seconds).
2. Red line: positive; blue line: negative.
3. Green and yellow: signal line. Signal line off with lock opened, signal line on with lock closed.
4. Control mode: electronic lock can be connected with various type of controllers to control the locks' opening and closing. When the lock control line is not charged, lock is closed; when charged, lock is opened. The lock can not be charged for long time.



Close                      Mechanical open                      Open when supply with power

**Assemble Requirement:**

In the assembling process, the operator should wear gloves and not hammer the lock to avoid any possible damage to lock accessories.  
Make sure the door is horizontal when assembling. The fix hole on frame matches with the shape of lock. Do not hammer the lock and clear the surface of the lock by using chemical material to avoid corrosion the coating.  
After assembling, the lock should be horizontal to the door and vertical to the ground. The gaps between the lock and the cut out can reach waterproof IPX6 without being filled in with any glue.

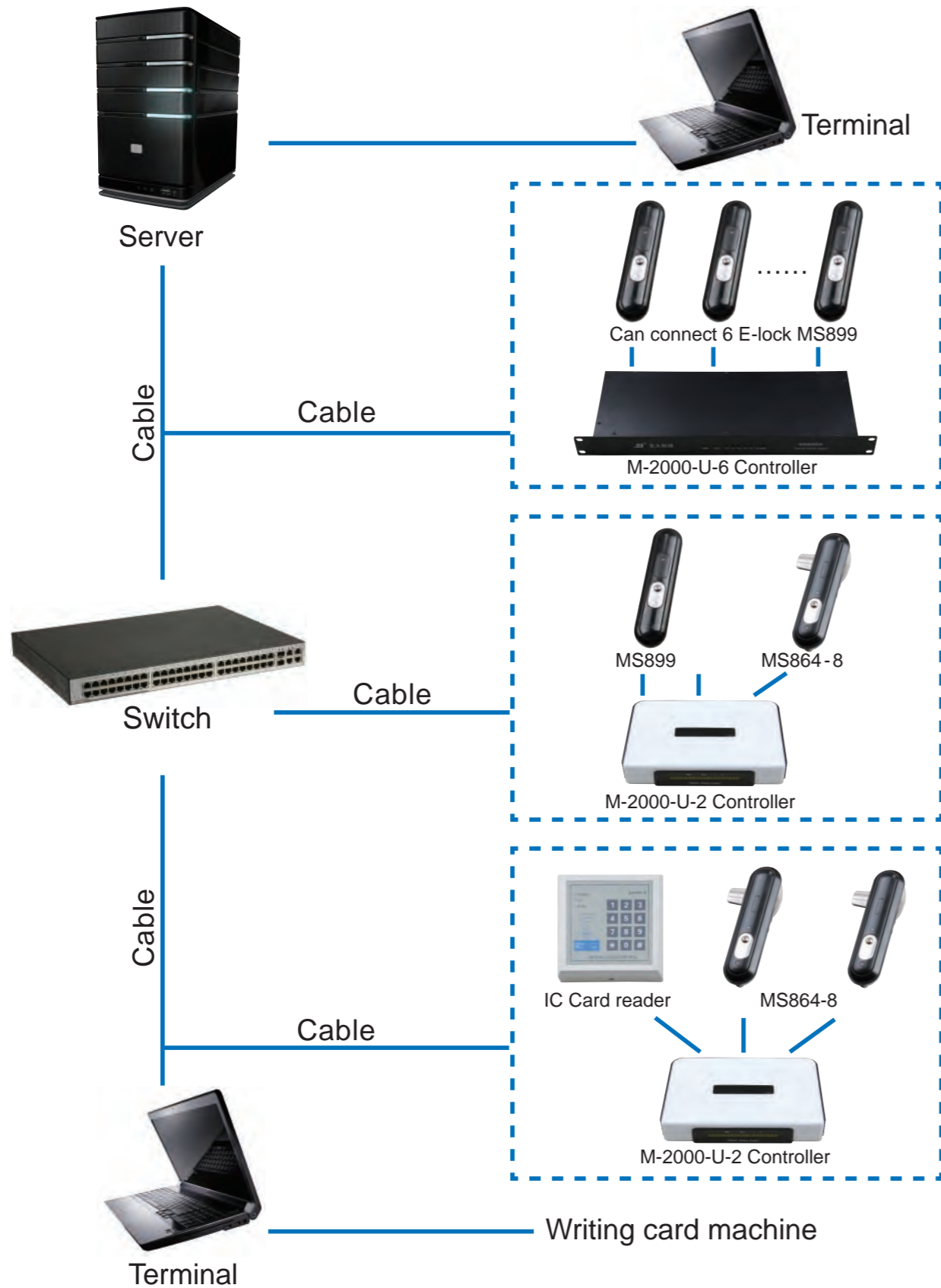
**Opening step:**

1. When power on, the green signal starts to shine.
2. Press the round position on swing handle, the swing handle will bounce from lock body. (If without press, the green signal is always shining to wait for opening, until power off).
3. Rotate the handle, drive the cam, rod etc to realize the open function.

Patent number: 200910097085.9

ERP					
Electronic lock			Mechanism lock		
Support	With padlock	Without padlock	Support	With padlock	Without padlock
Metal support	MS864Z2E052019	MS864Z2E052017	Metal support	MS864Z2E052003	MS864Z2E052001
PA support	MS864Z2E052020	MS864Z2E052018	PA support	MS864Z2E052004	MS864Z2E052005

### IC Card cabinet lock network control system



### Brief Introduction of IC Card Cabinet Network Control System

IC card cabinet network control system is intelligent detection control systems that can remote control the cabinet door through the network. The site operators can open the corresponding cabinet door by using the authorized password or IC card. Different doors can use different password or IC card. IC card can set different levels and validity. Different levels of IC card can open different range of cabinet locks. Setting validity can effectively manage the operators: overdue card cannot open the door so that we can prevent illegally open by resigning staff, and we can manage temporary. If the operator forget to take the card (or other reasons), he can call backstage crew to remote open the door. If the operator lose the card, he can remote report the loss. And the system has sensor to show the state of the door and lock. If someone illegally open or long time open the door, it will alarm. The system can promote the efficiency of the management and the security of the door. It is inevitable trend of high grade cabinets and base station.

IC card cabinet lock control system includes: 1 set of cabinet lock control software and several hardware subsystems. Hardware subsystem is made up of one cabinet lock control terminal, several cabinet locks, and one card swiping device or locks with such device. Card swiping device is connected with lock control terminal through 485 bus, and also through the cabinet lock control terminal conduct authentication, to control corresponding cabinet lock respectively. Cabinet lock control terminal is connected with cabinet lock management computer through a LAN or the Internet, wireless networks. Cabinet lock control terminal number can be set 256 area no. and 256 device no., 1 IP address, 1 port, a remote IP address and port, six switch outputs, six switch input interfaces, and a RS232 interface. The system communicate with computer by UDP protocol for better networking.

Swiping card standard: ISO/IEC 14443 TYPE A and compatible card reader. The card has 16 sectors, each with card of 64 bytes, which has very good confidentiality and uniqueness. It also can be written a variety of authorization information to meet customer demand and future extensions. Card and swiping device is with key management of both manufacturer and user, to ensure the reliability of the system. User key codes is made up of 12 digits from 0-9 and A-F letters, and is mastered by three researchers to enhance the security. At the same time it uses the uniqueness of the card number for card authorization to make gating system card certification technically uncrackable.

Software functions: user management, personnel management, card management, equipment management, detection and control management, report forms (on-site, remote, abnormal, etc.) management, system management, security management, etc. It's SQL SERVER database.

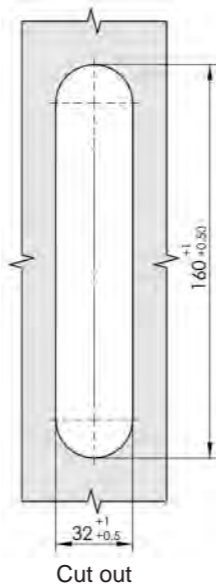
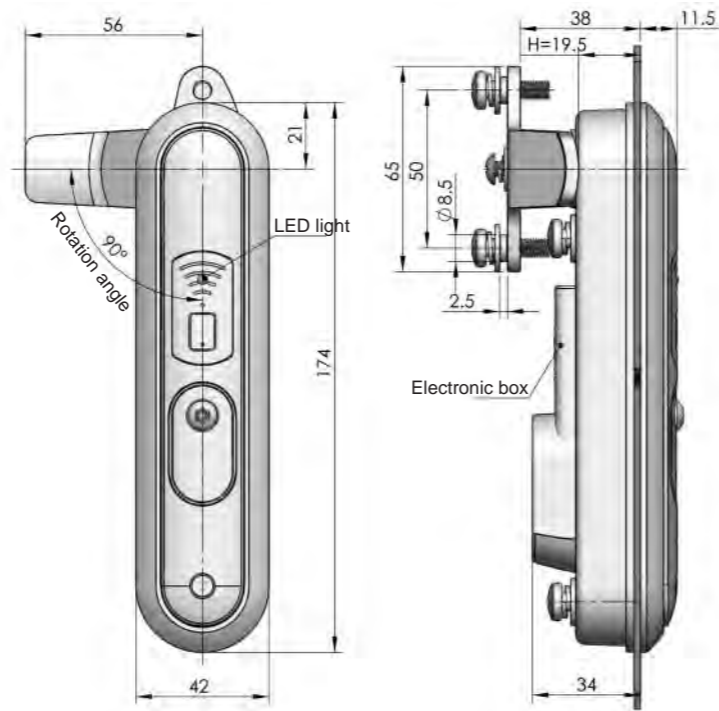
**MS899**



**Main material and finish:** Black painted (high salt mist resistant) ZDC housing, handle, stainless steel cam

**Application:** Handle quarter-turn, one point locked stroke is 25mm, 3 point locked; without changing the structure, you can open the door either RH or LH by changing the direction of the position device; changing the part of electronic box, the electronic lock can become the mechanism lock; the electronic lock has IC card to match with customer's control system

**Remarks:** Default cylinder TC03-6

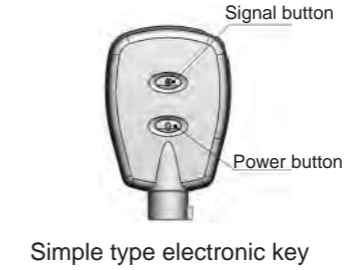


**IC card electronic lock operation instructions: red light, green light and buzzer**

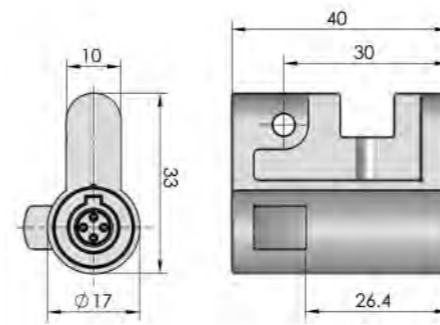
- Under locking condition, light is dark and buzzer is silent.
- When lock is opened, the buzzer make a short sound to indicates action of card swiping and the card device itself or controller will check card's identification meanwhile; if card is authorized, the buzzer make a long sound and green light shines&blinks to indicates the lock is successfully opened; meanwhile information of " successfully open" is sent out through RS485 communication interface. While the buzzer let out two short sounds, it means the card is not applicable or IC card is done wrongly that card device can not receive right information.
- Push the circular position on swing handle (if not pushed, green light blinks all the time to wait for operation until control line is out of electricity), the swing handle will bounce from lock body and rotate to drive the cam,rod and other mechanism motion to complete lock opening action. When lock is opened (in whatever way, normally or abnormally), red light is long time bright. If lock is opened under abnormal condition, information of " abnormally open" will be sent out through RS485 communication interface.
- Close the lock and red light goes out after shining 5 seconds.

ERP

MS784Z3D000002



Simple type electronic key



Password type electronic key

**Usage of simple type hand-held electronic key :**

- Press "\*" key to switch on the electronic key. The red light will light every second.
- Press "#" key to deliver the open signal, the green light is long bright and red light blinks rapidly.
- After the electronic key is inserted into the lock, if the verification is correct, the green & red light flash synchronously, meanwhile the key can drive the electronic insert rotating to open the lock. If the verification is incorrect, the green light is on and red light flash rapidly; the electronic key can not open the electronic insert.
- To switch off, the key should be pushed "\*" again to return to the first step. The red light will light every second, and then it will be automatically closed after 10 seconds. If you do not Press the key, the red light will keep blinking in the lock-opened situation and 10 seconds later it close automatically.
- Can replace SJ TC01, TC02, and TC03 series.

**Usage of password type hand-held electronic key**

- Press "\*" key to switch on the electronic key. The red light will light every second.
- Then Press key "123412#" successively to deliver the open signal, the red and green light will blink rapidly.
- After the electronic key is inserted into the lock, if the verification is correct, the green & red light flash synchronously, meanwhile the key can drive the electronic insert rotating to open the lock. If the verification is incorrect, the green light is on and red light flash rapidly; the electronic key can not open the electronic insert.
- To switch off, the key "\*" should be pushed again to return to the first step. The red light will light every second, and then it will be automatically closed after 10 seconds. If you do not Press the key, the red light will keep blinking in the lock-opened situation and 10 seconds later it close automatically.
- Can replace SJ TC01, TC02, and TC03 series.

**TC18 Lock end**



**Simple type electronic key**



**Password type electronic key**



**Lock end example**



Accessories
Handle lock
Cylinder lock
Electronic lock
Swing handle
Rod control lock
Panel lock
Toggle and hook
Handles
Door stop
Hinge
Seal gasket



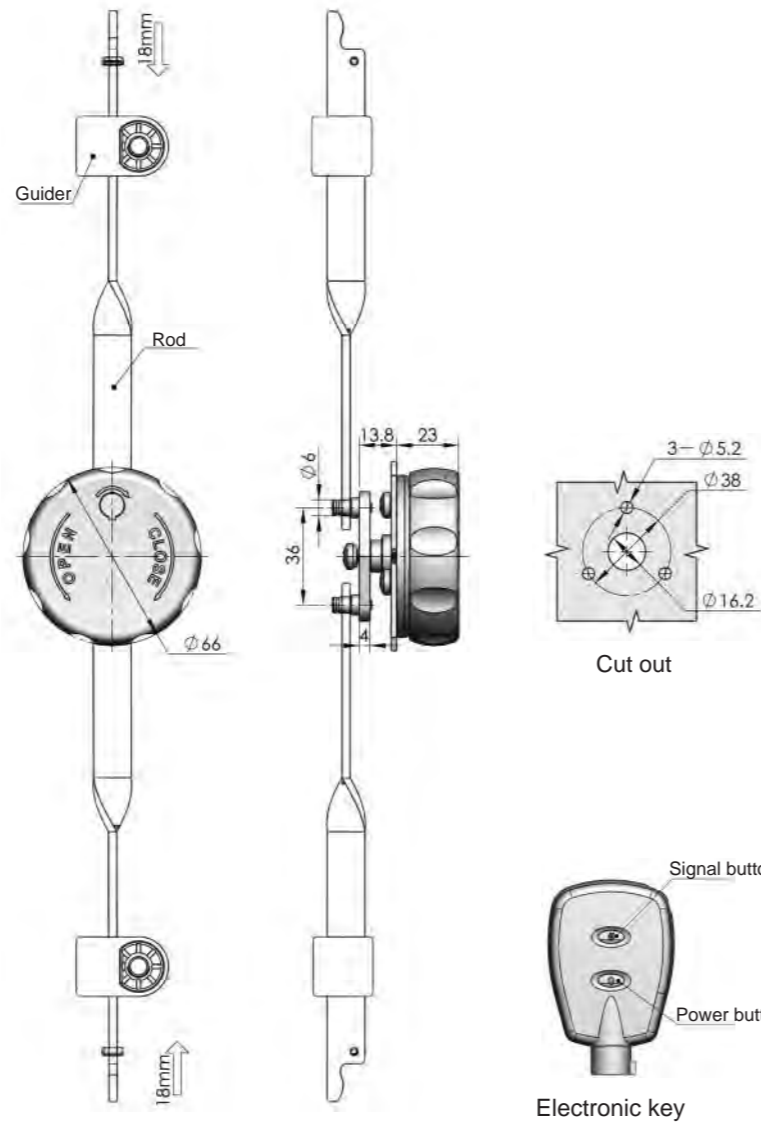
**MS901**

**Main material and finish:** Gray nanometer painted ZDC housing, button, white zinc-plated steel cam and rod

**Application:** For more details, see the instruction with the product

**Remarks:** With special electronic key

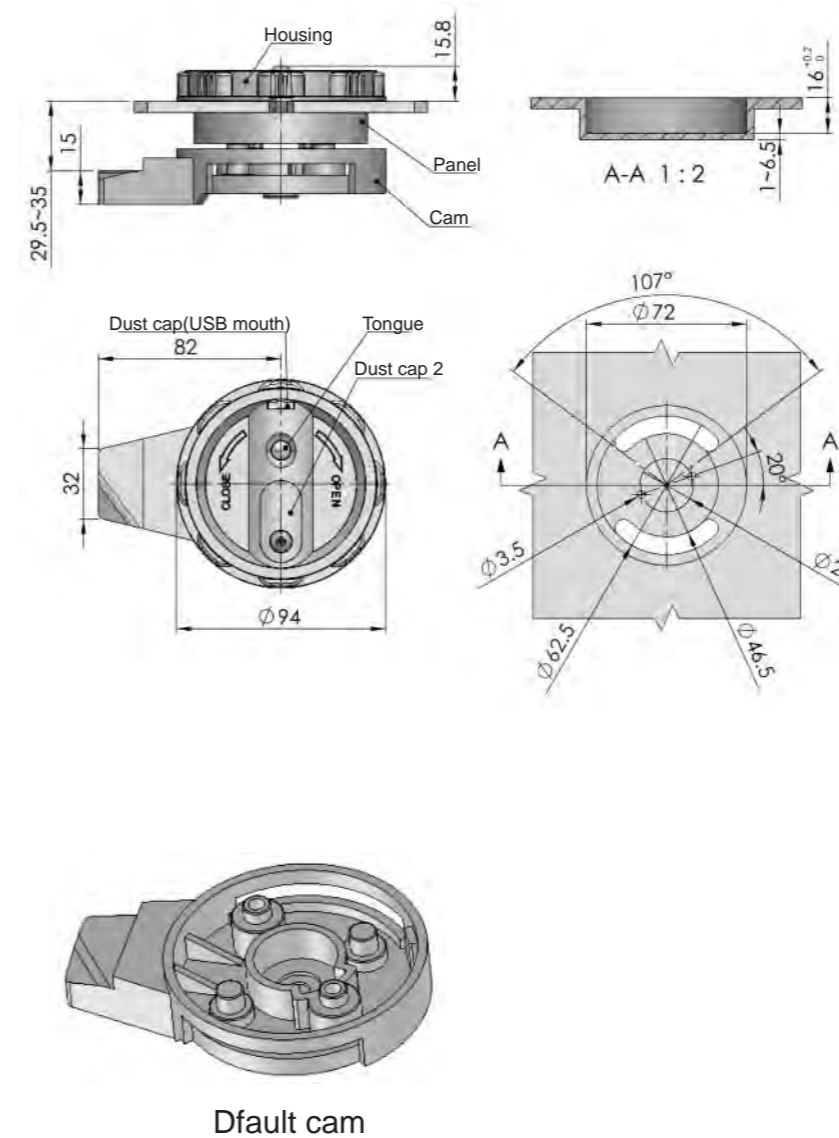
**New Item, Pls Kindly Contact Our Engineers Before Order.**



**The Simple Handhold Electronic Key Instruction:**

- 1, Press "\*" key to switch on the electronic key. The red light will light every second.
- 2, Press "#" key to deliver the open signal. The red and green light will blink rapidly.
- 3, The handhold electronic key locate to the electronic insert. After the verification is correct, the key can drive the electronic insert rotation with some force. Meanwhile the red light will blink slow down, If the verification is incorrect, the handhold electronic key can't open the electronic insert.
- 4, When you want to switch off the electronic key, you can push "\*" key again returning the open state. The red will light every second, then it will be closed automatically in 10 seconds. If you don't Press the key, the red light will keep blinking in the open lock situation, 10 seconds later to close automatically

ERP MS901Z2B000001  
Remarks: Cam cutout square 8mm



**Electronic lock instruction:**

1. Use signal input device to pull off the housing dust cap, insert housing USB mouth.
2. When signal input device and lock connect successfully, there is yellow light shine in the signal input device, wait 3-6s, the housing tongue will bounce automatically.
3. Turn along "OPEN" direction 90 degree, to realize open function.
4. Turn along "CLOSE" direction 90 degree, to realize close function.
5. Pull off signal input device, and press the housing tongue.

Remark: When it is in opening process, it is not allowed to pull off signal input device, it needs to wait lock opening finished.

ERP MS903N00000001



**MS903**

**Main material and finish:** PA housing and cam, stainless steel tongue.

**Application:** Housing rotate 90 to realize open and close function.

**Remark:** Default electronic key is signal input device; it is with mechanism lock core, to open by hand with default key K16.

**New Item, Pls Kindly Contact Our Engineers Before Order.**

Accessories
Handle lock
Cylinder lock
Electronic lock
Swing handle
Rod control lock
Panel lock
Toggle and hook
Handles
Door stop
Hinge
Seal gasket

**MS712-5**



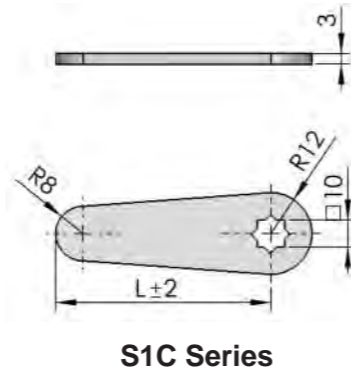
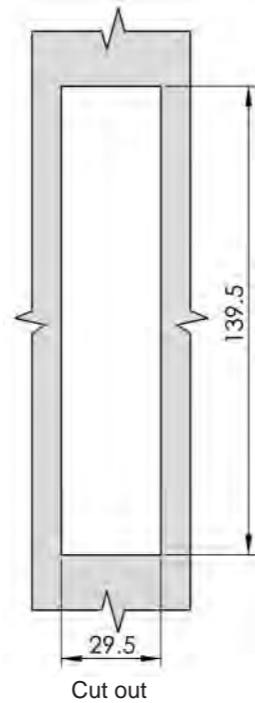
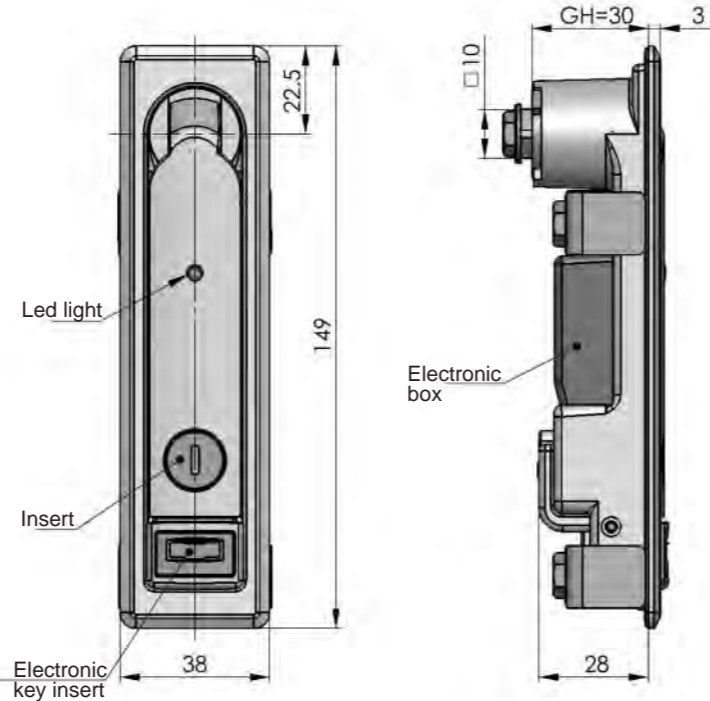
**RL IP54**

**Main material and finish:** Nanometer ZDC housing, handle, white zinc-plated steel support and cam.

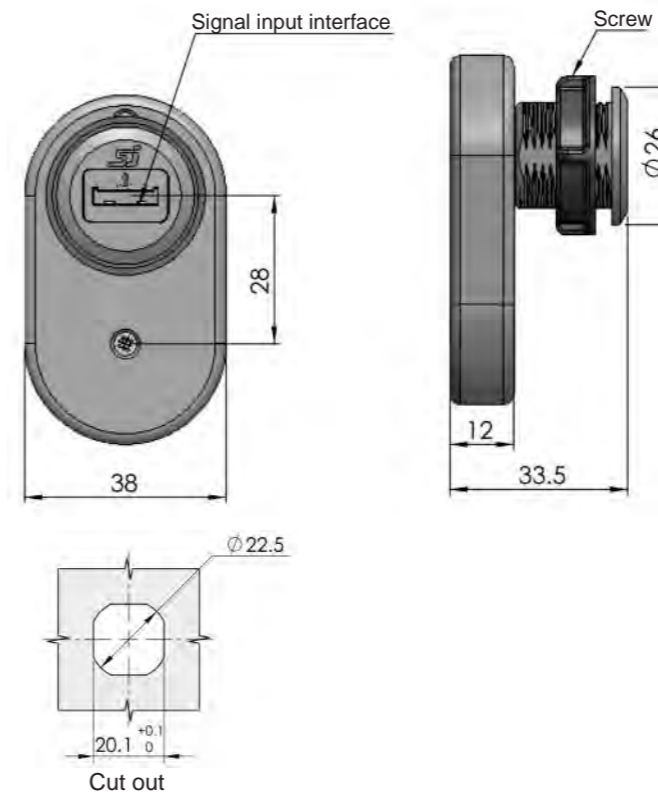
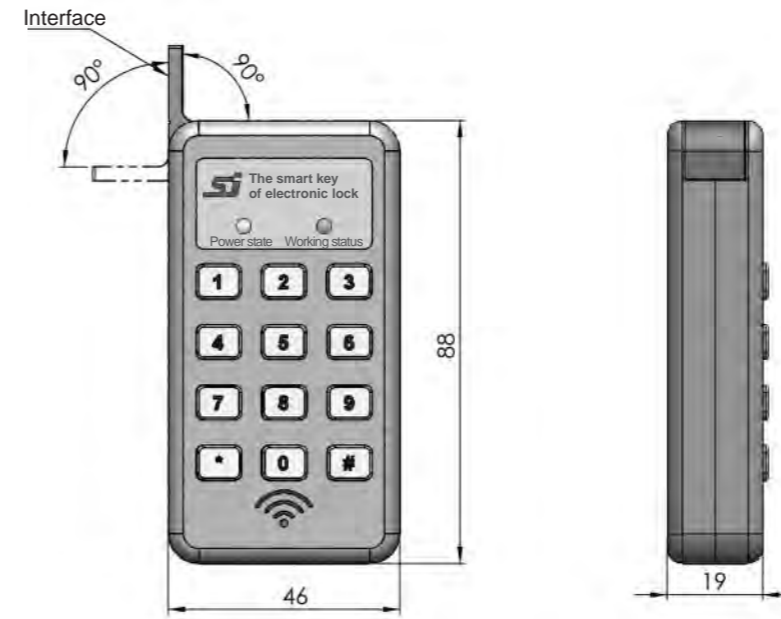
**Application:**  
Rated voltage of 3.6 V/DC, rated current 100mA, LED light is bright after electronic lock is charged and handle is bounced automatically.

**Remarks:**  
1.Voltage DC 3.6V, Current 100mA.  
2.Motor control.  
3.Through Electronic smart key to control the locks' open. This lock attaches a mechanical lock Cylinder and can be opened by a mechanical lock.  
4.Open mode: password open, credit card open, remote control open.  
5.Details see the product Instructions.  
6.During lock opening process, do not pull out signal input device until the opening action finishes.

**New Item, Pls Kindly Contact Our Engineers Before Order.**



**S1C Series**



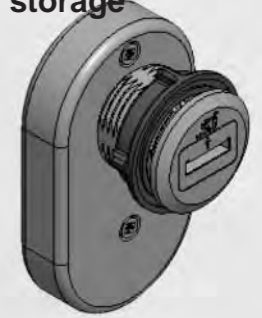
**Signal Input**



**Main material:** ABS upper and lower shell

**Remarks:**  
1.Voltage DC of the electronic smart Key is 3.6V  
2.Can be used directly with the MS712-4 electronic lock. Also can be used supportly with other electronic lock through Signal memory interface  
3.Can connected to the computer directly to read and manage the information of the signal input.  
(Details see the enclosed instructions)

**Signal storage**



**Main materia:** PA6+15% housing and Front and rear cover.

**Remarks:** 1.To determine the signal acquisition ( through determining the signal right and wrong to control the action to the door lock drive section)  
2.Storage the record information( open time, staff number and open way)  
3.Monitor and Feedback the information.( the cabinets inside's temperature,humidity, smoke,etc.)

**ERP** MS712Z2B040044  
Default cam: S1C7200 cam

Accessories
Handle lock
Cylinder lock
Electronic lock
Swing handle
Rod control lock
Panel lock
Toggle and hook
Handles
Door stop
Hinge
Seal gasket

**MS713-4**

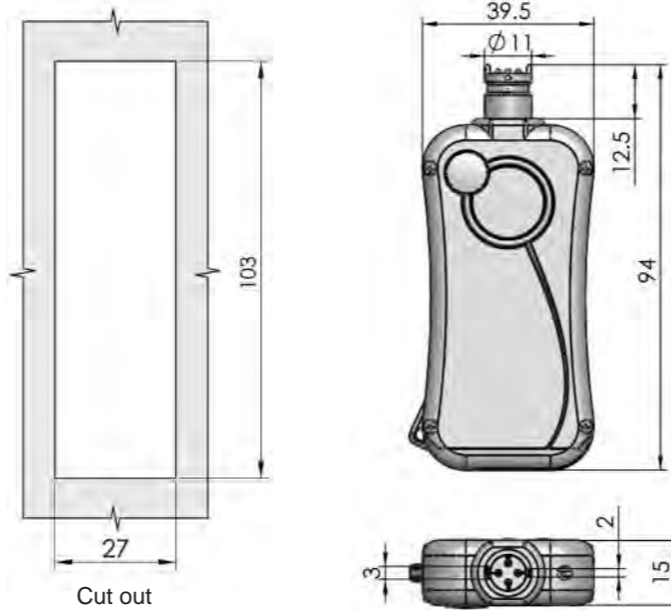
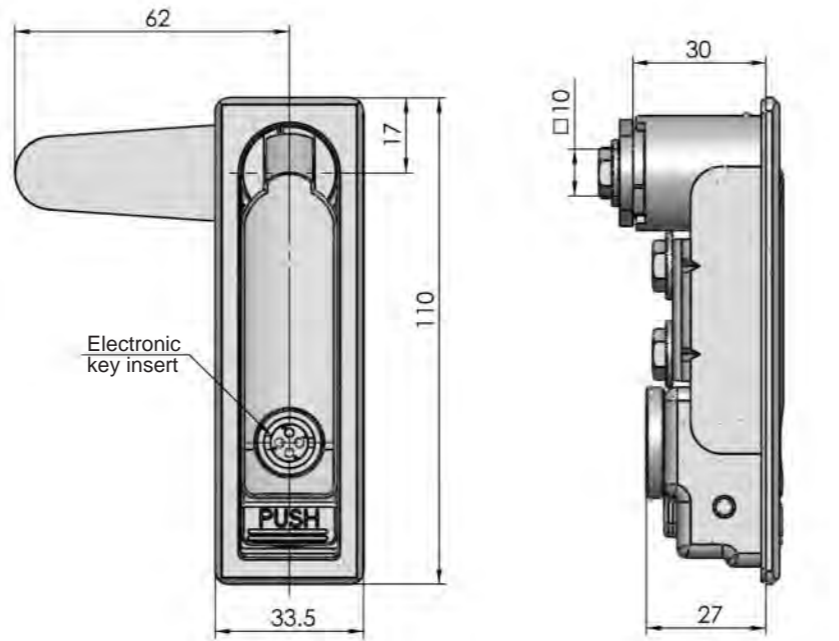


**Material:** Nanometer ZDC housing, handle and bright chromed lock cylinder set, white zinc plated cam.

**Application:**  
Handle up 45° and then rotate 90° degree to drive steel cam to realize open and locking. Change the angle of cam and position device to realize LH or RH

**Feature:**  
MS713-4 e-lock has no power itself and it is micro power driven. It is consist of special physical construction and electronic control part. The electronic control part is controlling module which locates in lock insert, and in charge of communicating and power getting with e-key. If lock number, key number and code are matched, the lock can open. Repetition rate of lock number is extremely low.

**New Item, Pls Kindly Contact Our Engineers Before Order.**

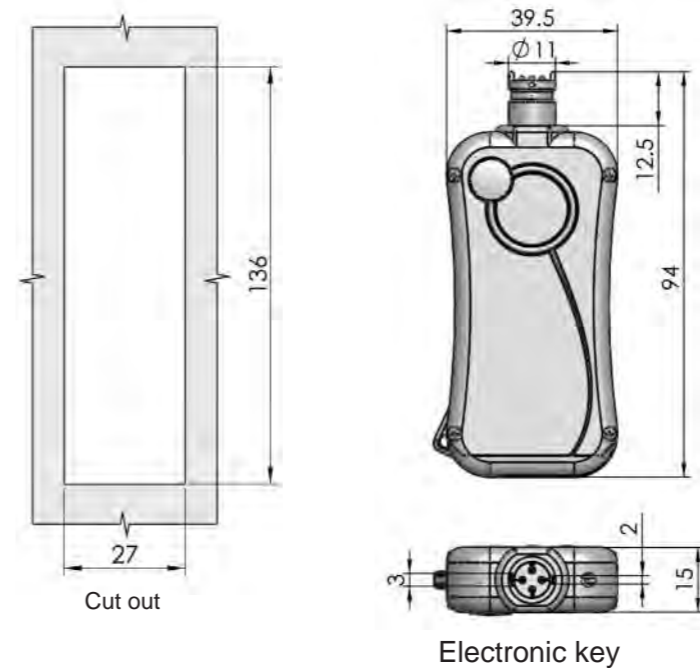
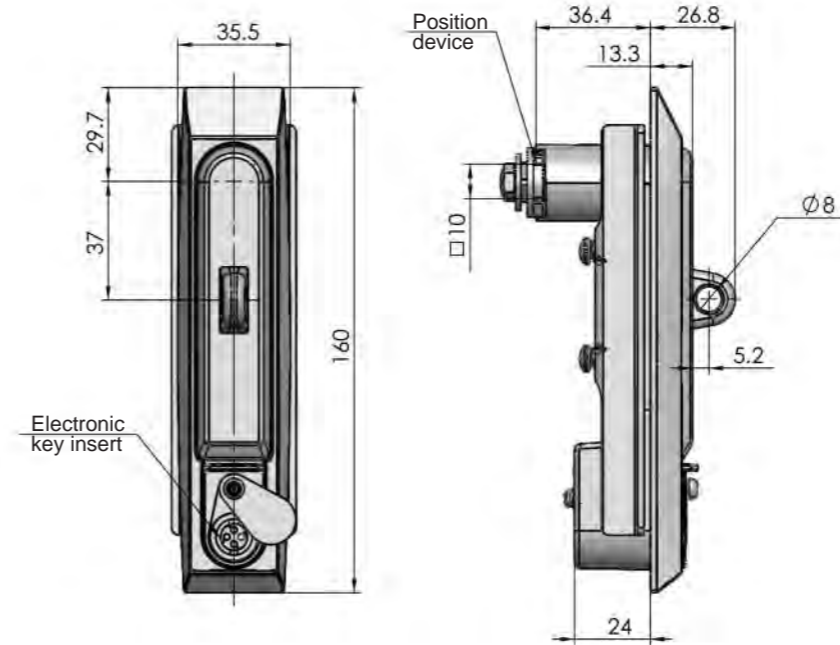


**Function and instruction:**

MS713-4 e-key gets power from 3pcs 1.5V dry cell and can open for thousands of times. It attaches electricity-lock remind function. E-key has only one button and without code, so it is easy to open. The e- key has permission and validity, and gets communication, time management and historical data saving function.

Press the button and LED light flicker, then put the key into electronic lock insert and rotate. After two short sounds, the lock is successfully opened. Otherwise, LED light keep flickering and lock can not be opened. Under opening state, if e-key is without operation within 30 second, it will auto off to save power. Of course, you can also use the LED light on the key as lighting tool when it's dark.

ERP MS713Z2B000003  
Default cam: S1C6200 cam

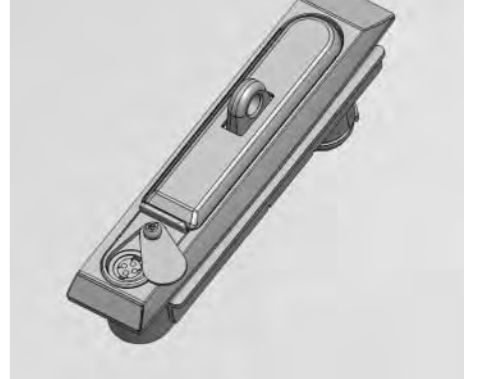


**Feature:**

MS834-7 e-lock has no power itself and it is micro power driven. It is consist of special physical construction and electronic control part. The electronic control part is controlling module which locates in lock insert, and in charge of communicating and power getting with e-key. If lock number, key number and code are matched, the lock can open. Repetition rate of lock number is extremely low.

ERP MS834Z1A000002

**MS834-7**



**Material:** Black painted ZDC housing and handle, bright chromed ZDC lock cylinder set, stainless steel support.

**Structure description:**  
Handle up 45° and then rotate 90° degree to drive steel cam to realize open and locking. Change the angle of cam and position device to realize LH or RH. Pad-lockable.

**New Item, Pls Kindly Contact Our Engineers Before Order.**

Accessories
Handle lock
Cylinder lock
Electronic lock
Swing handle
Rod control lock
Panel lock
Toggle and hook
Handles
Door stop
Hinge
Seal gasket

Accessories
Handle lock
Cylinder lock
Electronic lock
Swing handle
Rod control lock
Panel lock
Toggle and hook
Handles
Door stop
Hinge
Seal gasket



**MS867-5**

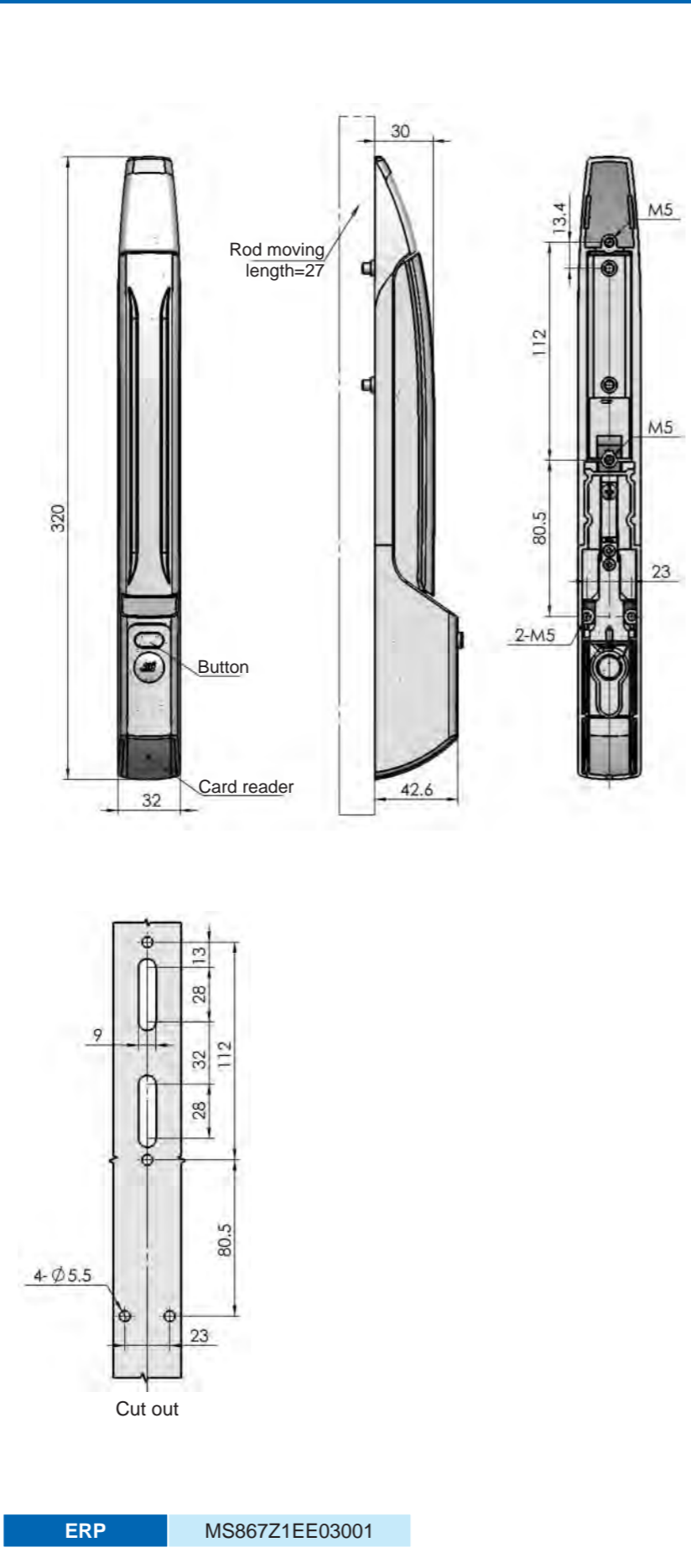
**Main material and finish:** yellow grey powder coated ZDC housing and handle.

**Application:** handle fast and easy installation, rods need to be designed by customer's cabinets own requirement.

**Remark:**

1. Rated voltage 12DC, rated current 100mA;
2. Control method: card/remote;
3. When power on, the signal light shine green, press the button to realize the opening.
4. When press the handle, the lock is closed, the signal light shine red, light is put out after 5 seconds (time can be adjustable);
5. When electronic system has fault, the mechanism key can be repalced to open the lock;
6. Electronic lock can be connected with various type of controllers to control the locks' opening and closing. When the lock control line is not charged, lock is closed; when charged, lock is open.

**New Item, Pls Kindly Contact Our Engineers Before Order.**



ERP MS867Z1EE03001

Accessories
Handle lock
Cylinder lock
Electronic lock
Swing handle
Rod control lock
Panel lock
Toggle and hook
Handles
Door stop
Hinge
Seal gasket



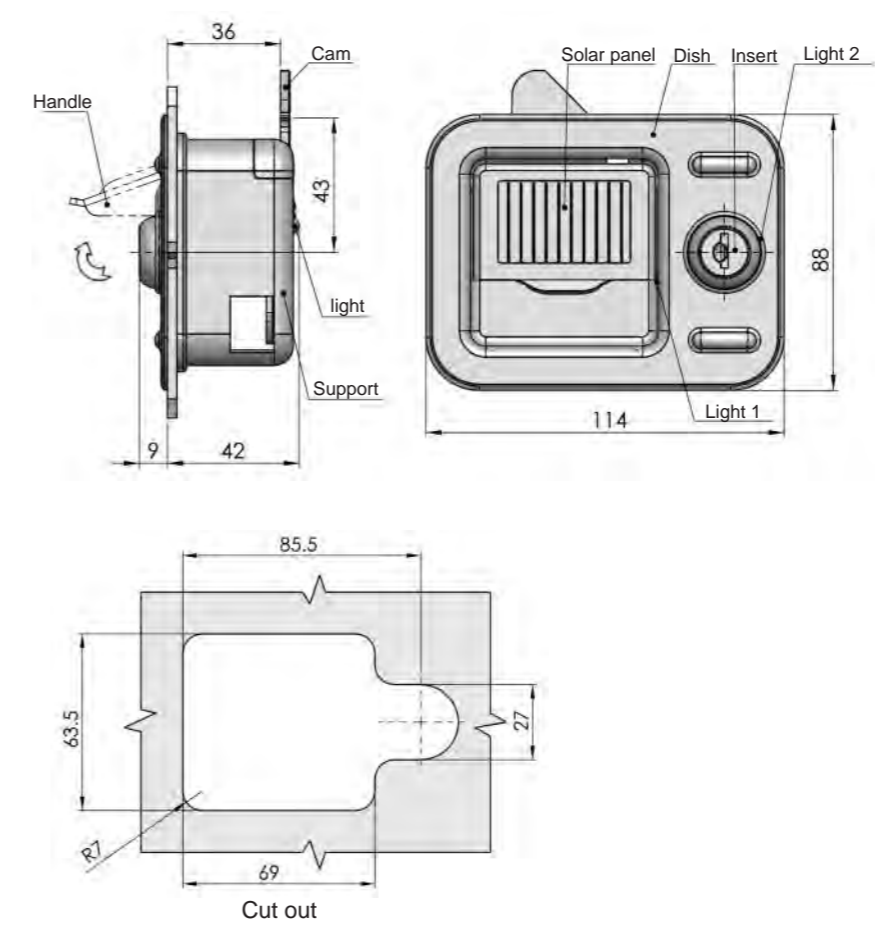
**MS866-20**

**Main material and finish:** Mirror polish stainless steel dish and handle, white zinc plated steel cam

**Application:** insert the key to rotate anticlockwise 90 degree, handle can pull freely, hook can rotate 30 degree.

**Remarks:** default key K160

**New Item, Pls Kindly Contact Our Engineers Before Order.**



**Electronic lock instruction:**

This lock can use rechargeable batteries and solar panels, convenient installation and debugging. In the daytime the lock through solar panels absorbing the energy, optical energy changed to electric energy, the rechargeable batteries inside lock can be realized to be charged automatically; daytime (the light intensity >30lux), led light put out. night (the light intensity <30lux), light 1&2 in the lock surface open automatically. Using the key to rotate anticlockwise 90 degree, the LED light switch in the bracket is open, light is on, illuminate the inside box; This can realize to point out and illuminate different kinds of tool box in special type of vehicles.

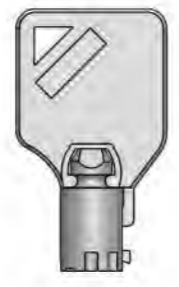
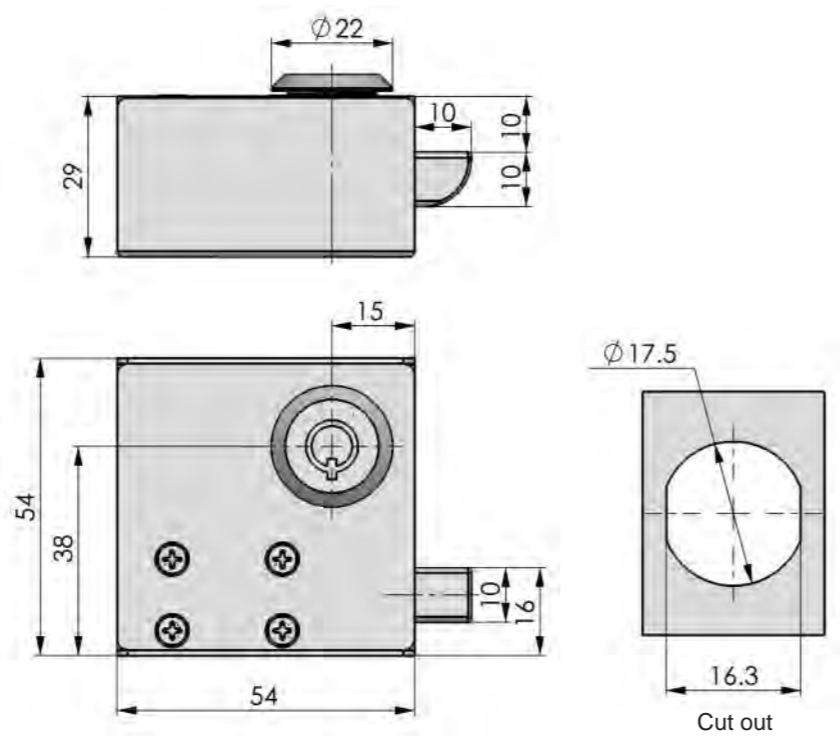
ERP MS866S4A160002

PLANE LOCK SERIES

- Accessories
- Handle lock
- Cylinder lock
- Electronic lock
- Swing handle
- Rod control lock
- Panel lock
- Toggle and hook
- Handles
- Door stop
- Hinge
- Seal gasket



MS782



Default key

**Main material and finish:** Nickel plated carbon steel cover, bright chrome ZDC lock core  
**Remarks:** Rated voltage 12-24V/DC rated current 200-300m A/DC

**Electronic lock instruction:**  
 1. Rated voltage DC 12V, rated current 300m A;  
 2. Red line: positive; blue line: negative;  
 3. Control mode: electronic lock can be connected with various type of controllers to control the locks' opening and closing. When the lock control line is not charged, lock is closed; When charged, lock is opened. The lock can not be charged for long time.

ERP MS782F3G000001

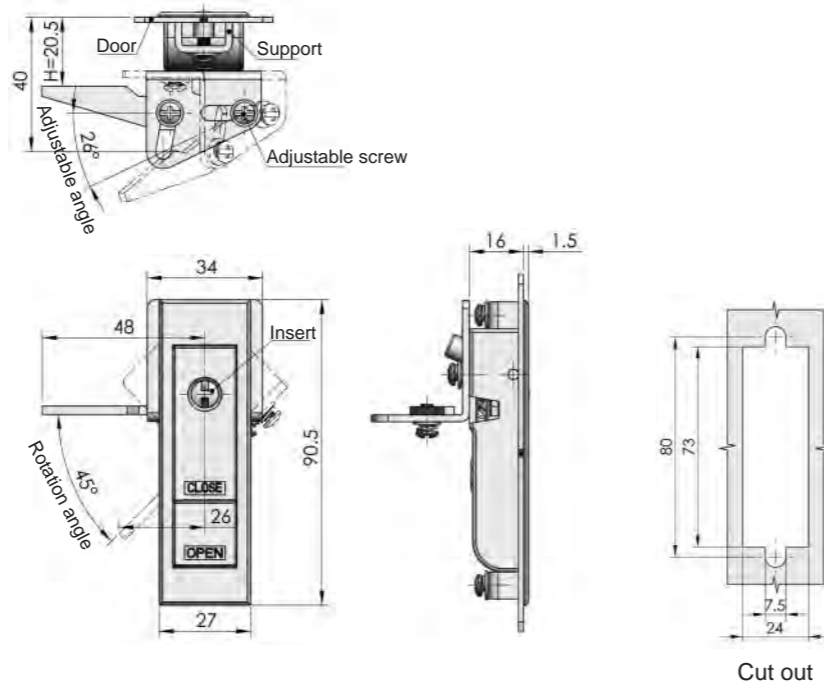
 MS703	 MS707	 MS720	 MS730	 MS732	 MS708
 MS718	 MS718-3	 MS717-1	 MS726-1	 MS726-1A	 MS726-2
 MS727	 MS710	 MS736	 MS712	 MS737	 MS738
 MS818	 MS839	 MS843	 MS860-1	 MS861	 MS861-2
 MS864-1	 MS864-3A	 MS863	 MS874	 MS861-2A	 MS723
 MS884	 MS834-5	 MS839-5	 MS861-3	 MS864-4	



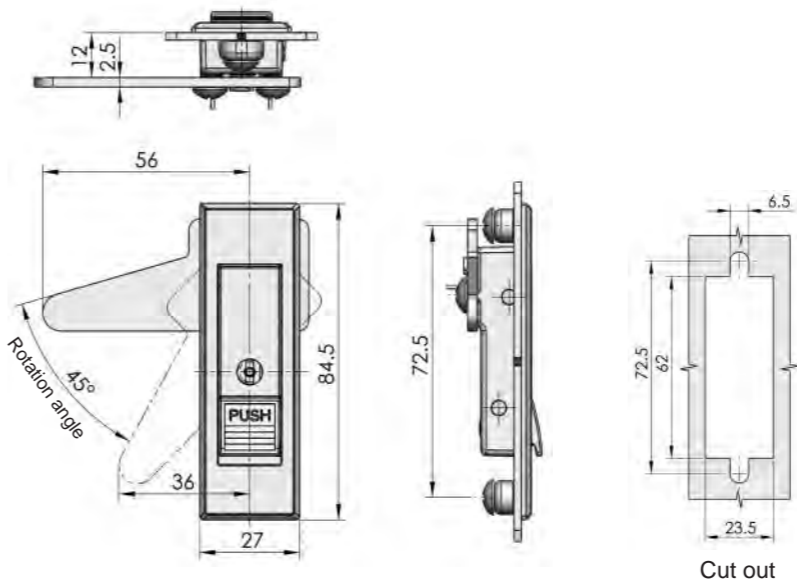
**MS703**



**Main material and finish:** Bright chrome-plated ZDC lock body and white zinc-plated steel cam  
**Application:** Quick-open, easy assembling, by adjusting the cam screw to change the H and L of cam



Specification	Model	ERP
Cam opening from left rotation	MS703-Z	MS703Z3A000001
Cam opening from right rotation	MS703-Y	MS703Z3A000003



180 degree cam rotation to realize LH or RH ( only for cam without bend )

Specification	Model	ERP	
		Nanometer painted	Sand-blast chrome-painted
ZDC button, with insert	MS720-1	MS720Z2B000001	MS720Z3H000014
ZDC button, without insert	MS720-2	MS720Z2B000015	MS720Z3H000025
Plastic button, with insert	MS720-1H	MS720Z2B000002	MS720Z3H000002
Plastic button, without insert	MS720-2H	MS720Z2B000007	MS720Z3H000004

**MS720**



**RL**

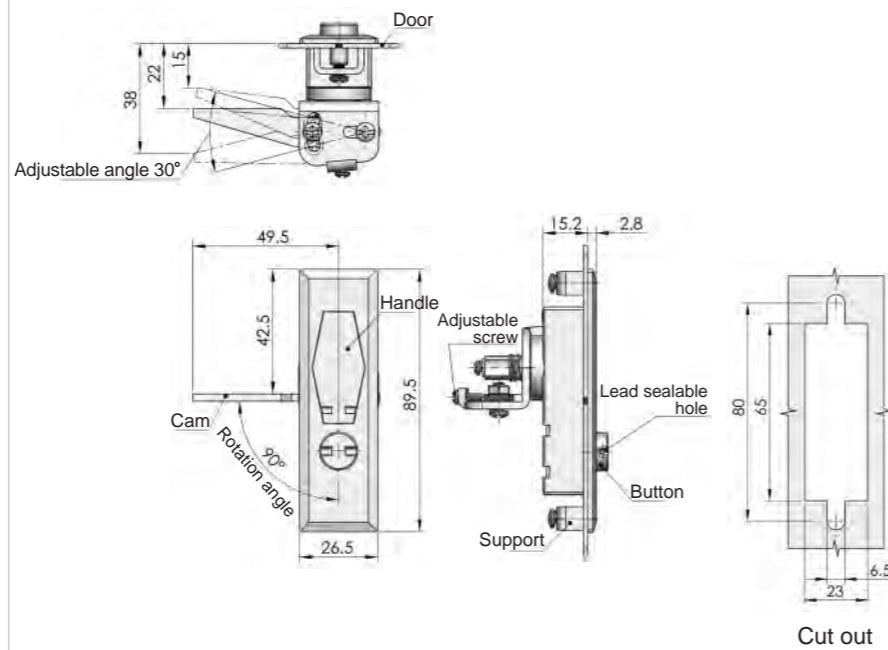
**Main material and finish:** ZDC housing, insert, ZDC button or PA button, white zinc-plated steel cam  
**Application:** Quick-open, easy assembling, H variable

Default cam: S1D56Y00002

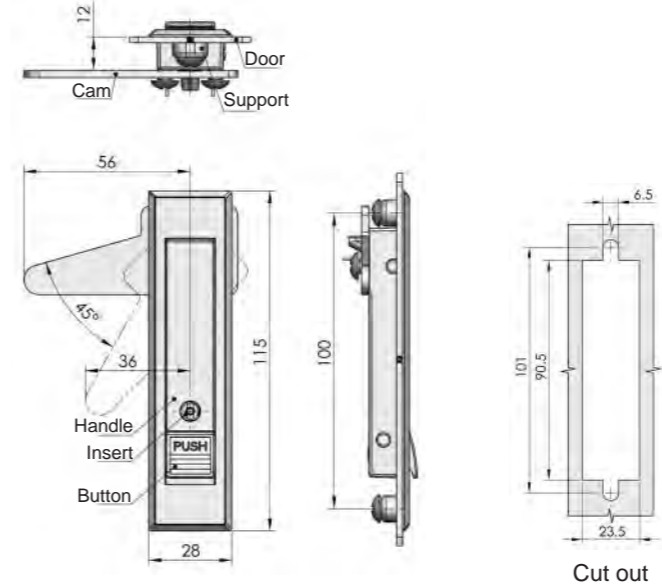
**MS707**



**Main material and finish:** Blast-spraying and nickle plated ZDC housing, handle, button and insert, white zinc-plated steel cam  
**Application:** Quick-open, easy assembling, by adjusting the cam screw to change the H and L of cam



Specification	Model	ERP	
		Opening from left rotation	Opening from right rotation
With insert	MS707	MS707Z3I000001	MS707Z3I000002
With lead sealable button	JMS707	MS707Z3I000003	MS707Z3I000004



180 degree cam rotation to realize LH or RH ( only for cam without bend )

Specification	Model	ERP	
		Nanometer painted	Sand-blast chrome-painted
ZDC button, with insert	MS728-1	MS728Z2B000005	MS728Z3H000001
ZDC button, without insert	MS728-2	MS728Z2B000006	MS728Z3H000005
Plastic button, with insert	MS728-1H	MS728Z2B000003	MS728Z3H000002
Plastic button, without insert	MS728-2H	MS728Z2B000004	MS728Z3H000006

**MS728**



**RL**

**Main material and finish:** Sand-spraying and chrome-plated ZDC housing and insert, ZDC button or PA button, white zinc-plated steel cam  
**Application:** Quick-open, easy assembling, H variable

Default cam: S1D56Y00002

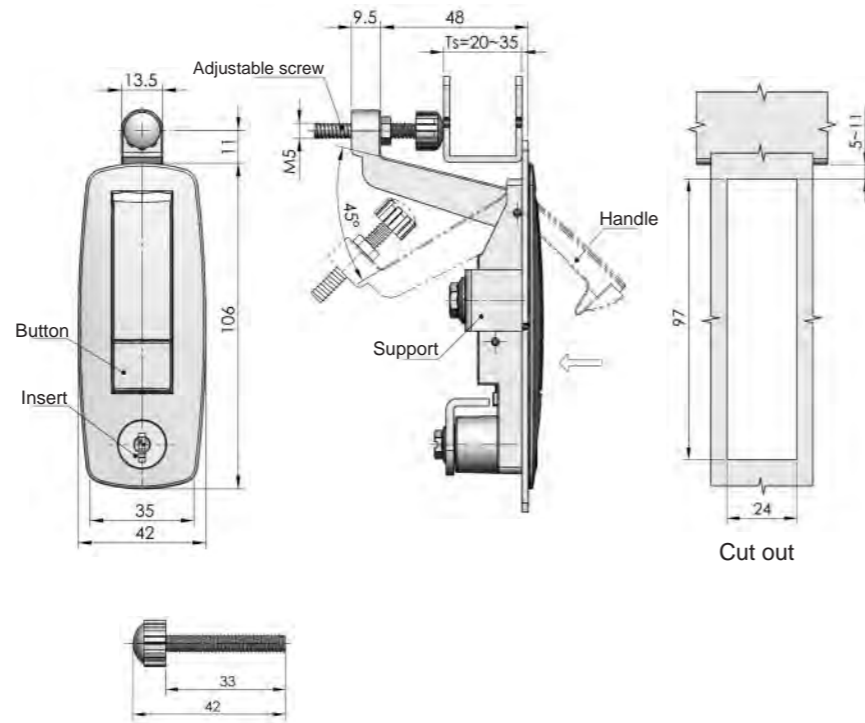


Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket

**MS718**

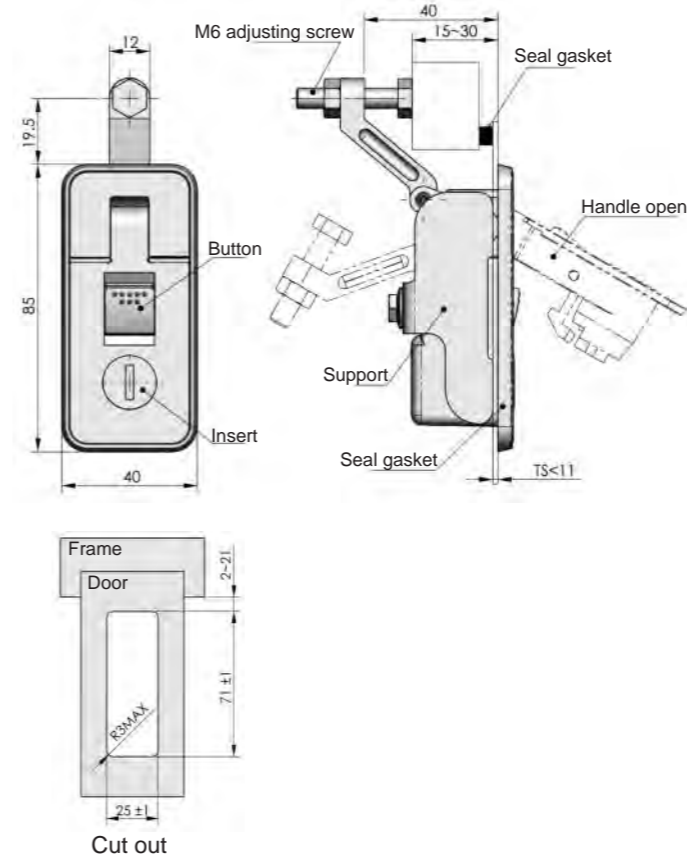


**Main material and finish:** Black powder coated ZDC housing, handle and button, ZDC insert, white zinc plated steel screw  
**Application:** Quick-open, easy assembling, by adjusting screw meets the need of distance control  
**Remarks:** Default key k180



Remarks: Default adjusting screw, others on request

ERP MS718Z1A180001



ERP MS718Z3A650001

**MS718-3C**



IP65

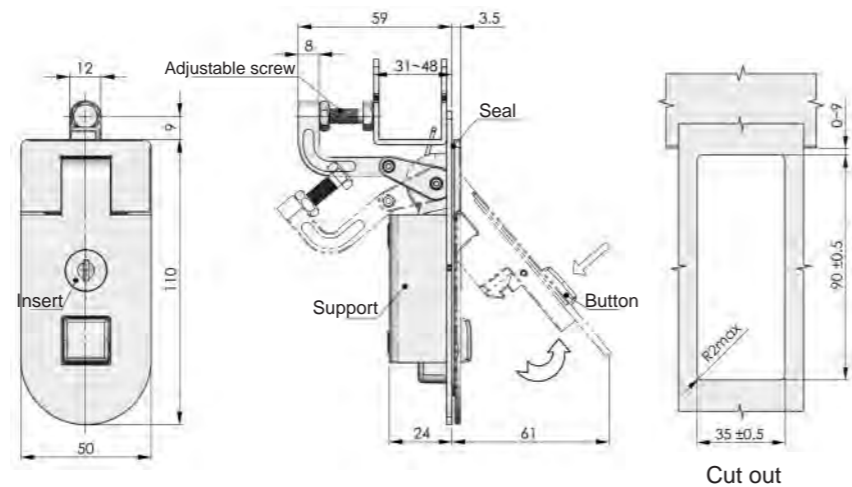
**Main material and finish:** Bright chrome-plated ZDC housing, handle and button, white zinc-plated support, connection, screw  
**Application:** Quick open, easy assembling, adjust nut to fit different H  
**Remarks:** Default K650 key

Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket

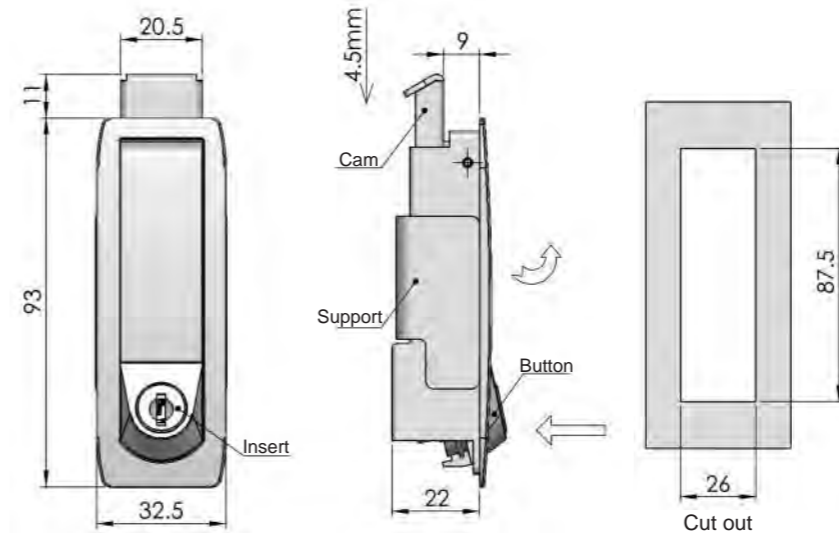
**MS718-3**



**Main material and finish:** Black powder coated ZDC housing, handle, insert and button, white zinc plated steel screw  
**Application:** Quick-open, easy assembling, by adjusting screw meets the need of distance control  
**Remarks:** Default key K160



ERP MS718Z1A160001



ERP MS719Z2A400001

**MS719-1U**



**Main material and finish:** Sand-blast black painted housing, handle, button, insert, white zinc-painted cam and support  
**Application:** press button, and the handle bounce automatically, put up the handle to open

Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket



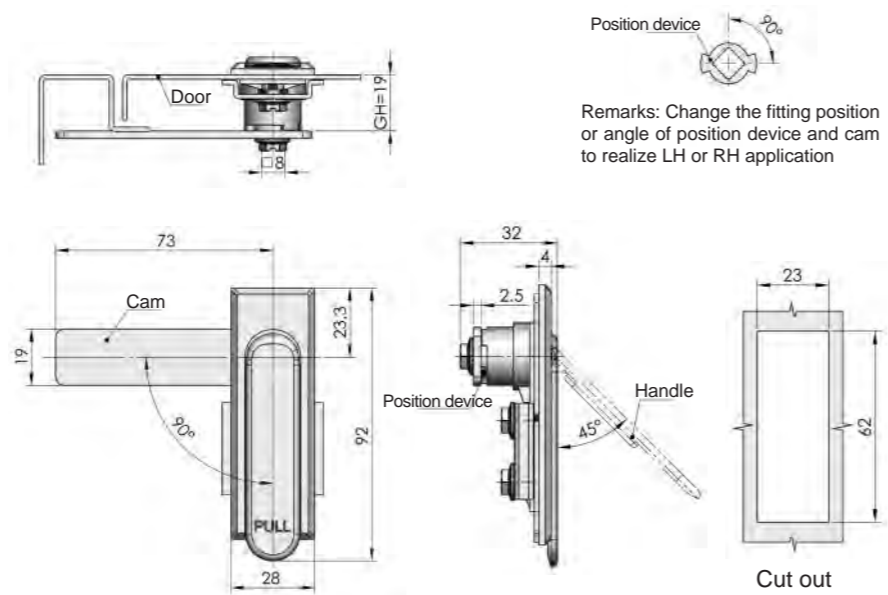
**MS717-1**

**RL**

**Main material and finish:** Black painted ZDC housing and handle, white zinc plated steel support and cam

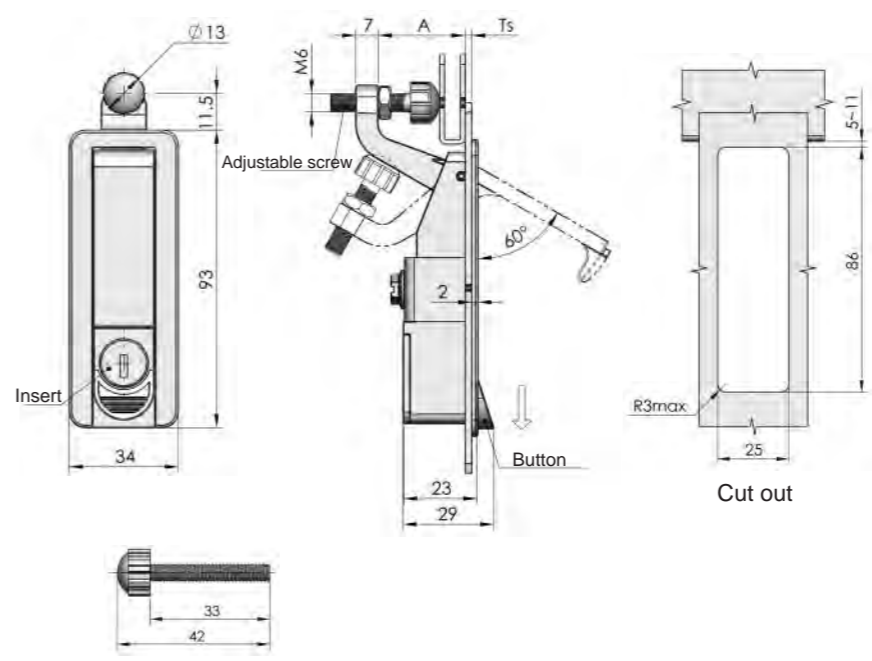
**Application:** Quick-open, easy assembling, H variable

**Default cam: S1B73Y00001**



<b>ERP</b>	<b>MS717Z2A000002</b>
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Remark: Default cam is S1B7300 (rhombic hole)



Specification	A=29		A=50	
	Model	ERP	Model	ERP
With insert	MS719-1	MS719Z1A020001	MS719-2	MS719Z1A020002
Without insert	MS719-1A	MS719Z1A000001	MS719-2A	MS719Z1A000002



**MS719**

**Tighten**

**Main material and finish:** Black powder coated ZDC housing, handle, insert and button, white zinc plated steel screw

**Application:** Quick-open, easy assembling, by adjusting screw meets the need of distance control

**Remarks:** Default key k020



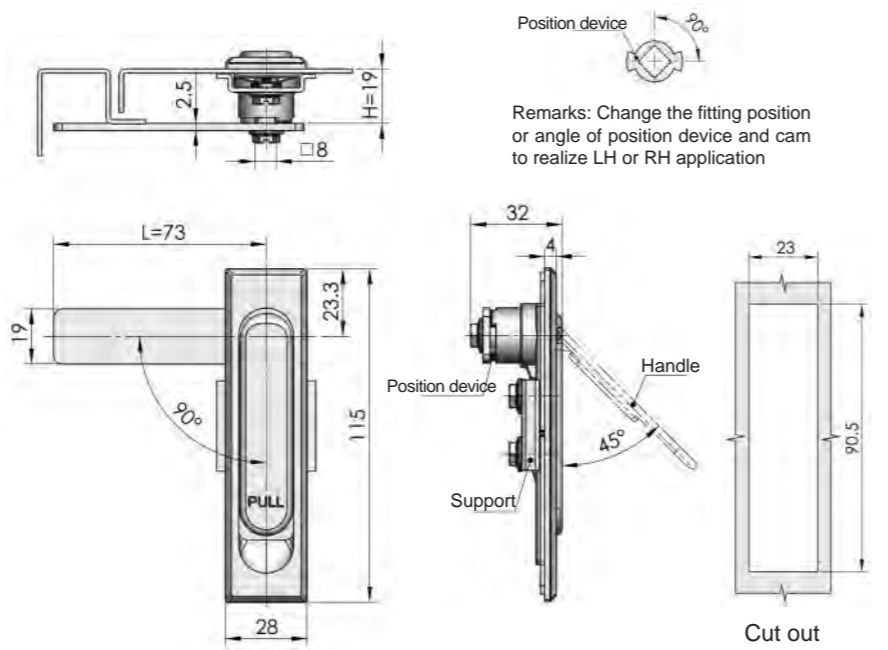
**MS717-2**

**RL**

**Main material and finish:** Silk black powder ZDC housing and handle, white zinc plated steel support and cam

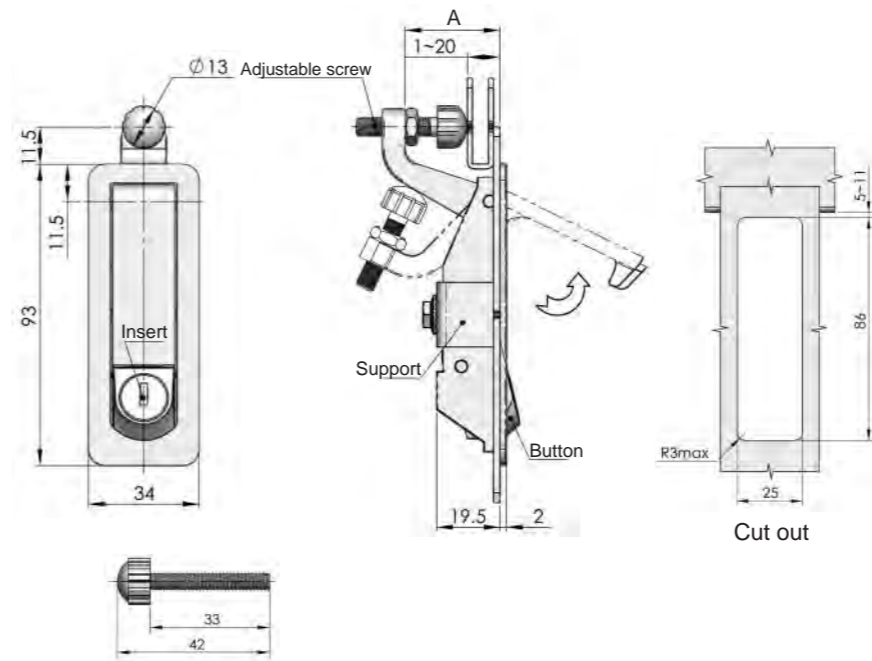
**Application:** Quick-open, easy assembling, H variable

**Default cam: S1B73Y00001**



<b>ERP</b>	<b>MS717Z2A000009</b>
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Remark: Default cam is S1B7300 (rhombic hole)



Specification	A=29		A=50	
	Model	ERP	Model	ERP
With insert	MS719-1C	MS748Z3A160009	MS719-2C	MS719Z1A020008
Without insert	MS719-1CA	MS748Z3A160002	MS719-2CA	MS719Z1A000005



**MS719-1C**

**Tighten**

**Main material and finish:** Black painted ZDC housing, handle, insert and button, white zinc plated steel screw

**Application:** Quick-open, easy assembling, by adjusting screw meets the need of distance control

**Remarks:** Default key k020



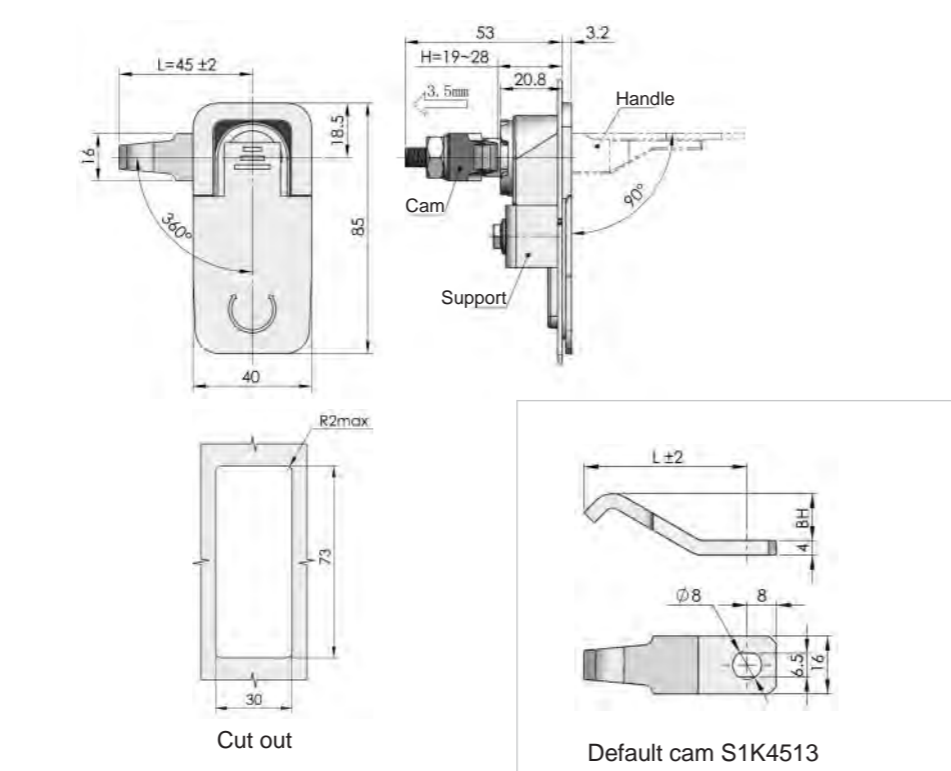
**MS726-1**

**Tighten** **RL**

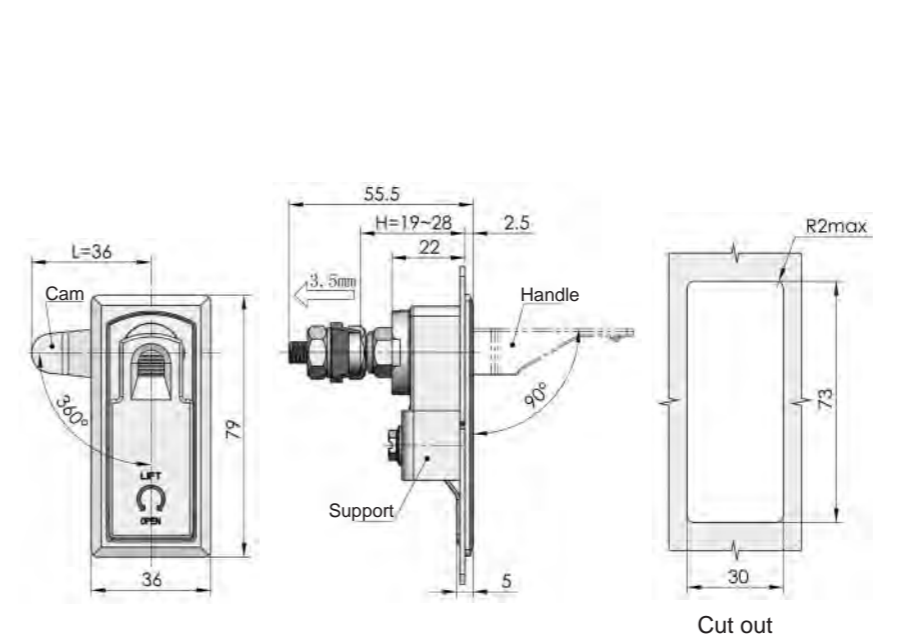
**Main material and finish:** ZDC housing and handle, white zinc plated steel support and cam

**Application:** Quick-open, easy assembling. H variable by adjusting nut

**Default cam: S1K45N13004**



	Black powder coated housing, handle	Bright chrome-plated housing,handle	Nanometer painted housing,handle
<b>ERP</b>	MS726Z1A000001	MS726Z3A000001	MS726Z2B000001



	Black powder coated housing, handle	Bright chrome-plated housing,handle	Nanometer painted housing,handle
<b>ERP</b>	MS726Z1A000013	MS726Z3A000002	MS726Z2B000004

Remarks: The default cam S1K36N06(Cut size Ø8x6.5)



**MS726-2**

**Tighten** **RL**

**Main material and finish:** ZDC housing and handle, white zinc plated steel support and cam

**Application:** Quick-open, easy assembling. H variable by adjusting nut

**Default cam: S1K36N06001**



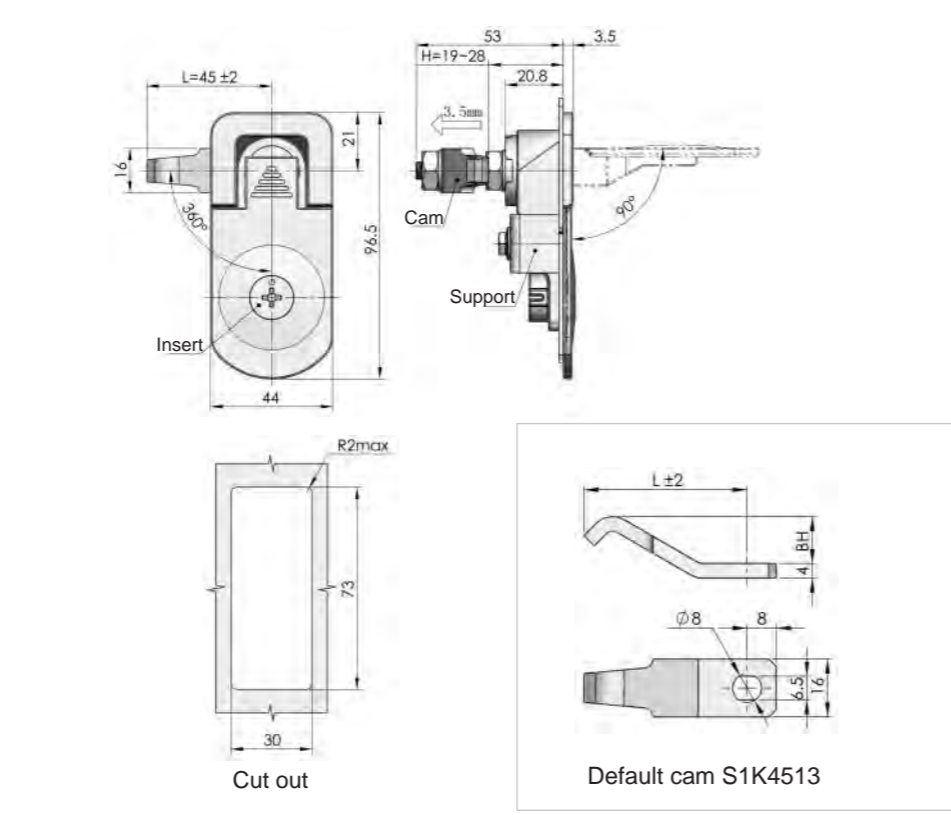
**MS726-1A**

**Tighten** **RL**

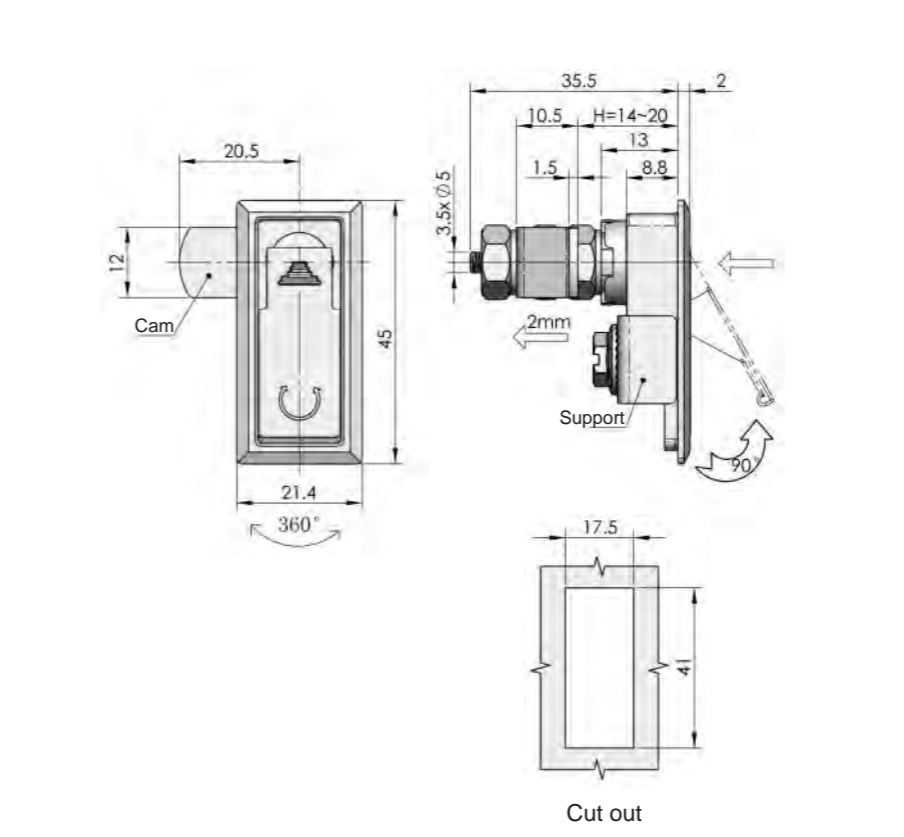
**Main material and finish:** Sand-spraying and bright chrome-plated ZDC housing, handle and insert, white zinc plated steel support and cam

**Application:** Quick-open, easy assembling, H variable by adjusting nut

**Default cam: S1K45N13004**



<b>ERP</b>	MS726Z3H000003
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<b>ERP</b>	MS726Z2A000009
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**MS726-3**

**Tighten** **RL**

**Main material and finish:** Black painted ZDC housing and handle, white zinc plated steel support and cam

**Application:** Quick-open, easy assembling, H variable by adjusting nut

**Default cam: S1W21N09001**

MS712  
MS713



MS713-Q



**RL** IP54

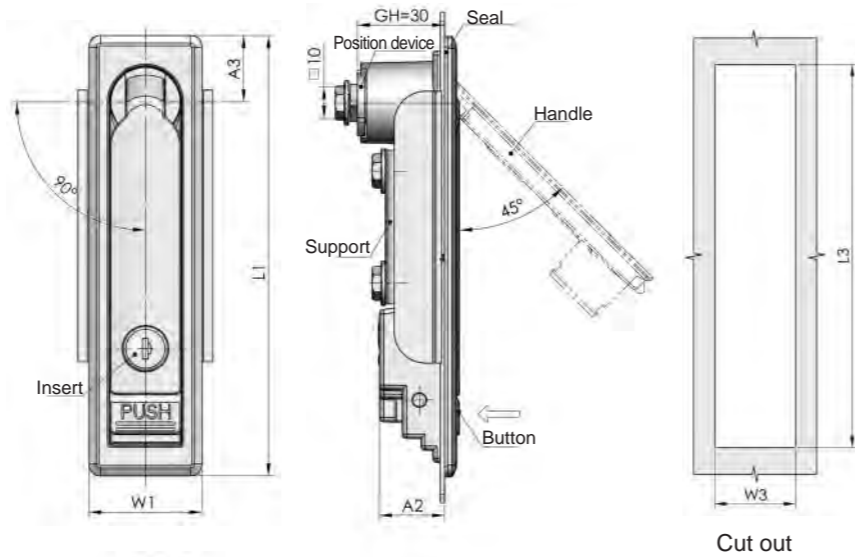
**Main material and finish:** Nanometer painted ZDC housing and handle, ZDC insert, white zinc plated steel support and cam

**Application:** Quick-open, easy assembling. One-point locking or three-point locking function will be achieved with different cam mounted on

**Remarks:** The default key of MS713-Q is K040

**Default cam:** S1C72Y00002

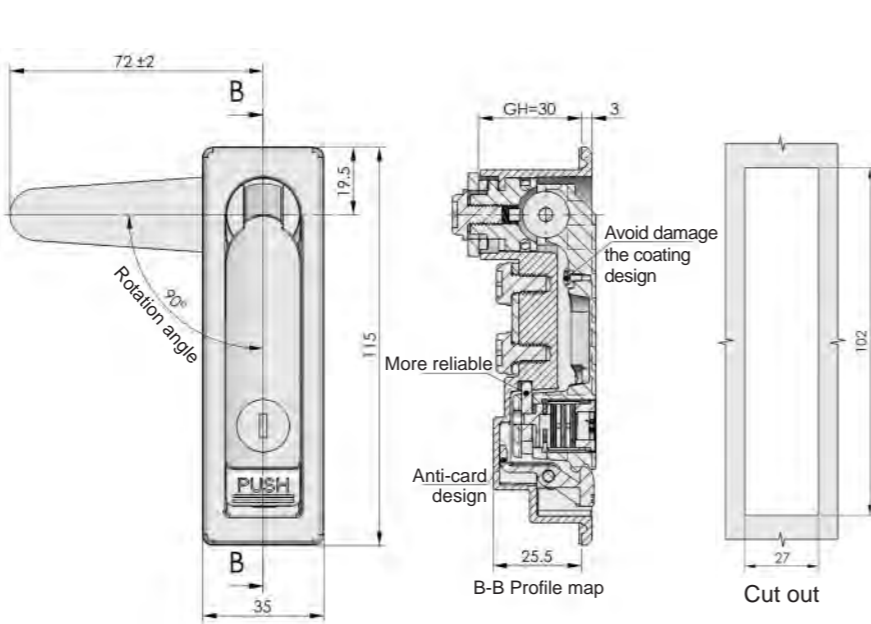
MS712



Remarks: Change the fitting position or angle of position device and cam to realize LH or RH application

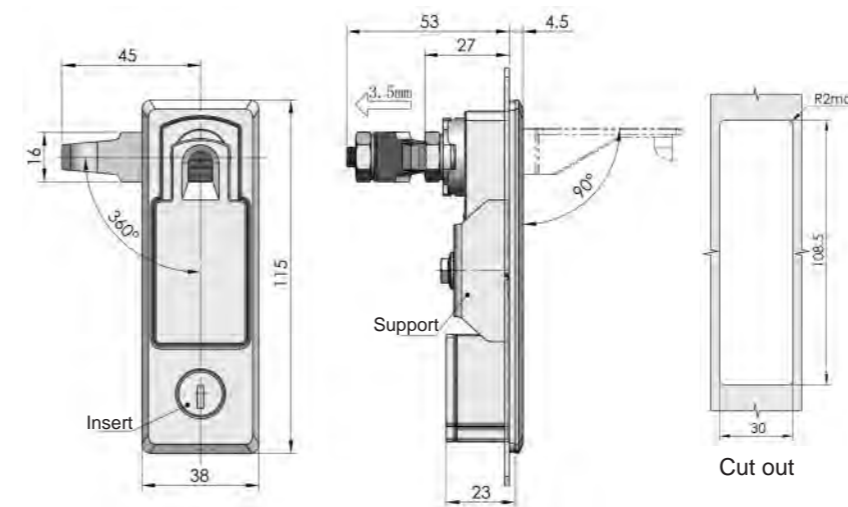
Model	ERP	L1	L3	W1	W3	GH	A2	A3	Cam	Default key
MS712	MS712Z2B040001	149	139.5	38	29.5	30	22	22.5	S1C7200	K040
MS712-2A	MS712Z2B110001	132	124	33.5	27.5	30	22	17	S1C7200	K110
MS712-3A	MS712Z2B110002	92	84	33.5	27.5	30	22	17	S1C7200	K110
MS713	MS713Z2B090001	110	102	33.5	27	30	22	17	S1C6200	K090

MS713-Q

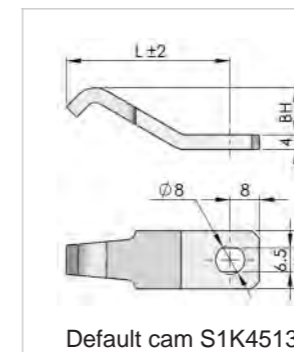


**ERP** MS713Z2B090010

Remarks: The default cam is S1C7200



**ERP** MS727Z1A020002



MS727



**Tighten** **RL**

**Main material and finish:** Black powder coated ZDC housing and handle, ZDC insert, white zinc plated steel support and cam

**Application:** Quick-open, easy assembling, H variable by adjusting nut

**Remarks:** Default key K020

**Default cam:** S1K45N13004

MS710



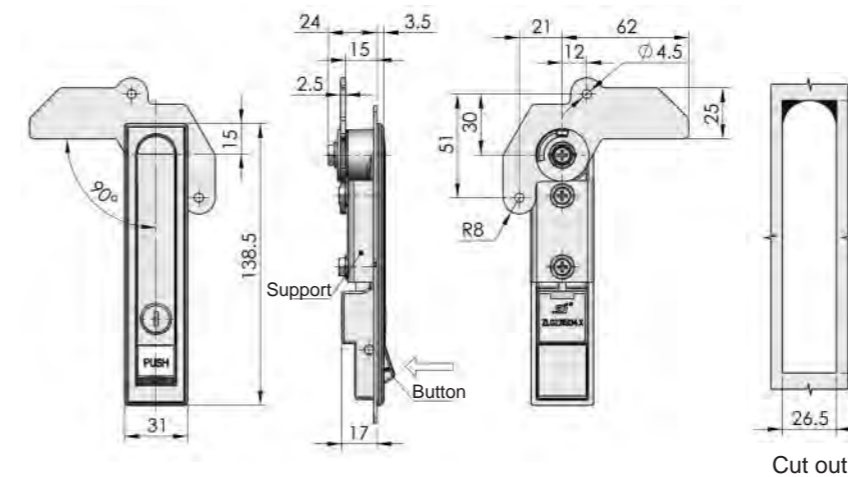
**RL**

**Main material and finish:** Nanometer painted ZDC housing and handle, ZDC insert, white zinc-plated steel support and cam

**Application:** Quick-open, easy assembling. One-point locking or three-point locking function will be achieved with different cam mounted on

**Remarks:** Default key k010

**Default cam:** S3C62Y00004



Remarks: Optional cam refer to drawings separately

**ERP** MS710Z2B010002

Remark: The default cam is S3C6200



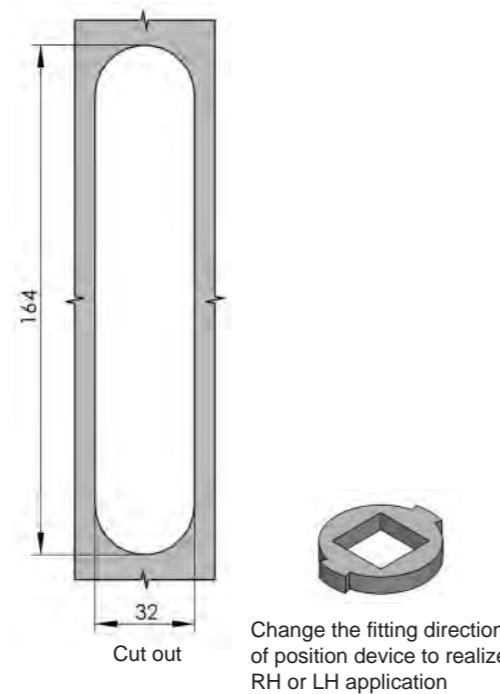
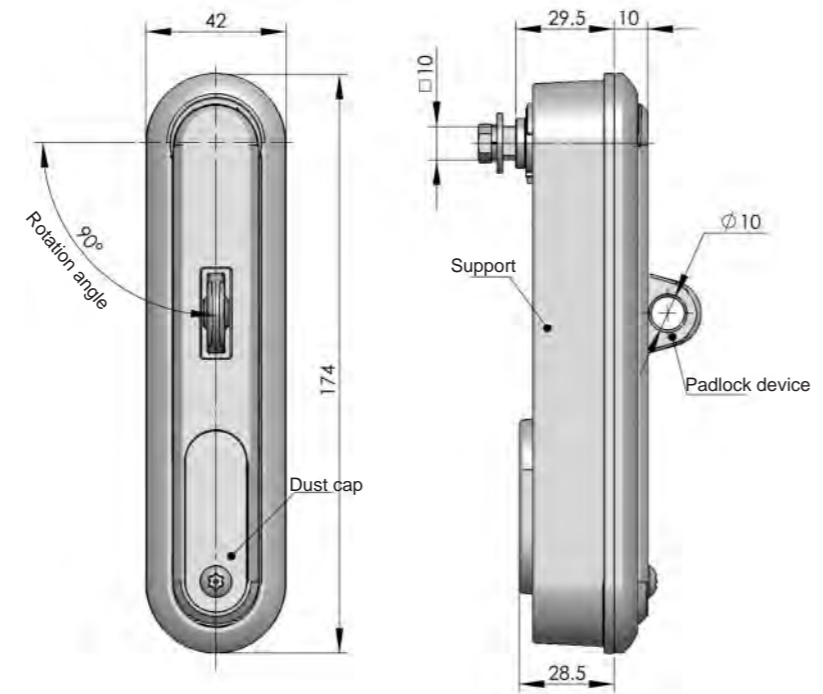
Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket

Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket

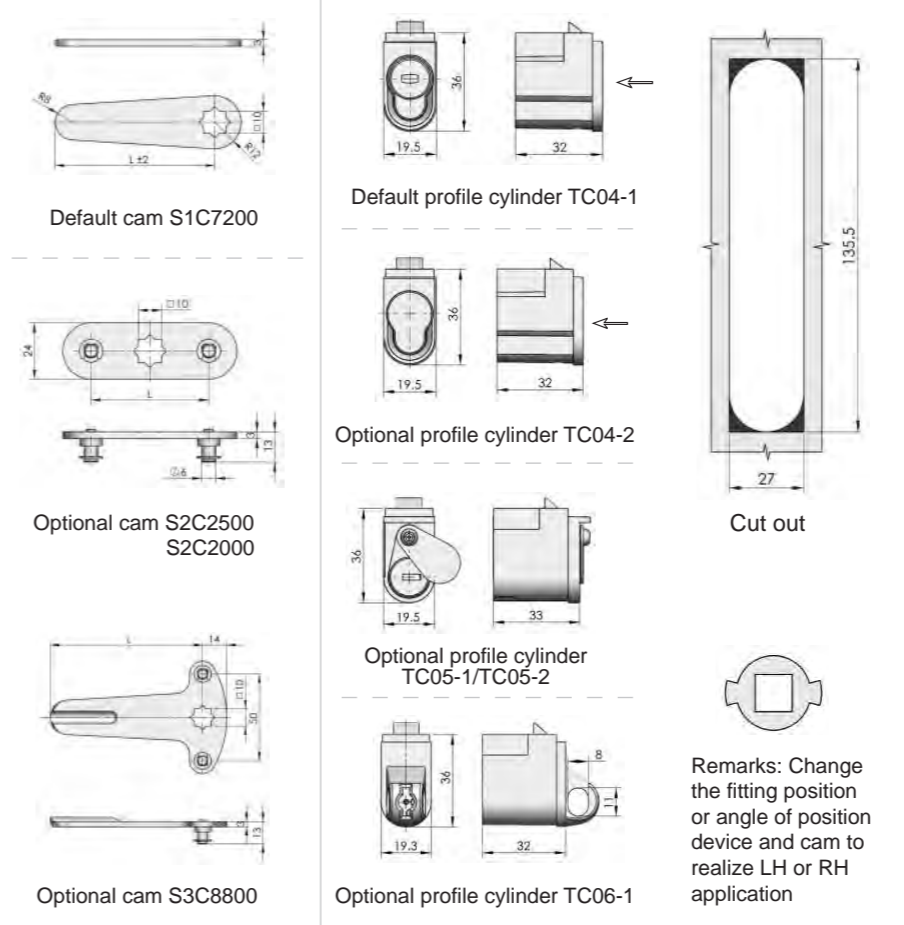
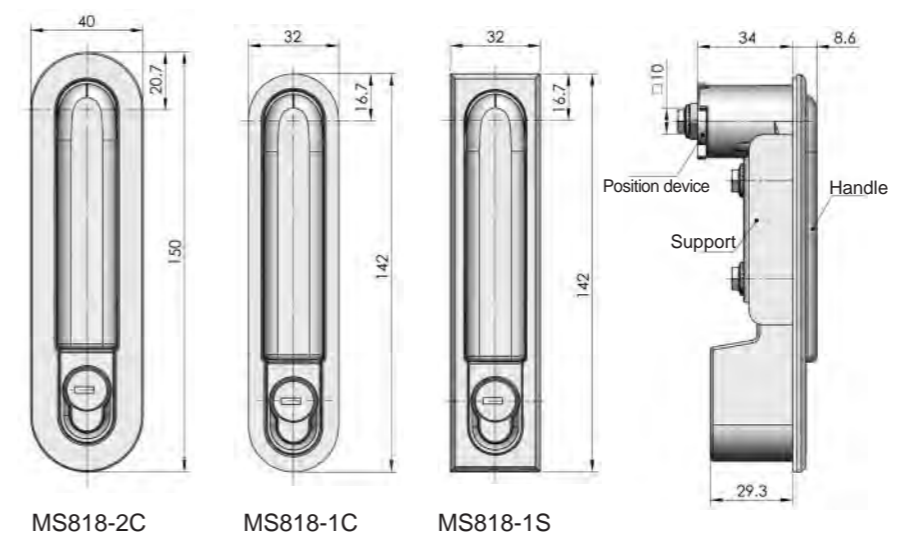
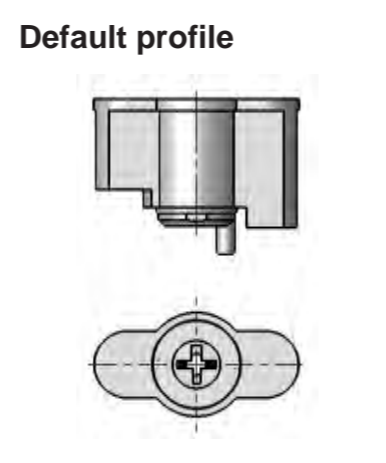


**RL** **IP64**

**Main material and finish:** Matt black powder coated ZDC housing and handle  
**Application:** 90° rotation to open or close, position device direction to suit RH or LH application, padlockable



**ERP** MS892Z1AE02001  
Remark: ERP excludes Cam (Optional cam 10\*10)



Program	ERP	
	Black powder coated	Nanometer painted
MS818-1C	MS818Z1A040001	MS818A2B040001
MS818-2C	MS818A1A040003	MS818A2B040003
MS818-1S	MS818Z1A040003	MS818Z2B040003



**RL** **3PL**

**Main material and finish:** Black powder coated aluminium-alloy housing and ZDC handle, bright chrome plated ZDC profile cylinder, white zinc plated steel support and cam  
**Application:** Quick-open, easy assembling, one-point locking or three-point locking function will be achieved with different cam mounted on  
**Remark :** Default profile cylinder TC04-1, default key K040

**Default cam: S1C72Y00002**



**MS818-3B**

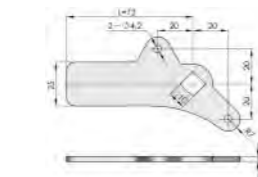
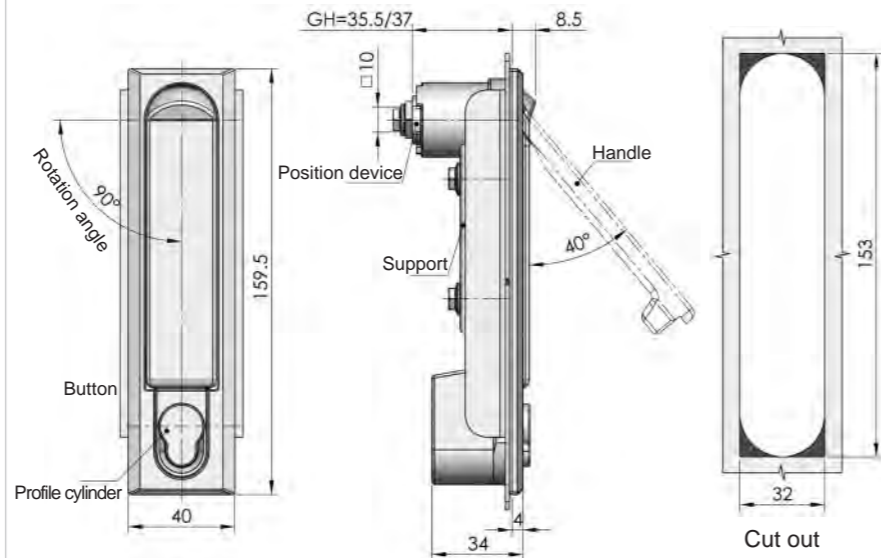


**Main material and finish:** Nanometer painted housing, handle, bright chrome-plated ZDC profile cylinder, white zinc-plated steel support and cam

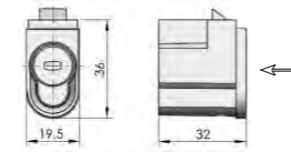
**Application:** Quick-open, easy assembling, change cam to have one-point or three point locking function

**Remarks:** Default profile cylinder TC04-2, default key K040

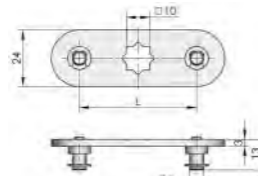
**Default cam:** S3C72Y00002



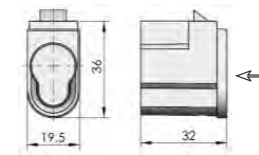
Default cam S3C7200



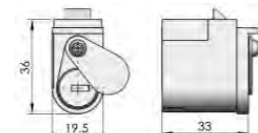
Default profile cylinder TC04-1



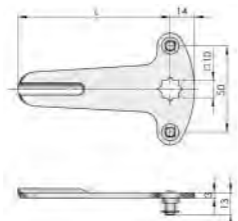
Optional cam S2C2500  
S2C2000



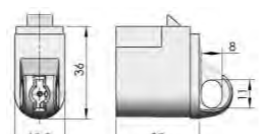
Optional profile cylinder TC04-2



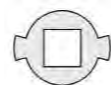
Optional profile cylinder  
TC05-1/TC05-2



Optional cam S3C8800



Optional profile cylinder TC06-1



Remarks: Change the fitting position or angle of position device and cam to suit LH or RH application

**ERP** MS818Z2B000002

Remark: Default cam S3C7200

**MS839**

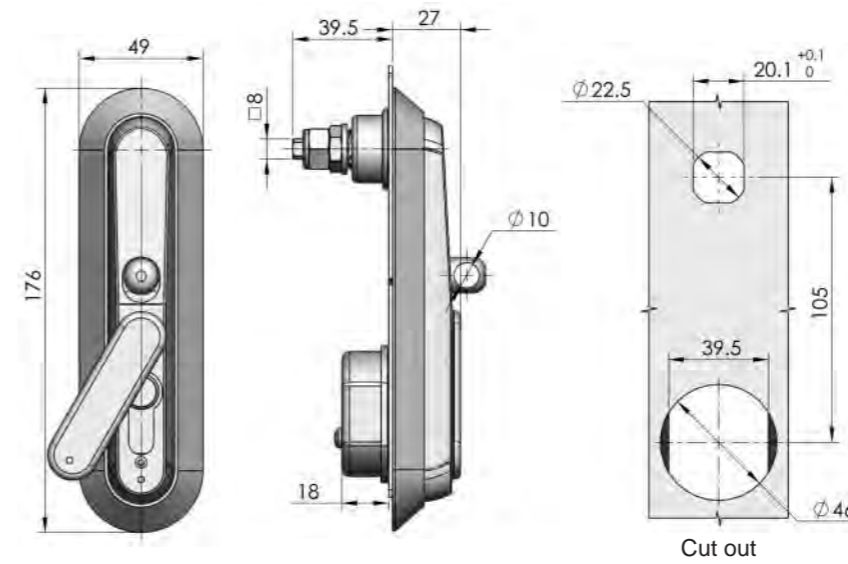


**Main material and finish:** Pocked black powder coated handle and housing, bright chrome-plated profile cylinder, white zinc-plated steel support and cam

**Application:** Lead sealable, stop height is variable according to the adjusting nut on cam

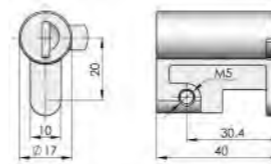
**Remarks:** Default TC01 profile cylinder, default key K140

**Default Cam:** S1C72Y00002

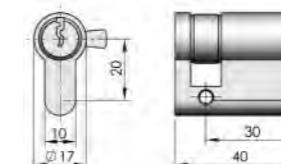


Remark: 8\*8 cam series for option

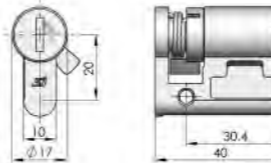
TC01(Default)



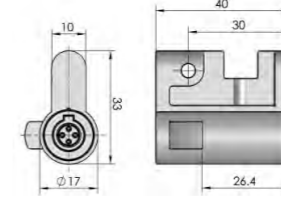
TC03-1(Optional)



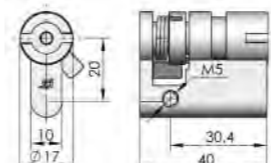
TC01-2(Optional)



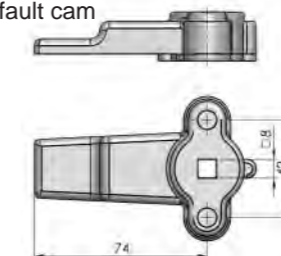
TC18(Optional)—P128



TC02-1(Optional)



Default cam



Specification	Model	ERP
ZDC handle and housing (Without padlock)	MS839-1	MS839Z1B031003
ZDC handle and housing (With padlock)	MS839-1-P	MS839Z1B140002
ZDC handle and PA housing (Without padlock)	MS839-1F	MS839N00140008
ZDC handle and PA housing (With padlock)	MS839-1F-P	MS839N00140002

Remark: Default cam S3B7400



**MS861**



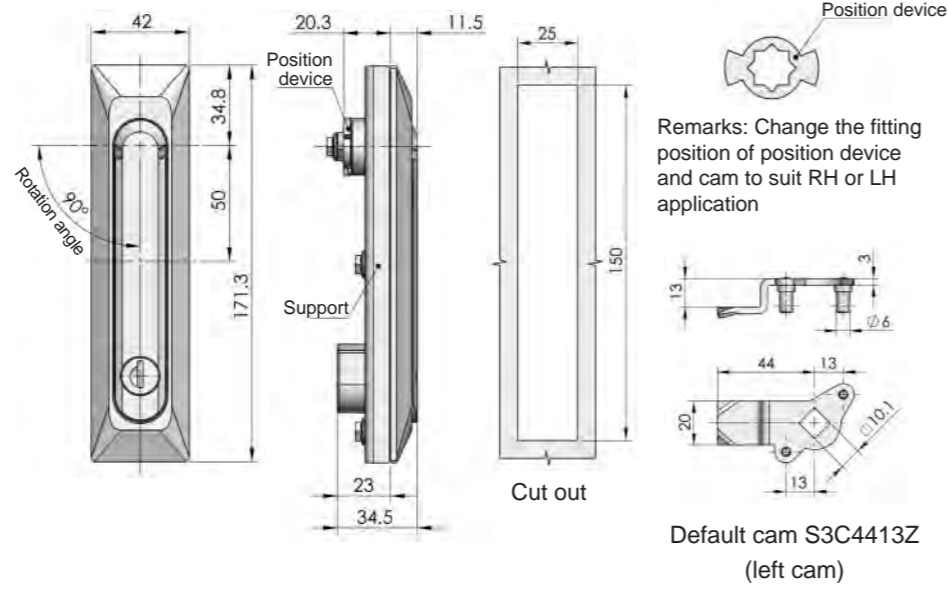
**RL** **IP54**

**Main material and finish:** Pocked black power coated ZDC housing and handle, white zinc-plated steel cam, stainless steel shaft

**Application:** Open the handle upward quarter-turn opening, adding electronic shielding part to have function of shielding

**Remarks:** Default key K140

**Default cam:** S3C44Y13005(Right)  
S3C44Y13002(Left)



ERP	MS861Z1B140021
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Remark: Default cam S3C4413Z (cut size 10\*10)

**MS861-2**



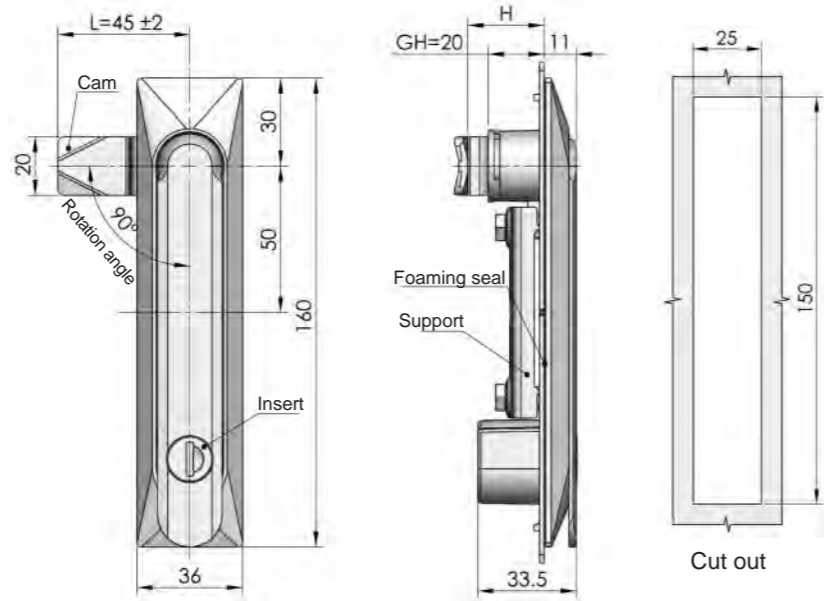
**RL** **IP54**

**Main material and finish:** ZDC housing, handle and shaft, white zinc-plated steel cam

**Application:** Open the handle upward, quarter-turn rotation opening

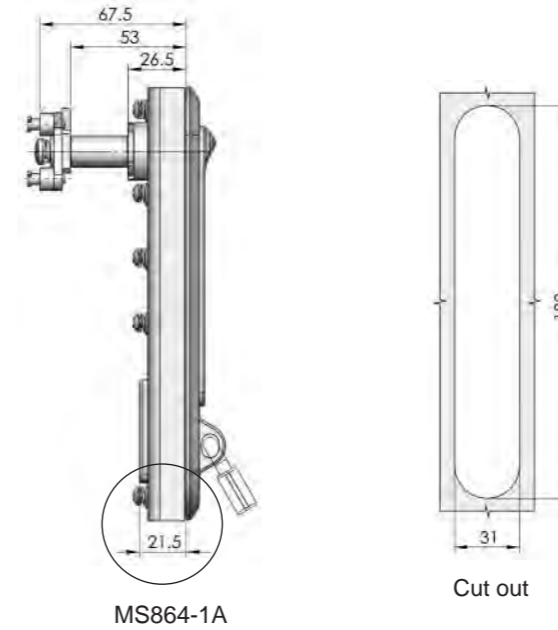
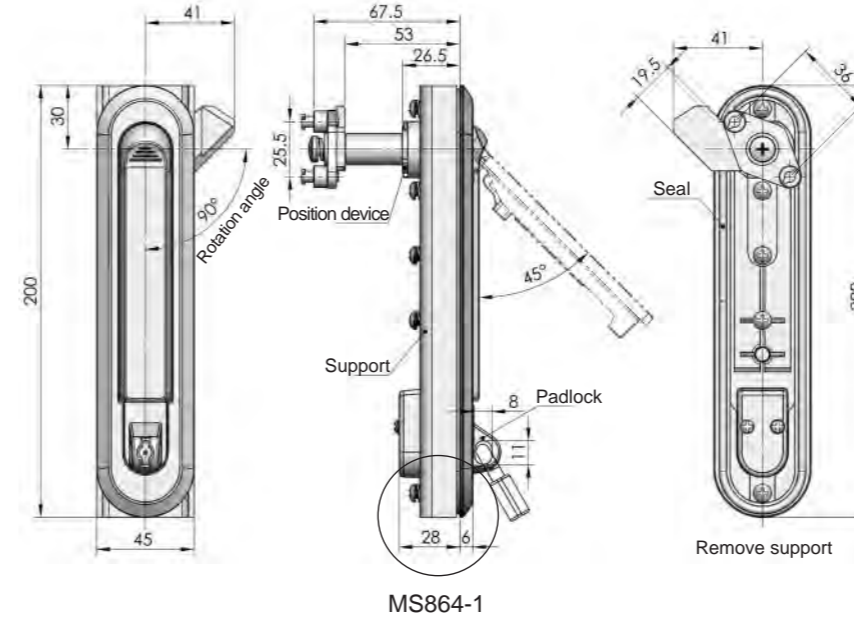
**Remarks:** Default K140 key

**Default cam:** 2882451002



	Pocked black powder coated housing and handle	Nanometer painted housing and handle
ERP	MS861Z1B140017	MS861Z2B140003

Remark: Default cam S3B4510 (cut size 8\*8)



Remarks: Five optional profile cylinder for MS864-1, TC04-TC06--1( See P029), default profile cylinder TC06-1, the only difference from MS864-1A is the end height of housing, MS864-1A optional profile cylinder TC06-2, TC06-3,TC06-4, default profile cylinder TC06-2( See P029)

Remarks : Change the fitting position of position device and cam to suit RH and LH application

	MS864-1	MS864-1A
ERP	MS864Z1A290001	MS864Z1A290003

Remarks: Cam cutout square 10mm

**MS864-1**  
**MS864-1A**



**RL** **IP65**

**Main material and finish:** Black powder coated ZDC housing and handle, ZDC shaft, white zinc-plated steel cam

**Application:** Open the handle upward, quarter-turn rotation opening, padlockable

**Remarks:** MS864-1 default profile cylinder TC06-1

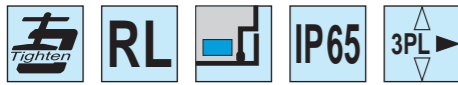
MS864-1A default profile cylinder TC06-4

Default key K290

**Default cam:** S1C41Y00002

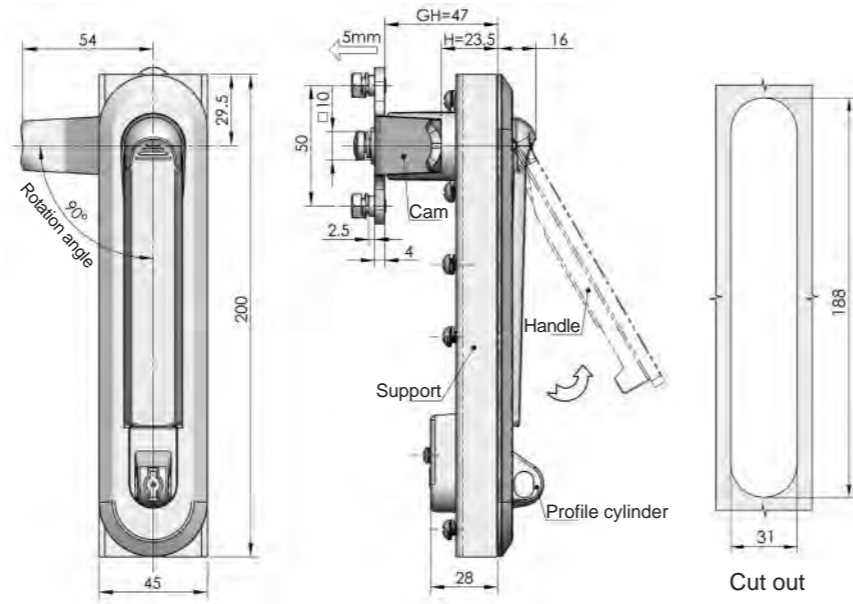
Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket

**MS864-3**

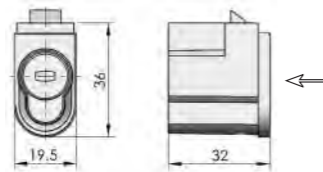


**Main material and finish:** Black powder coated ZDC housing and handle, stainless steel shaft, white zinc-plated steel cam  
**Application:** Open the handle upward, quarter-turn rotation opening, with function of locking, padlockable  
**Remarks:** Default profile cylinder TC06-1

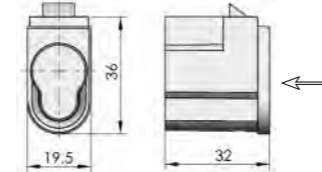
**Default cam: 2888643001**



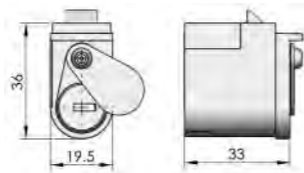
TC04-1(Optional)



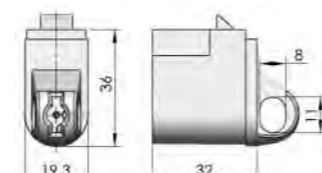
TC04-2(Optional)



TC05-1(Optional)

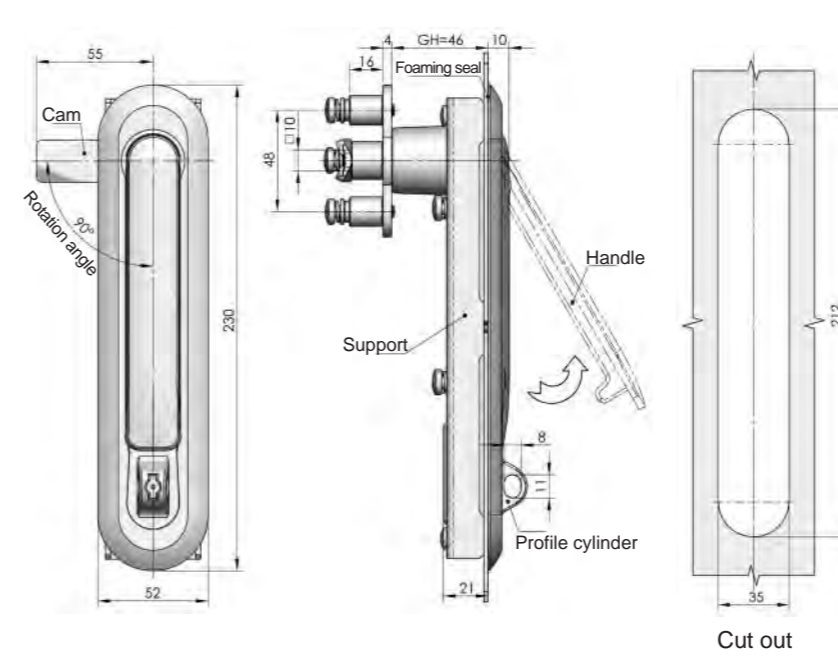


TC06-1(Default)

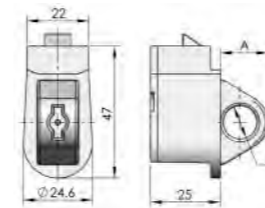


**ERP** MS864Z1A290027

Remark: Default cam S3C5424



TC06-2(Optional)

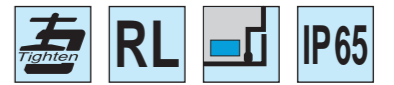


Profile cylinder	A	B
TC06-2	17	Ø12
TC06-3	26.5	Ø14
Default TC06-4	12	Ø8x11

**ERP** MS864Z1A290015

Remark: Default cam S1C5500

**MS864-3A**



**Main material and finish:** Black powder coated ZDC housing and handle, stainless steel shaft, white zinc-plated steel cam  
**Application:** Open the handle upward, quarter-turn opening, with function of locking, padlockable  
**Remarks:** Default profile cylinder TC06-4

**Default cam: S1C55Y00001**

Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket

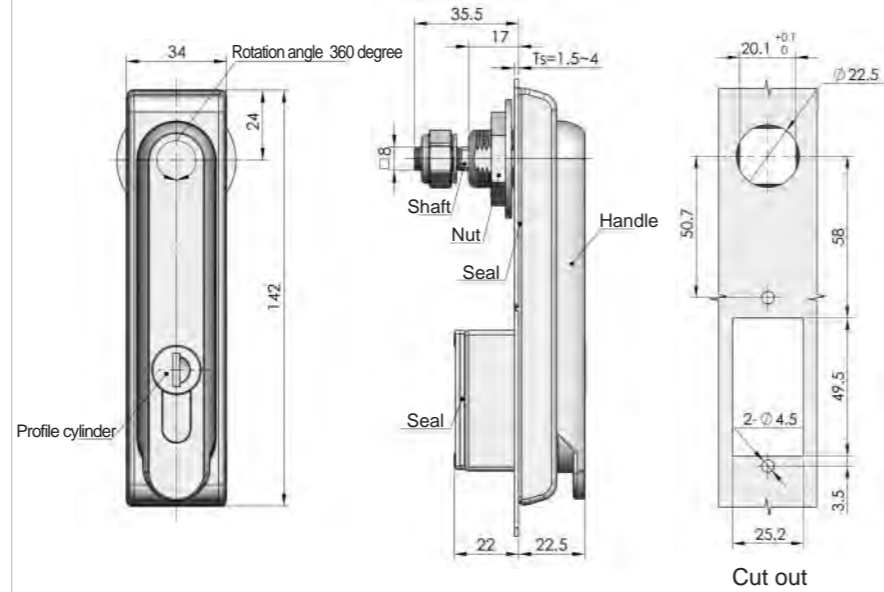
**MS863**



**RL IP64**

**Main material and finish:** Nanometer painted ZDC housing, handle, and profile cylinder, stainless steel cam and shaft  
**Application:** Open the handle upward, 360 degree rotation opening  
**Remarks:** Default profile cylinder TC01, default key K140

**Default cam: 2882450007**



	Nanometer painted ZDC housing and handle	Yellow gray powder coated housing and handle
<b>ERP</b>	MS863Z2B140001	MS863Z1E140001

Remark: Default cam S3B4500

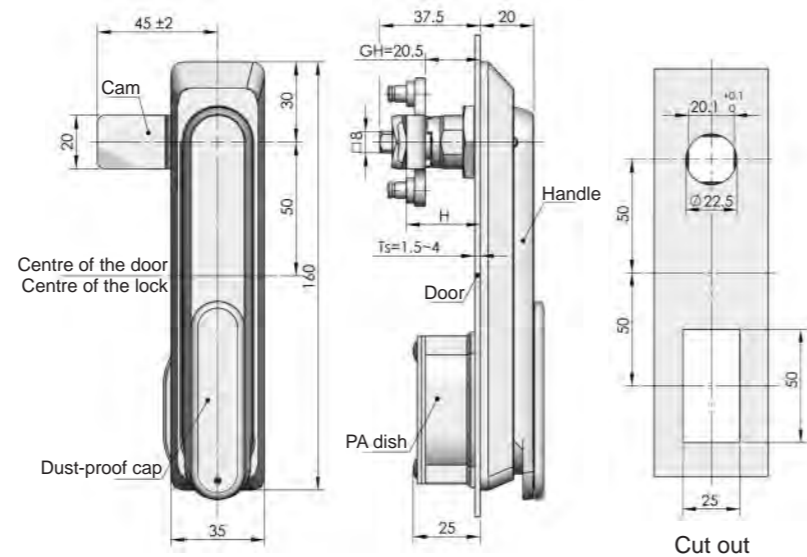
**MS874**



**RL IP54 3PL INOX AISI 3..**

**Main material and finish:** Stainless steel lock-body and cam, PA dish  
**Application:** Open the handle upward, quarter-turn opening or closing  
**Remarks:** Default profile cylinder TC01

**Default cam: 2882451002**



Remarks: Default cam S3B4510, H=20.5+10, default profile cylinder TC01. Cam cutout square 8mm, optional cam, three-point, two-point or one-point cam, see cam list on P007

<b>ERP</b>	MS874S4BE03001
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Remark: Default cam S3B4510

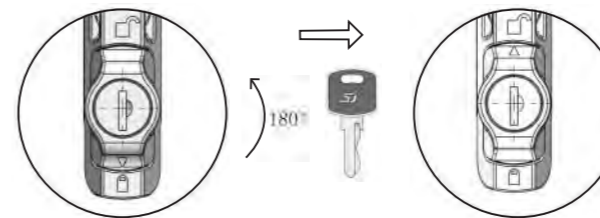
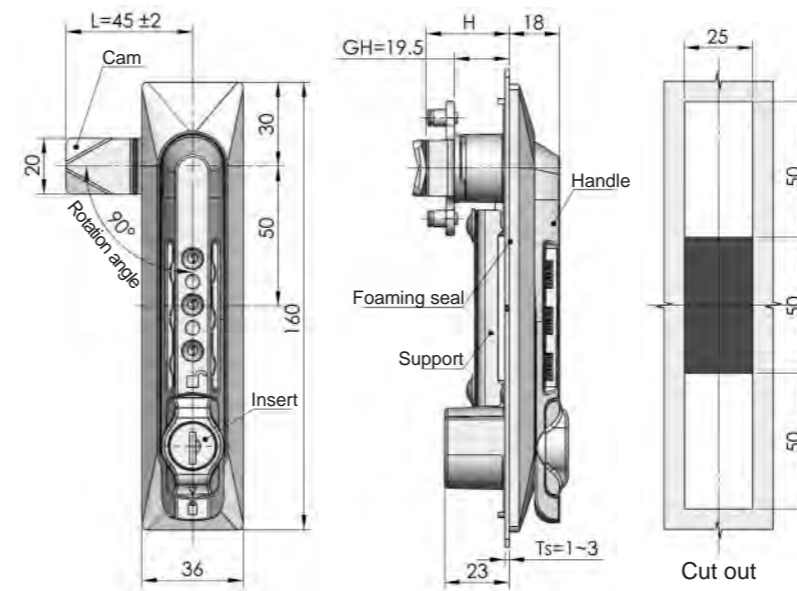
**MS861-2A**



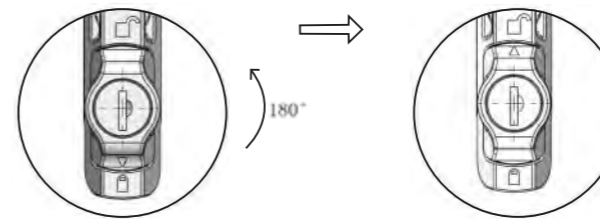
**RL IP54 3PL**

**Main material and finish:** Black PA housing, handle and knob, white zinc-plated steel cam and support  
**Application:** Refer to instruction along with  
**Remarks:** Default key K140

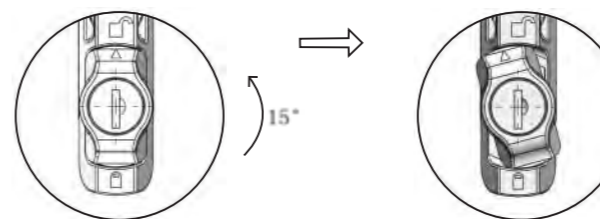
**Default cam: 2882451017**



Use key to open the lock, without password



Enter password to open the lock, open lock with password instead of key, original password: "0,0,0"



Change the password (It is correct), when knob indicates opening position, anti-clockwise rotation 15 degree to change the password

<b>ERP</b>	MS861N00140001
------------	----------------

Remark: Default cam S3B4510 ( Optional cam 8\*8 )

Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket

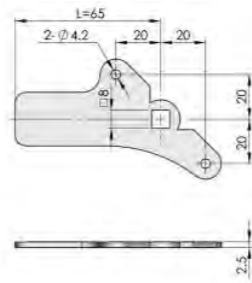
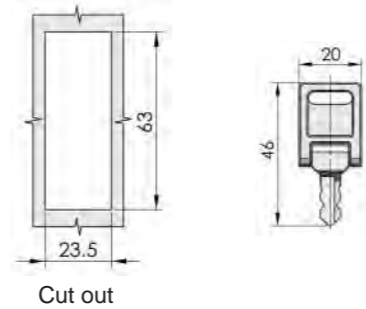
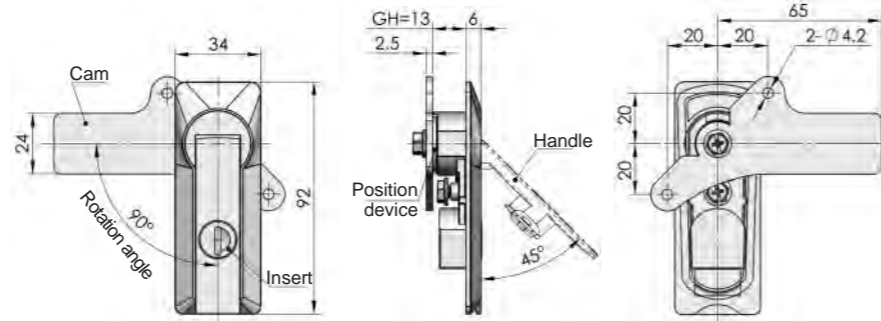
Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket

**MS723**



**RL**

**Main material and finish:** Nanometer painted ZDC housing and handle, white zinc-plated steel cam  
**Application:** Open the handle upward, quarter-turn opening  
**Remarks:** Default key K082  
**Default cam:** S3B65Y00002

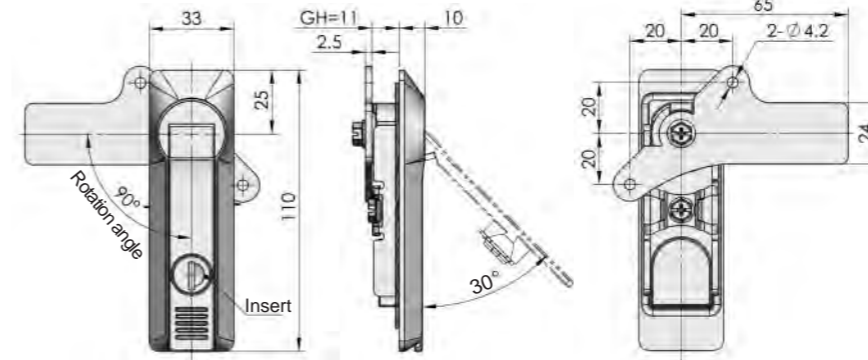


Default cam S3B6500

**ERP** MS723Z2B080001  
 Remark: Default cam is S3B6500

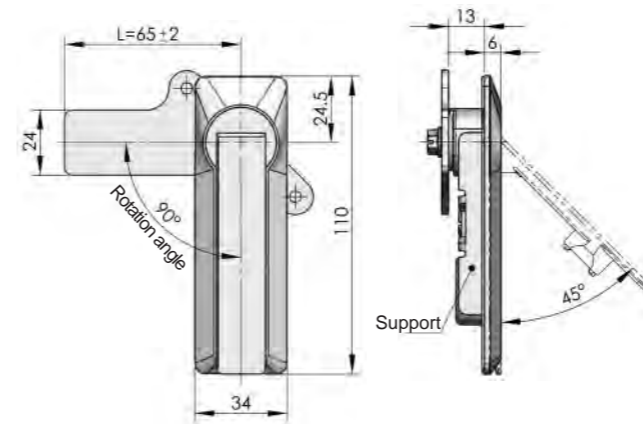
Remarks: Change the fitting position of position device and cam to adjust the height. Change the fitting direction to suit RH or LH application

**MS723-2**

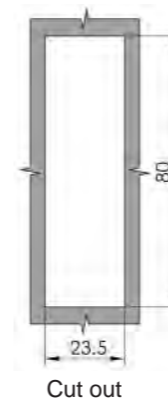


**ERP** MS723Z2B082002  
 Remark: Default cam is S3B6500

**MS723-3**



**ERP** MS723Z2B000001  
 Remark: Default cam is S3B6500



Cut out

**Default key**



**MS723-3**



**RL IP54**

**Main material and finish:** Nanometer painted ZDC housing and handle  
**Application:** Quarter-turn opening or closing, adjust cam direction to realize RH or LH application  
**Remarks:** Default key K082

**Default cam:** S3B65Y00002

Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket



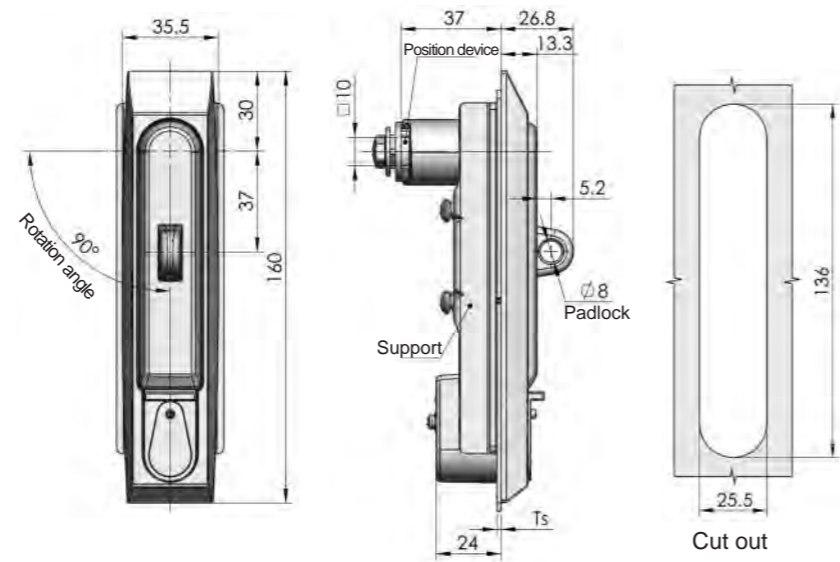
**MS834-5**

**RL** **IP64** **3PL**

**Main material and finish:** Black powder coated ZDC housing and handle, bright chrome-plated ZDC profile cylinder, stainless steel support

**Application:** Open the handle upward, quarter-turn opening or closing, padlockable

**Remarks:** Default key K043



	MS834-5-P with padlock	MS834-5 without padlock
<b>ERP</b>	MS834Z1A043001	MS834Z1A043003

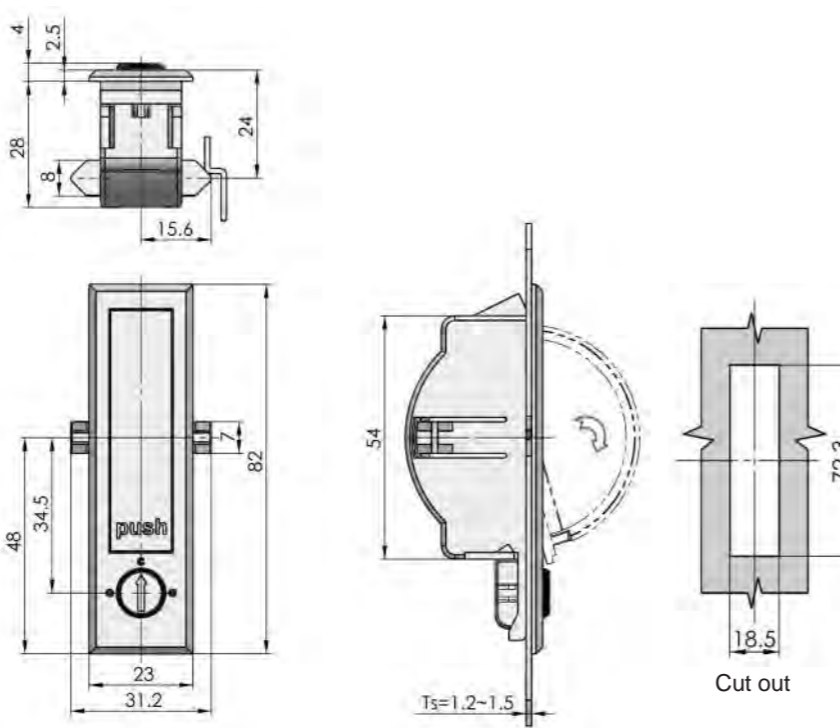
Remarks : ERP excludes cam (optional 10\*10)



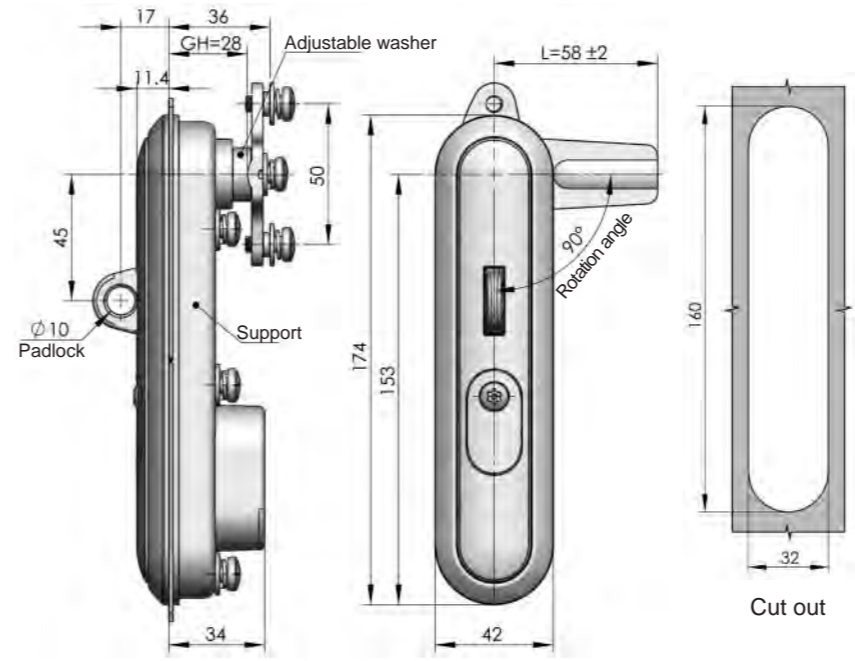
**MS720-3**

**Main material and finish:** PA housing, cap, handle

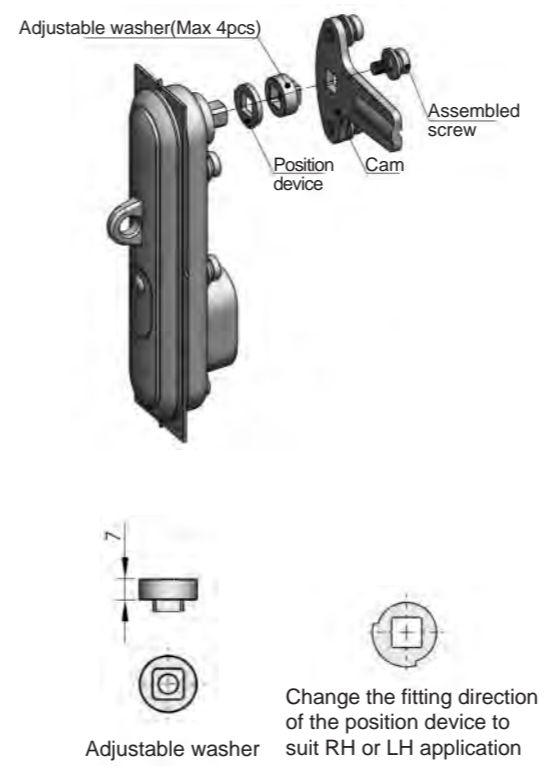
**Application:** Cap is rotated from C to O, press button "push" and rotate and pull the handle to open the door



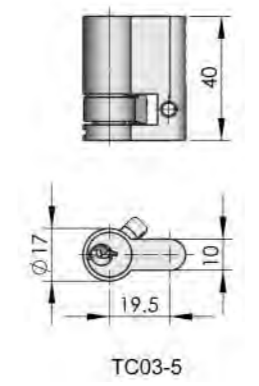
<b>ERP</b>	MS720N0000001
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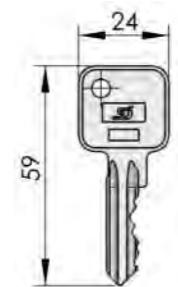
**Exploded sketch**



**Default profile cylinder**



**Default key**



	MS864-4-3D with padlock	MS864-4-3D-P without padlock
<b>ERP</b>	MS864Z2E142001	MS864Z2EE03003

Remark: Default key S3C58Y00 (Optional 10\*10 cam)



**MS864-4**

**RL** **IP64**

**Main material and finish:** Black painted ZDC housing and handle(high salt mist resistance)

**Application:** Quarter-turn opening or closing, position device direction to suit RH or LH application, padlockable

**Remarks:** Default profile cylinder TC03-5

**Default cam:** 2888648002

	MS864-4-3D with padlock	MS864-4-3D-P without padlock
<b>ERP</b>	MS864Z2E142001	MS864Z2EE03003

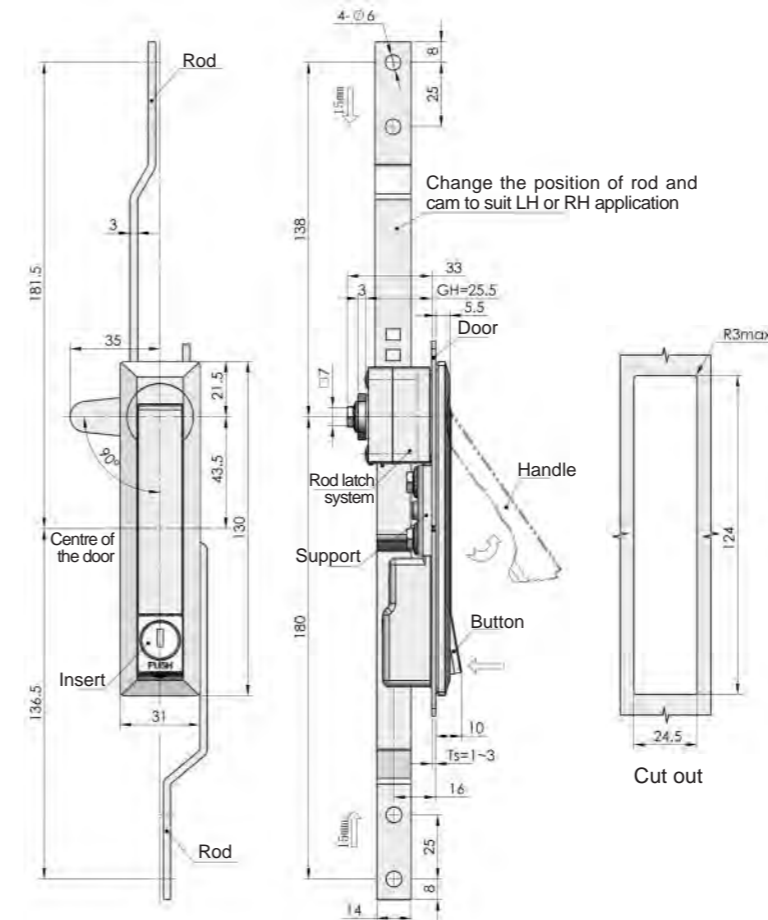
Remark: Default key S3C58Y00 (Optional 10\*10 cam)

Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket

# ROD CONTROL LOCK SERIES



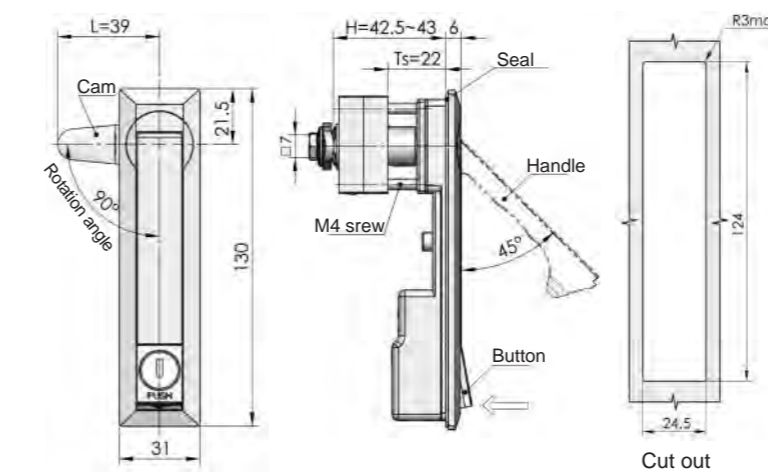
## MS731-1



	Black painted housing, handle	Nanometer painted housing, handle
ERP	MS731Z2A060001	MS731Z2B060001

Remark: Default cam S1A3500

## MS731-2



	Black painted housing, handle	Nanometer painted housing, handle
ERP	MS731Z2A060003	MS731Z2B060003

Remark: Default cam S1A3900

## MS731-1



## MS731-2



**Main material and finish:** ZDC housing, handle, button and rod latch, white zinc-plated steel cam and rod

**Application:** 90 degree rotation to open or close

**Remarks:** Default key K060

- Accessories
- Handle lock
- Cylinder lock
- Electronic lock
- Swing handle
- Rod control lock
- Panel lock
- Toggle and hook
- Handles
- Door stop
- Hinge
- Seal gasket





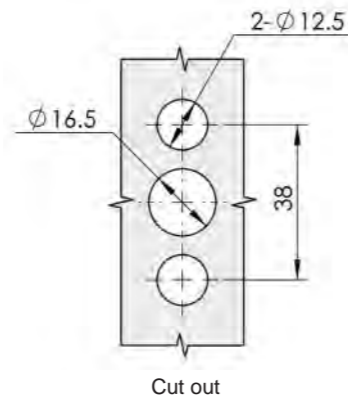
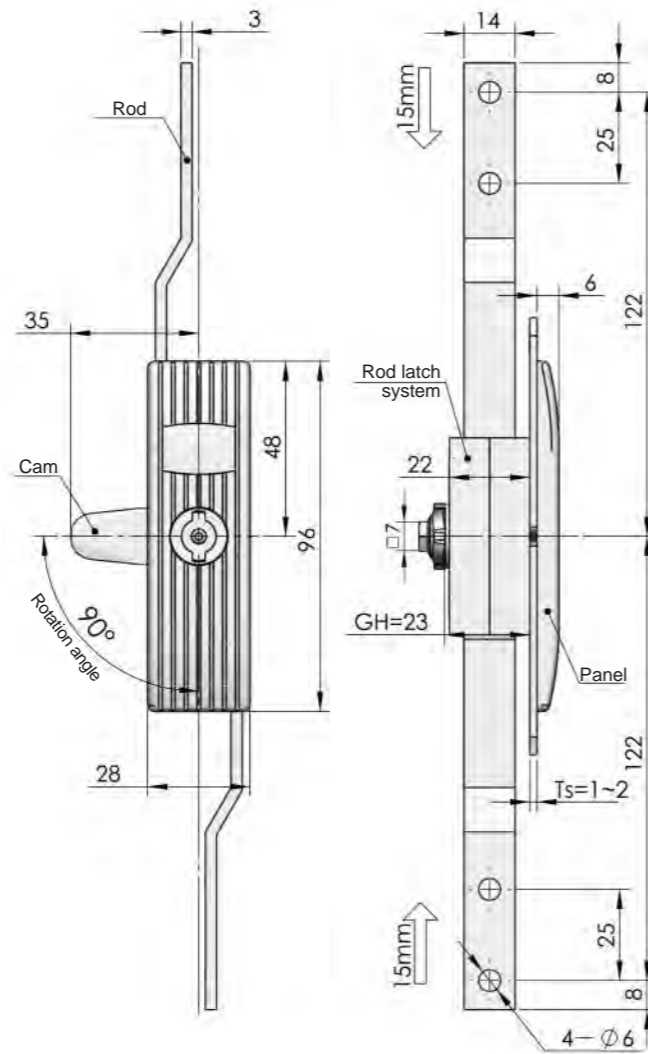
Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket

**MS820-1A**



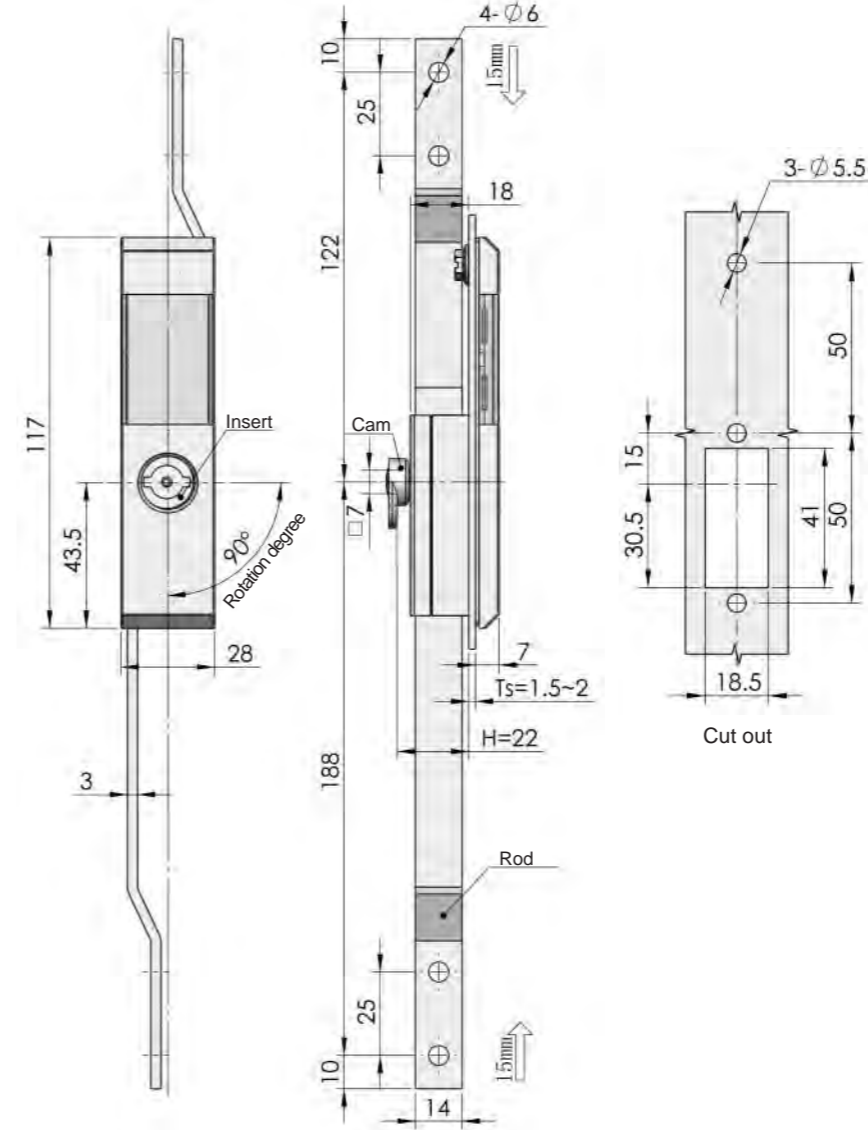
**R L IP40 3PL**

**Main material and finish:** Nanometer painted ZDC insert and ABS panel, white zinc-plated steel cam and rod latch  
**Application:** Quarter-turn rotation to open or close  
**Remarks:** Optional key K15-1



Remarks: Keep rod and rod latch in place while removing the cam and insert, rotating the rod latch in 180° to suit RH or LH application

ERP MS820N2BT03001  
Remarks: Default cam S1A3500



Remarks: Change rod and cam position to suit RH or LH application

ERP MS821N00T01001

**MS821**



**R L IP40 3PL**

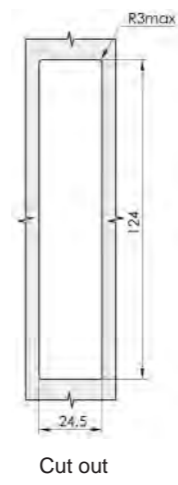
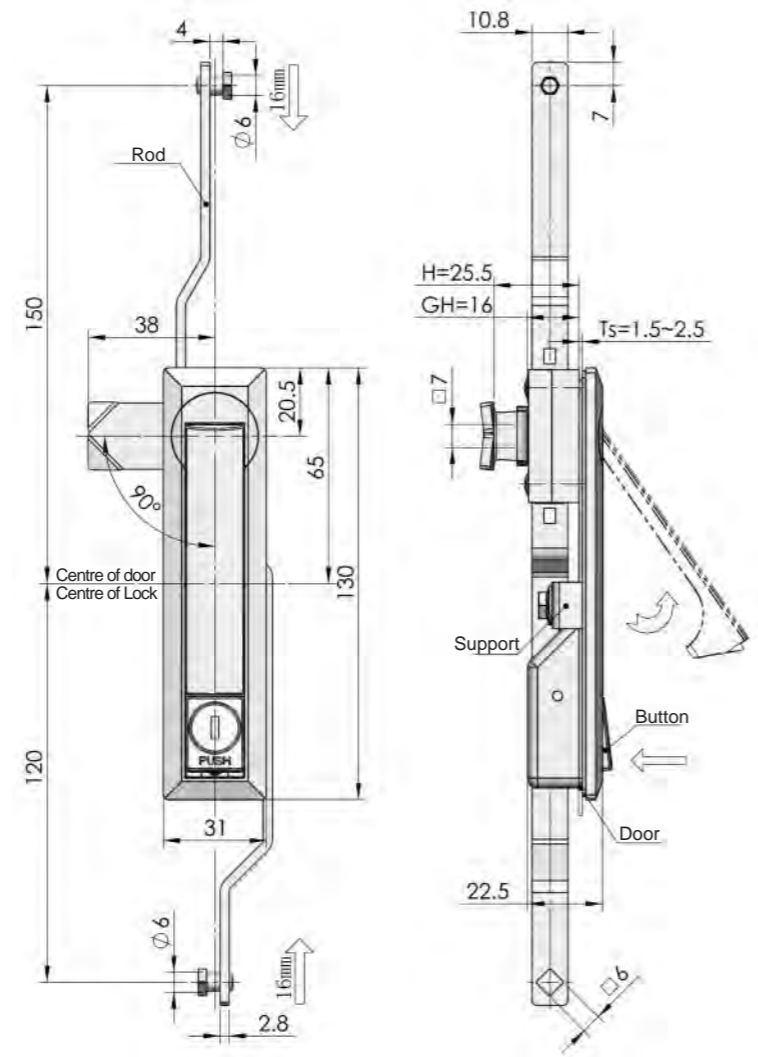
**Main material and finish:** Bright chrome plated ZDC insert, yellow gray ABS panel, white zinc-plated steel cam and ZDC rod latch, steel rod  
**Application:** Insert quarter-turn rotation combines with rod latch system to open or close  
**Remark:** Optional key K15-1

Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket



**R L IP40 3PL**

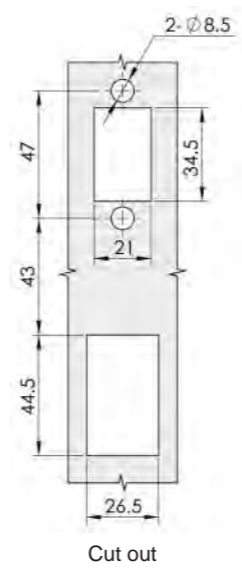
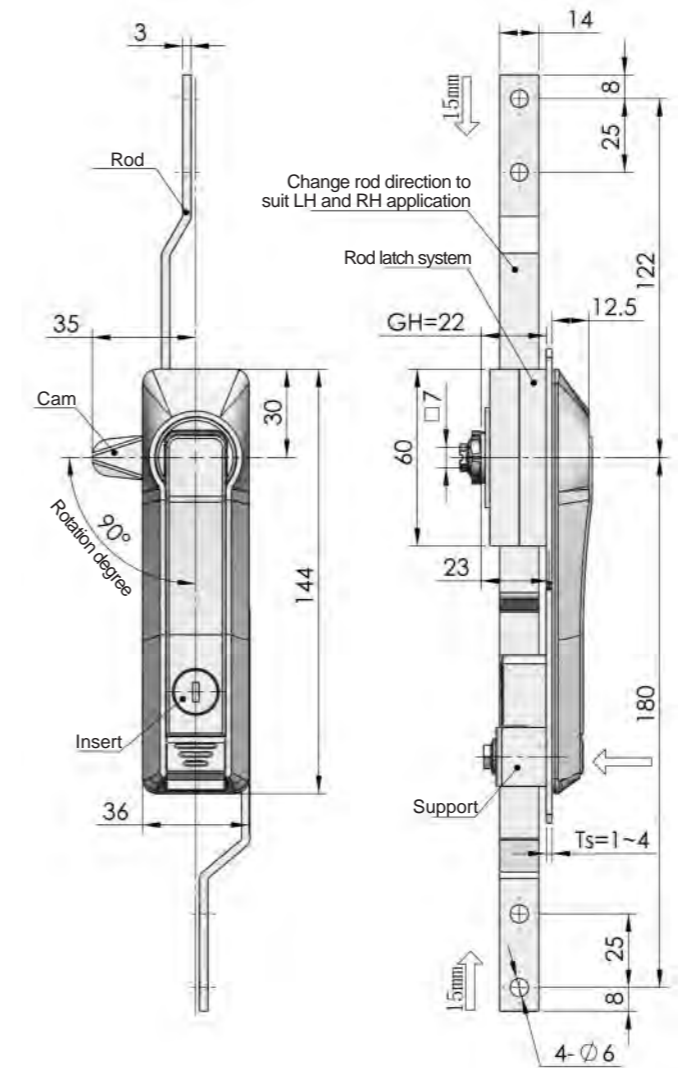
**Main material and finish:** Nanometer -painted ZDC housing, handle,button and support, white zinc-plated steel cam and rod latch, steel rod  
**Application:** Insert 180 degree rotation to open, press the button, the handle bounce automatically, rotation handle to open or close the door plate  
**Remarks:** Default key K060



Remarks: Change rod and cam position to suit RH or LH application

Specification	Model	ERP
LH	MS731-6-Z	MS731Z2B060007
RH	MS731-6-Y	MS731Z2B060008

Remark: Default cam S1A3810



	Matt black powder coated	Nanometer
ERP	MS828Z1A100001	MS828Z2B100017

Remark: Default cam S1A3500



**R L IP54 3PL**

**Main material and finish:** Nanometer painted ZDC housing,handle,and button, ZDC support,white zinc-plated steel cam and rod latch, steel rod  
**Application:** Insert 180 degree rotation to open, press the button, the handle bounce automatically, handle turn combines with rod latch system to open or close  
**Remarks:** Default key K100

Accessories
Handle lock
Cylinder lock
Electronic lock
Swing handle
Rod control lock
Panel lock
Toggle and hook
Handles
Door stop
Hinge
Seal gasket

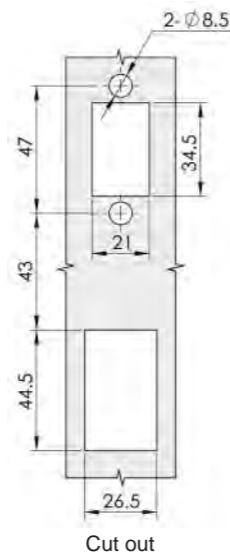
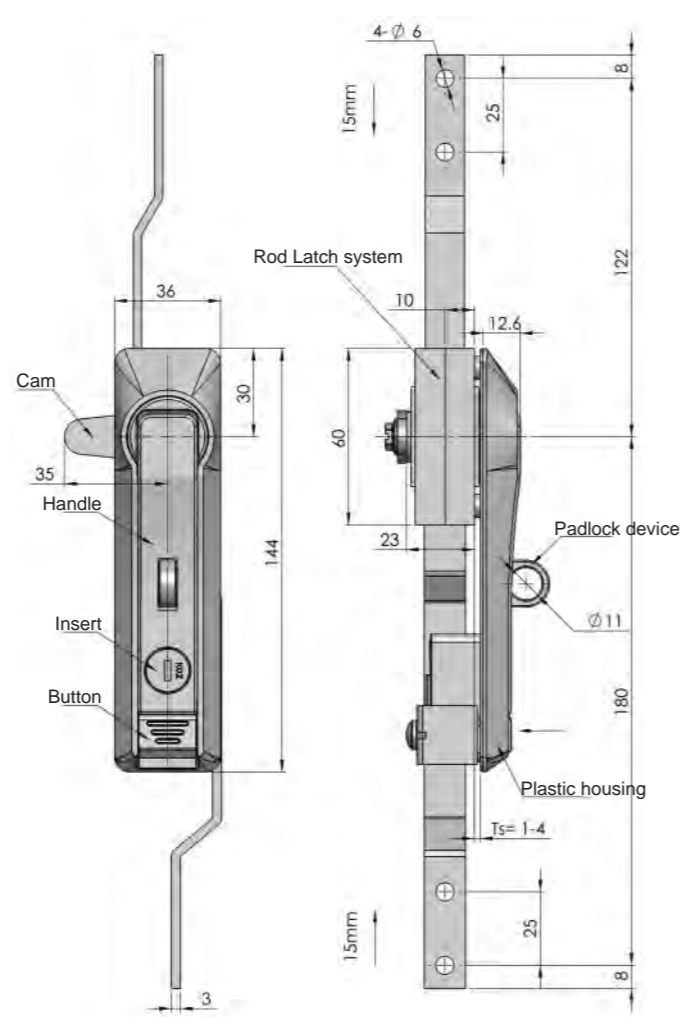
**MS828-1F**



**Main material and finish:** Plastic housing with metal part, Black painted ZDC handle, shaft, button, white zinc plated ZDC rod latch system, white zinc plated steel rod and cam

**Remarks:** Default key K020

**Default cam:** S1A35Y00001



Remark: MB1 series rod latch system

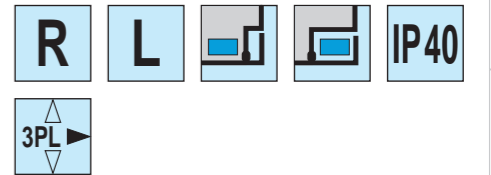
**MS828-1F advantage compare with MS828**

1. The plastic housing together with ZDC part with a certain extent hardness
2. Lock tighten function is better as the change of lock position close to the front side of housing
3. The design include the position for padlock device, with or without padlock device for choose

	MS828-1F Without padlock device	MS828-1F-P With padlock device
<b>ERP</b>	MS828N00100001	MS828N00200002

Remarks: Default cam S1A3500

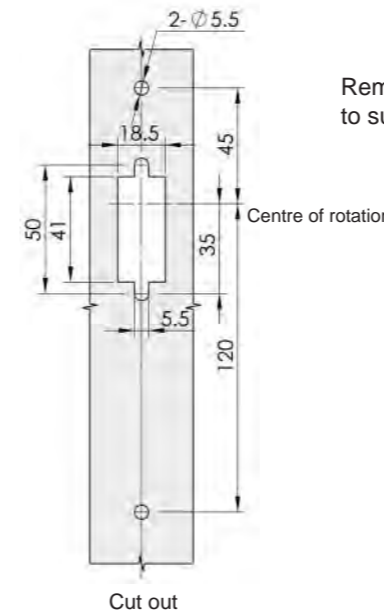
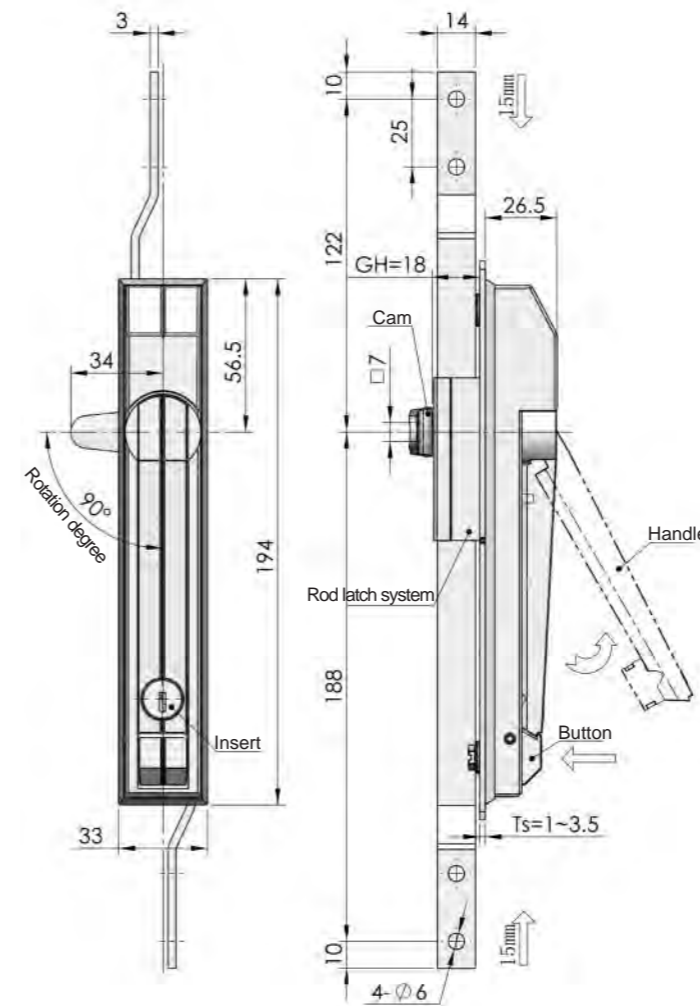
**MS829**



**Main material and finish:** Yellow gray powder coated ZDC housing, black powder coated ZDC handle and button, white zinc plated steel cam and rod latch

**Application:** Handle quarter-turn combines with rod latch system to open or close

**Remarks:** Default key K060



Remarks: Change rod and cam position to suit RH or LH application

<b>ERP</b>	MS829Z1E060001
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Remarks: Default cam S1A3405

**MS830**



**Finish:** Yellow gray powder coated housing, black powder coated handle and shaft

**MS830-3**



**Finish:** Nanometer painted

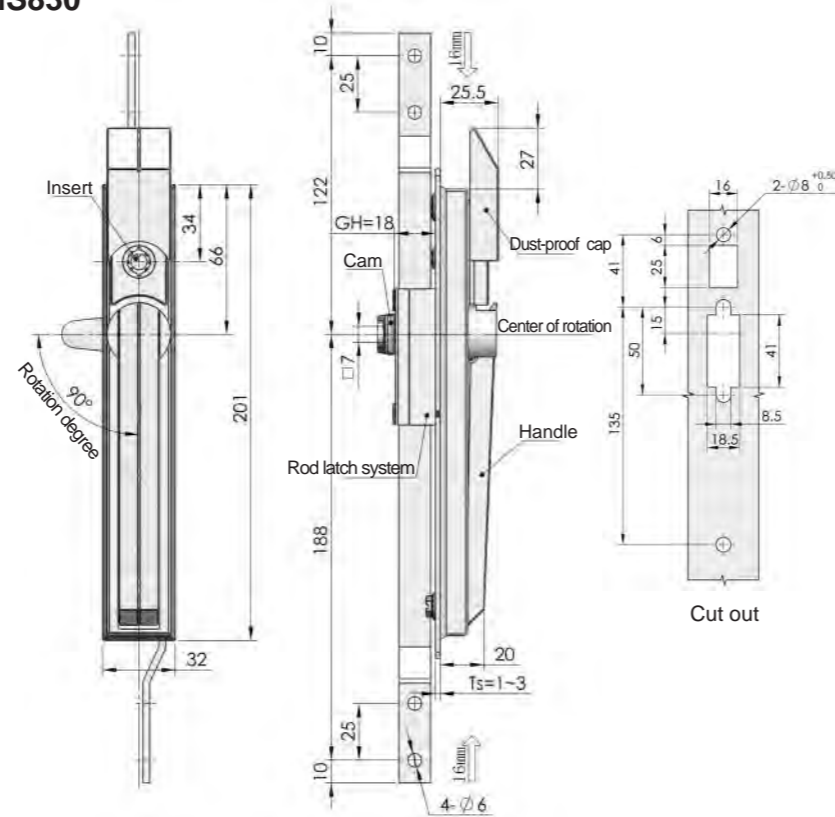


**Main material and finish:** ZDC housing, handle, and dust-proof cap, white zinc-plated steel cam and rod-latch

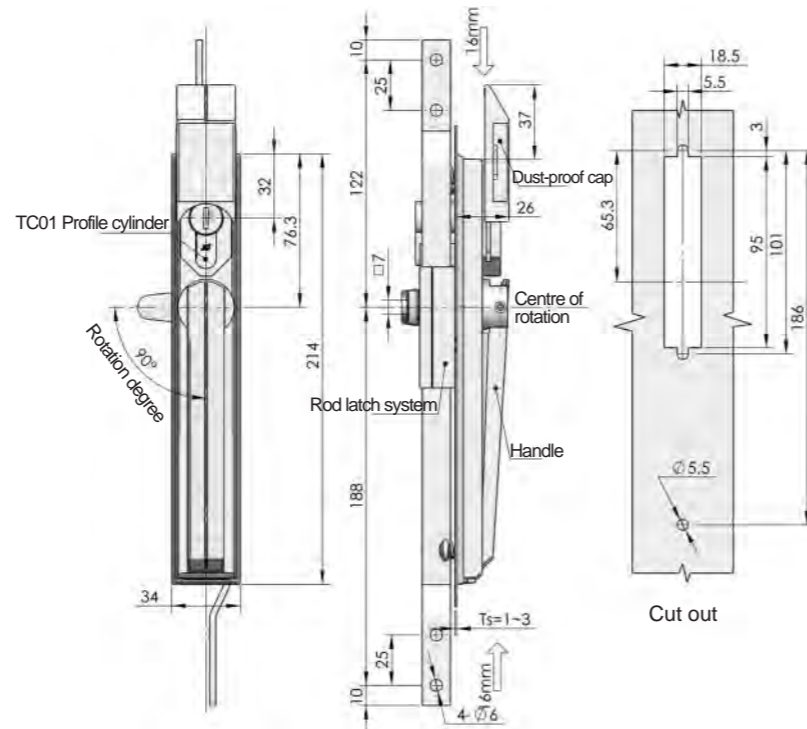
**Application:** Handle quarter-turn combines with rod latch system to open or close

**Remarks:** MS830 default key K580  
MS830-3 default key K140

**MS830**



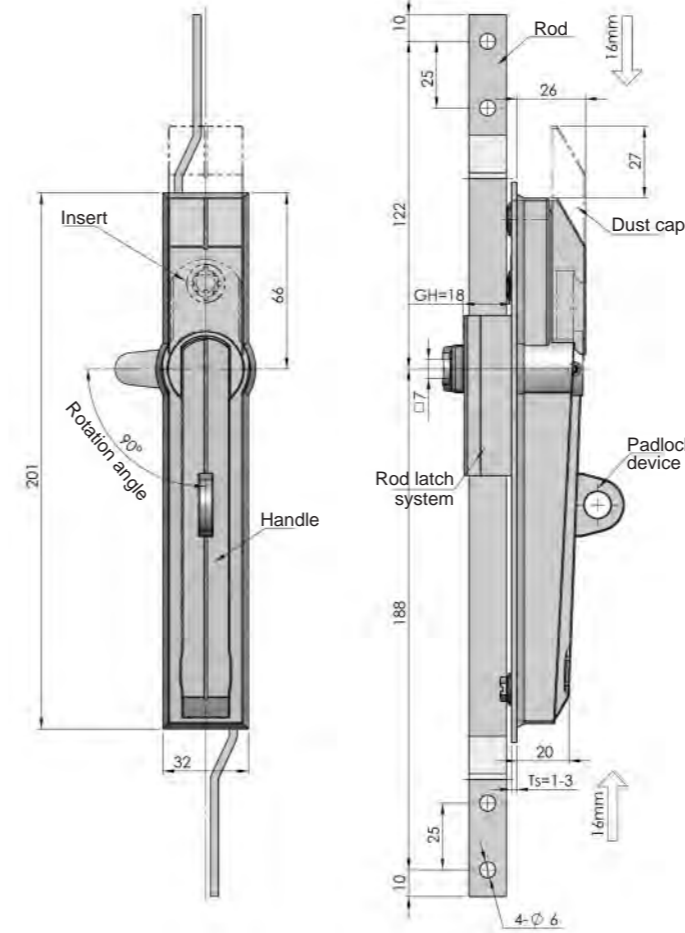
**MS830-3**



Remarks: Change rod and cam position to suit RH or LH application

	MS830	MS830-3
ERP	MS830Z1EE04001	MS830Z2B140003

Remarks: Default cam S1A3500



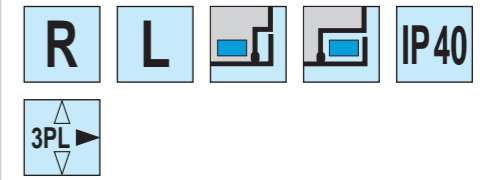
**The advantage of MS830-6 when compare with MS830**

- Promote the reliability of latch function and theft-prevent function
- Handle can bounce after open the lock

Specification	Model	ERP
with padlock device, insert with self-reset function	MS830-6-2P	MS830Z2BE04031
without padlock device, insert with self-reset function	MS830-6-2	MS830Z2BE04030
with padlock device, insert without self-reset function	MS830-6-1P	MS830Z2BE04023
without padlock device, insert without self-reset function	MS830-6-1	MS830Z2BE04022

Remarks: Default cam S1A3405

**MS830-6**



**Main material and finish:** Nanometer-painted ZDC housing and dust cap, black painting ZDC handle and shaft, ZDC rod latch, steel rod, cam and connection

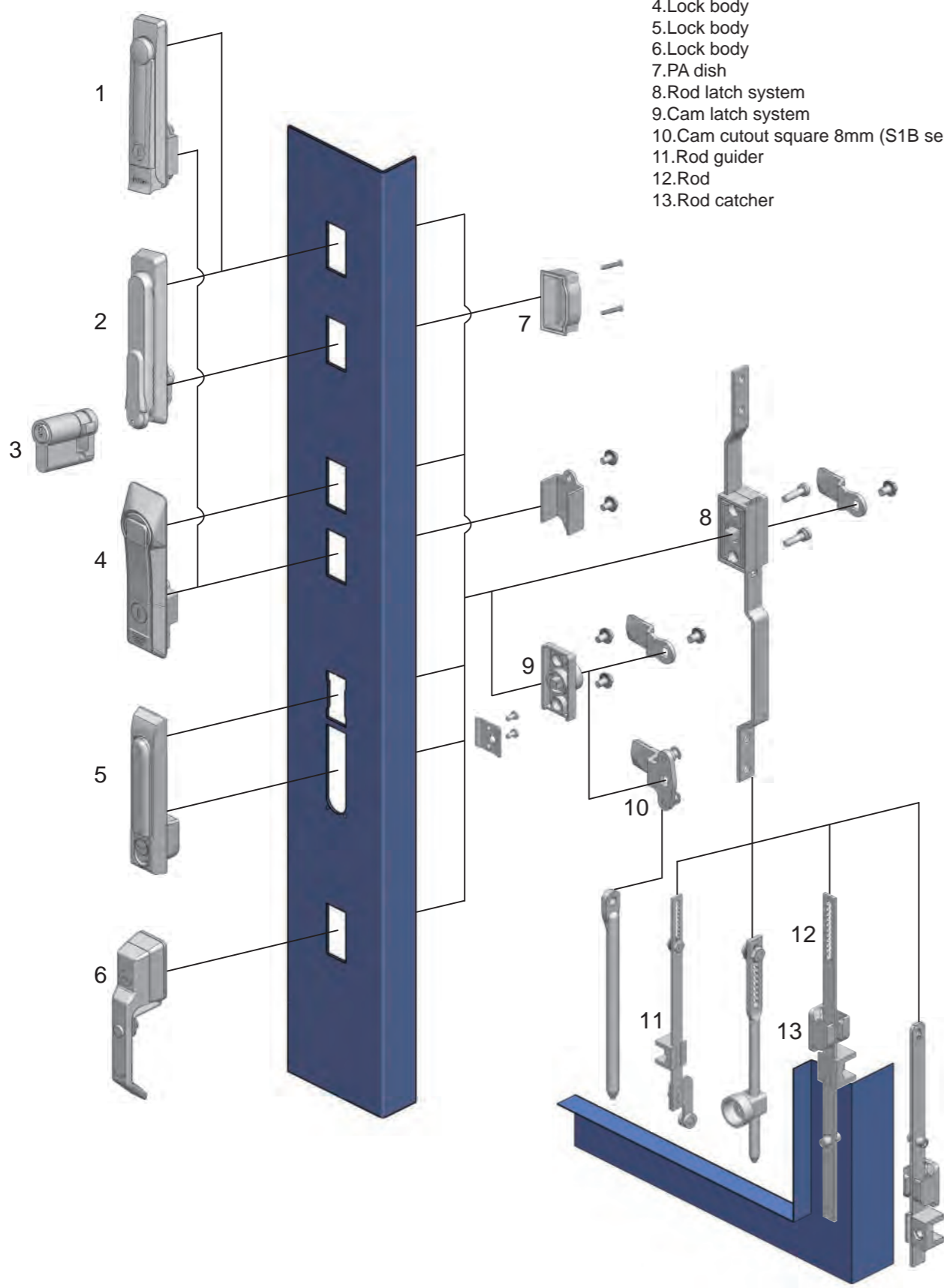
**Remarks:** Default K580 key

**Default cam:** S1A34Y05001

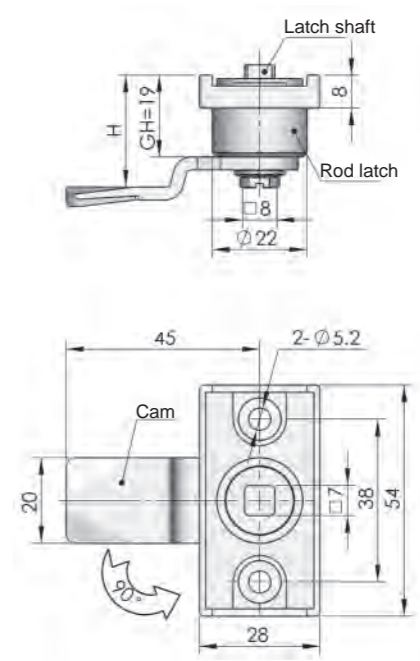
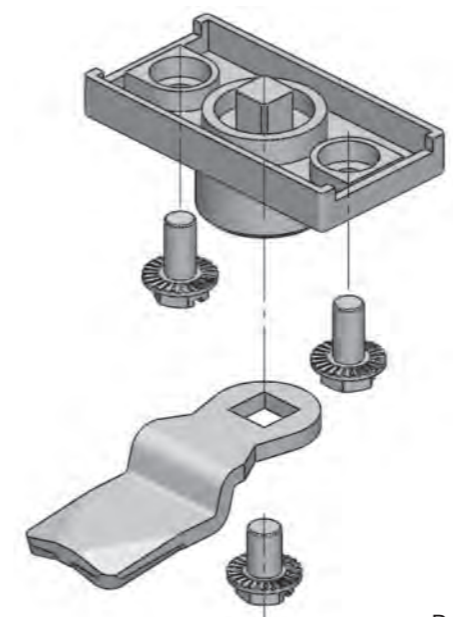
Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket

Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket

- 1.Lock body
- 2.Lock body
- 3.Profile cylinder
- 4.Lock body
- 5.Lock body
- 6.Lock body
- 7.PA dish
- 8.Rod latch system
- 9.Cam latch system
- 10.Cam cutout square 8mm (S1B series)
- 11.Rod guider
- 12.Rod
- 13.Rod catcher

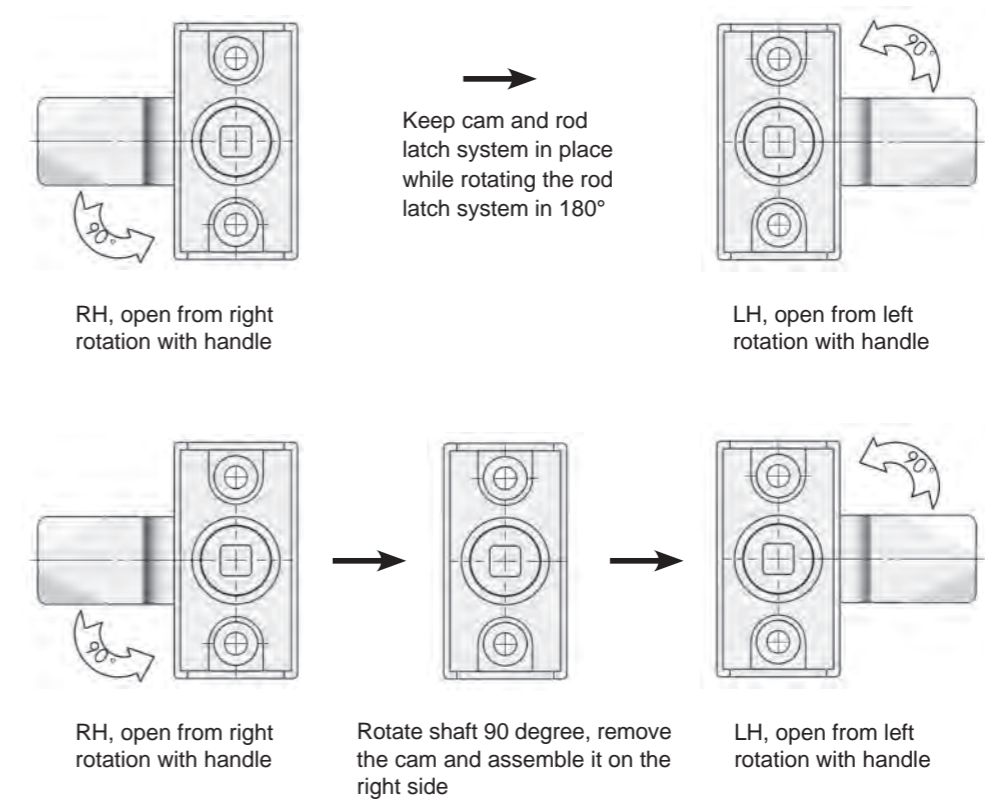


**Cam latch system Mb90**



Remarks: Default rod latch system, closing position, quarter-turn rotation, cam cutout square 8mm, optional cam series S1B, S2B, S3B, detailed cam list on P007  
Default one-point cam S1B4507, H=19+7, length 45  
Default three-point cam S3B4510, H=19+10

**RH and LH application example**





Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket

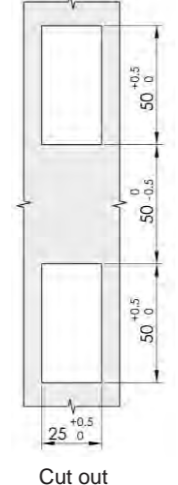
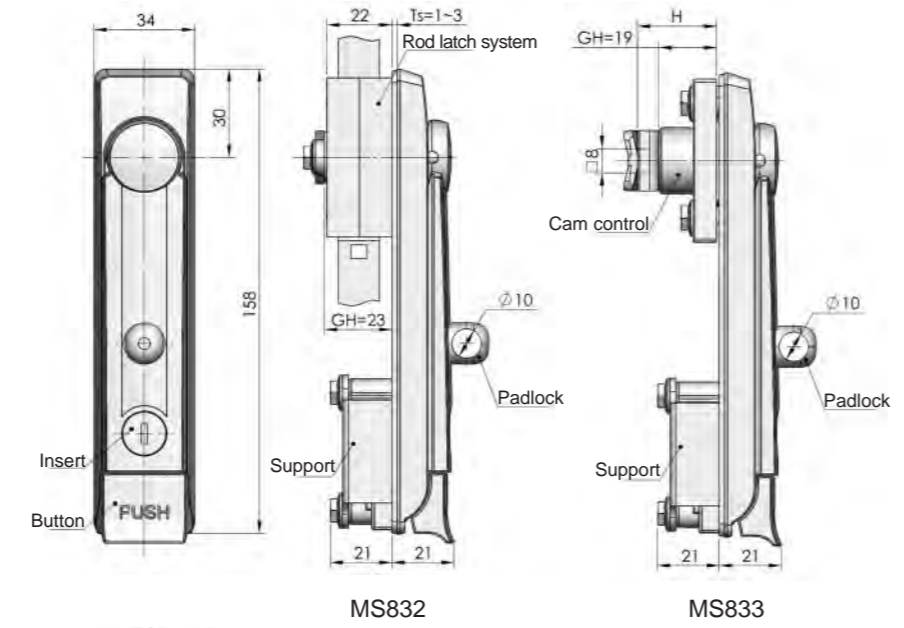


**Main material and finish:** Pocked black powder coated ZDC handle, housing and button, ZDC dust-proof cap, white zinc-plated steel cam and rod

**Application:** Quick-open, easy assembling, 90 degree handle rotation combines with rod latch to open or close

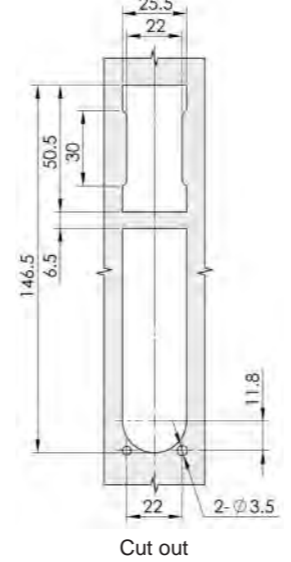
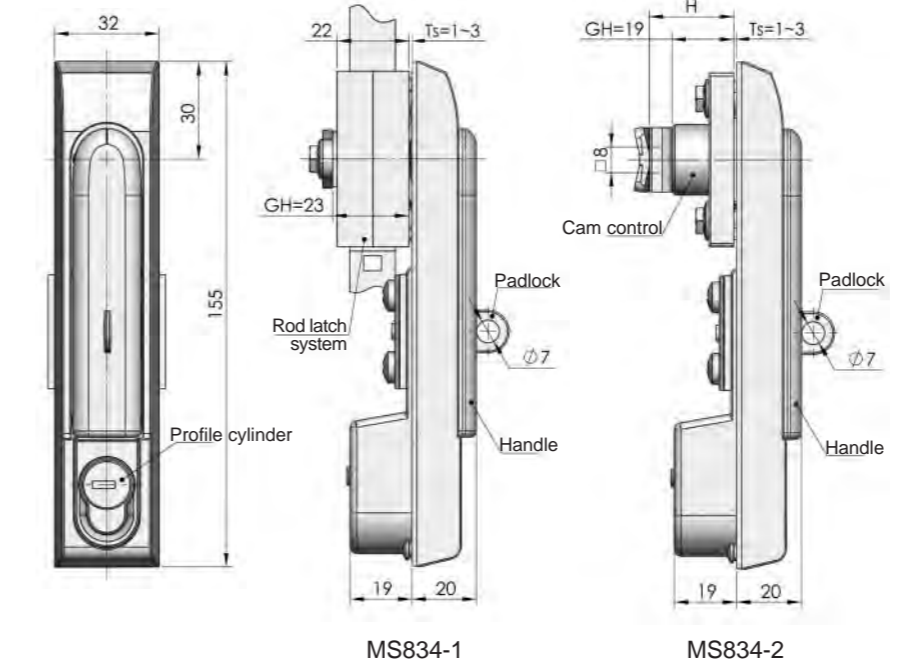
**Remarks:** Default key K030

**Default cam:** S1A35Y00001(Rod latch type)  
S1B45Y07002(Cam type)



Optional Accessories:  
See cam latch system Mb9 series on P174  
Rod latch system Mb0 series on P175

Specification	Model	ERP
With button, optional rod latch system Mb01	MS832-1	MS832Z1B030001
With button, optional rod latch system Mb01, padlockable	MS832-1P	MS832Z1B030002
With button, optional rod latch system Mb02	MS832-1-2	MS832Z1B030015
With button, optional rod latch system Mb02, padlockable	MS832-1-2P	MS832Z1B030014
Without button, optional rod latch system Mb01	MS832-2	MS832Z1B030005
Without button, optional rod latch system Mb01, padlockable	MS832-2P	MS832Z1B030006
Without button, optional rod latch system Mb02	MS832-2-2	MS832Z1B030015
Without button, optional rod latch system Mb02, padlockable	MS832-2-2P	MS832Z1B030016
With button	MS833	MS833Z1B030001
With button, padlockable	MS833-1P	MS833Z1B030016
Without button	MS833-2	MS833Z1B030003
Without button, padlockable	MS833-2P	MS833Z1B030018



Optional Accessories:  
See cam latch system Mb9 series on P174  
Rod latch system Mb0 series on P175  
Profile cylinder on P029

Specification	Model	ERP
Optional rod latch system Mb01	MS834-1	MS834Z1A040001
Optional rod latch system Mb02	MS834-1-2	MS834Z1A040009
Cam latch system	MS834-2	MS834Z1A030027



**Main material and finish:** Black powder coated ZDC handle and housing, bright chrome-plated ZDC profile cylinder, white zinc-plated steel cam and rod latch, steel rod

**Application:** Quick-open, easy assembling, 90 degree handle rotation combines with rod latch to open or close

**Remarks:** Default profile cylinder TC04-1, default key K040

**Default cam:** S1A35Y00001(Rod latch type)  
S1B45Y07002(Cam type)

Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket

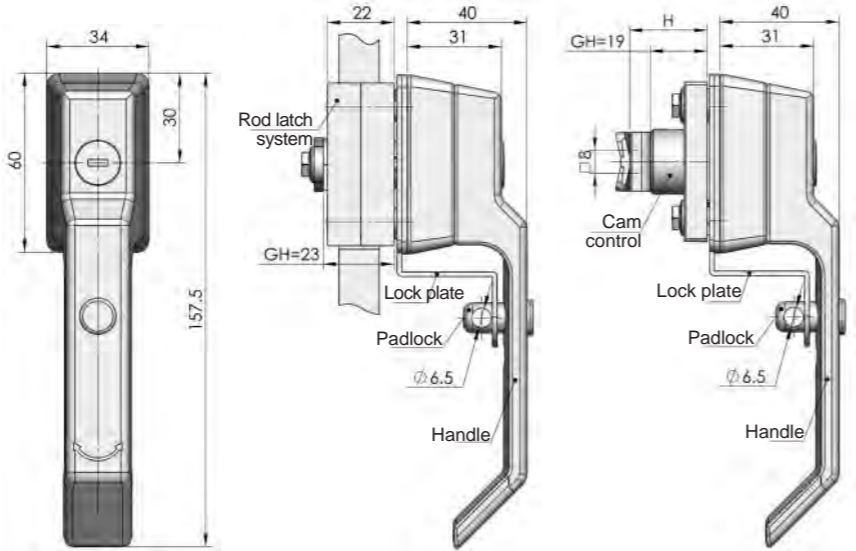


Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket

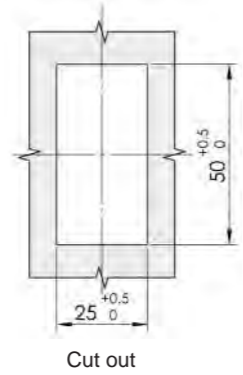


**Main material and finish:** Nanometer painted ZDC handle and housing, white zinc-plated steel cam and rod, brass shaft  
**Application:** 90 degree handle rotation combines with rod latch to open or close  
**Remarks:** Default key K030

**Default cam:** S1A35Y00001(Rod latch type)  
 S1B45Y07002(Cam type)



MS835-1 MS835-2



Remarks: Door thickness Ts=1~2mm( Padlockable ),  
 Ts=1~4( Unpadlockable )

Optional Accessories:  
 See cam latch system Mb9 series on P174  
 Rod latch system Mb2 series on P175

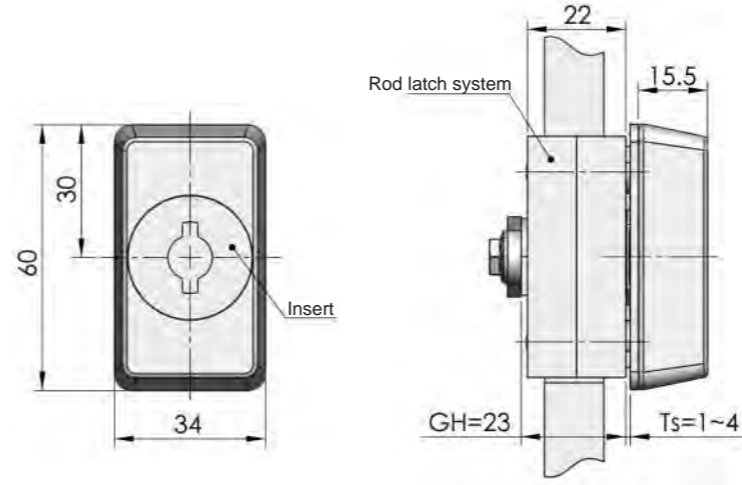
Specification	Model	ERP
Optional rod latch system Mb21	MS835-1	MS835Z2B030001
Optional rod latch system Mb21, padlockable	MS835-1P	MS835Z2B030002
Optional rod latch system Mb22	MS835-1-2	MS835Z2B030003
Optional rod latch system Mb22, padlockable	MS835-1-2P	MS835Z2B030004
Cam latch system	MS835-2	MS835Z2B030013
Cam latch system, padlockable	MS835-2P	MS835Z2B030006

Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket

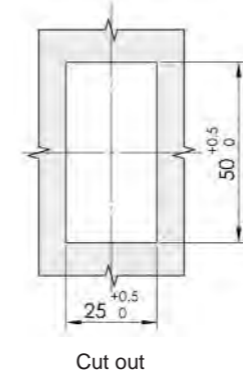


**Main material and finish:** Nanometer painted ZDC housing and insert, white zinc-plated steel cam and rod  
**Application:** 90 degree handle rotation combines with rod latch to open or close  
**Remarks:** Optional key K15-1

**Default cam:** S1A35Y00001(Rod latch type)  
 S1B45Y07002(Cam type)



MS836-1



Optional Accessories:  
 See cam latch system Mb9 series on P174  
 Rod latch system Mb2 series on P175

Specification	Model	ERP
Optional rod latch system Mb21	MS836-1	MS836Z2BT03001
Optional rod latch system Mb22	MS836-1-2	MS836Z2BT03002
Cam latch system	MS836-2	MS836Z2BT03003

Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket

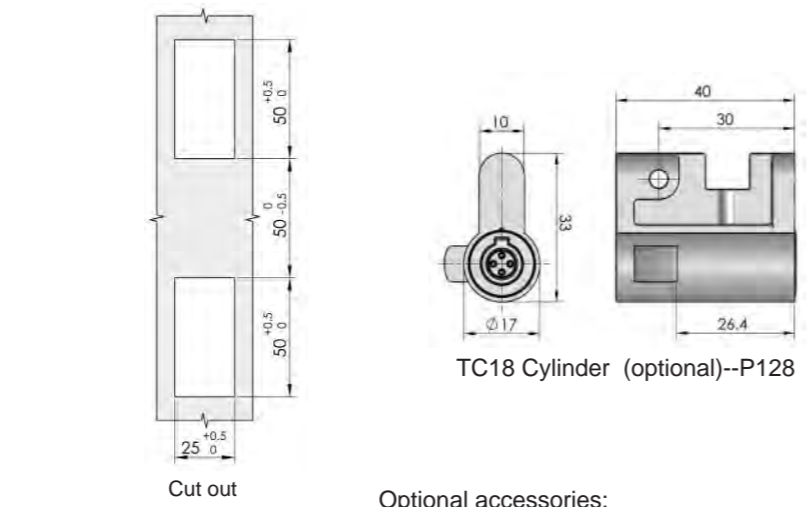
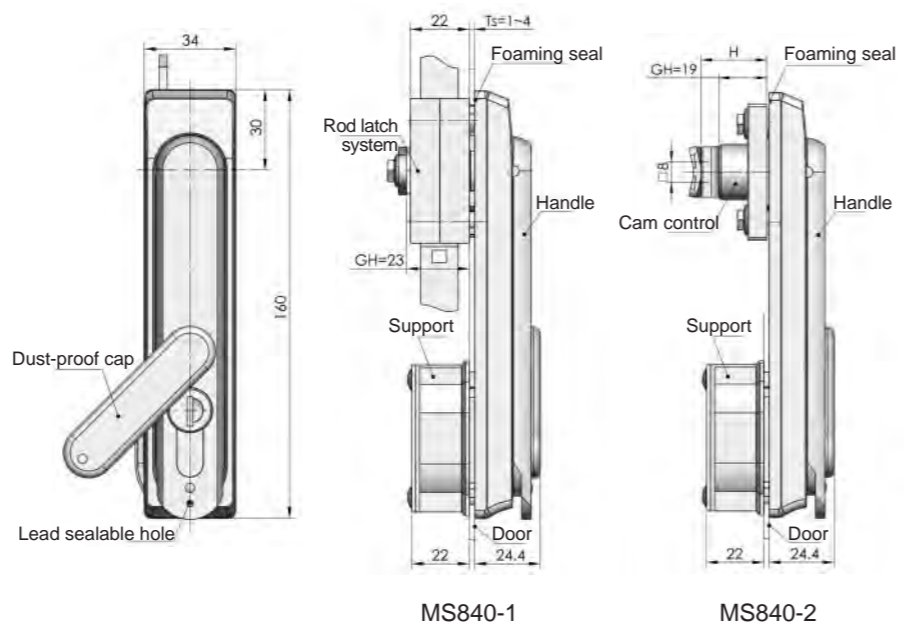


**Main material and finish:** Pocked black powder coated ZDC housing and handle, ZDC profile cylinder, white zinc-plated steel cam and rod

**Application:** 90 degree handle rotation combines with rod latch to open or close

**Remarks:** Default key K140

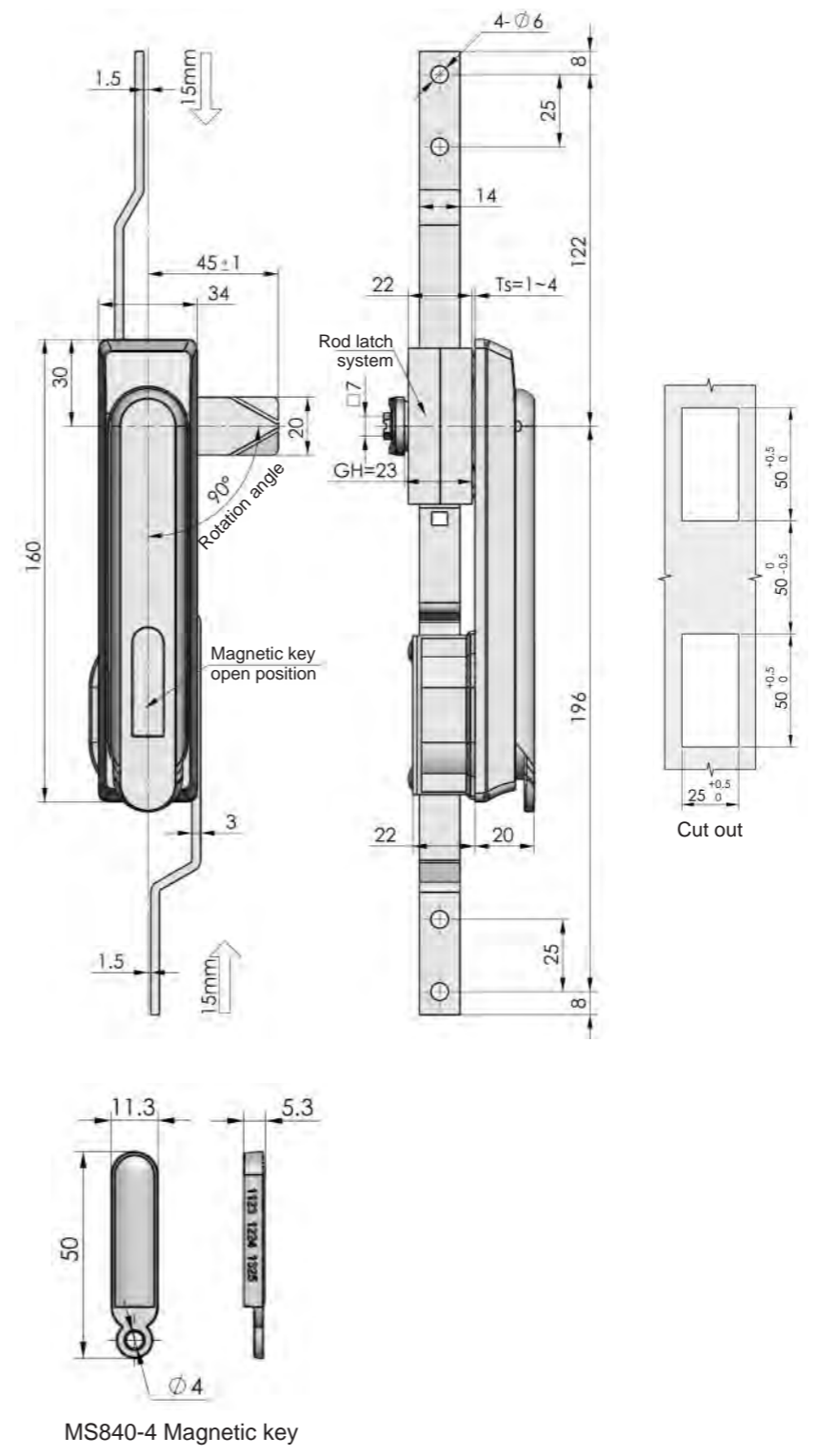
**Default cam:** S1A35Y00001(Rod latch type)  
S1B45Y07002(Cam type)



Optional accessories:  
See cam latch system Mb9 series on P174  
Rod latch system Mb0 series on P175  
TC01/TC02/TC03 profile cylinder on P029

Remarks: PA housing or ZDC housing, default ZDC housing

Specification	Model	ERP
Optional rod latch system Mb01	MS840-1	MS840Z1B140001
Optional rod latch system Mb01, padlockable	MS840-1P	MS840Z1B140002
Optional rod latch system Mb02	MS840-1-2	MS840Z1B140019
Optional rod latch system Mb02, padlockable	MS840-1-2P	MS840Z1B140020
Cam latch system	MS840-2	MS840Z1B140064
Cam latch system, padlockable	MS840-2P	MS840Z1B140014



MS840-4 Magnetic key

**ERP** MS840Z1B00006

Remarks: Default cam S1A4500



**Main material and finish:** Black powder coated ZDC housing, handle, zinc-plated steel cam

**Application:** 45 degree handle uplift rotation combines with cam to open or close, Open lock from left hand or right hand need change the set angle of limit part and cam

**Character**

Use magnet to open or close the lock. The advantage is the lock system is not exposed and the key combinations is more than other standard cylinders. Open the lock, put the magnetic key into the groove of the handle, then put up the handle.

**MS846**

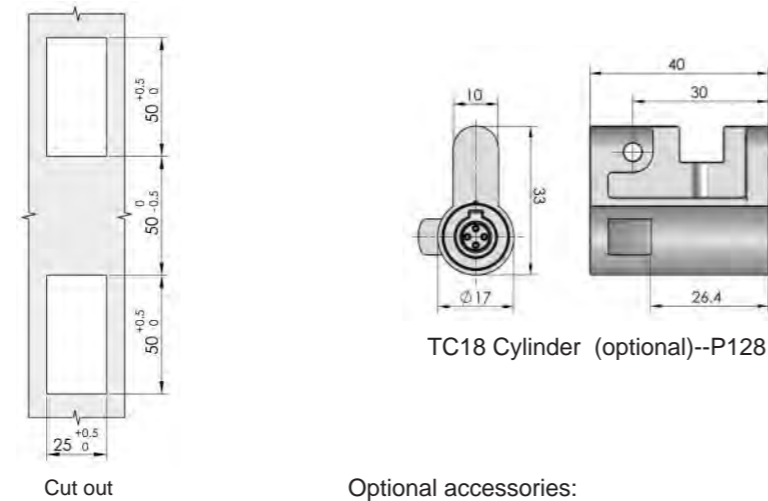
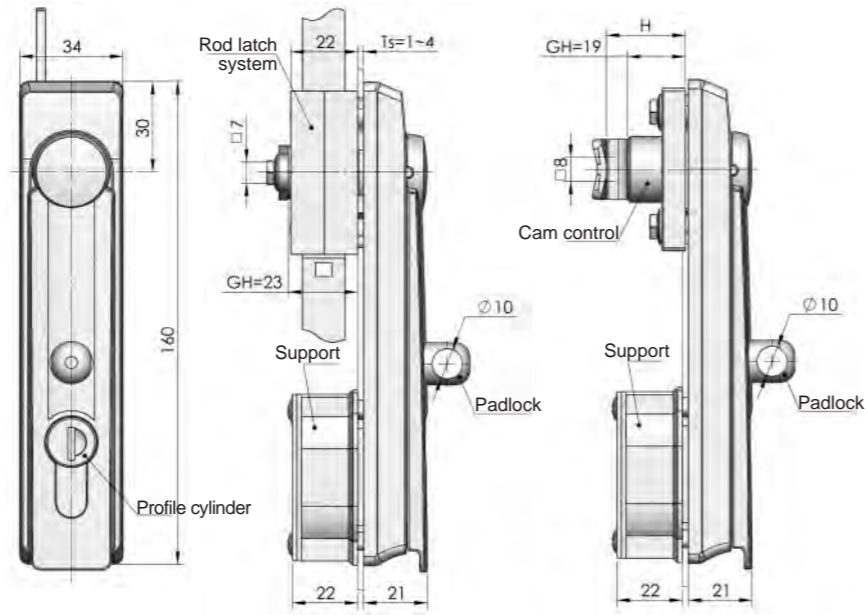


**Main material and finish:** Pocked black powder coated ZDC handle and housing, ZDC profile cylinder, white zinc-plated steel cam and rod

**Application:** 90 degree handle rotation combines with rod latch to open or close

**Remarks:** Default profile cylinder TC01, default key K140

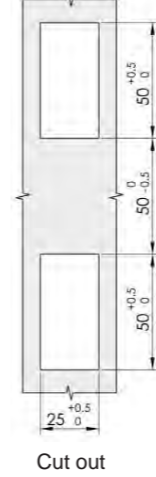
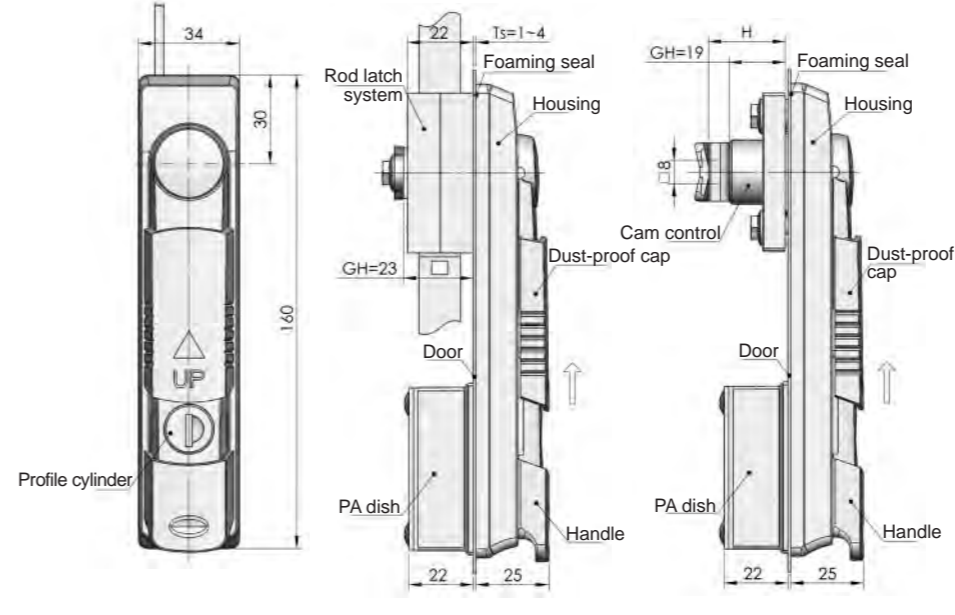
**Default cam:** S1A35Y00001(Rod latch type)  
S1B45Y07002(Cam type)



Optional accessories:  
See cam latch system Mb9 series on P174  
Rod latch system Mb0 series on P175  
TC01/TC02/TC03 profile cylinder on P029

Remarks: PA housing or ZDC housing ,default ZDC housing

Specification	Model	ERP
Optional rod latch system Mb01	MS846-1	MS846Z1B140001
Optional rod latch system Mb01, padlockable	MS846-1-P	MS846Z1B140002
Optional rod latch system Mb02	MS846-1-2	MS846Z1B140005
Optional rod latch system Mb02, padlockable	MS846-1-2P	MS846Z1B140007
Cam latch system	MS846-2	MS846Z1B140003
Cam latch system, padlockable	MS846-2-P	MS846Z1B140004



Optional accessories:  
See cam latch system Mb9 series on P174  
Rod latch system Mb0 series on P175  
TC01/TC02/TC03 profile cylinder on P029

Remarks : PA housing or ZDC housing, default ZDC housing

Specification	Model	ERP
Optional rod latch system Mb01	MS848-1	MS848Z1B140017
Optional rod latch system Mb02	MS848-1-2	MS848Z1B140004
Cam latch system	MS848-2	MS848Z1B140010

**MS848**



**Main material and finish:** Pocked black powder coated ZDC handle and housing, ZDC profile cylinder, white zinc-plated steel cam and rod

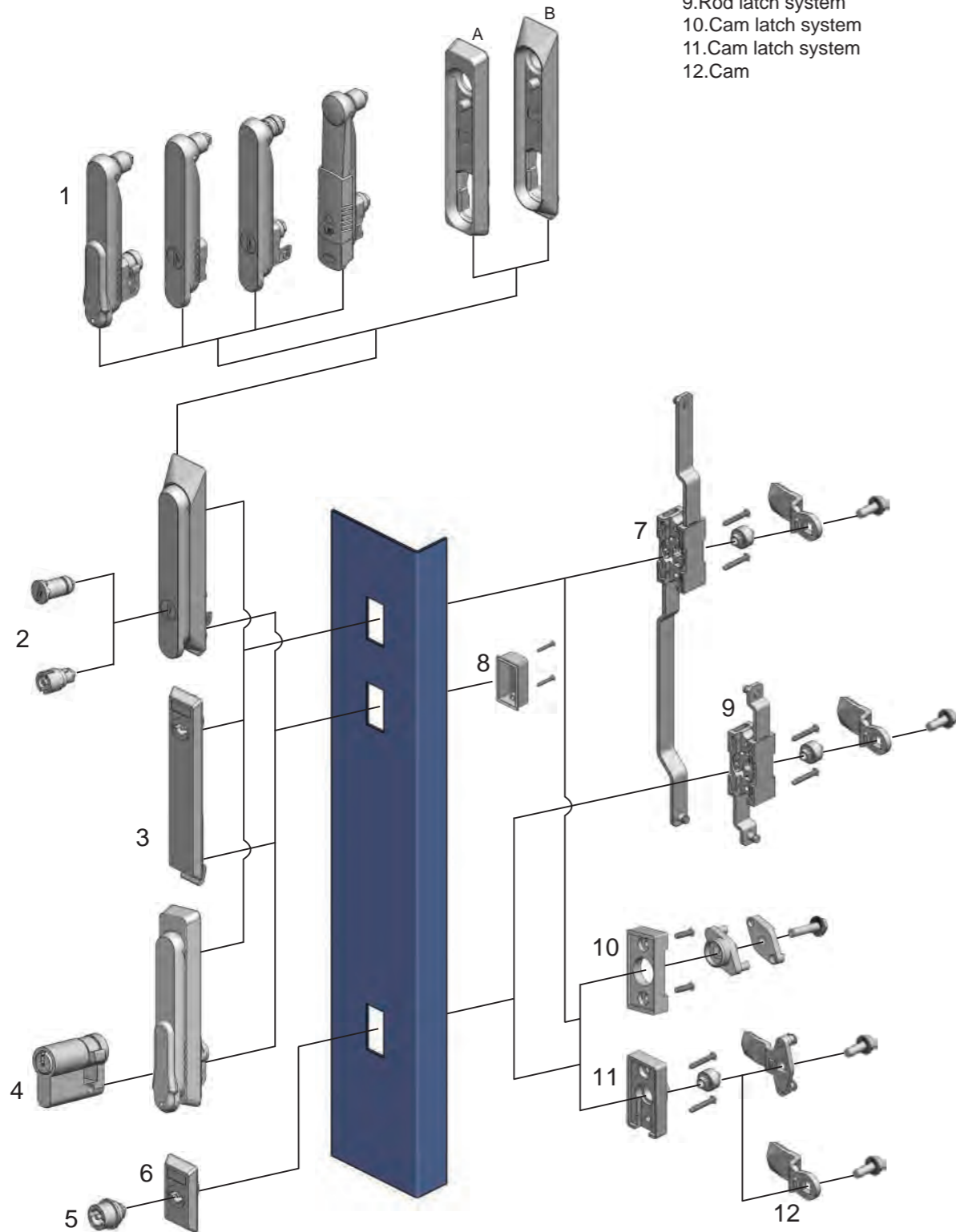
**Application:** 90 degree handle rotation combines with rod latch to open or close

**Remarks:** Default profile cylinder TC01, default key K140

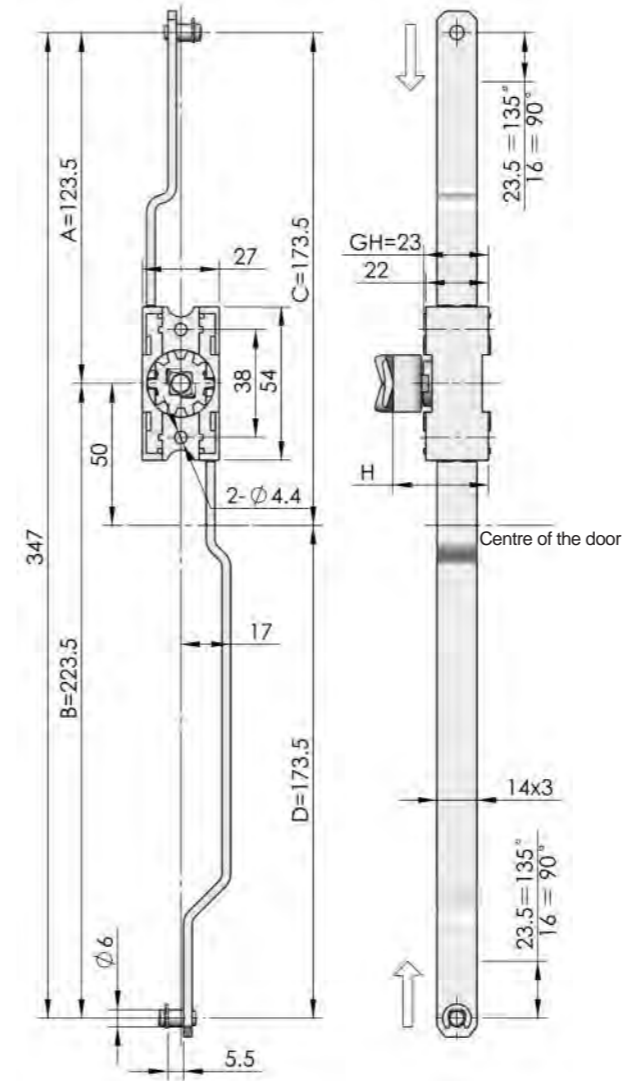
**Default cam:** S1A35Y00001(Rod latch type)  
S1B45Y07002(Cam type)

Combination	Item No	
	Rod latch system	Cam latch system
A	MS840 - 1A	MS840 - 2A
B	MS840 - 1D	MS840 - 2D
A	MS840 - 1B	MS840 - 2B
B	MS840 - 1E	MS840 - 2E
A	MS840 - 1F	MS840 - 2F
B	MS840 - 1C	MS840 - 2C
A	MS848 - 1B	MS848 - 2B
B	MS848 - 1C	MS848 - 2C

- 1.Lock-body
- 2.Insert
- 3.Lock-boby
- 4.Profile cylinder
- 5.Insert
- 6.Lock-body
- 7.Rod latch system
- 8.PA dish
- 9.Rod latch system
- 10.Cam latch system
- 11.Cam latch system
- 12.Cam



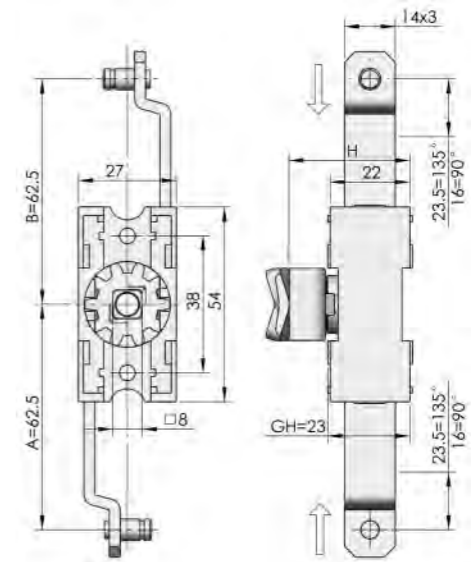
### Mb4 Series



Remarks: Default rod latch system, closing position, 135 degree rotation angle, default optional cam S1B3500, cam cutout square 8mm. The rod latch system is used for the seal door-outside

Rod latch system	Dm	Ra	A	B	C	D	Specification
Mb43	23.5	135 °	123.5	223.5	173.5	173.5	With cam
Mb44	23.5	135 °	123.5	223.5	173.5	173.5	Without cam

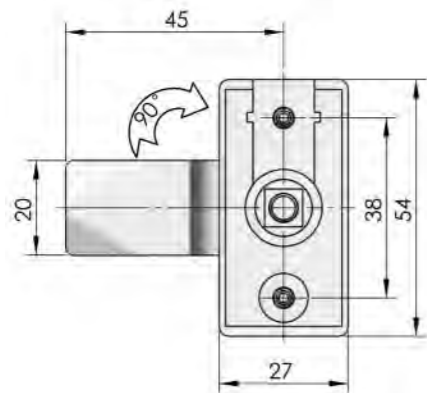
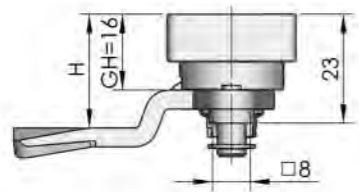
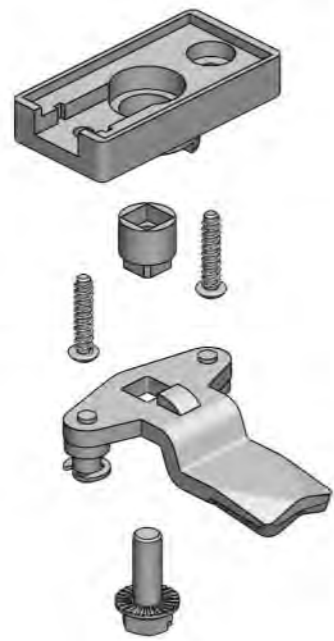
### Mb5 Series



Remarks: Default rod latch system, closing position, 135 degree rotation angle, default optional cam S1B3500, cam cutout square 8mm. The rod latch system is used for the seal door-outside

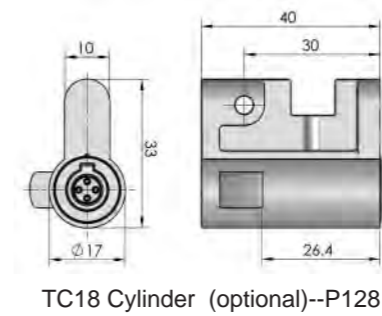
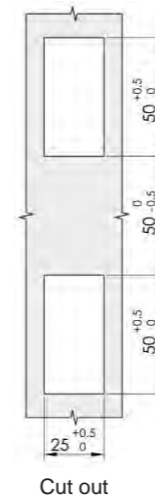
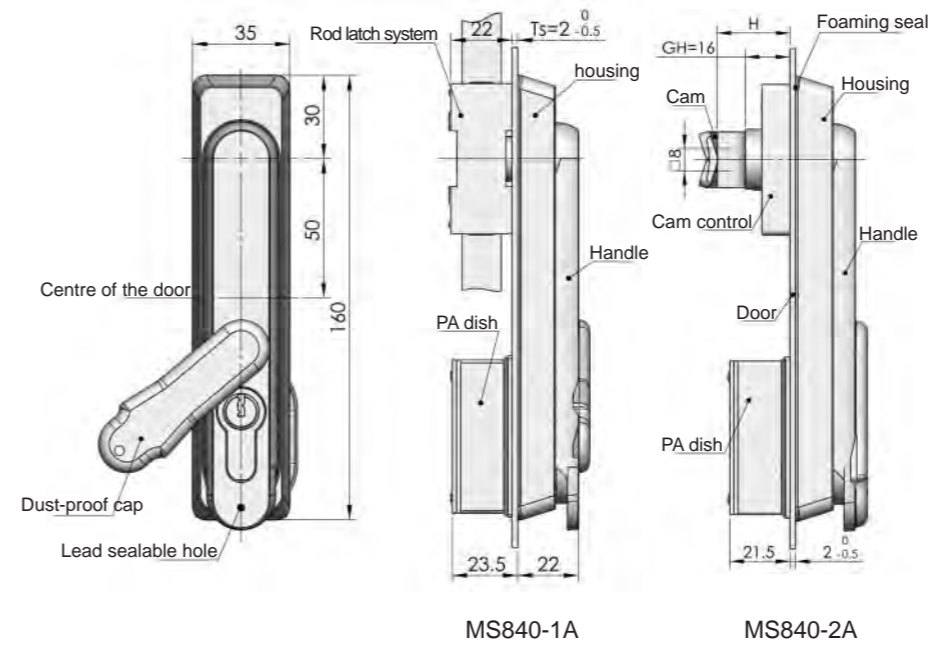
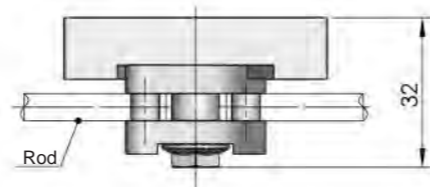
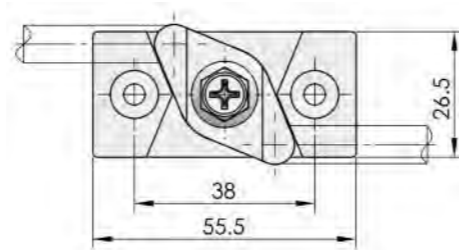
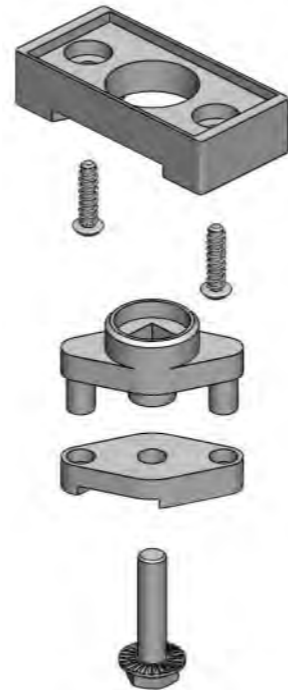
Rod latch system	Dm	Ra	A	B	Specification
Mb51	23.5	135 °	62.5	62.5	With cam
Mb52	23.5	135 °	62.5	62.5	Without cam

**Mb92-Y  
Mb92-Z**



Remarks: Default optional cam S3B4510

**Mb94 Series**



Optional Accessories:  
See cam latch system Mb9 series on P174  
Rod latch system Mb4 series on P186  
TC01/TC02/TC03 profile cylinder on P029

**MS840-A**



**Main material and finish:** Black PA handle, housing and dust-proof cap, white zinc-plated steel cam and rod, bright chrome-plated ZDC profile cylinder

**Application:** Handle quarter-turn rotation combines with rod latch system to open or close

**Remarks:** Default profile cylinder TC01, default key K140

**Default cam:** S1B45Y07002 (Cam type)

Specification	Model	ERP
Rod latch system with TC series profile cylinder and dust-proof cap	MS840-1A	MS840N00140039
Cam latch system with TC series profile cylinder and dust-proof cap	MS840-2A	MS840N00140033

Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket

Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket



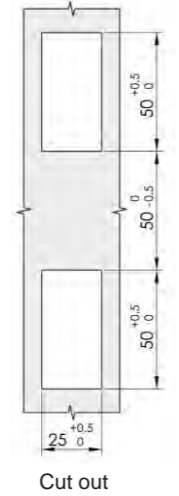
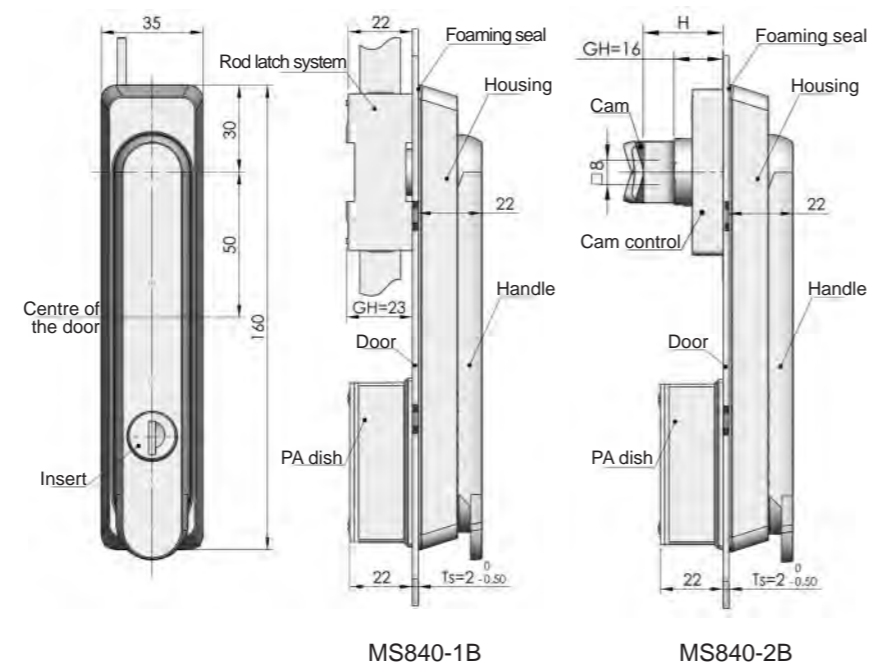
**MS840-B**

**Main material and finish:** Black PA housing, handle and dust-proof cap, white zinc-plated steel cam and rod, ZDC profile cylinder

**Application:** Handle quarter-turn combines with rod latch system to open or close

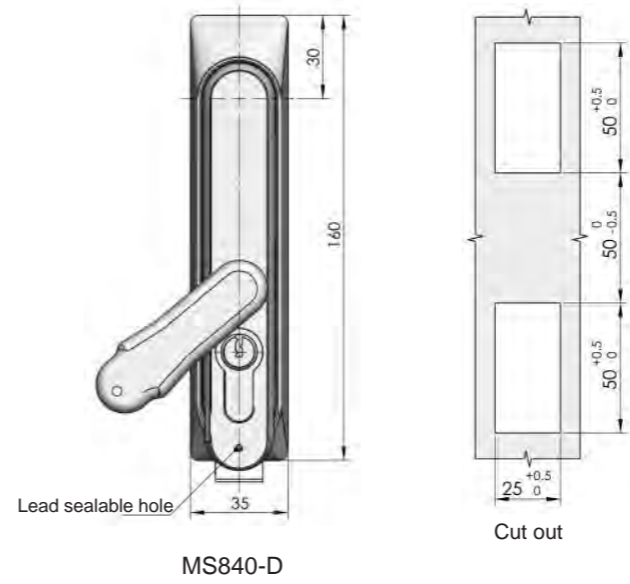
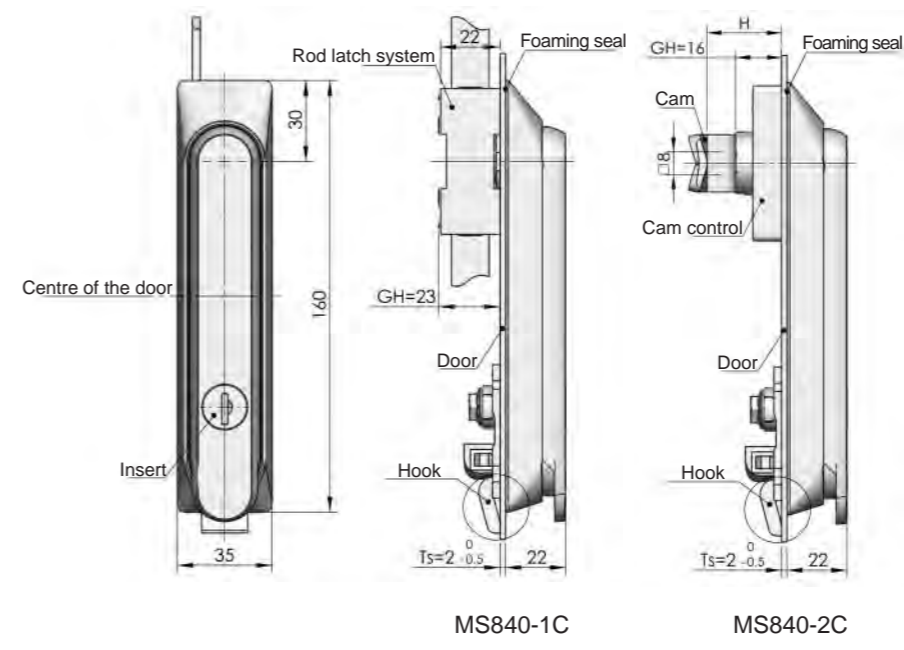
**Remarks:** Default Key K140

**Default cam:** S1B45Y07002 (Cam type)



Optional Accessories:  
See cam latch system Mb9 series on P174  
Rod latch system Mb4 series on P186

Specification	Model	ERP
Rod latch system with insert	MS840-1B	MS840N00140025
Cam latch system with insert	MS840-2B	MS840N00140034



Optional Accessories:  
See cam latch system Mb9 series on P174  
Rod latch system Mb4 series on P186

Specification	Model	ERP
Rod latch system	MS840-1C	MS840N00140011
Cam latch system	MS840-2C	MS840N00140015



**MS840-C**

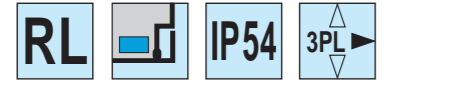
**Main material and finish:** Black PA handle, housing and dust-proof cap, white zinc-plated steel cam and rod, ZDC profile cylinder

**Application:** Handle quarter-turn combines with rod latch system to open or close

**Remarks:** Default Key K140

**Default cam:** S1B45Y07002 (Cam type)

Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket



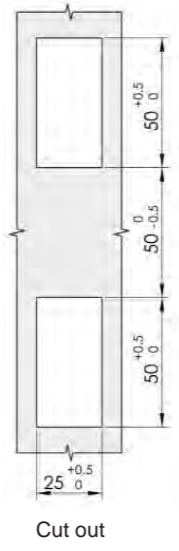
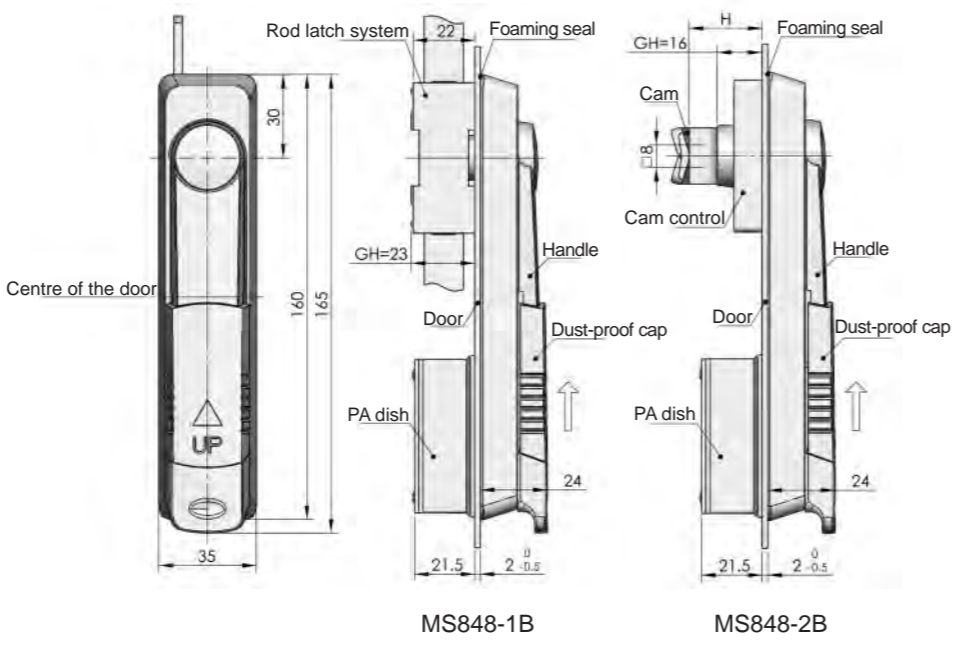
**MS848-B**

**Main material and finish:** Black PA handle, housing and dust-proof cap, white zinc-plated steel cam and rod, ZDC profile cylinder

**Application:** Handle quarter-turn combines with rod latch system to open or close

**Remarks:** Default profile cylinder TC01, default Key K140

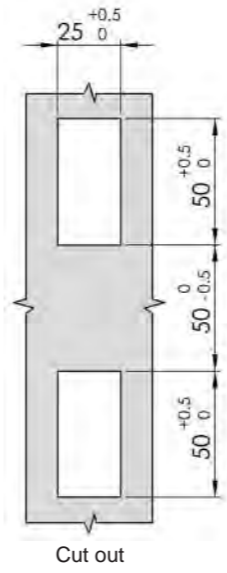
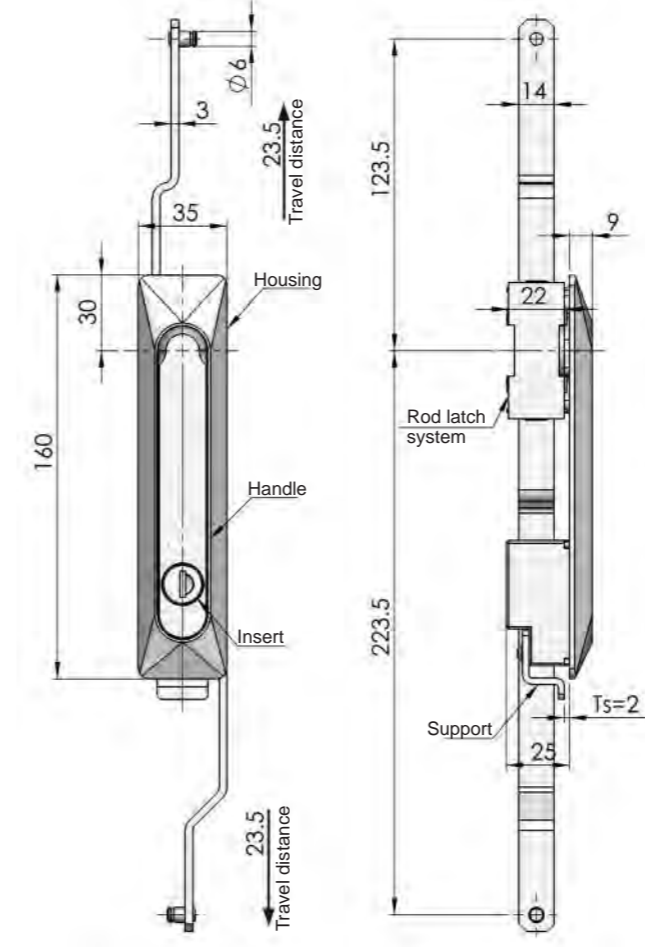
**Default cam:** S1B45Y07002 (Cam type)



Cut out

Optional Accessories:  
See cam latch system Mb9 series on P174,  
Rod latch system Mb2 series on P186

Specification	Model	ERP
Rod latch system	MS848-1B	MS848N00140002
Cam latch system	MS848-2B	MS848N00140018



Cut out

ERP	MS861Z2A140001
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**MS861-2E**

**Main material and finish:** PA housing, Black powder coated ZDC handle, white zinc plated ZDC shaft and insert, white zinc plated steel rod latch and cam

**Application:** 135 degree handle rotation to open or close, padlock device for choose

Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket

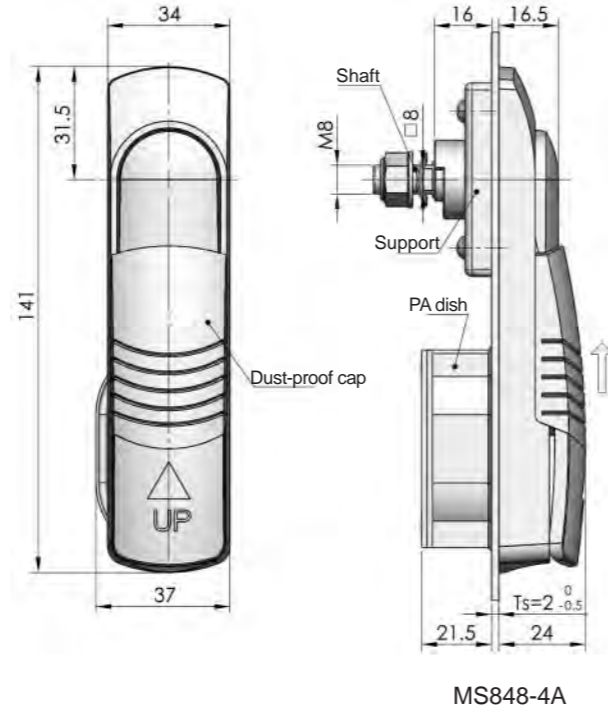
**MS848-4A**



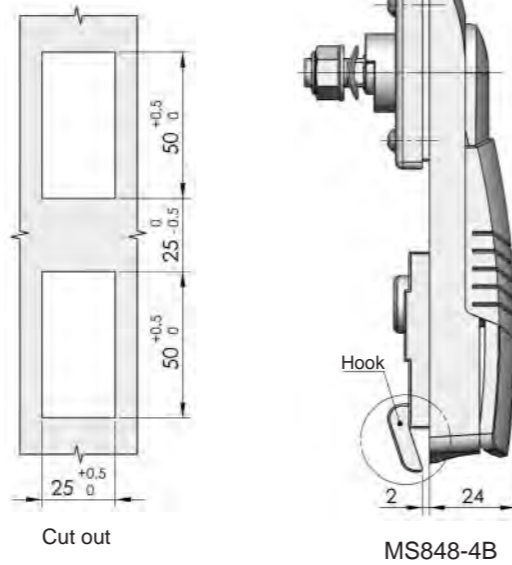
**MS848-4B**



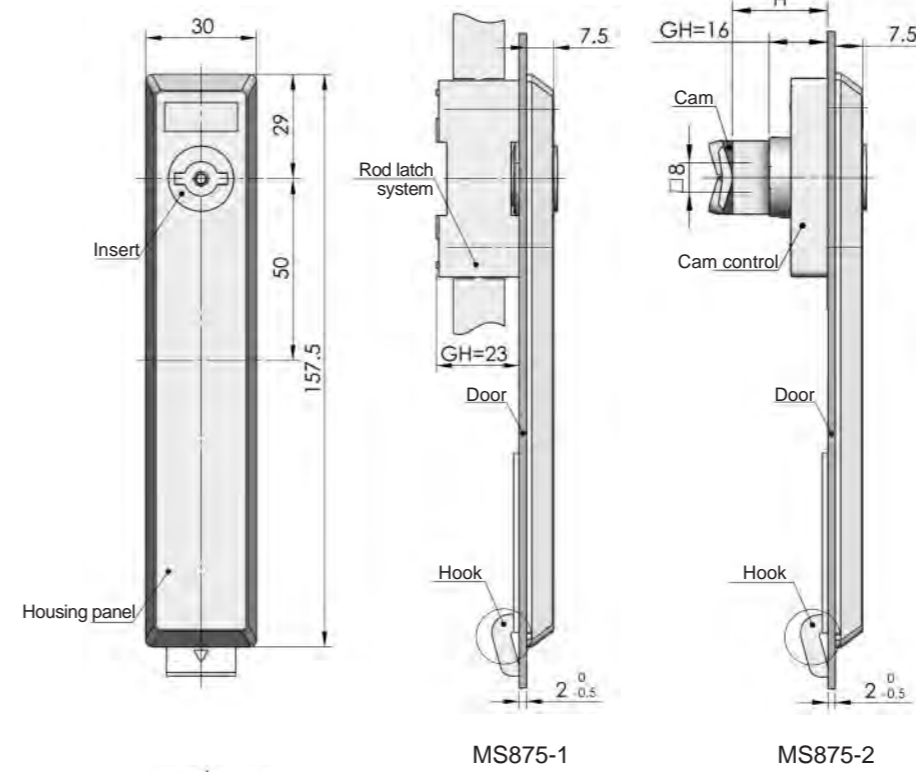
**Main material and finish:** Black PA handle, housing and dust-proof cap, white zinc-plated steel cam and rod, ZDC profile cylinder  
**Application:** Handle quarter-turn combines with rod latch system to open or close  
**Remarks:** Default Key K140



MS848-4A

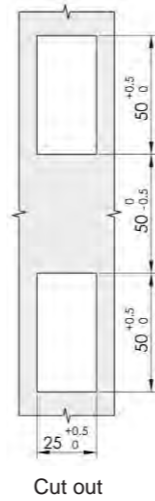


MS848-4B



MS875-1

MS875-2



Cut out

Optional Accessories:  
 See cam latch system Mb9 series on P174  
 Rod latch system Mb4 series on P186



**MS875-1  
MS875-2**



**Main material and finish:** Black PA panel, steel cam and rod, bright chrome-plated ZDC insert  
**Application:** Insert quarter-turn combines with rod latch system to open or close  
**Remarks:** Default Key K15

**Default cam:** S1B45Y07002 (Cam type)

Specification	Model	ERP
PA dish type	MS848-4A	MS848N00140006
Hook type	MS848-4B	MS848N00140007

Specification	Rod latch system		Cam latch system		Optional key
	Model	ERP	Model	ERP	
Double bit	MS875-1-1	MS875N00T02014	MS875-2-1	MS875N00T02013	K15-1A, K15-1F
Triangular 8mm	MS875-1-2	MS875N00T04001	MS875-2-2	MS875N00T04003	K15-3, K15-3F
Square 7mm	MS875-1-3	MS875N00T06001	MS875-2-3	MS875N00T06003	K15-6, K15-6F
Square 8mm	MS875-1-4	MS875N00T07001	MS875-2-4	MS875N00T07003	K15-4, K15-4F

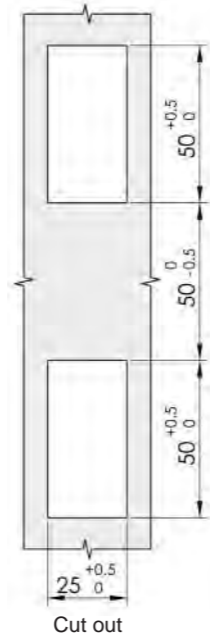
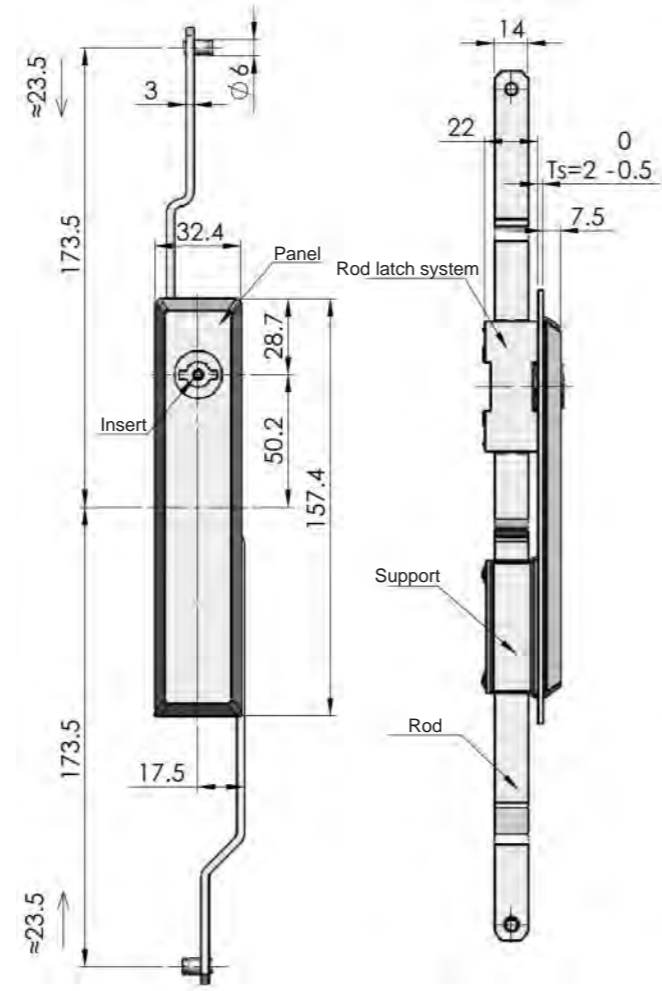


Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket

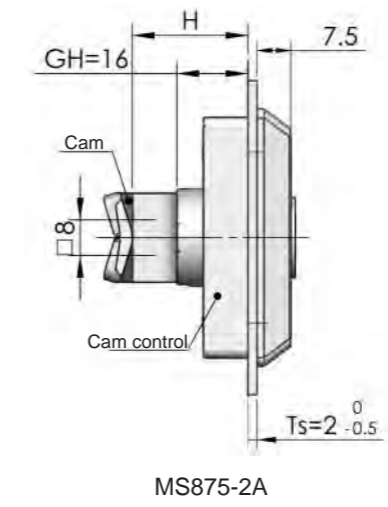
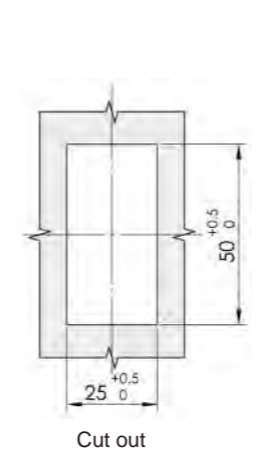
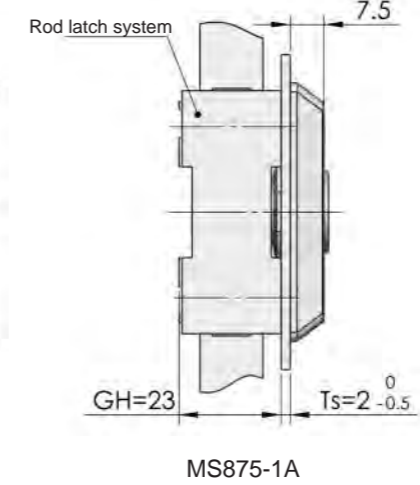
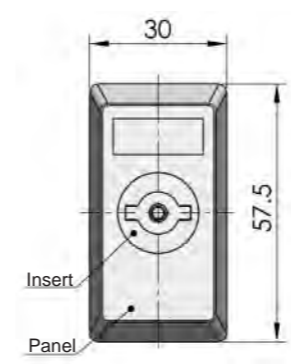


**RL** **IP54** **3PL**

**Main material and finish:** PA housing and panel, Zinc-plated steel cam and rod, chrome-plated ZDC insert  
**Application:** Insert 90° rotation combines with rod latch system to open or close  
**Remarks:** Optional K15 series tool key



**ERP** MS875N00T01002  
 Remarks: Default cam S1B3011D



Optional Accessories:  
 See cam latch system Mb9 series on P174  
 Rod latch system Mb5 series on P186



Specification	Rod latch system		Cam latch system		Optional key
	Model	ERP	Model	ERP	
Double bit	MS875-1A-1	MS875N00T03001	MS875-2A-1	MS875N00T02019	K15-1A, K15-1F
Triangular 8mm	MS875-1A-2	MS875N00T04002	MS875-2A-2	MS875N00T04008	K15-3, K15-3F
Square 7mm	MS875-1A-3	MS875N00T06002	MS875-2A-3	MS875N00T06004	K15-6, K15-6F
Square 8mm	MS875-1A-4	MS875N00T07002	MS875-2A-4	MS875N00T07004	K15-4, K15-4F



**RL** **IP54** **3PL**

**Main material and finish:** Black PA panel, bright chrome-plated ZDC insert, white zinc-plated steel cam and rod  
**Application:** Insert quarter-turn combines with rod latch system to open or close  
**Remarks:** Default Key K15 series

Default cam: S1B45Y07002 (Cam type)

Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket

Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket

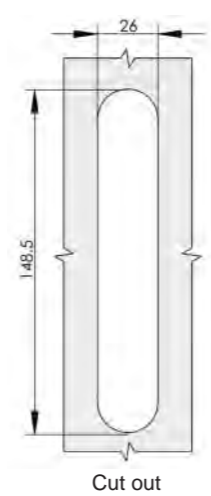
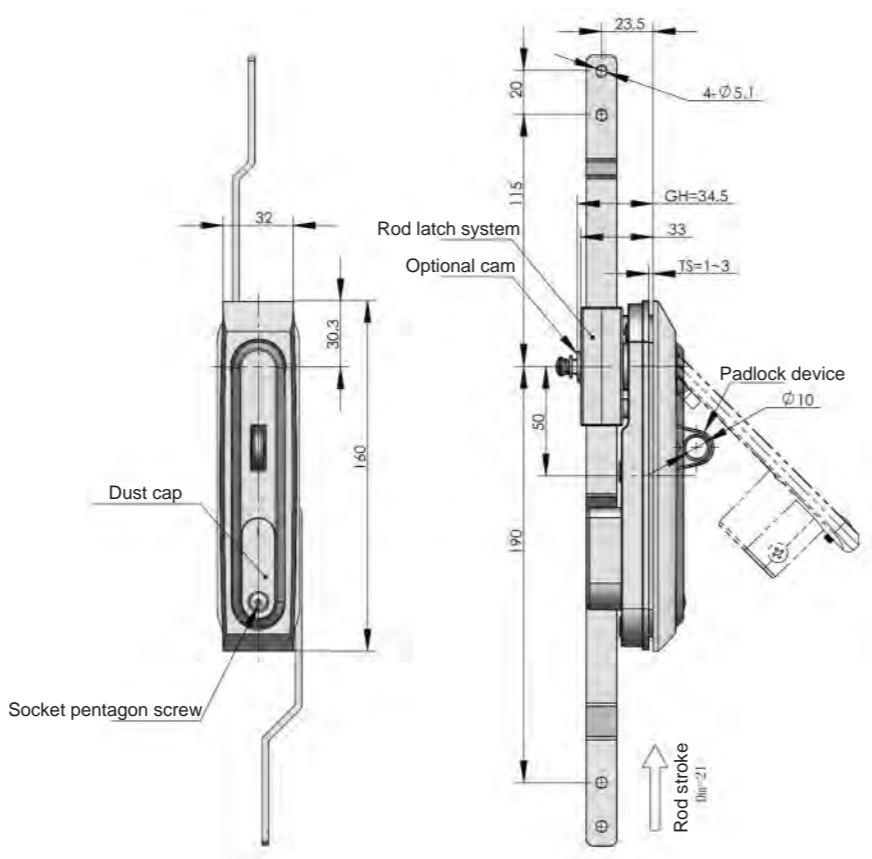


**MS834-6**

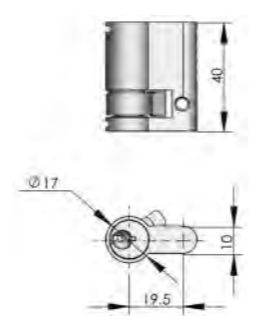
**Main material and finish:** Black painted (high salt mist resistant) ZDC handle and housing, bright chrome-plated ZDC profile cylinder, stainless steel cam and rod

**Application:** Handle 135° rotation combines with rod latch system to open or close, change gear and rod direction to suit RH or LH application

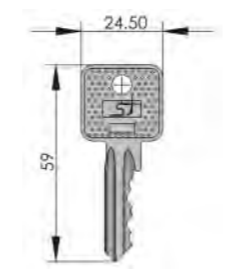
**Remarks:** Default profile cylinder TC03-5A



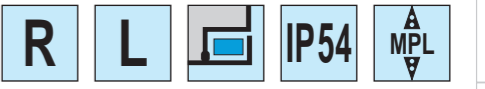
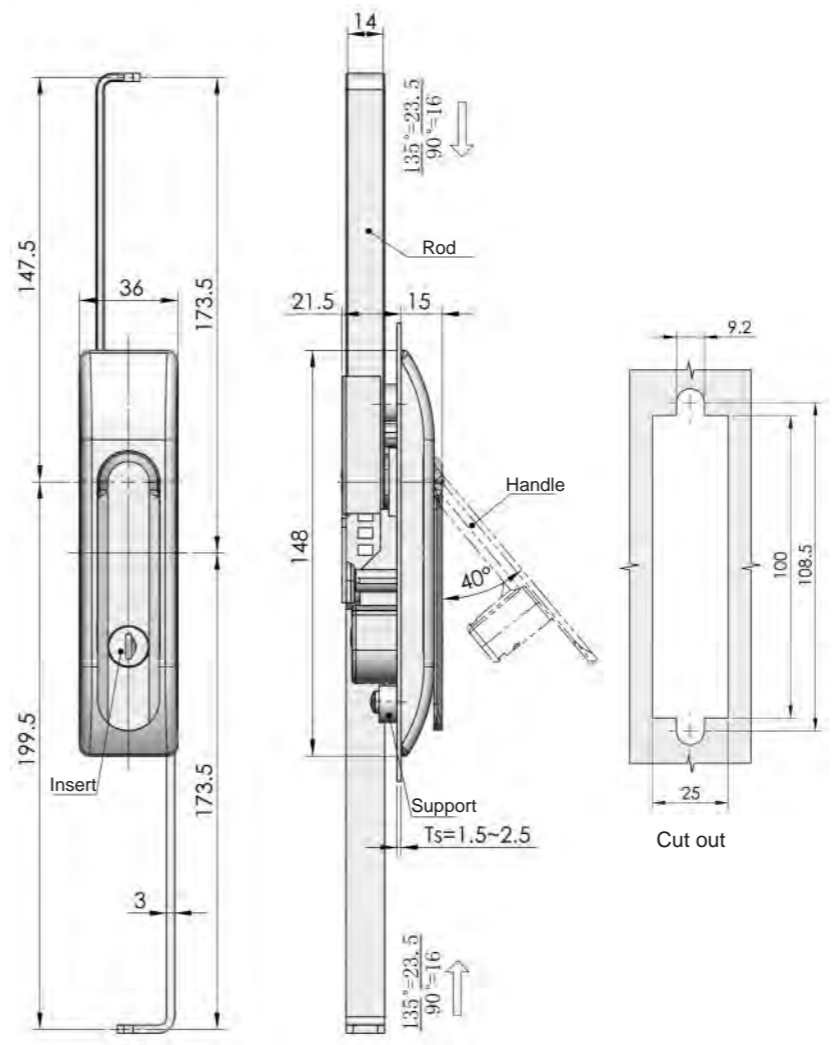
**Default TC03-5A**



**Default Key**



	<b>MS834-6-Z</b>	<b>MS834-6-Y</b>
<b>ERP</b>	MS834Z2E000001	MS834Z2E000002



**MS865**

**Main material and finish:** Black PA housing, pocked black powder coated ZDC handle, white zinc-plated steel rod

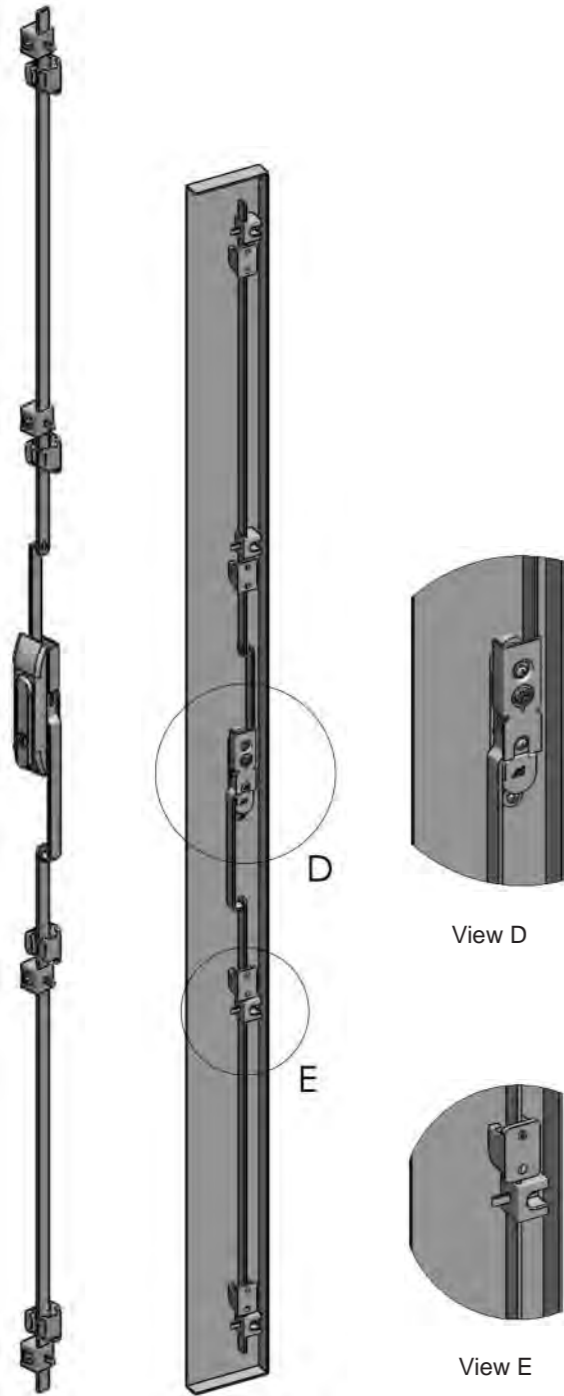
**Application:** Handle quarter-turn combines with rod latch system to open or close

**Remarks:** Default Key K140

Specification	Model	ERP
PA housing and handle	MS865-1	MS865N00140002
PA housing and pocked coated ZDC handle	MS865-1A	MS865N00140006

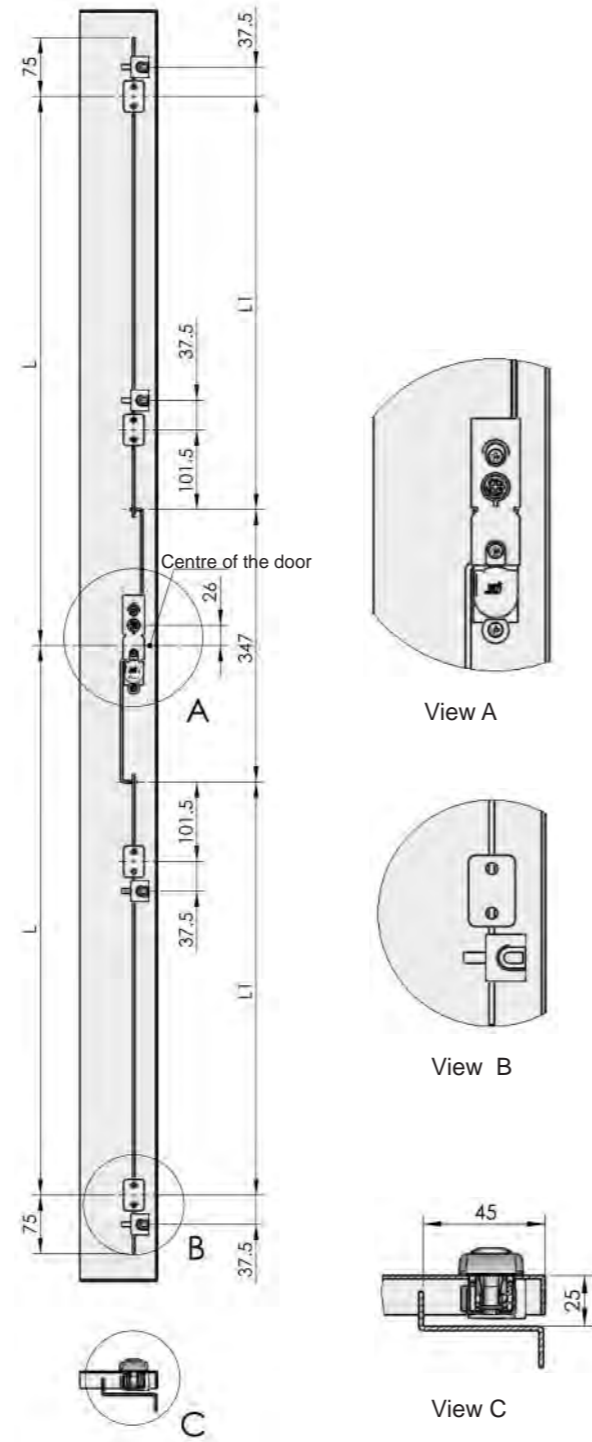
Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket

**Mb95 rod latch system**



View D

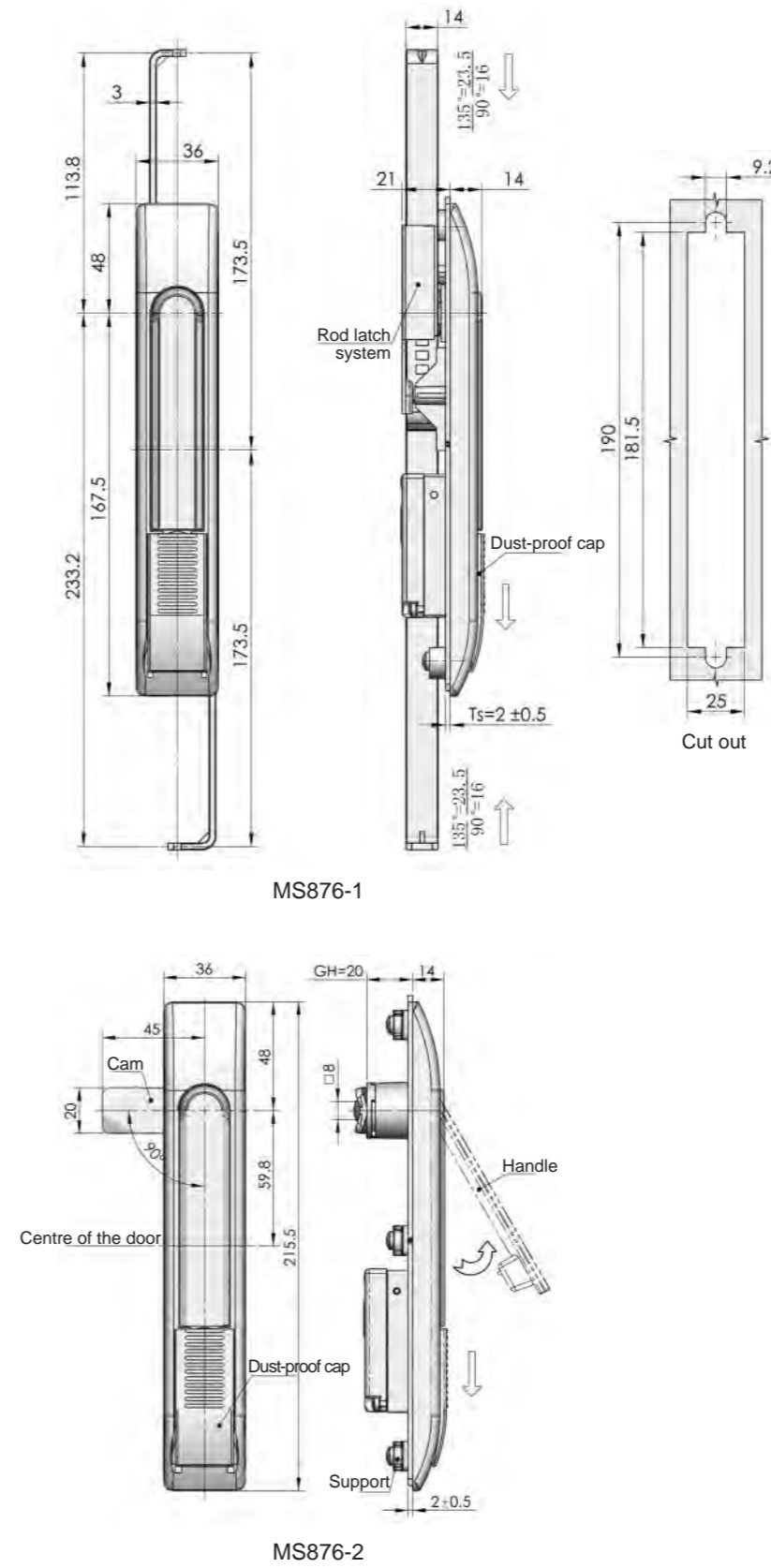
View E



View A

View B

View C



MS876-1

MS876-2

	MS876-1	MS876-2
ERP	MS876N00140014	MS876N00140010

**MS876**

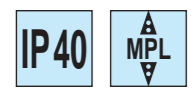


**Main material and finish:** Black PA housing, bright chrome plated ZDC handle, white zinc-plated steel rod

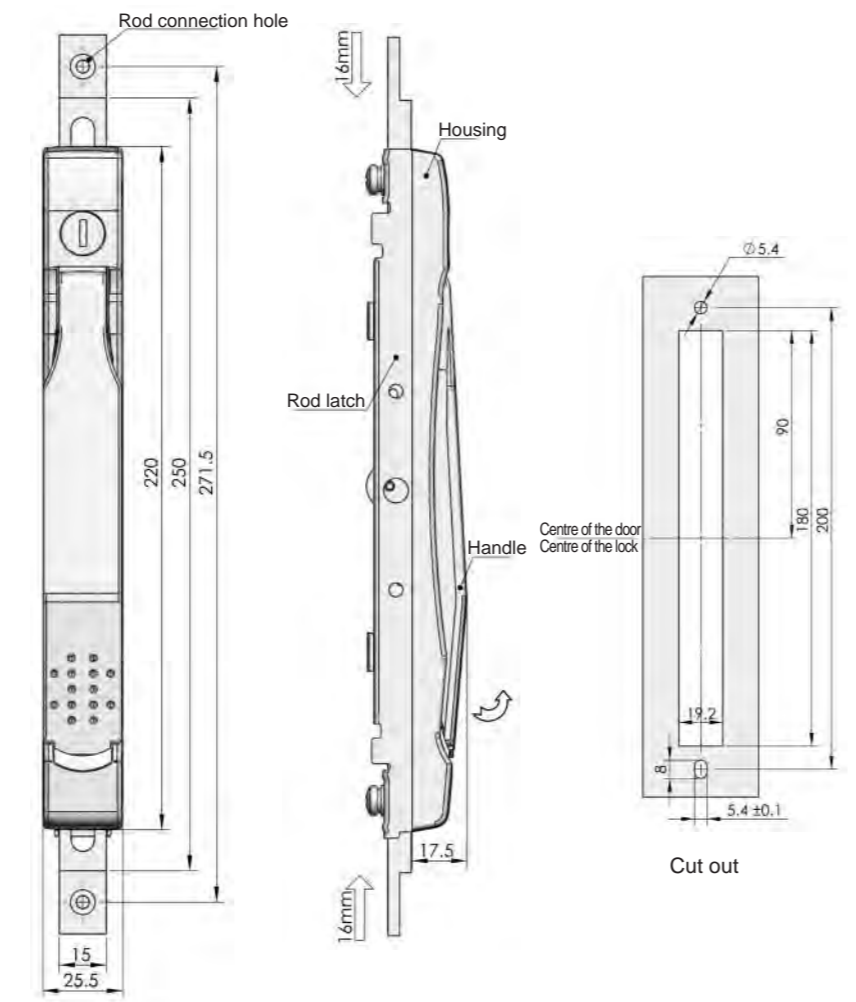
**Application:** Handle rotation combines with rod latch to open or close

**Remarks:** Default key K140

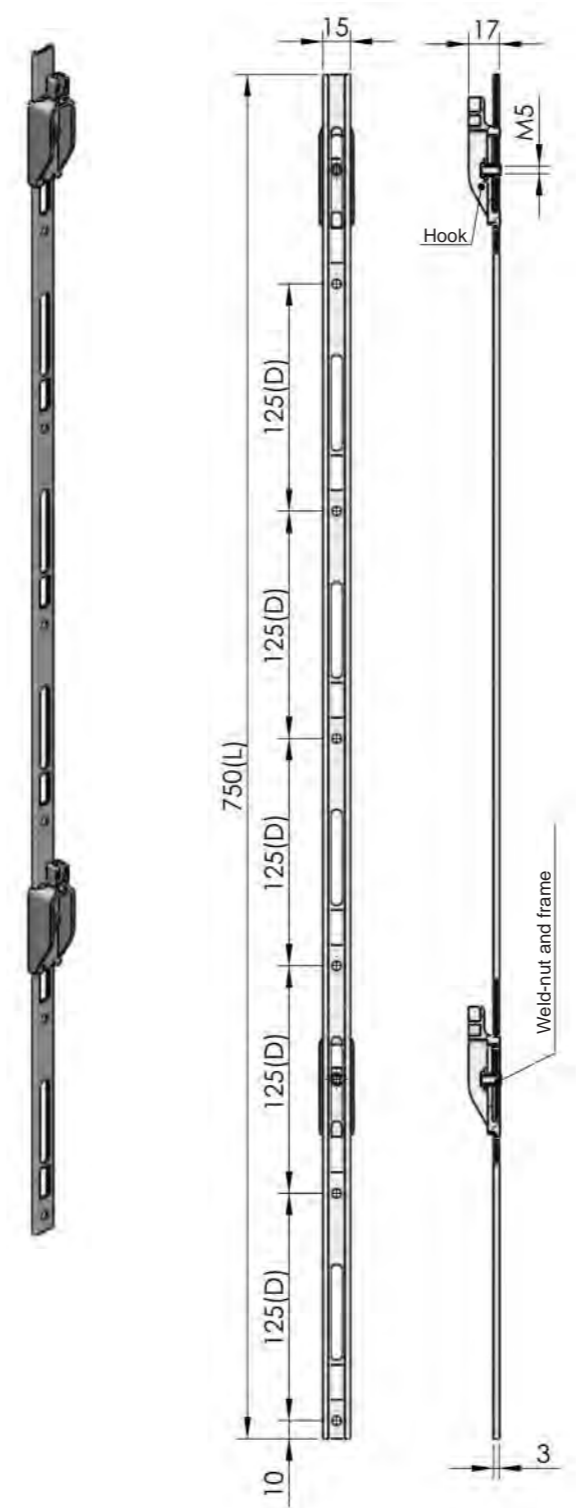
**Default cam:** S1B45Y07002 (Cam type)



**Main material and finish:** Pocked black powder coated ZDC handle and housing, white zinc-plated ZDC rod, stainless steel bracket  
**Remarks:** Default Key K170

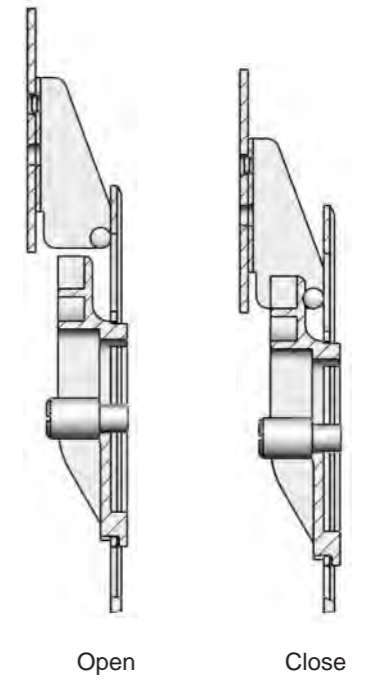


Specification	Model	ERP
Without insert	MS855-1	MS855Z1B000001
With insert	MS855-2	MS855Z1B170002

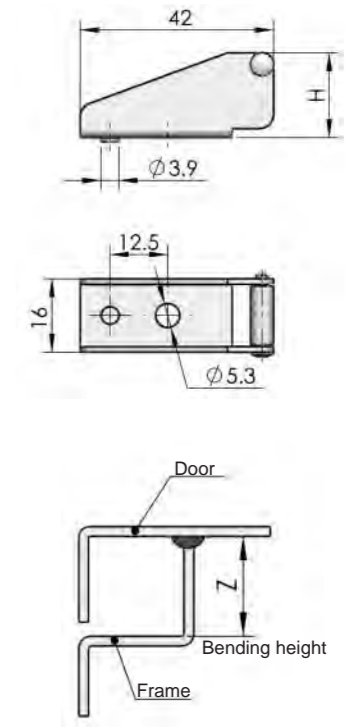


Model	Length ( mm )	Lock catch appropriate quantity
LG-2D-250	250	1
LG-2D-375	375	1
LG-2D-500	500	1
LG-2D-625	625	2
LG-2D-750	750	2
LG-2D-875	875	2

Rod length=125 X n, n: Rod-Joint quantity, joint distance=125 ;



**Catcher**

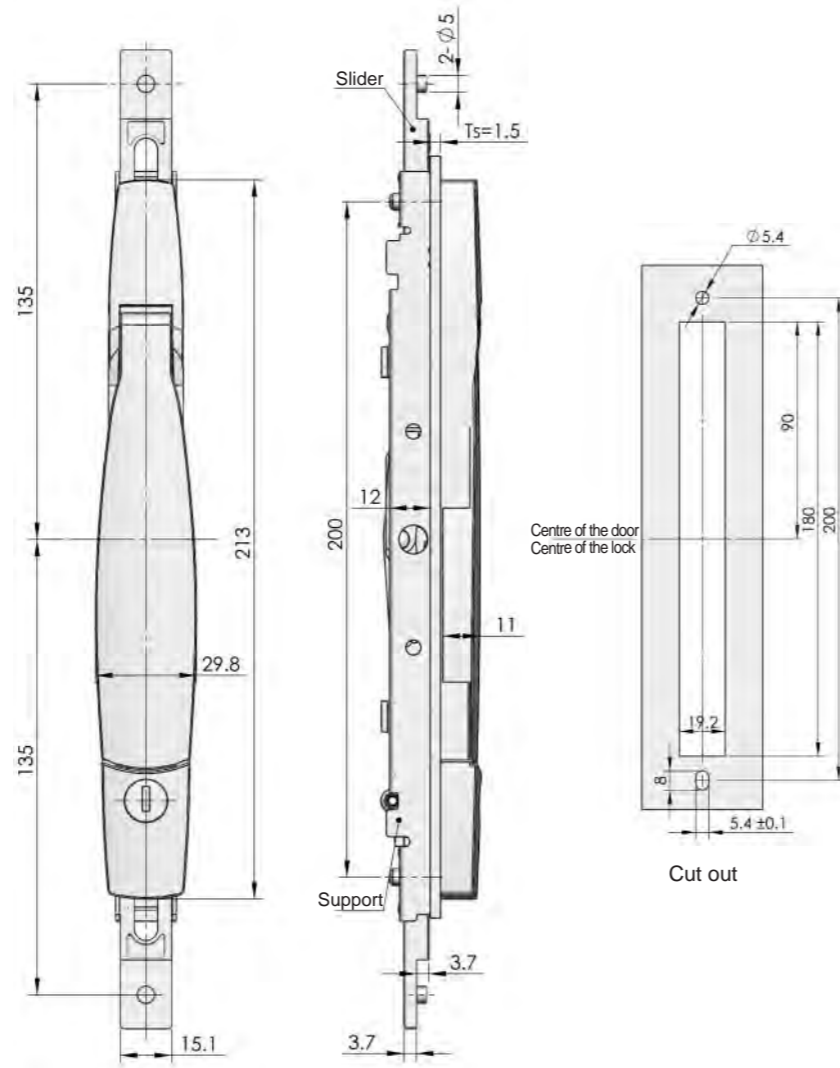


Hook No	H	Z
KP1	19	15.5
KP2	20	16.5
KP3	22	18.5
KP4	25	21.5

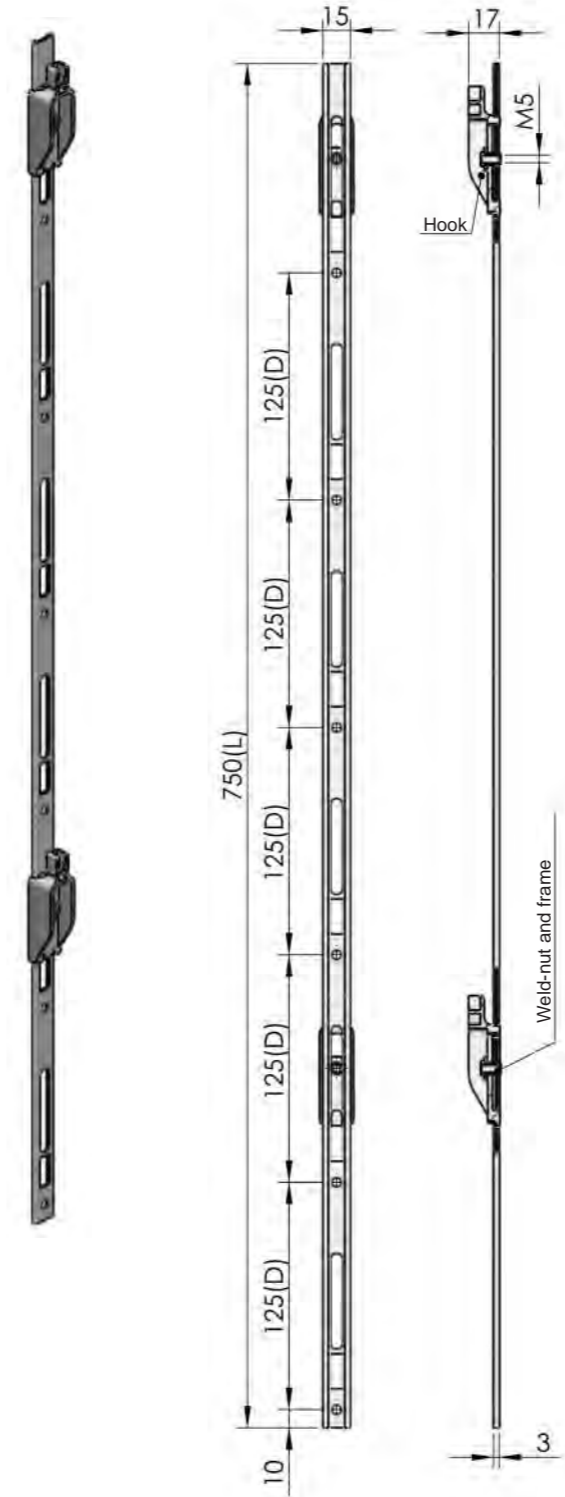


**IP40** **MPL**

**Main material and finish:** Black ABS handle, housing, white zinc-plated ZDC slider, white zinc-plated support  
**Remarks:** Default Key K400

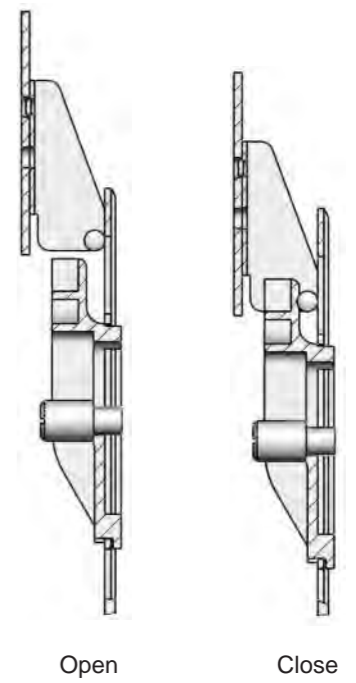


ERP MS855Z1B400001

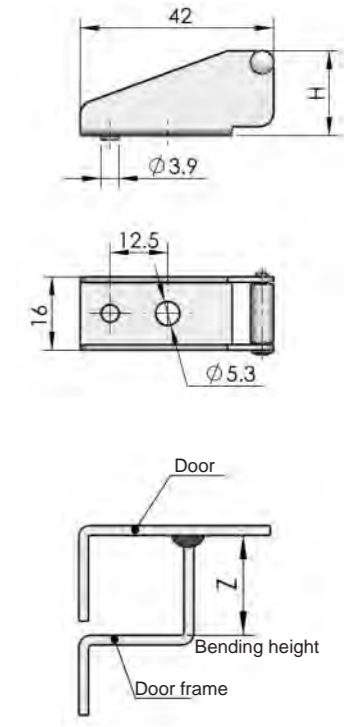


Model	Length ( mm )	Lock catch appropriate quantity
LG-2D-250	250	1
LG-2D-375	375	1
LG-2D-500	500	1
LG-2D-625	625	2
LG-2D-750	750	2
LG-2D-875	875	2

Rod length=125 X n, n: Rod-Joint quantity, joint distance=125 ;



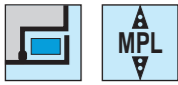
**Catcher**



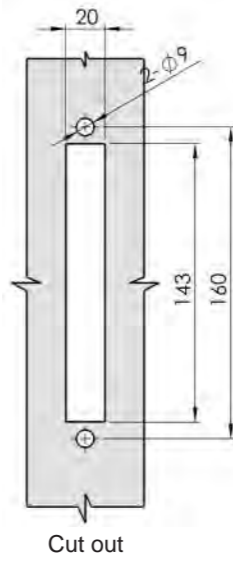
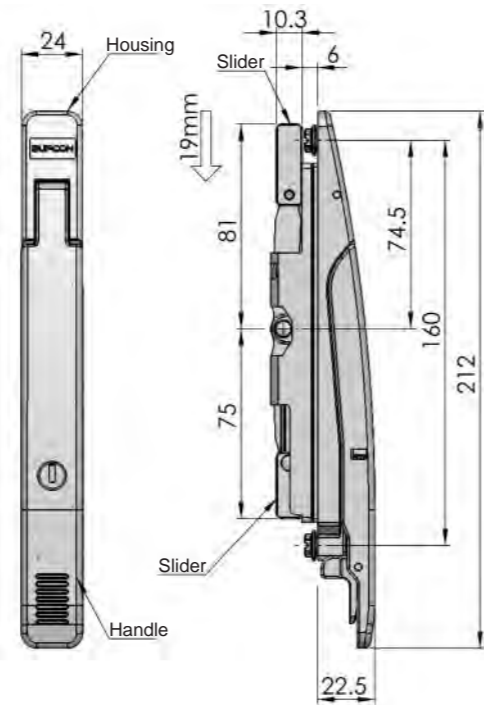
Hook No	H	Z
KP1	19	15.5
KP2	20	16.5
KP3	22	18.5
KP4	25	21.5

Accessories
Handle lock
Cylinder lock
Electronic lock
Swing handle
<b>Rod control lock</b>
Panel lock
Toggle and hook
Handles
Door stop
Hinge
Seal gasket

**MS855-5**



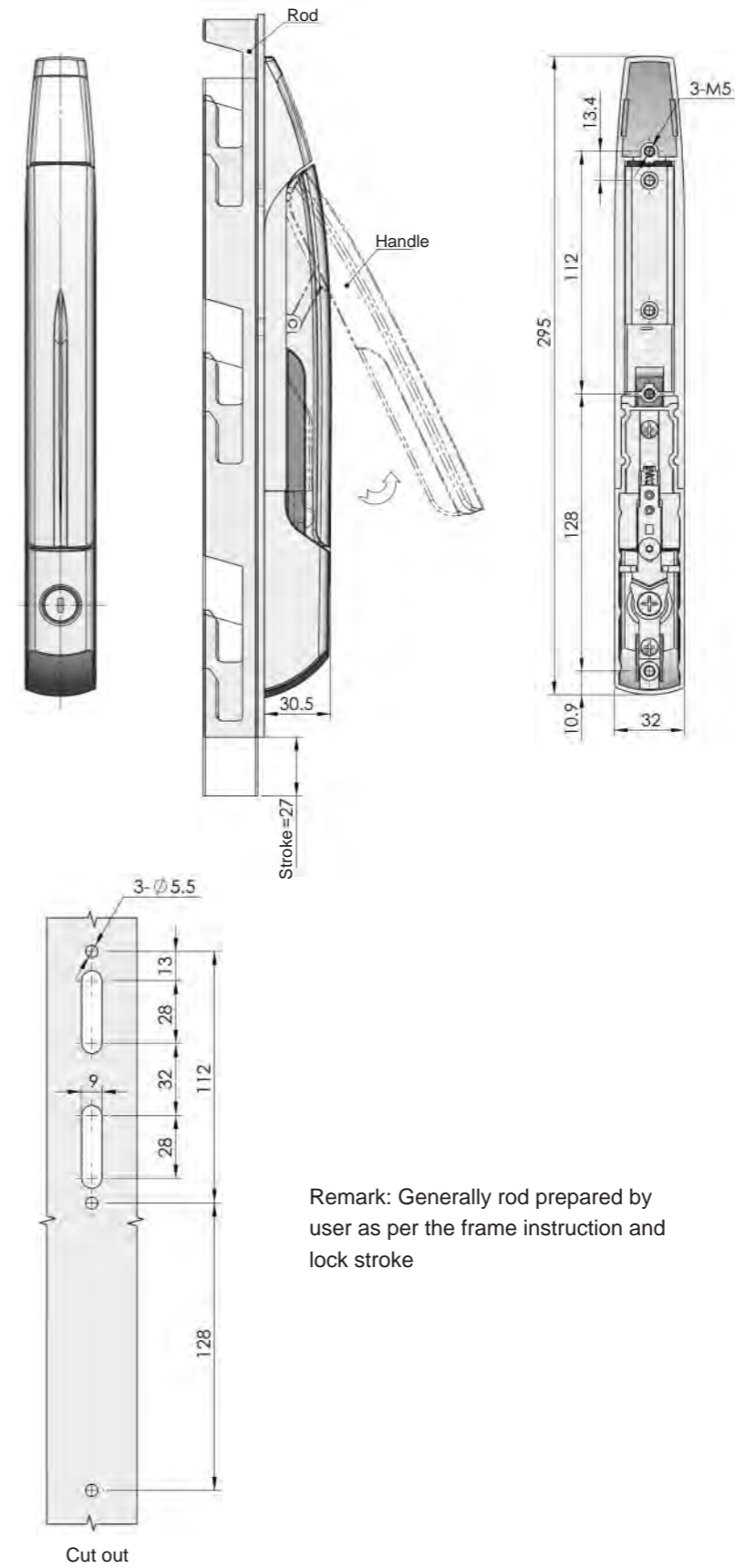
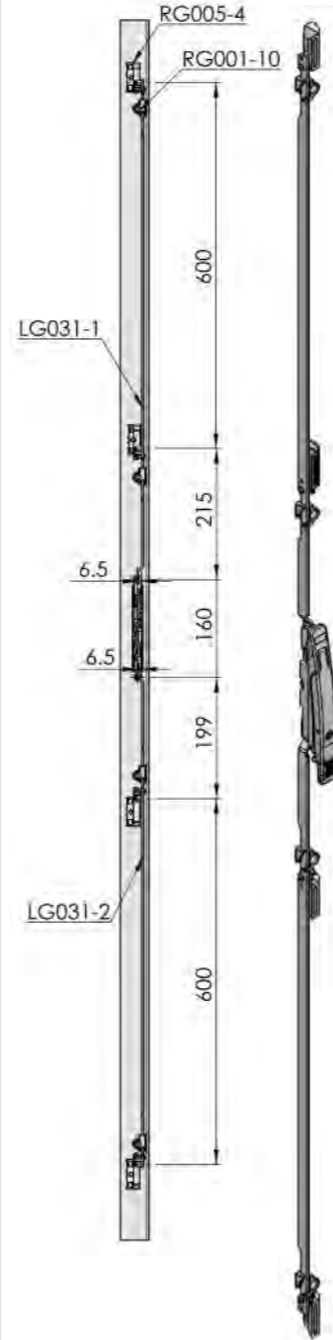
**Main material and finish:** Painted RAL7030 ZDC housing and handle, ZDC slider and fix part, stainless steel rod  
**Remarks:** Default key K110



ERP

MS855ZXX110001

**Assembly drawing**

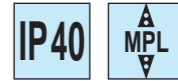


Remark: Generally rod prepared by user as per the frame instruction and lock stroke

ERP

MS867Z1E082001

**MS867**



**Main material and finish:** Yellow gray powder coated ZDC handle and housing, white zinc-plated ZDC rod  
**Application:** Handle rotation to open or close rapidly, easy assembling  
**Remarks:** Default Key K082

Accessories
Handle lock
Cylinder lock
Electronic lock
Swing handle
<b>Rod control lock</b>
Panel lock
Toggle and hook
Handles
Door stop
Hinge
Seal gasket



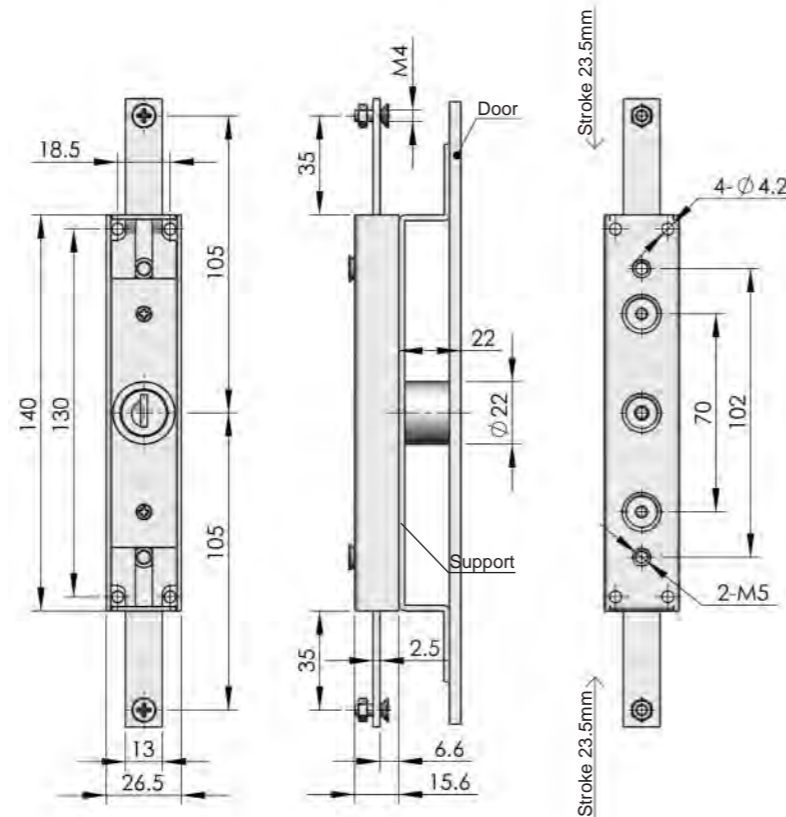
**MS889**



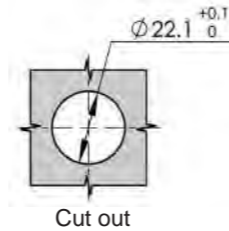
**Main material and finish:** Zinc-plated steel lock body and latch, bright chrome-plated insert and lock housing

**Application:** 2 point latching

**Remarks:** Default key K140



Remarks: Support behind the door panel can be designed by customer



ERP

MS889F3D140001

**Default key**

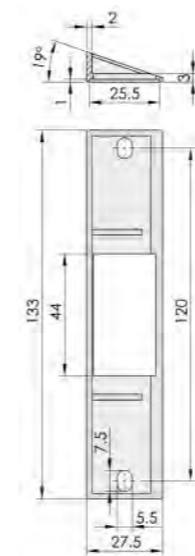
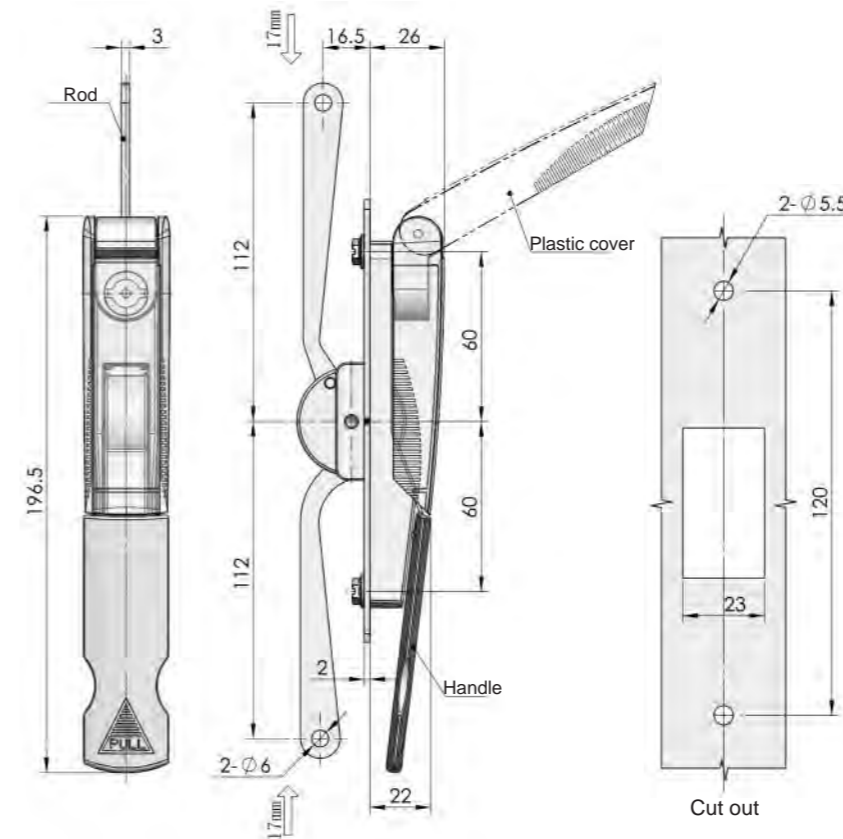


**MS853**



**Main material and finish:** Blue gray powder coated ZDC handle, housing, ZDC support, white zinc-plated steel rod, PC dust-proof cap

**Remarks:** Optional Key K15 series or K040



Support (Optional)

Specification	Model	ERP
Double bit	MS853-1-1	MS853Z1DT01001
Triangular	MS853-1-2	MS853Z1DT04001
Square 8mm	MS853-1-3	MS853Z1DT07001
Slot	MS853-1-4	MS853Z1DT10001
Default Key K04	MS853-2	MS853Z1D040001





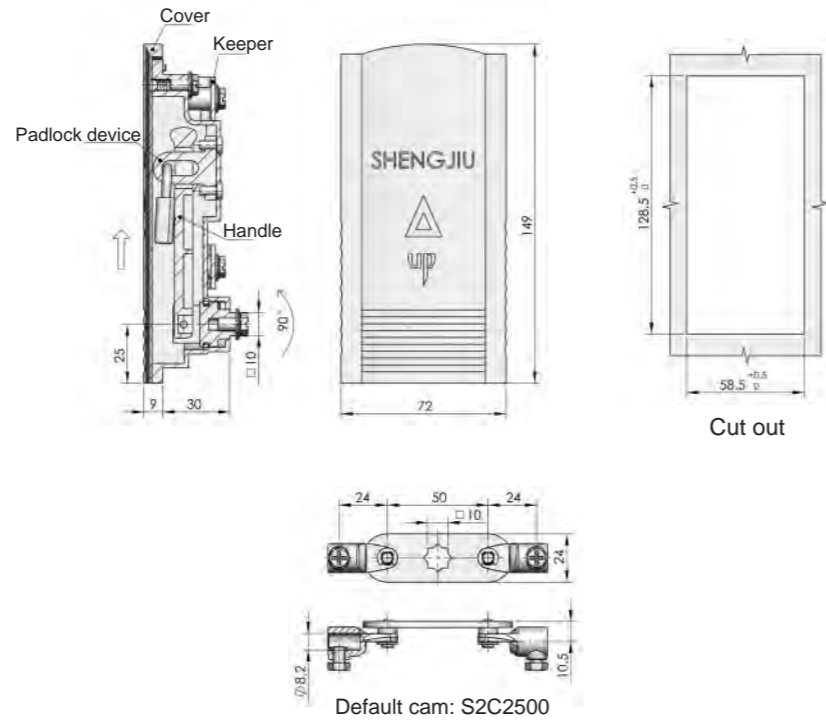
**MS850-1**



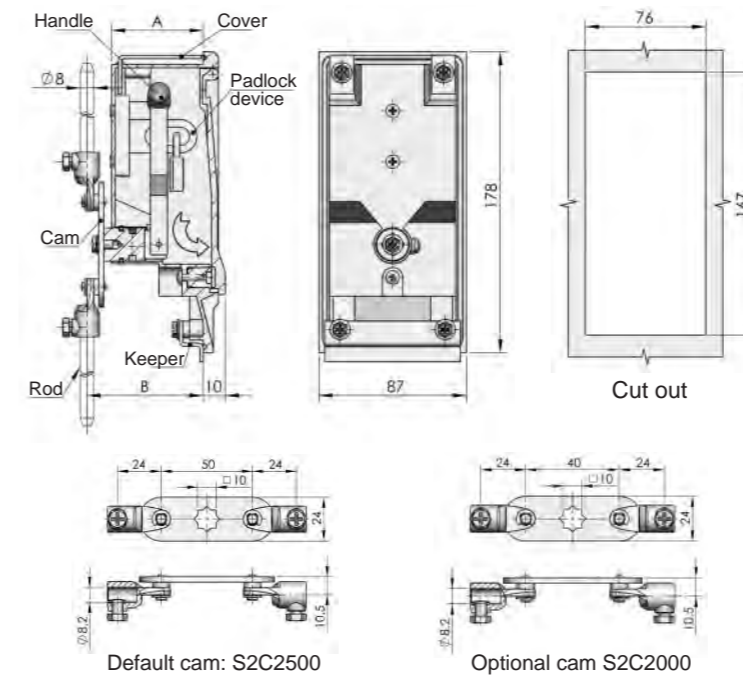
2PL

**Main material and finish:** Gray powder coated ZDC housing, handle, padlock device and cover, zinc-plated steel cam and keeper

**Default cam:** 2893250016



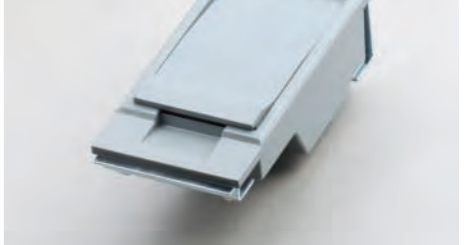
ERP MS850Z1D000001



Item	ERP	Specification	
		A	B
MS850-2	MS850A1D000007	54	69
MS850-2A	MS850A1D000008	44	59

Remarks : ERP excludes Cam

**MS850-2  
MS850-2A**



2PL

**Main material and finish:** Gray powder coated ALU housing, handle, padlock device, cover and shaft, zinc-plated steel cam and keeper

**Default cam:** 2893250016

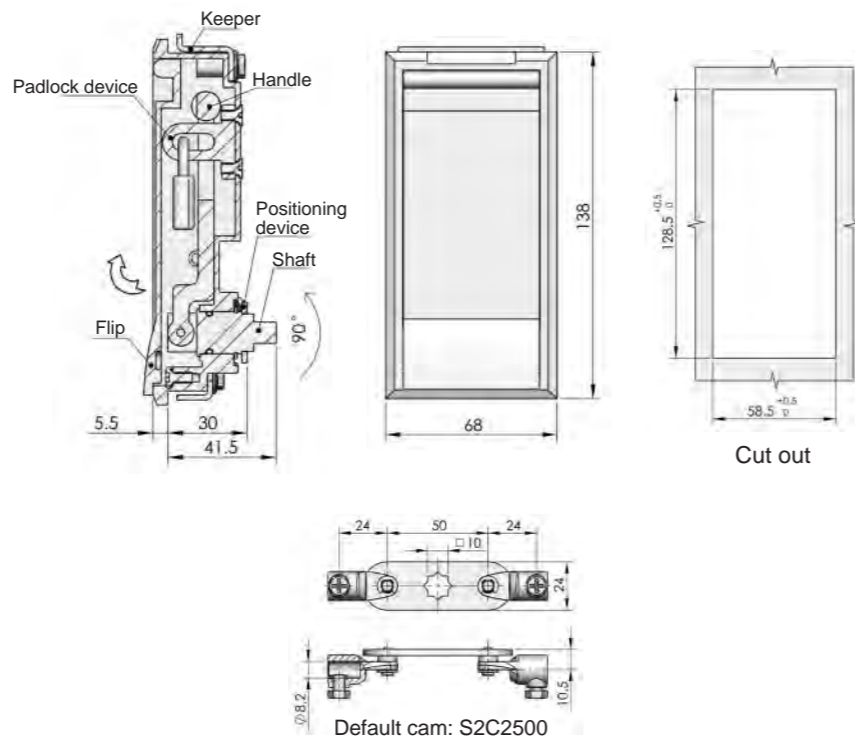
**MS850-1A**



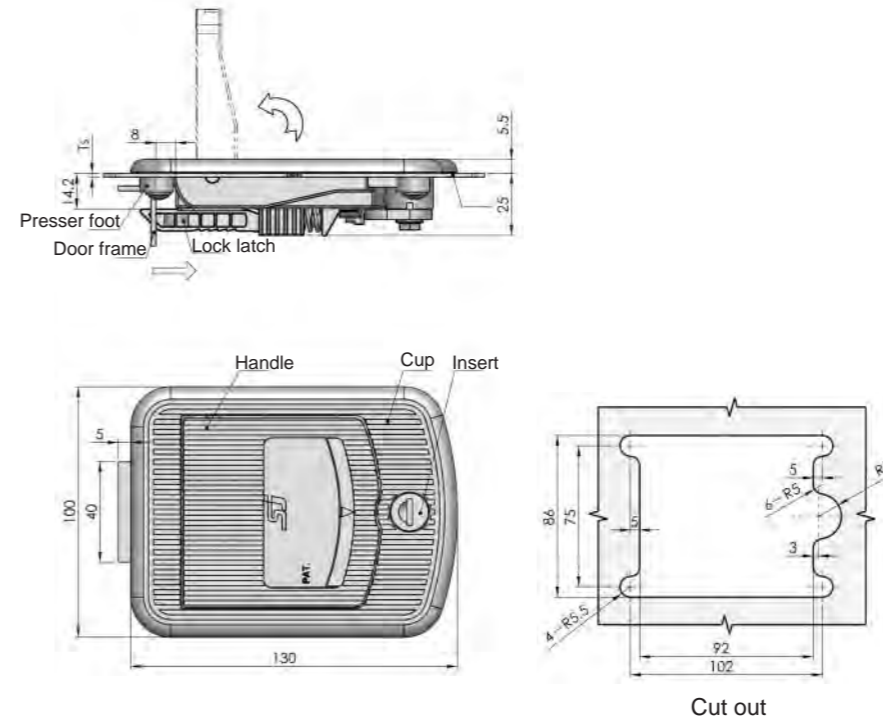
2PL

**Main material and finish:** Gray powder coated ALU housing, handle and cover, ZDC padlock device, zinc-plated steel shaft and keeper

**Default cam:** 2893250016



ERP MS850A1D000001



ERP MS881N00160002

**MS881-3**



**Main material and finish:** Black PA  
**Remarks:** Default key K160

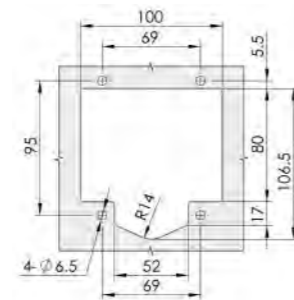
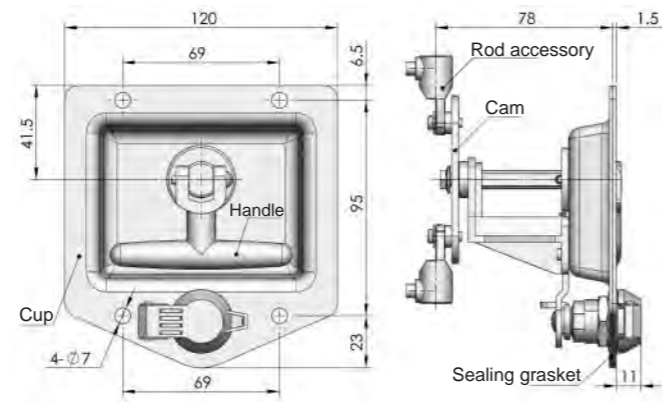
MS856



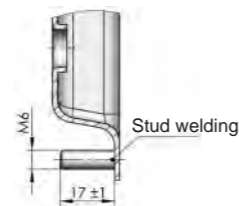
**Main material and finish:** Mirror polished stainless steel cup, bright chrome-plated ZDC handle, shaft tube and dust-proof cap, white zinc-plated ZDC bracket, steel cam and shaft

**Remarks:** Default key K130

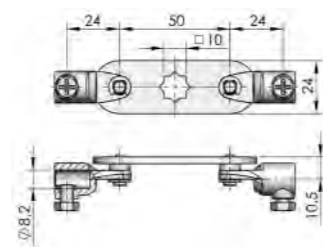
**Default cam:** 2891250002



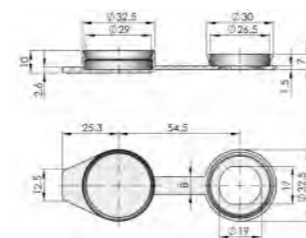
Cut out



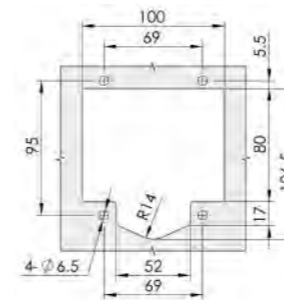
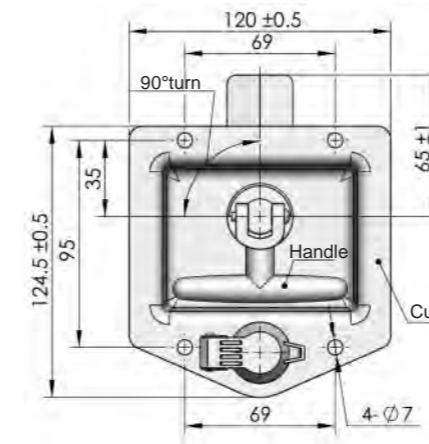
Optional cup



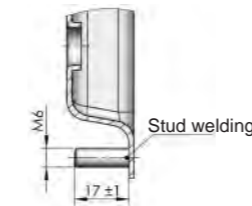
Default cam S2C2500



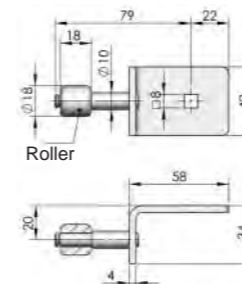
WP003 water-tight cap (Optional)



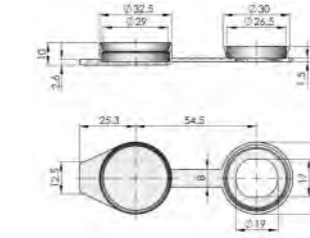
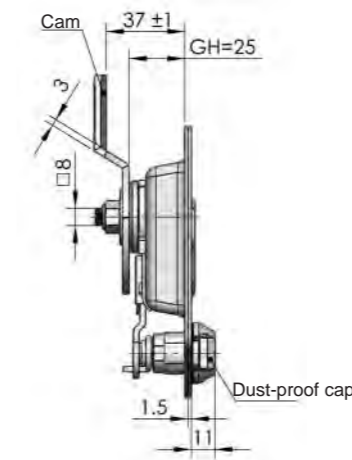
Cut out



Optional cup



Optional cam S1B1179D



Optional WP003 water-tight cap

MS857



**Main material and finish:** Mirror polished stainless steel cup, cam and shaft tube, bright chrome-plated ZDC handle, shaft tube and dust-proof cap

**Remarks:** Default key K130

**Default cam:** S3B65Y13001

	MS856 Hole type	MS856-M Screw bolt type
ERP	MS856S4A130001	MS856S4A130002

	MS857 Hole type	MS857-M Screw bolt type
ERP	MS857S4A130001	MS857S4A130033

Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket

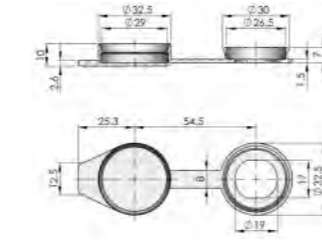
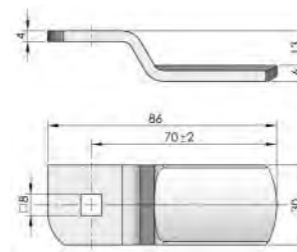
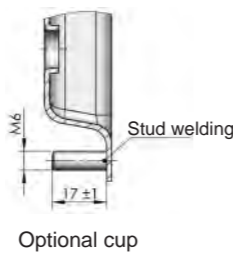
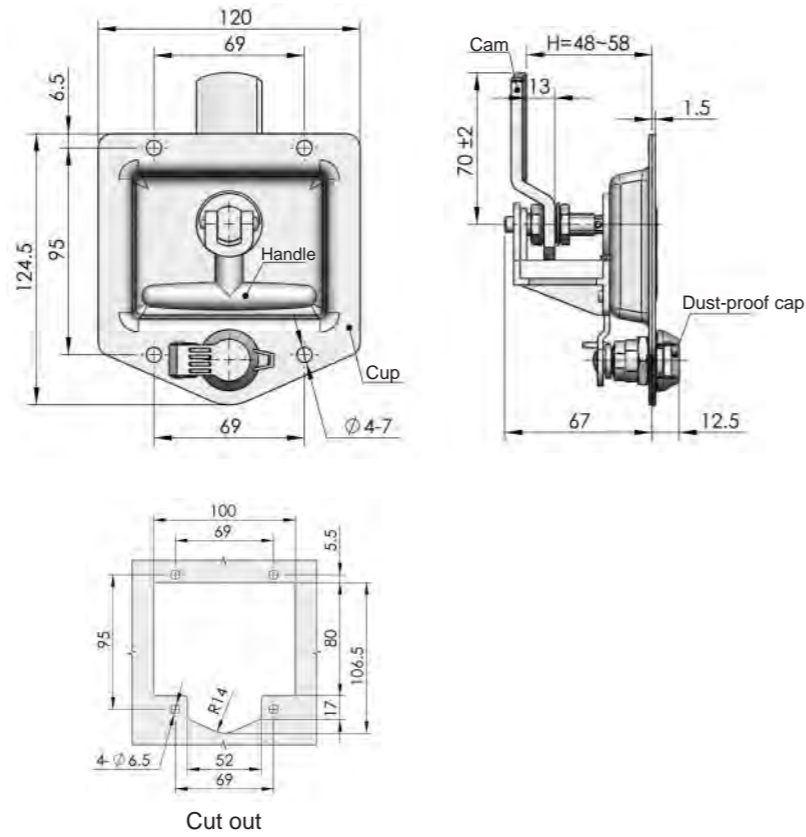
**MS858**



**Main material and finish:** Mirror polished stainless steel cup and cam, bright chrome-plated ZDC handle, shaft tube and dust-proof cap, white zinc-plated ZDC bracket and steel shaft

**Remarks:** Default key K130

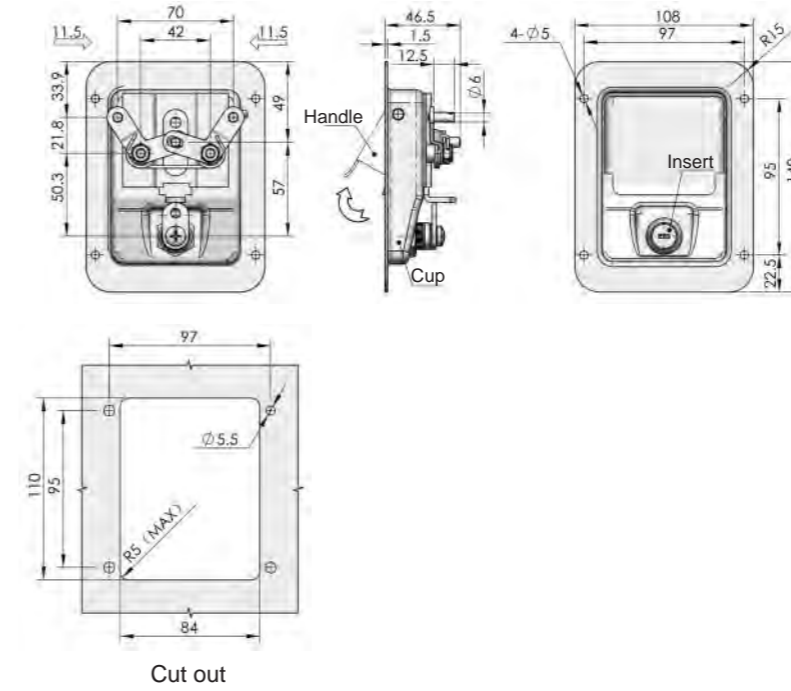
**Default cam:** S1B70Y13002



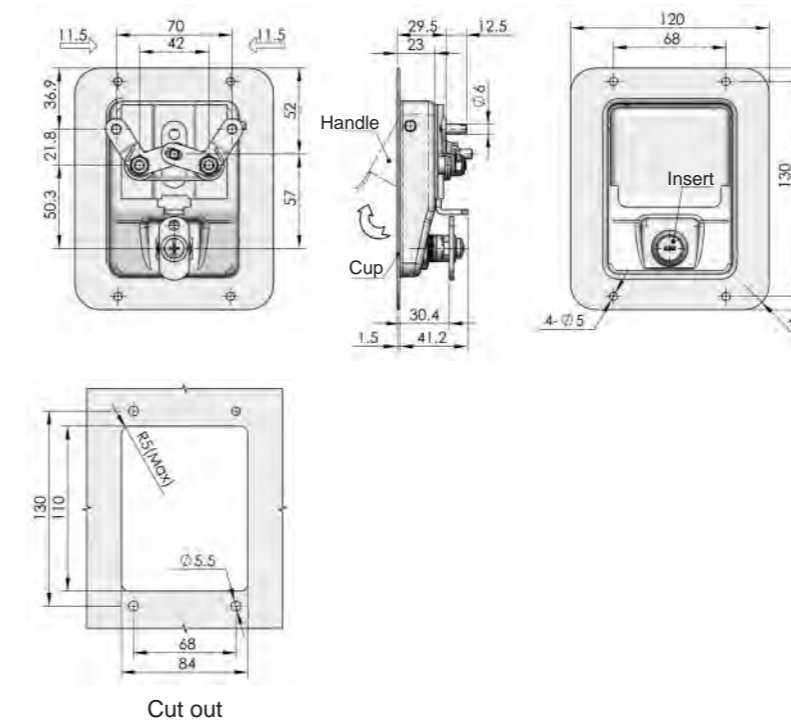
	MS858 Hole type	MS858-M Screw bolt type
ERP	MS858S4A130001	MS858S4A130002

Remarks : ERP excludes Cam

**MS866-1**



**MS866-2**



	MS866-1	MS866-2
ERP	MS866S4A082001	MS866S4A082002

**MS866-1**



**MS866-2**



**Main material and finish:** Mirror polished stainless steel cup and handle, bright chrome-plated ZDC profile cylinder, zinc-plated other parts

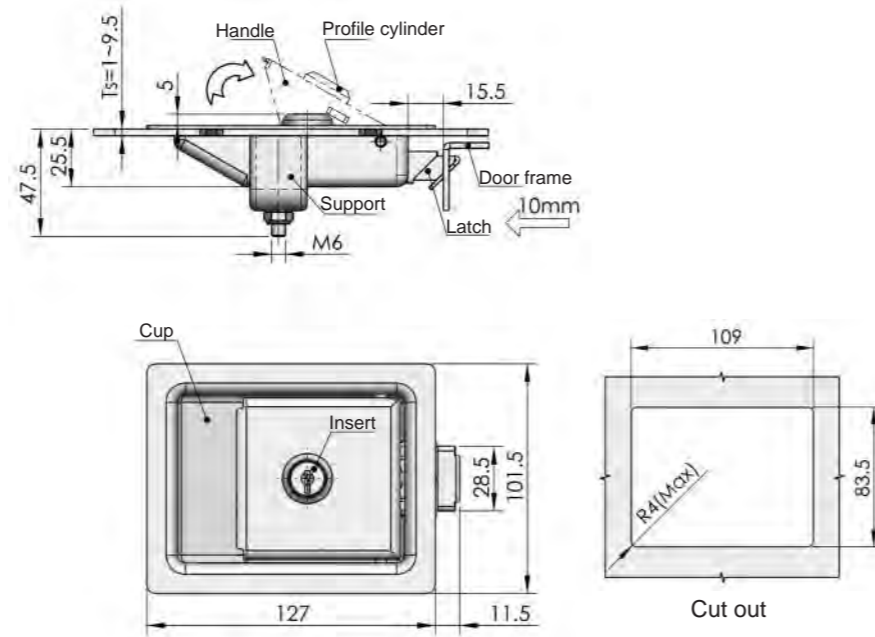
**Remarks:** Default key K082

Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket

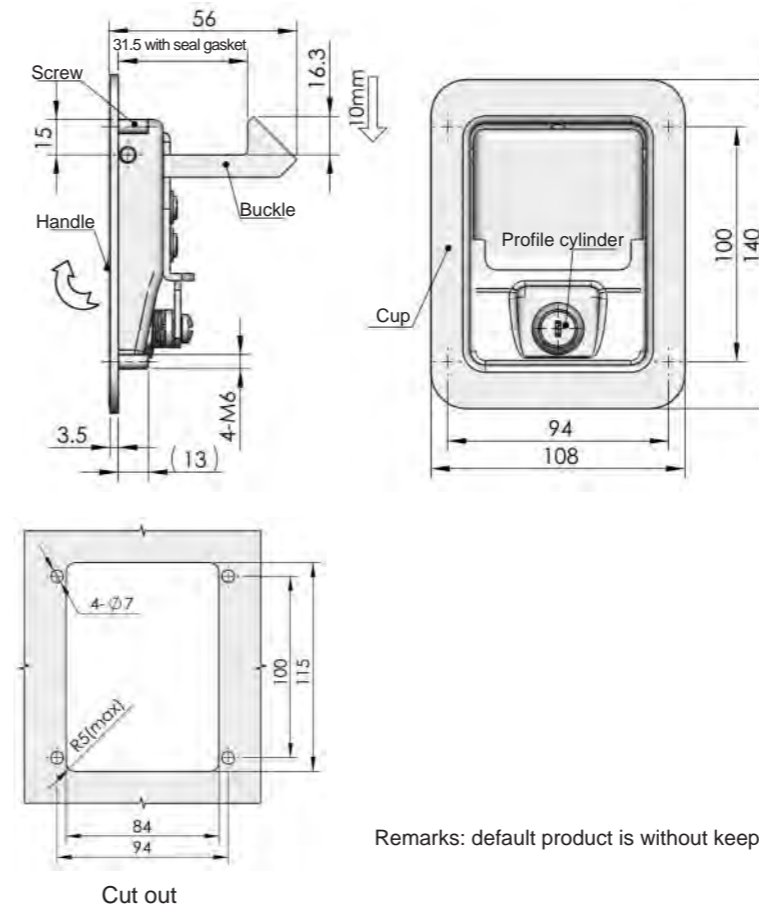
**MS866-3**



**Main material and finish:** Silk black steel cup, handle and ZDC profile cylinder, zinc-plated steel latch and support  
**Remarks:** Default key K160



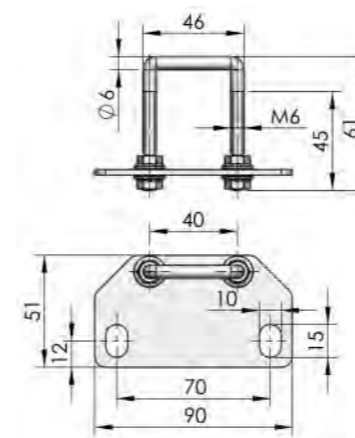
Specification	Without insert		With insert	
	Model	ERP	Model	ERP
Steel	MS866-3A	MS866F1A000006	MS866-3	MS866F1A160001
SUS	MS866-3SA	MS866S4A000005	MS866-3S	MS866S4A160003



Remarks: default product is without keeper

Specification	Without insert		With insert	
	Model	ERP	Model	ERP
H=31.5	MS866-5	MS866F1A080001	MS866-5A	MS866F1A000003
H=44	MS866-5B	MS866F1A080002	MS866-5BA	MS866F1A000004
H=55	MS866-5C	MS866F1A080003	MS866-5CA	MS866F1A000005

**Pull buckle**



ERP	2138665001
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**MS866-5**

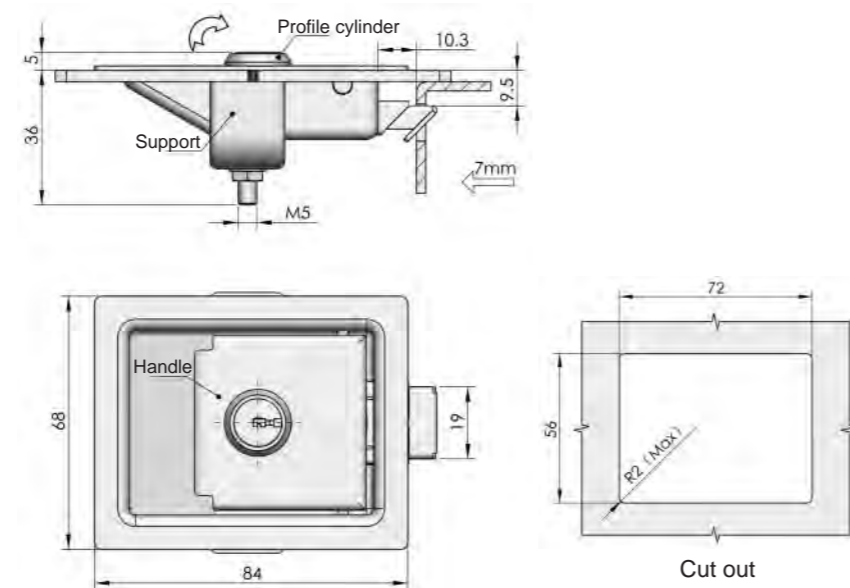


**Main material and finish:** Silk black steel cup and handle, nickle-plated ZDC profile cylinder, zinc-plated steel latch, support and weld screw  
**Remarks:** Default key K082

**MS866-4**



**Main material and finish:** Silk black steel cup and handle, sand blast and nickle-plated ZDC profile cylinder, zinc-plated steel latch, support and riveting screw  
**Remarks:** Default key K330



Specification	Model	ERP
With insert	MS866-4	MS866F1A330001
Without insert	MS866-4A	MS866F1A000001

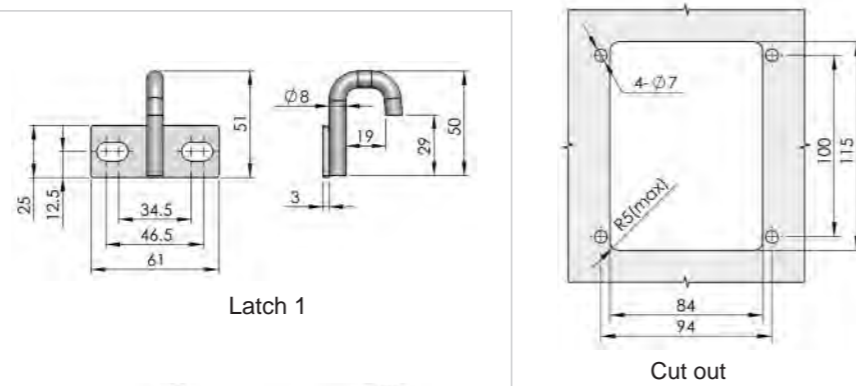
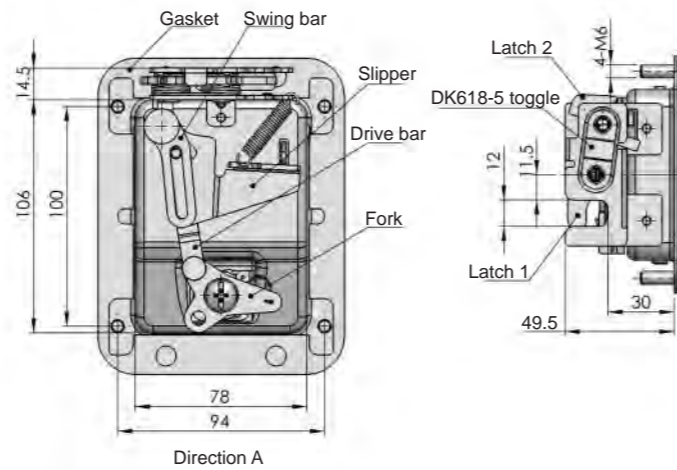
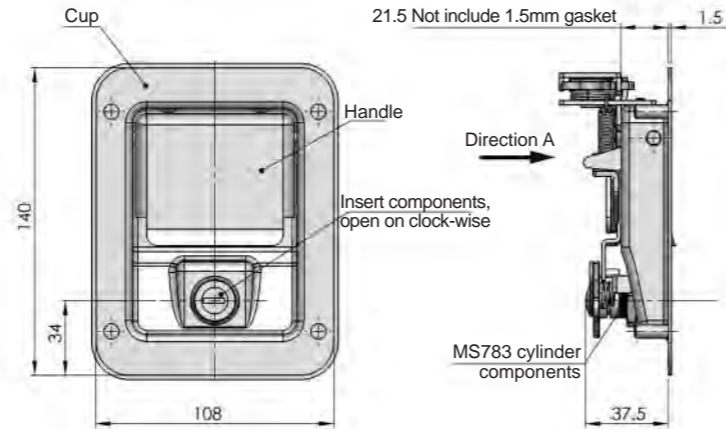
**MS866-5F**



**Main material and finish:** Silk black steel cup, handle, chrome plated ZDC cylinder, stainless steel cover

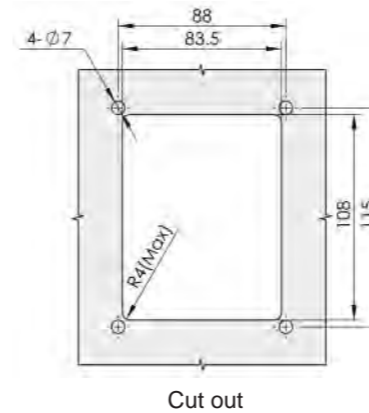
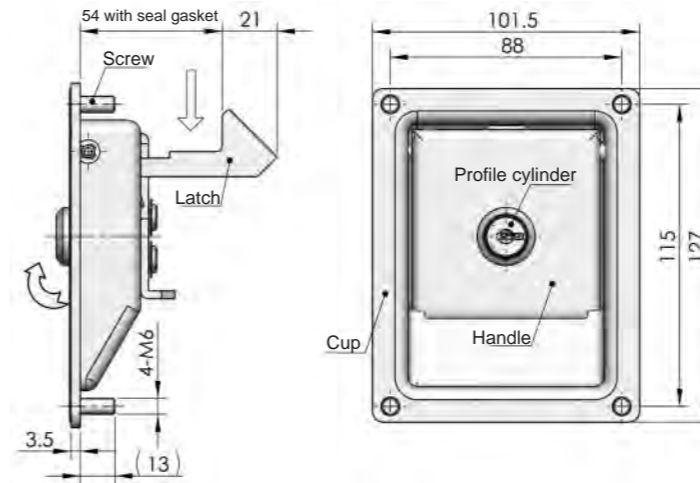
**Application:** The drawing shows in locked position, the handle can be taken up, but the latch is still in locked position, rotate the insert by 180°, bring along the fork by 90°, pull the handle and latch is open. There are two level locked position, the first grade is half locked, the second is full locked

**Remarks:** There is catcher available, default one is without catcher. Default key is K49, key different available



The dimension of Latch 1 and Latch 2 are the same, the welding direction is different

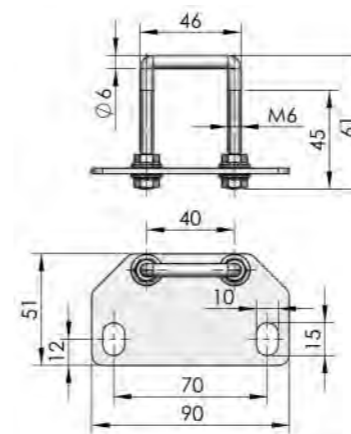
ERP MS866F1A490001



Remarks: default product is with out keeper

	With insert		Without insert	
	Model	ERP	Model	ERP
H=30.5	MS866-6	MS866F1A160004	MS866-6A	MS866F1A000011
H=43	MS866-6B	MS866F1A160003	MS866-6BA	MS866F1A000010
H=54	MS866-6C	MS866F1A160002	MS866-6CA	MS866F1A000009

**Pull buckle**



ERP 2138665001


**MS866-6**



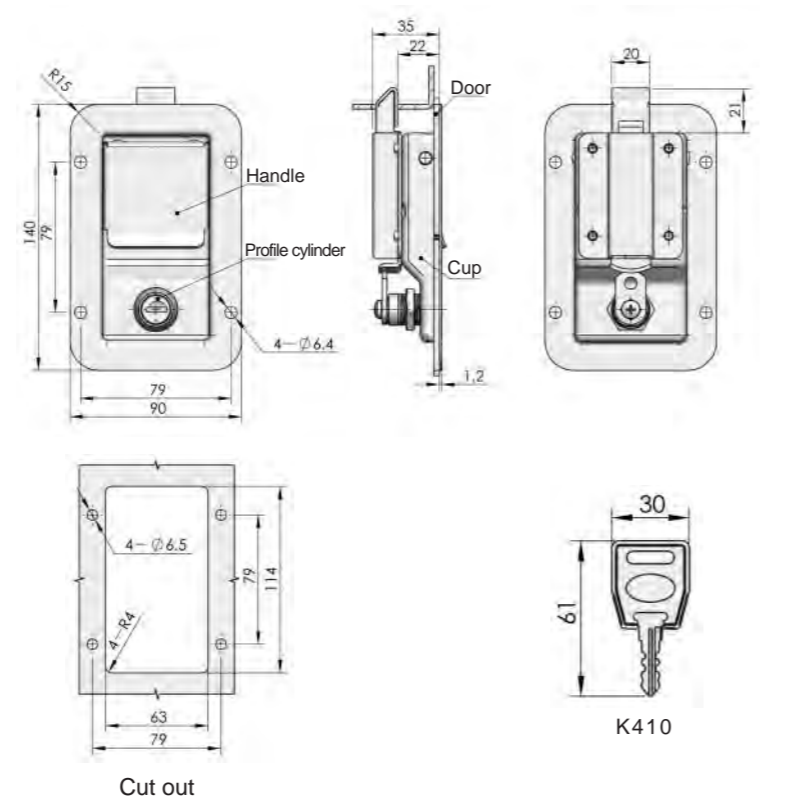
**Main material and finish:** Silk black steel cup, handle and ZDC profile cylinder, zinc-plated steel latch, support and weld screw  
**Remarks:** Default key K160

Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket

**MS866-7**




**Main material and finish:** Stainless steel cup, handle, latch and cam, bright chrome-plated profile cylinder  
**Remarks:** Default key K410

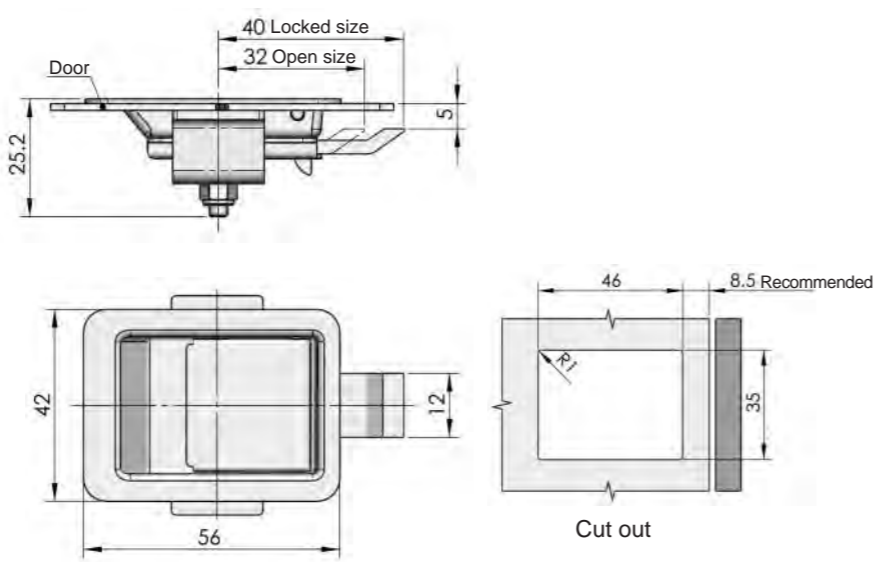


	<b>MS866-7 With insert</b>	<b>MS866-7A Without insert</b>
<b>ERP</b>	MS866S4A410001	MS866S4A000004

**MS866-8**




**Main material and finish:** Wire-drawing polished stainless steel

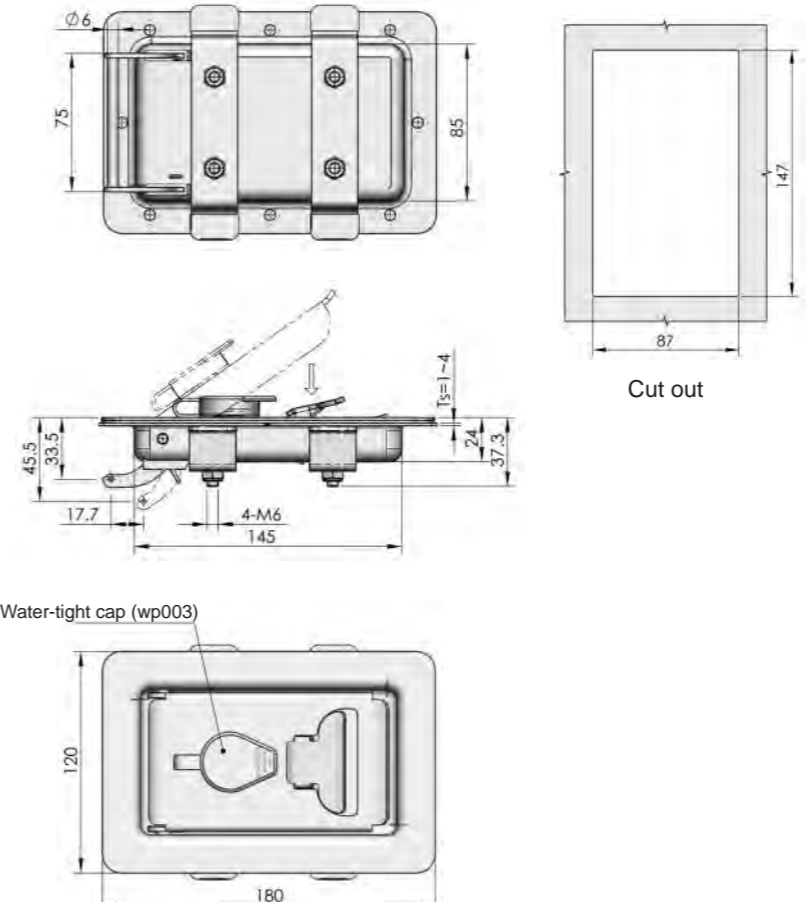


<b>ERP</b>	MS866S4B000001
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**MS866-11**



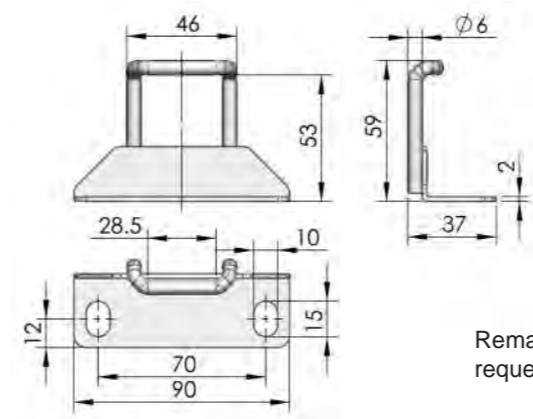
**Main material and finish:** Mirror polished stainless steel cup, handle and button, bright chrome-plated profile cylinder  
**Remarks:** Default key K082



Cut out

<b>ERP</b>	MS866S4A083001
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**Pull buckle**



Remarks: please specify on request of buckle accessory

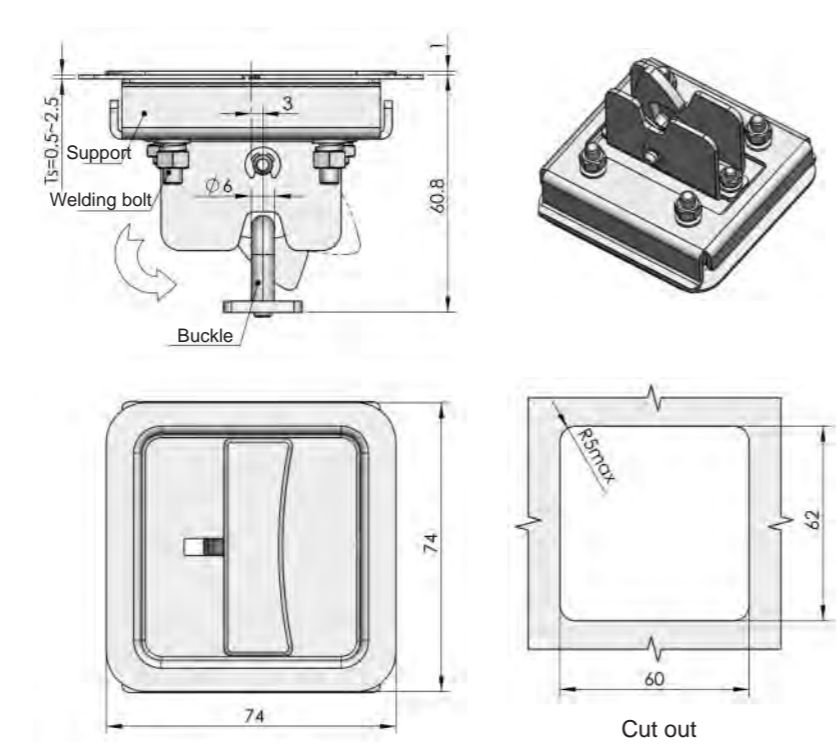
<b>ERP</b>	2138665003
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Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket

Accessories
Handle lock
Cylinder lock
Electronic lock
Swing handle
Rod control lock
Panel lock
Toggle and hook
Handles
Door stop
Hinge
Seal gasket

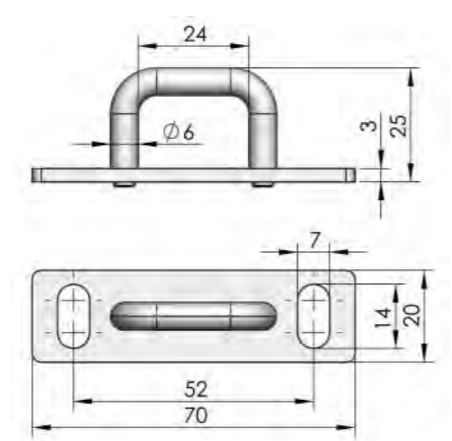


**MS866-14**  
Main material and finish: Stainless steel



ERP MS866S4C000001

**Pull buckle**

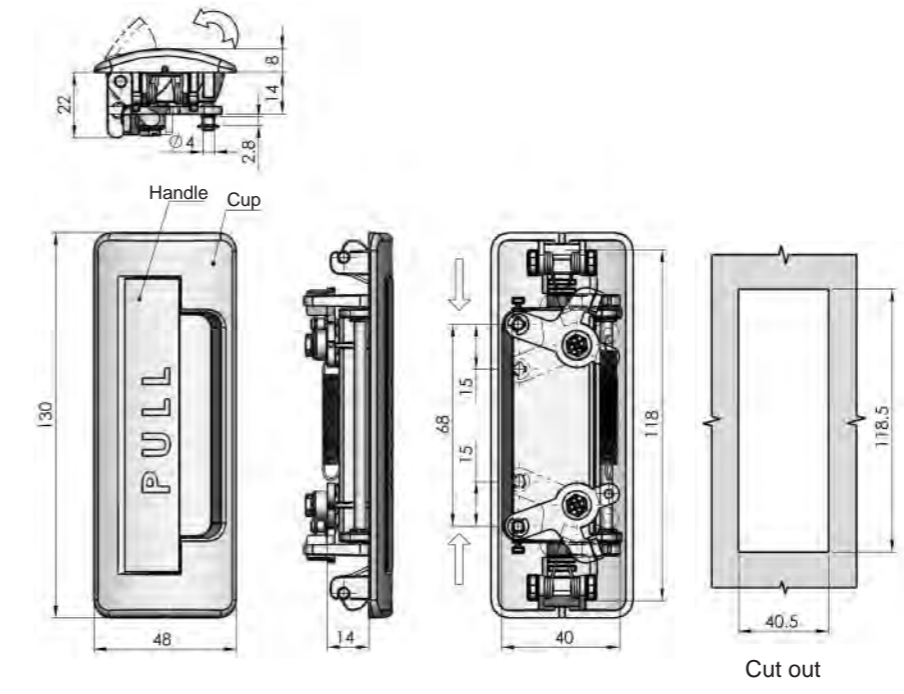


Remarks: please specify on request of buckle accessory

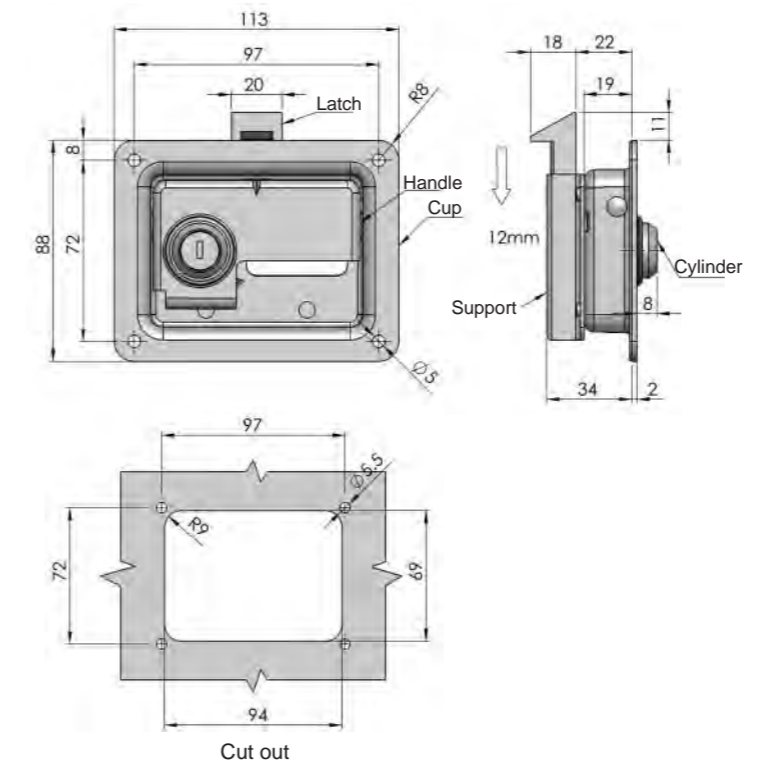
ERP 2248661401



**MS866-13**  
Main material and finish: Nanometer painted ZDC lock



ERP MS866Z2B000001



ERP	MS866-22	MS866-22S
ERP	MS866F2B530002	MS866S4A530002



**MS866-22**  
Main material and finish: Mirror polished stainless steel cup and handle (steel in nanometer painting available), white zinc plated latch and support.  
Remarks: Default key K53

Accessories
Handle lock
Cylinder lock
Electronic lock
Swing handle
Rod control lock
Panel lock
Toggle and hook
Handles
Door stop
Hinge
Seal gasket



Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
**Panel lock**  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket

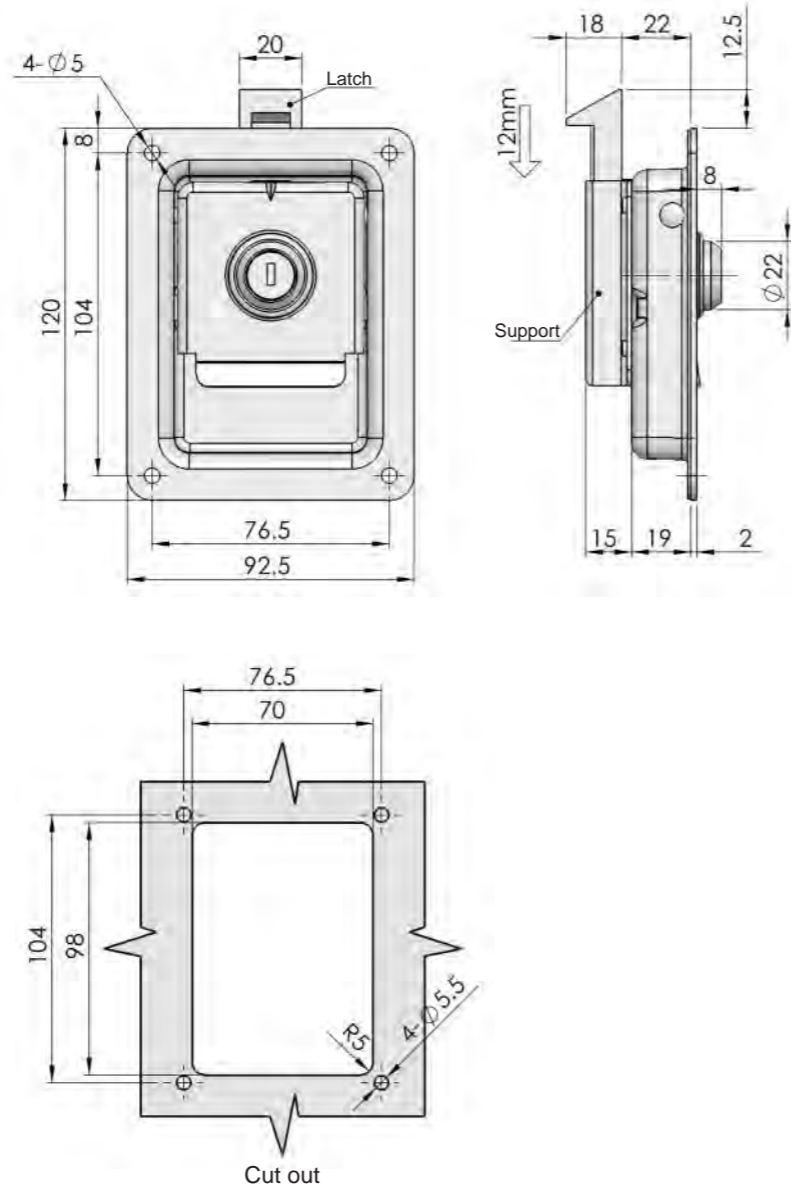
**MS866-21**



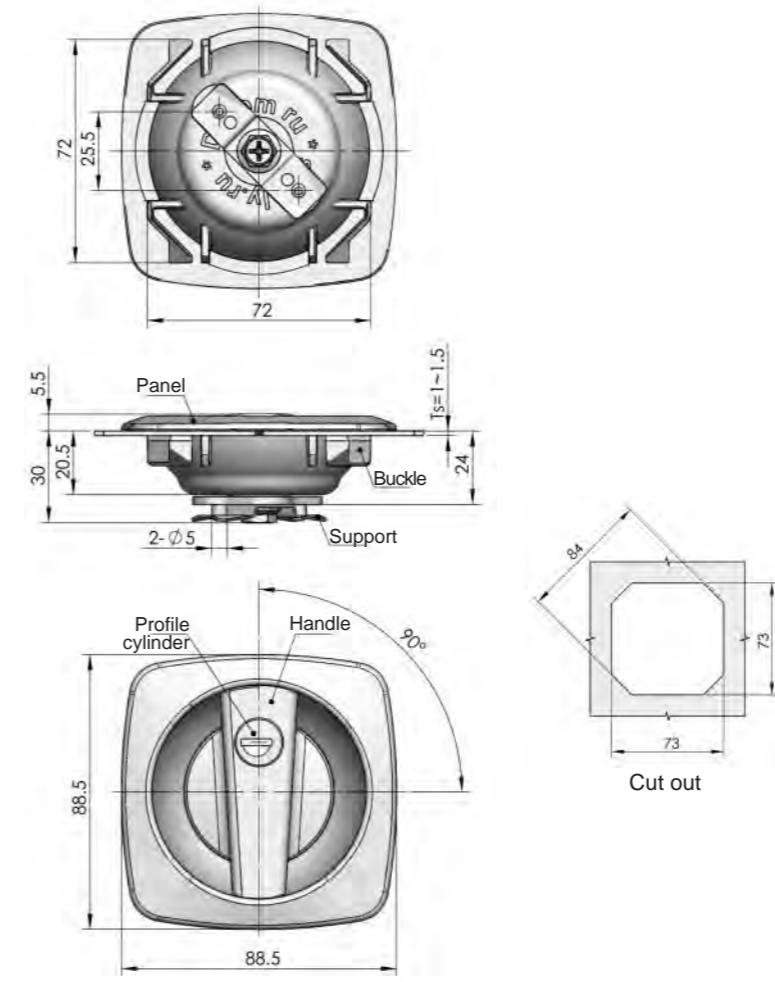
**MS866-21S**



**Main material and finish:** Stainless steel (or steel) cup, handle, white zinc plated latch and support  
**Remarks:** Default key K530



	<b>MS866-21</b>	<b>MS866-21S</b>
<b>ERP</b>	MS866F2B530001	MS866S4A530001



<b>ERP</b>	MS870N2A160002
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**MS870**



**RL IP54**

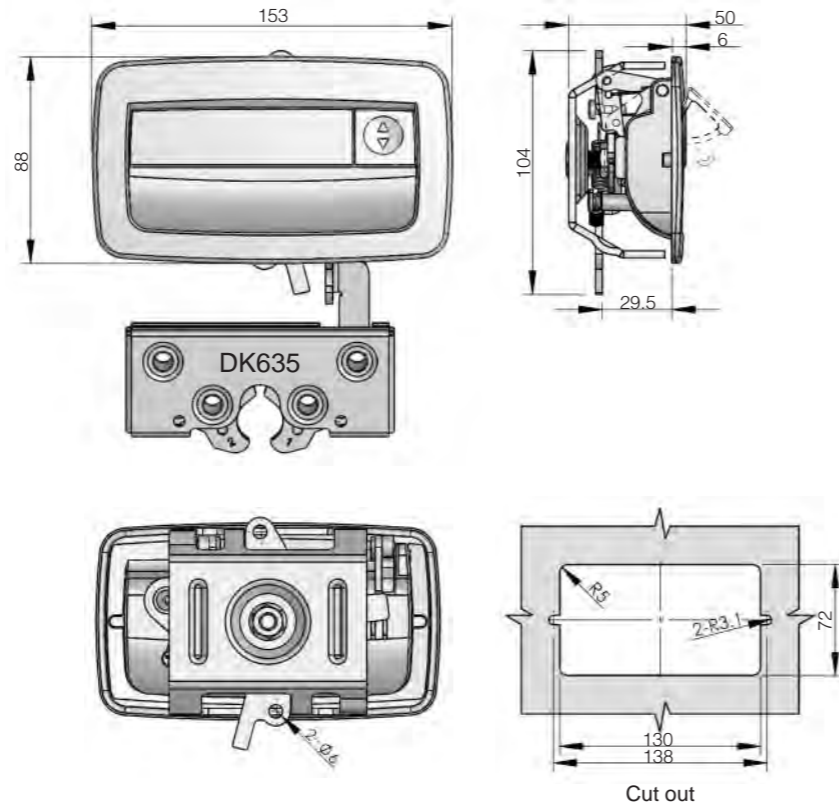
**Main material and finish:** Black PA housing and handle, zinc-plated steel support  
**Remarks:** Default key K160

Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
**Panel lock**  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket

TOGGLE AND HOOK SERIES

Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket

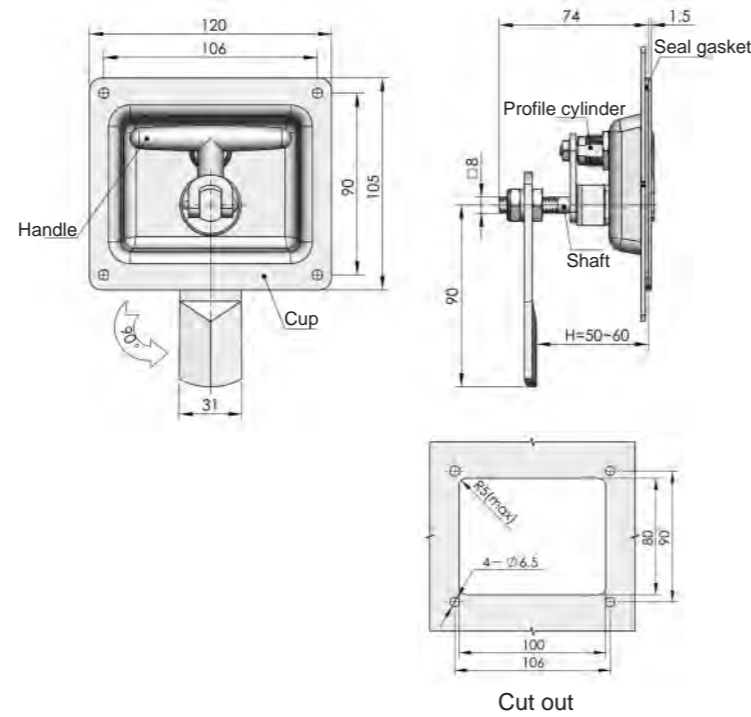
MS983



**Material and finish:** Silk black ZDC housing and handle  
**Application:** Pull the handle to make cam rotating, latch toggling and rod stretching to realize opening and closing function. ( Default latch DK635 )  
**Remarks:** Default key K640

ERP MS983Z2A640002

MS871



**Main material and finish:** Mirror polished stainless steel cup and shaft, bright chrome-plated handle and shaft tube  
**Remarks:** Default key K15-05A

**Default cam:** S1B90Y00002

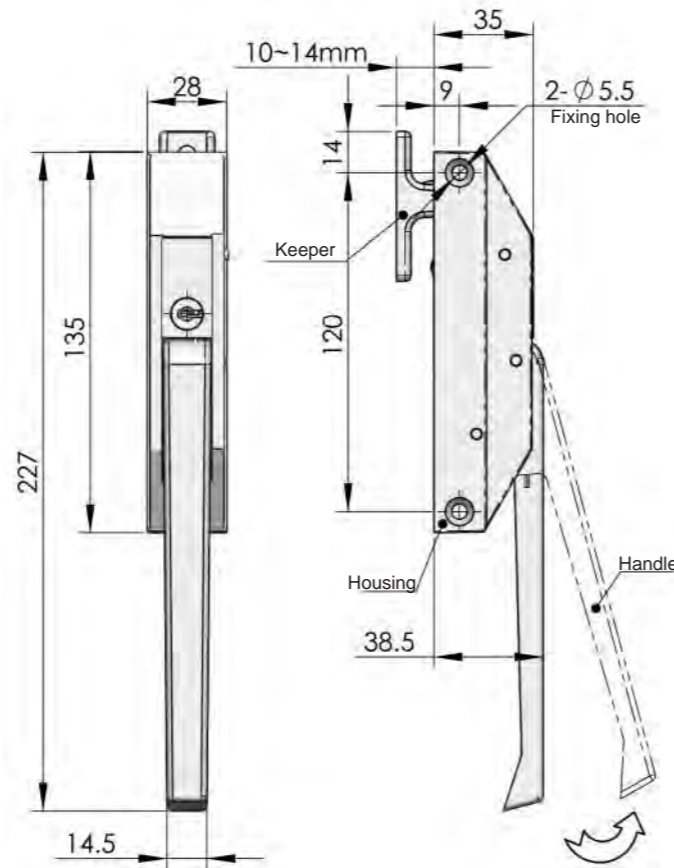
	MS871-1 With insert	MS871-2 Without insert
ERP	MS871S4AT05001	MS871S4A000001

MS690	MS790	DKS	DK601
DK602	DK603	DK604	DK605
DK606	DK607-1	DK609	DK610
DK611	DK612	DK615	DK618
DK617	DK623	DK725-3B	DK624

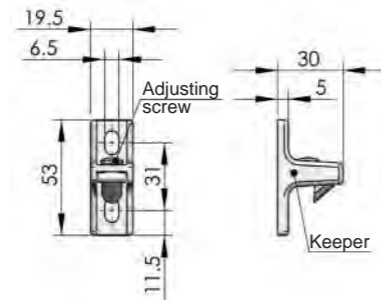
**DK680**



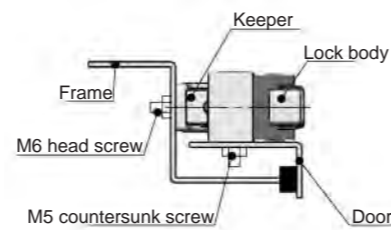
**Main material and finish:** Bright chrome-plated ZDC housing, keeper and profile cylinder, stainless steel handle  
**Remarks:** Default key K260



**Keeper (Accessory)**



**Example of application**

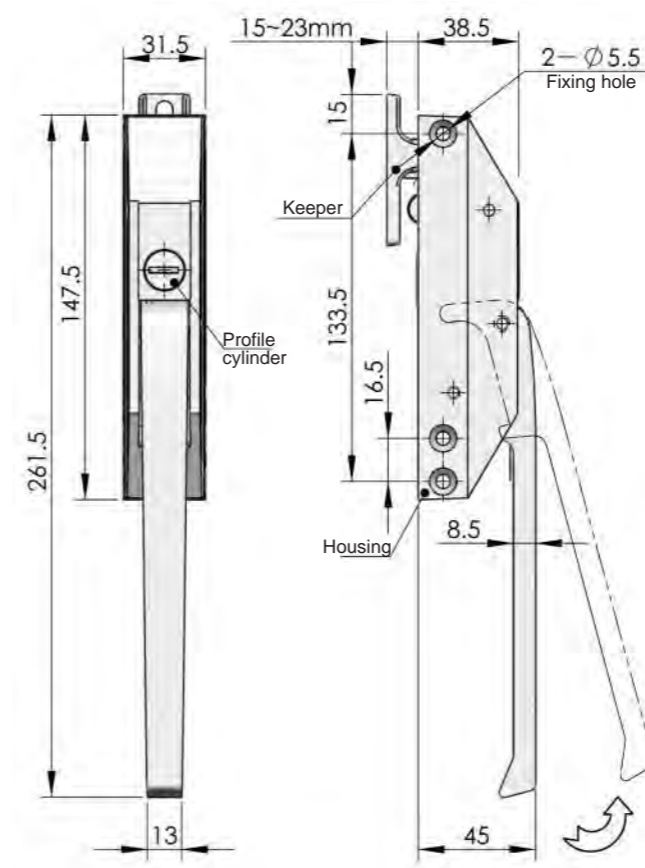


Specification	Model	ERP
With insert	DK680-11	DK680Z3A260001
Without insert	DK680-21	DK680Z3A000001

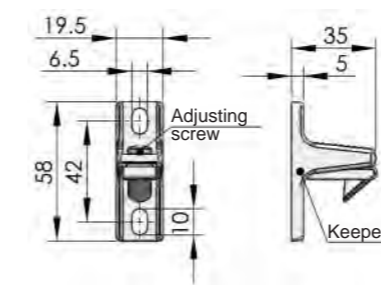
**DK690**



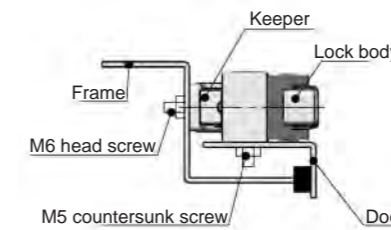
**Main material and finish:** Bright chrome-plated ZDC housing, handle, keeper and profile cylinder  
**Remarks:** Default key K270



**Keeper (Accessory)**



**Example of application**



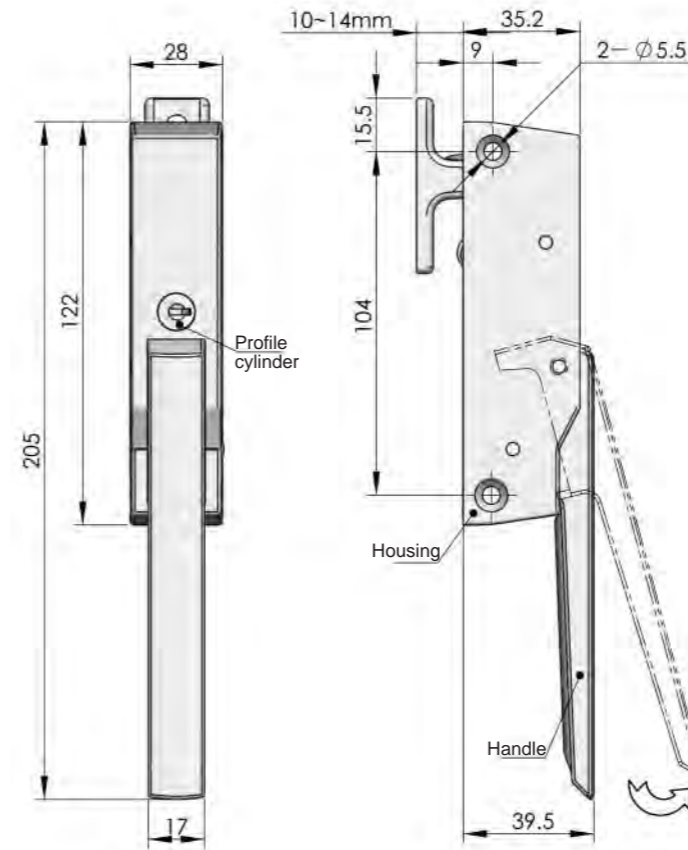
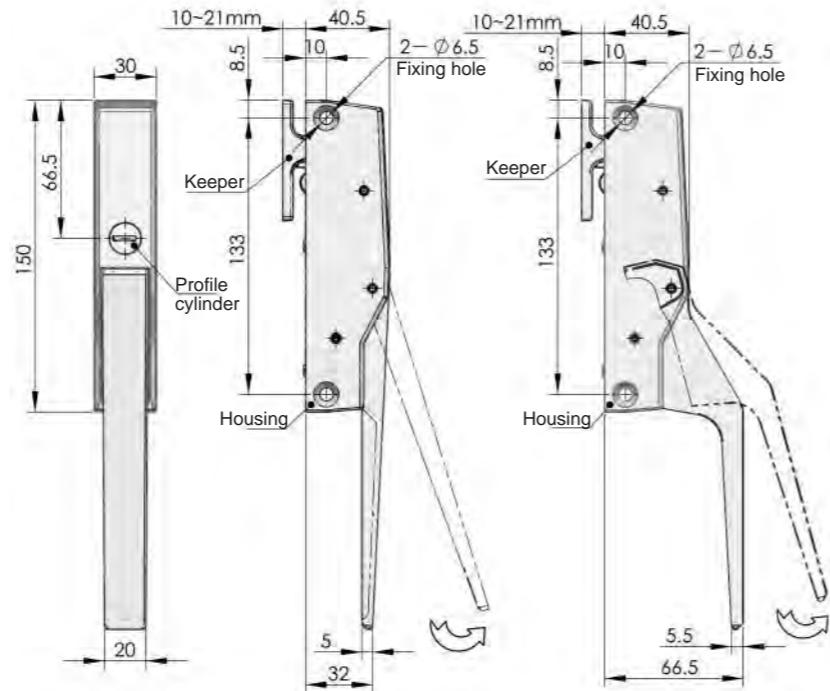
Specification	Model	ERP
With insert	DK690-10	DK690Z3A270001
Without insert	DK690-20	DK690Z3A000001

**DK790**



**Main material and finish:** Bright chrome-plated ZDC housing, handle, keeper and profile cylinder  
**Remarks:** Default key K270

**Remarks:** Default key K270



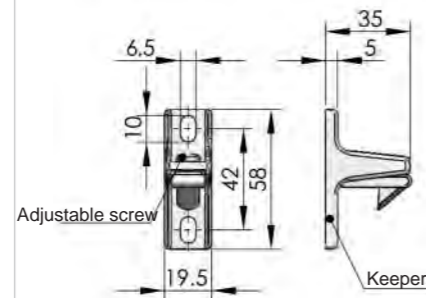
**DK880**



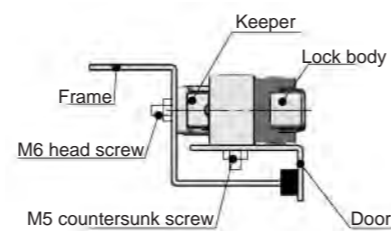
**Main material and finish:** Bright chrome-plated ZDC housing, handle, keeper and profile cylinder  
**Remarks:** Default key K260

**Remarks:** Default key K260

**Keeper (Accessory)**

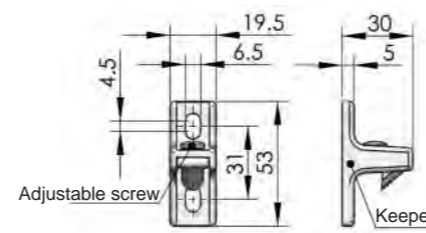


**Example of application**

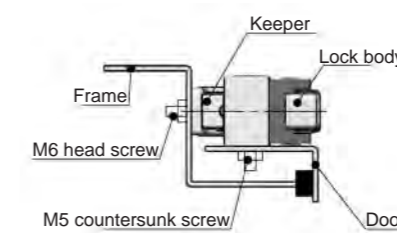


Specification	Model	ERP
With profile cylinder, straight handle	DK790-10-1	DK790Z3A270001
With profile cylinder, curved handle	DK790-10-2	DK790Z3A270002
Without profile cylinder, straight handle	DK790-20-1	DK790Z3A000001
Without profile cylinder, curved handle	DK790-20-2	DK790Z3A000002

**Keeper (Accessory)**



**Example of application**



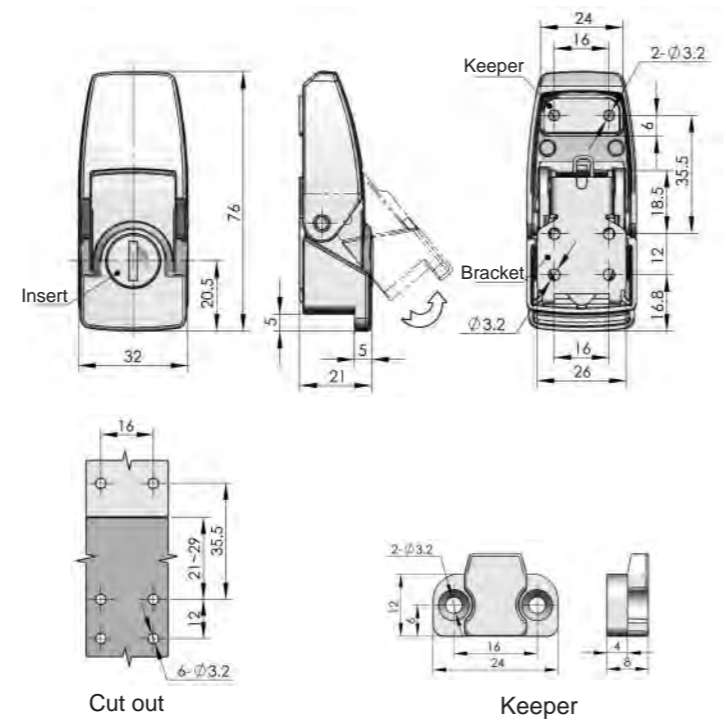
Specification	Model	ERP
With profile cylinder, ZDC handle	DK880-10	DK880Z3A260001
With profile cylinder, stainless steel handle	DK880-11	DK880Z3A260002
With profile cylinder, PA handle	DK880-12	DK880Z3A260003
Without profile cylinder, ZDC handle	DK880-20	DK880Z3A000001
Without profile cylinder, stainless steel handle	DK880-21	DK880Z3A000002
Without profile cylinder, PA handle	DK880-22	DK880Z3A000003

Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket

Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket



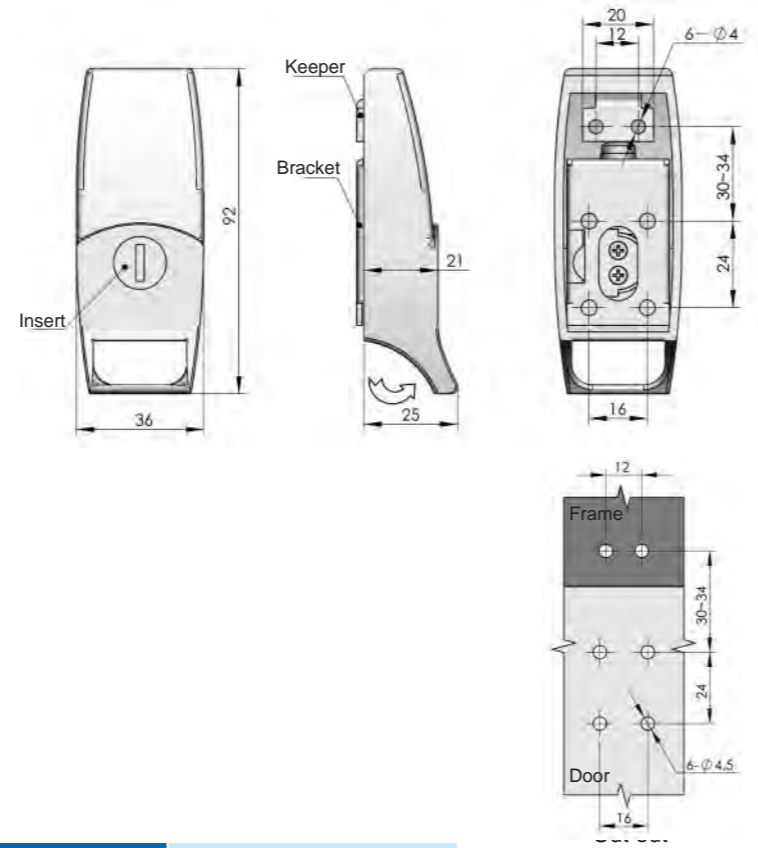
**DKS**  
**Main material and finish:** ZDC housing and keeper, stainless steel bracket  
**Remarks:** Optional key K080



Specification	ERP	
	Bright chrome-plated	Black powder coated
DKS-1 With insert	DKDKSZ3B080001	DKDKSZ1A080001
DKS-2 Without insert	DKDKSZ3B000001	DKDKSZ1A000001



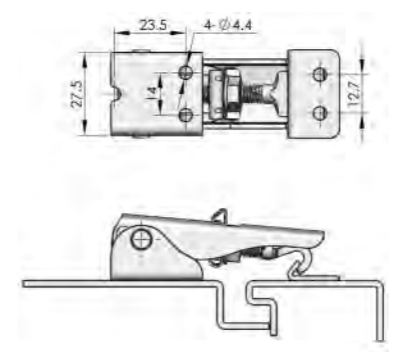
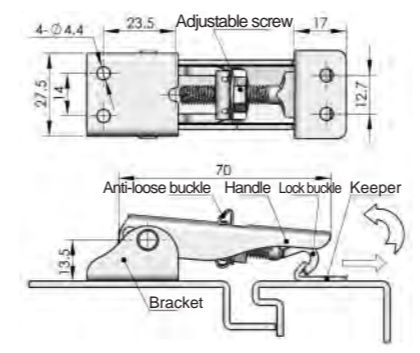
**DK601**  
**Main material and finish:** Black powder coated ZDC housing, stainless steel bracket and keeper  
**Remarks:** Optional key K080



ERP	DK601Z1A080001

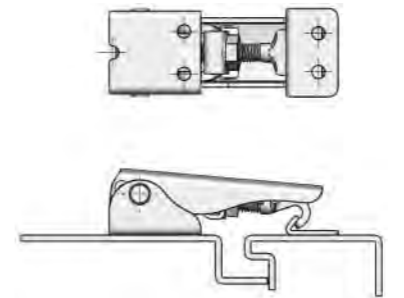
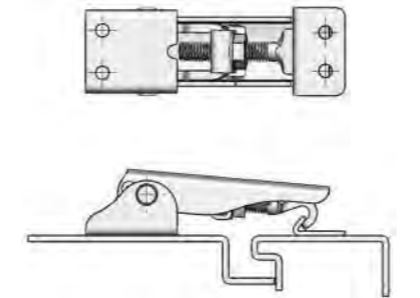
**Exposed type**

**Concealed type**



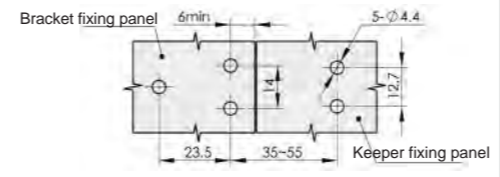
With anti-loose buckle

With anti-loose buckle

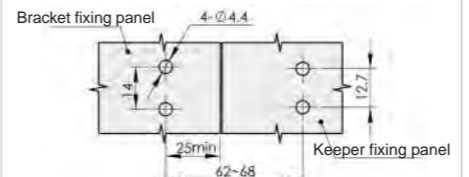


With anti-loose buckle

With anti-loose buckle



Cut out



Cut out

Specification	Exposed type			
	Stainless steel		Steel	
	Model	ERP	Model	ERP
Without anti-loose hook	DK602-1ES	DK602S4A000001	DK602-1E	DK602F3D000001
With anti-loose hook	DK602-3B-1ES	DK602S4A000003	DK602-3B-1E	DK602F3D000004

Specification	Concealed type			
	Stainless steel		Steel	
	Model	ERP	Model	ERP
Without anti-loose hook	DK602-1HS	DK602S4A000002	DK602-1H	DK602F3D000002
With anti-loose hook	DK602-3B-1HS	DK602S4A000004	DK602-3B-1H	DK602F3D000005

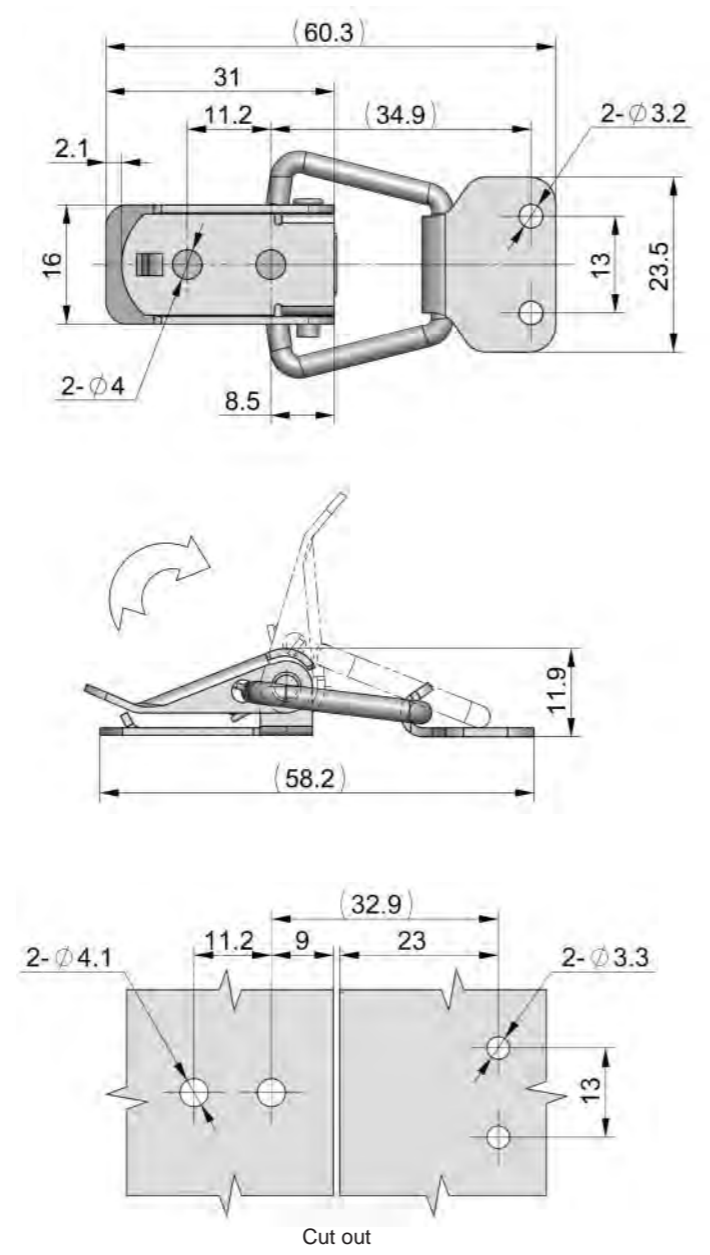


**DK602**  
**Main material and finish:** Electrolysis polished stainless steel or zinc-plated steel

Accessories
Handle lock
Cylinder lock
Electronic lock
Swing handle
Rod control lock
Panel lock
<b>Toggle and hook</b>
Handles
Door stop
Hinge
Seal gasket



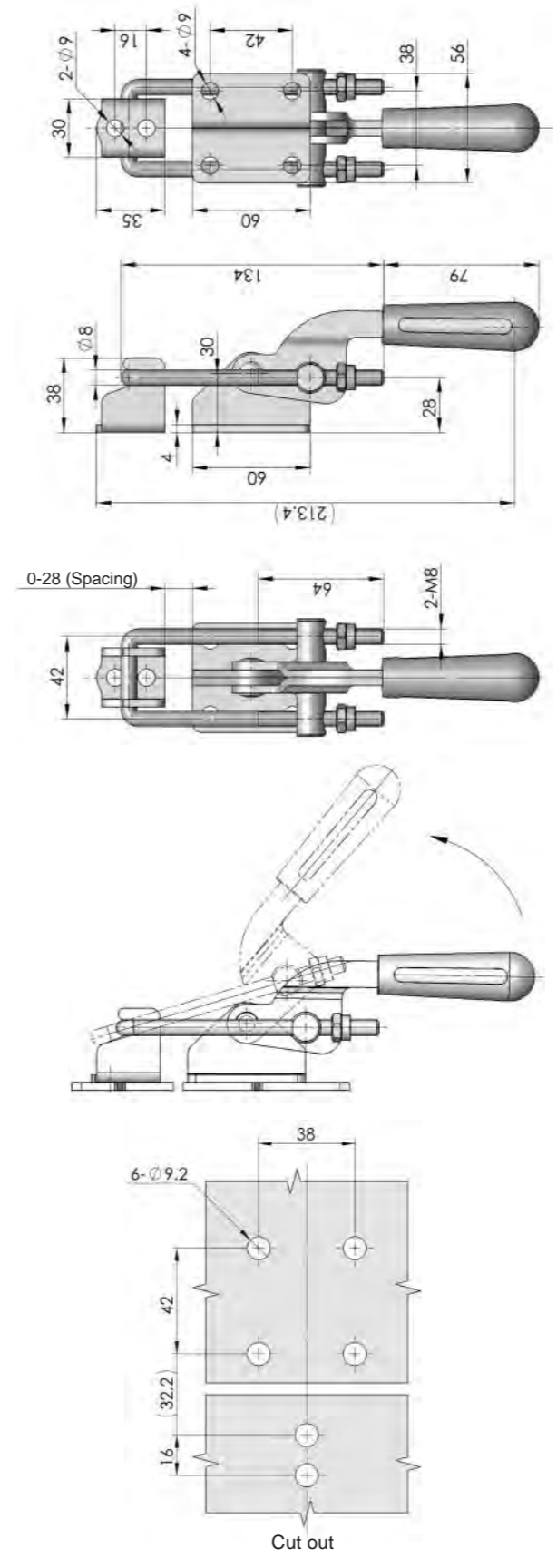
**DK619-2-1D**  
Main material and finish: Mirror polishing cover with plastic SUS304 body



ERP DK619S4A000001



**DK603-3**  
Main material and finish: white zinc-plated steel



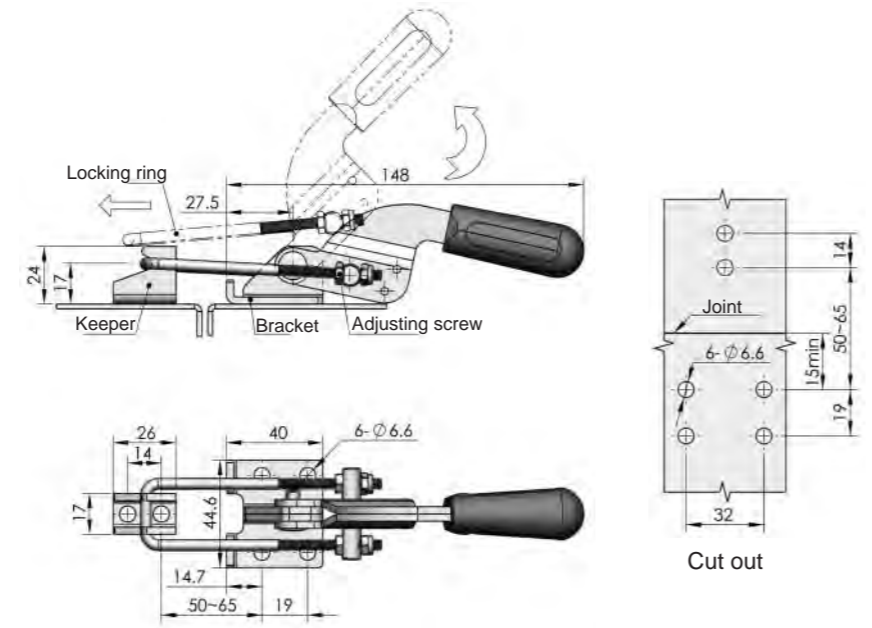
ERP DK603F3D000004

Accessories
Handle lock
Cylinder lock
Electronic lock
Swing handle
Rod control lock
Panel lock
<b>Toggle and hook</b>
Handles
Door stop
Hinge
Seal gasket

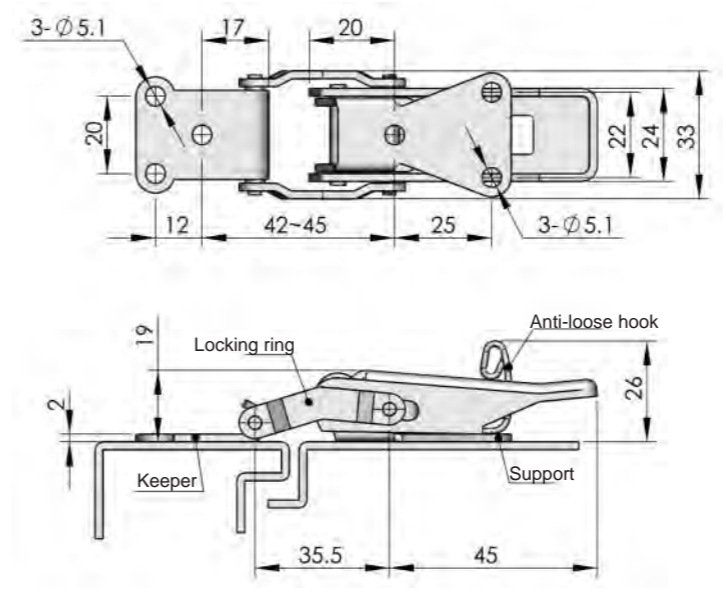
Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket



**DK603**  
Main material and finish: Zinc-plated steel body, rubber handle



ERP DK603F3D000001



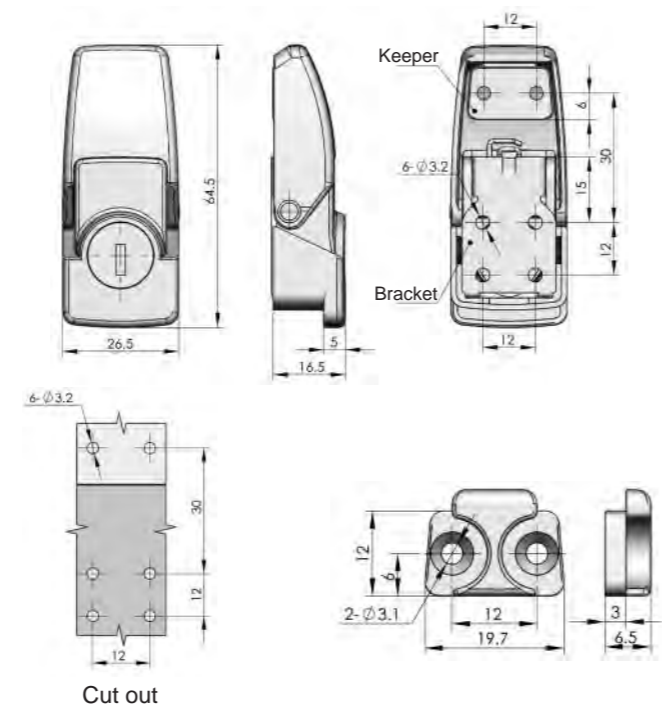
ERP DK605S4A000004



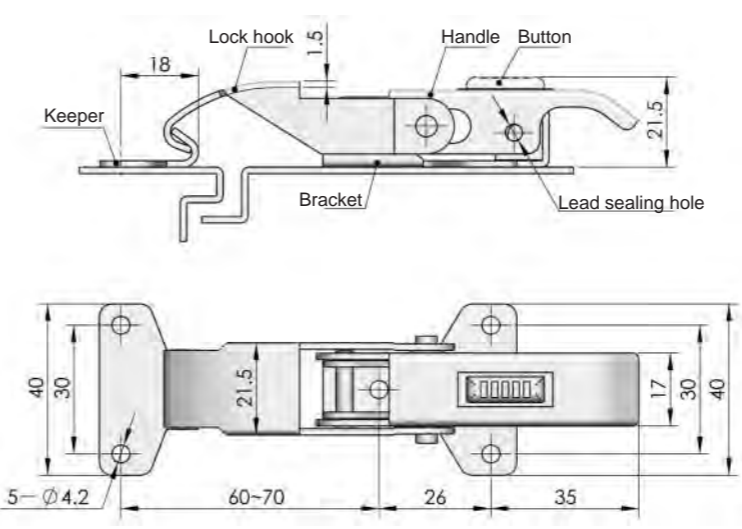
**DK605**  
Main material and finish: Mirror polished stainless steel



**DK604**  
Main material and finish: ZDC housing and keeper, stainless steel bracket  
Remarks: Key K080 for selection



Specification	ERP	
	Black powder coated	Bright chrome-plated
DK604-1 With insert	DK604Z2A080002	DK604Z3A080001
DK604-2 Without insert	DK604Z2A000001	DK604Z3A000001



ERP DK606F3D000001



**DK606**  
Main material and finish: Zinc-plated steel

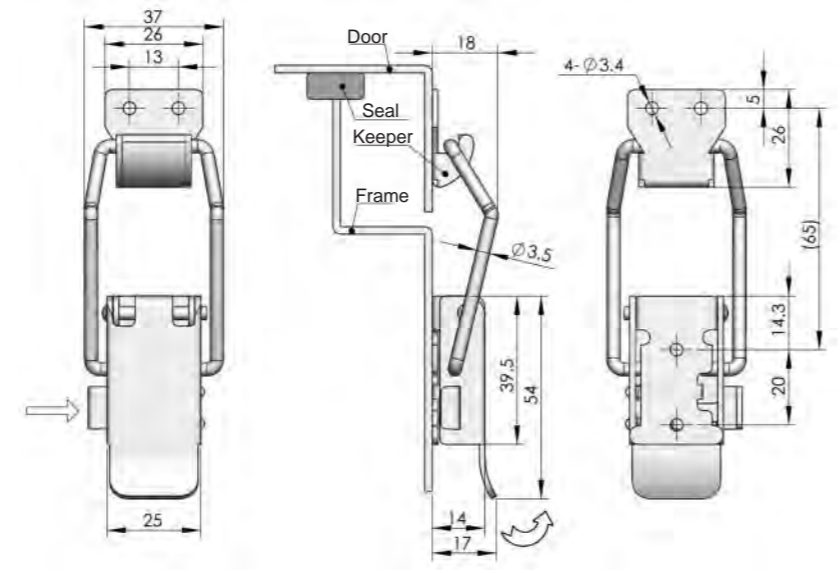
Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket

Accessories
Handle lock
Cylinder lock
Electronic lock
Swing handle
Rod control lock
Panel lock
Toggle and hook
Handles
Door stop
Hinge
Seal gasket

Accessories
Handle lock
Cylinder lock
Electronic lock
Swing handle
Rod control lock
Panel lock
Toggle and hook
Handles
Door stop
Hinge
Seal gasket



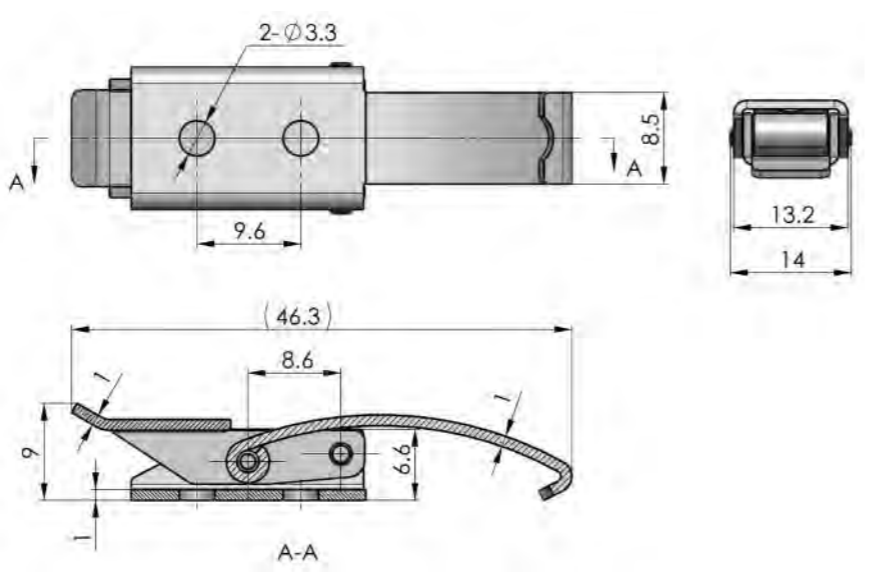
**DK607-1**  
Main material and finish: Lapped vibration polishing stainless steel



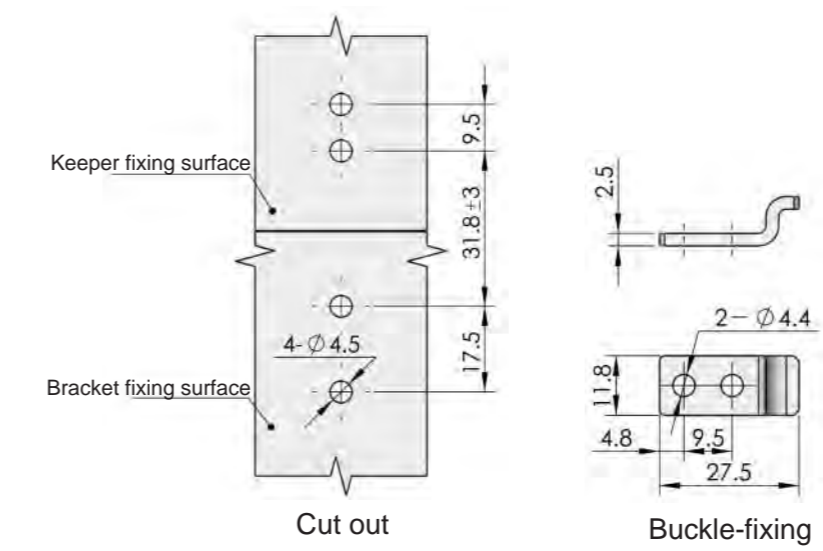
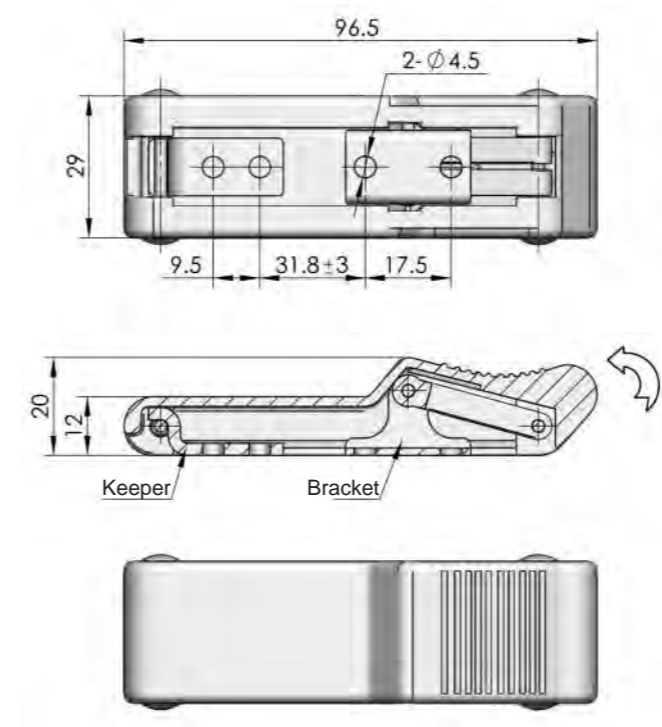
ERP DK607S4C000001



**DK607-2**  
Main material and finish: White zinc-plated stainless steel pull-tab, pin; steel cover board and baseboard



ERP DK607F3D000001



ERP DK609N00000001



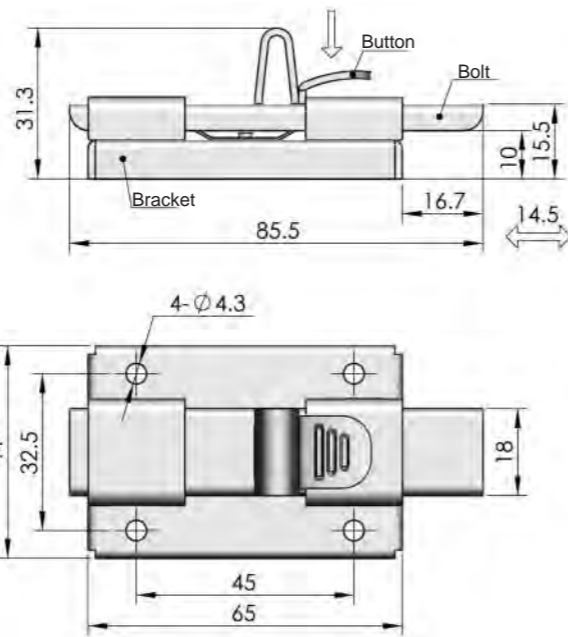
**DK609**  
Main material and finish: Black rubber handle, stainless steel keeper and bracket



**DK610**



**Main material and finish:** Electrolytic stainless steel

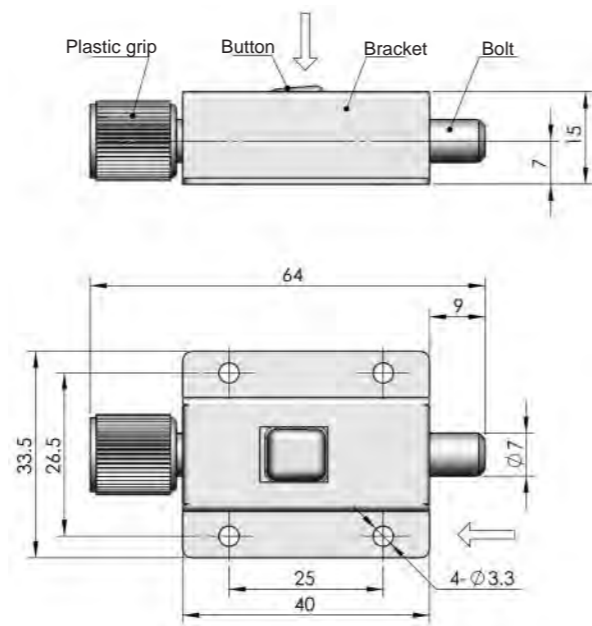


ERP DK610S0000001

**DK611**



**Main material and finish:** Stainless steel bracket and button, chrome plated steel bolt with plastic grip

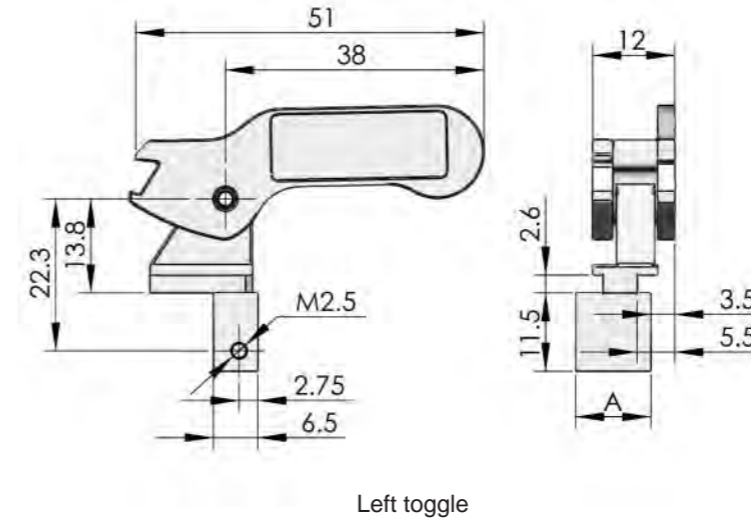


ERP DK611S0000001

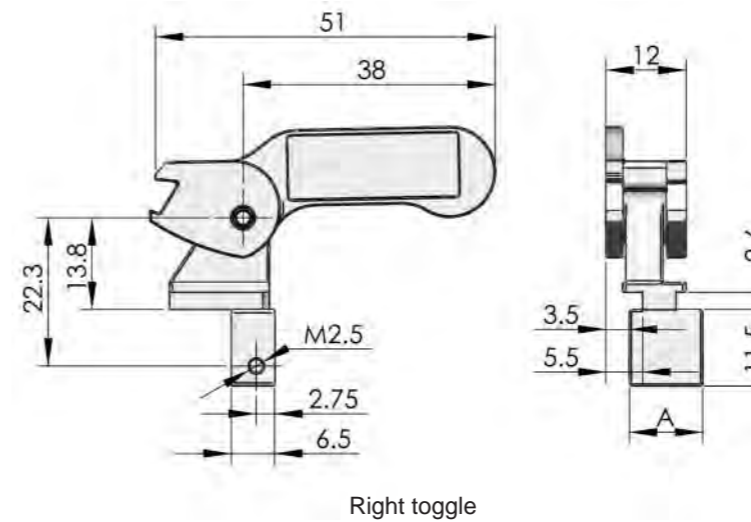
**DK612**



**Main material and finish:** Nickle plated ZDC



Left toggle



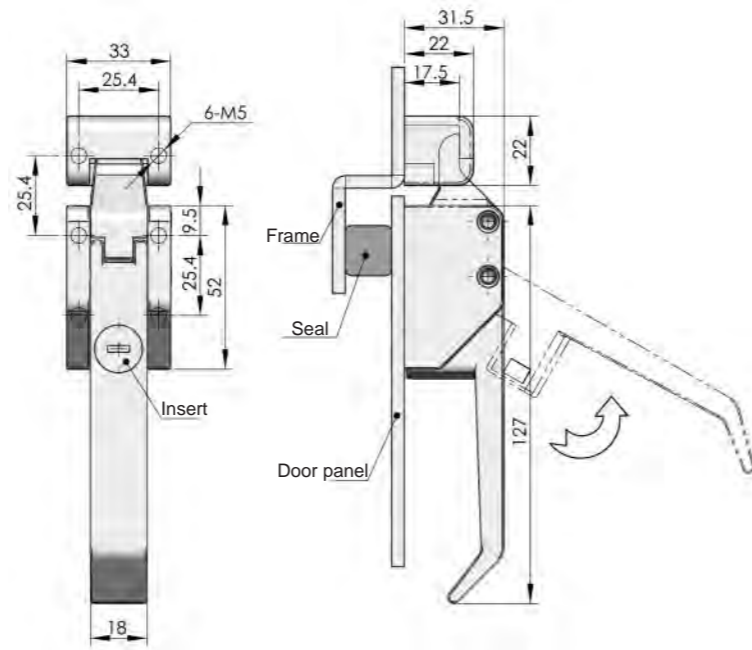
Right toggle

Specification	Left toggle		Right toggle	
	Model	ERP	Model	ERP
A=11	DK612-2	DK612Z3G000002	DK612-1	DK612Z3G000001
A=13.5	DK612-4	DK612Z3G000004	DK612-3	DK612Z3G000003
A=16	DK612-6	DK612Z3G000006	DK612-5	DK612Z3G000005

**DK615**



**Main material and finish:** Matte Black powder coated ZDC housing, handle and keeper, stainless steel pins  
**Remarks:** Default Key K030

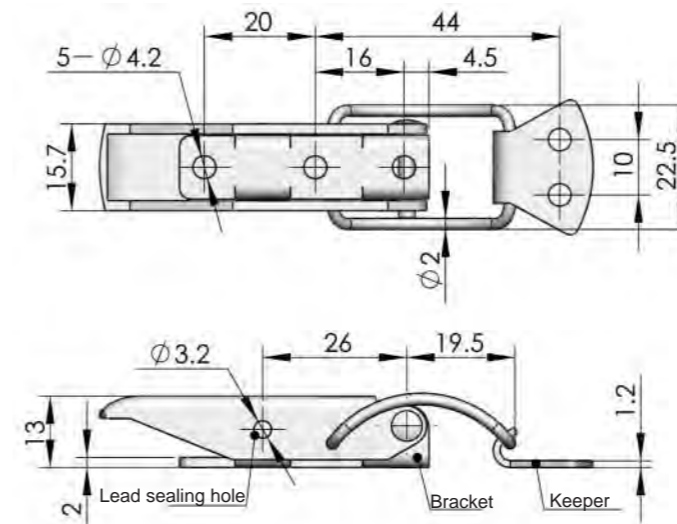


	<b>DK615-1 With insert</b>	<b>DK615-2 Without insert</b>
ERP	DK615Z1A030002	DK615Z1A000001

**DK617**



**Main material and finish:** Lapped finished stainless steel

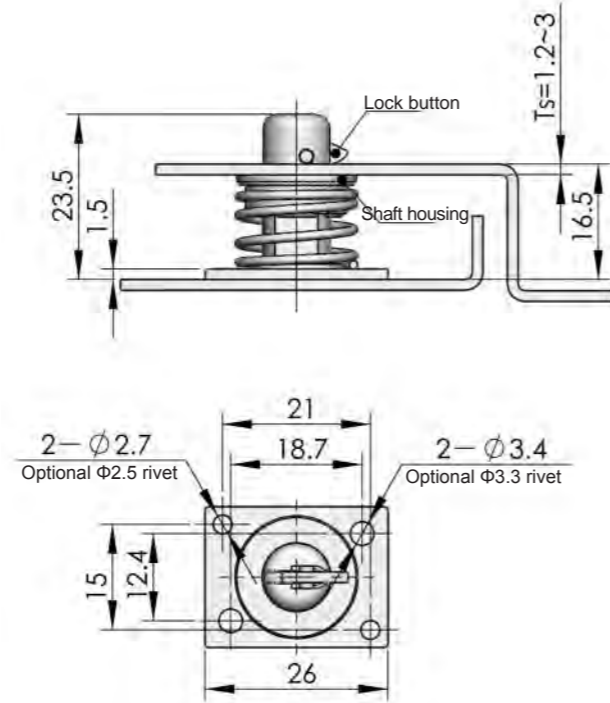


ERP	DK617S00000001
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**DK616**



**Main material and finish:** White zinc plated ZDC housing, stainless steel lock button and spring, plastic seal

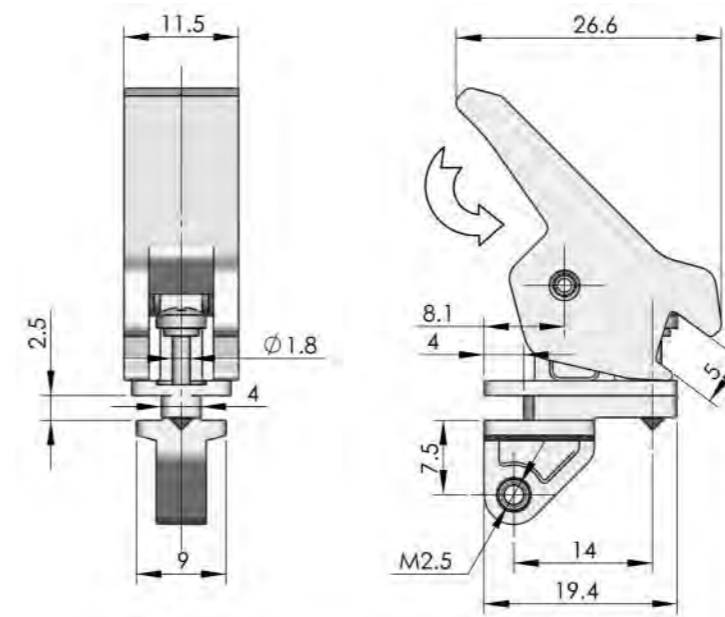


ERP	DK616Z3D000001
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**DK623**



**Main material:** PBT toggle, stainless steel screw

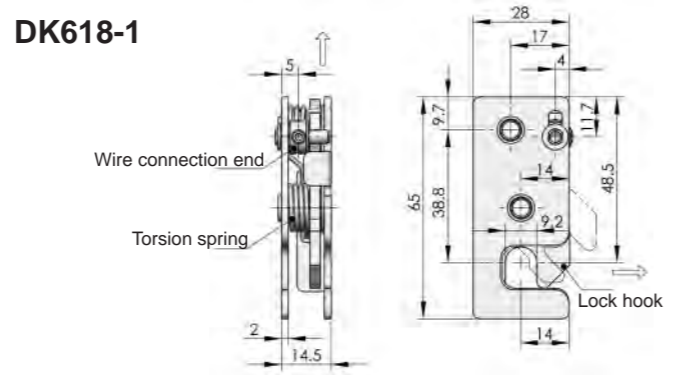


ERP	DK623N00000001
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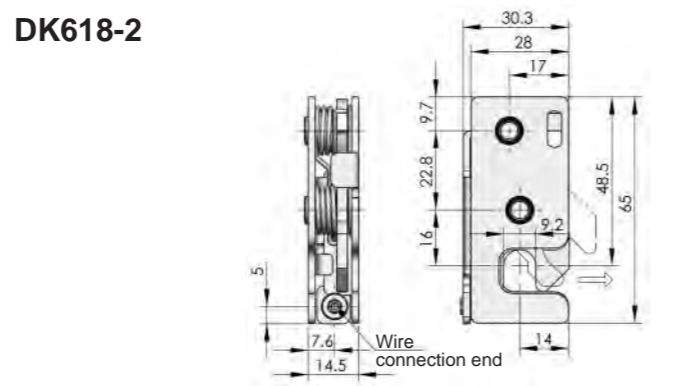
Accessories
Handle lock
Cylinder lock
Electronic lock
Swing handle
Rod control lock
Panel lock
Toggle and hook
Handles
Door stop
Hinge
Seal gasket



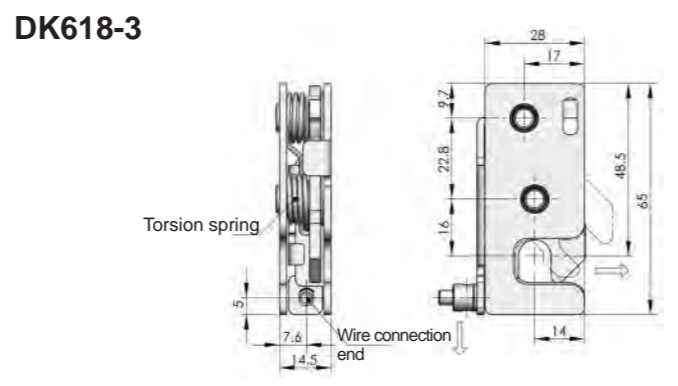
Main material and finish: Zinc plated steel



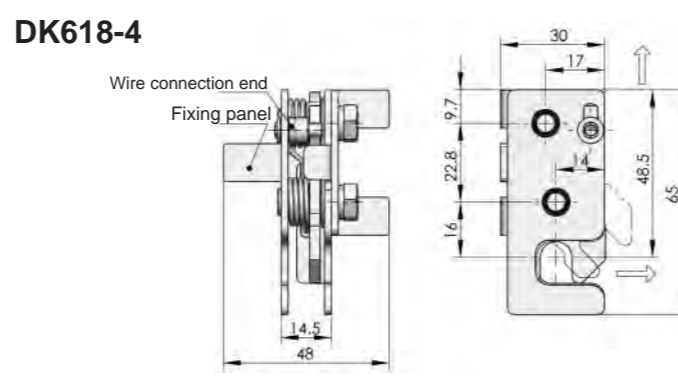
ERP DK618F3D000001



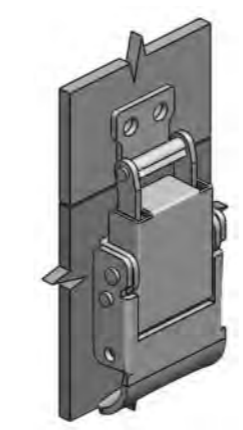
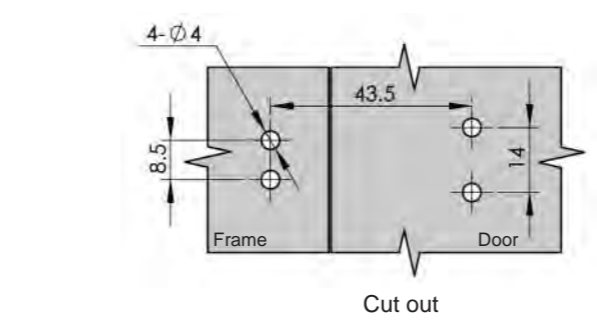
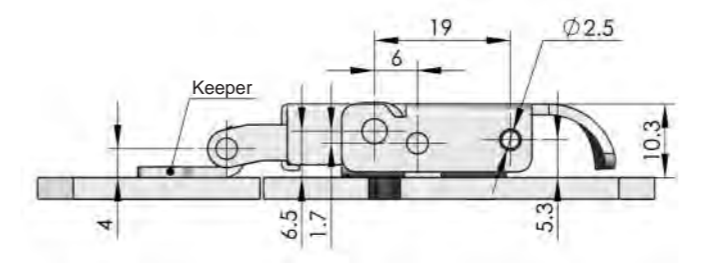
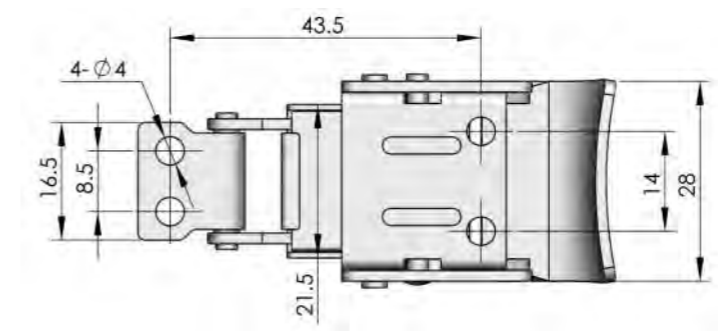
ERP DK618F3D000002



ERP DK618F3D000003



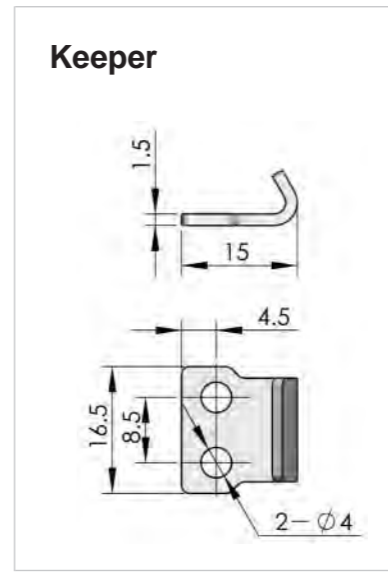
ERP DK618F3D000004



ERP DK624S9C000002



Main material and finish: Electrolytic stainless steel



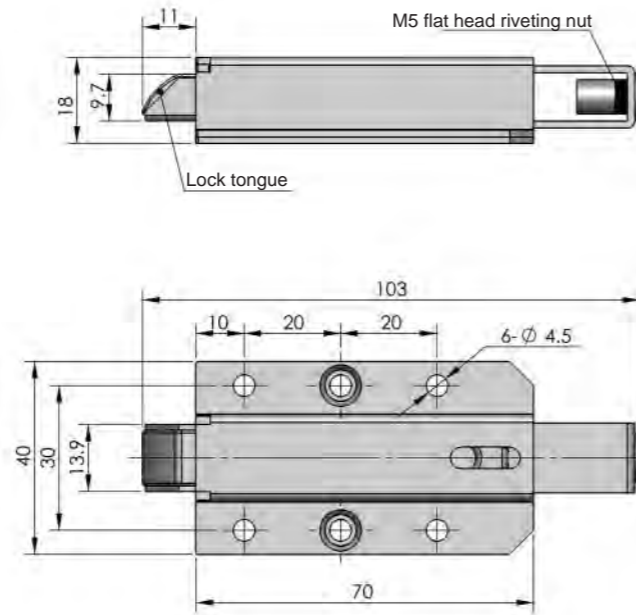
Accessories
Handle lock
Cylinder lock
Electronic lock
Swing handle
Rod control lock
Panel lock
Toggle and hook
Handles
Door stop
Hinge
Seal gasket

Accessories
Handle lock
Cylinder lock
Electronic lock
Swing handle
Rod control lock
Panel lock
Toggle and hook
Handles
Door stop
Hinge
Seal gasket



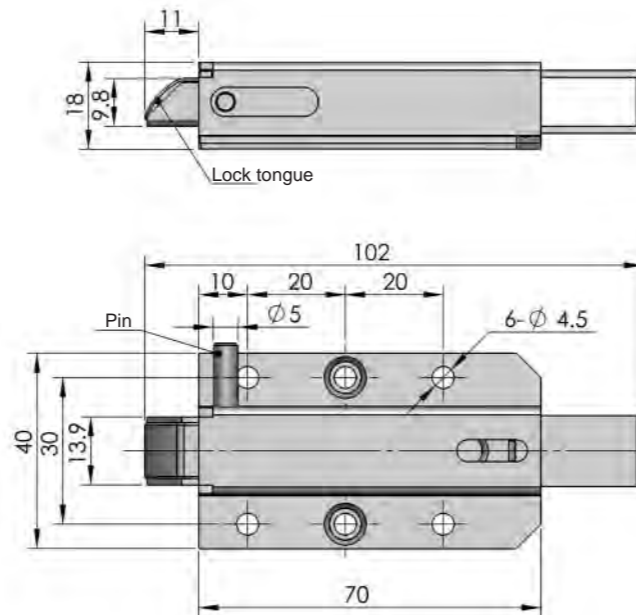
**DK633-1**  
Main material and finish: White zinc-plated steel housing, SUS304 bracket, PA cam

**DK633-1**



ERP DK633F3D000001

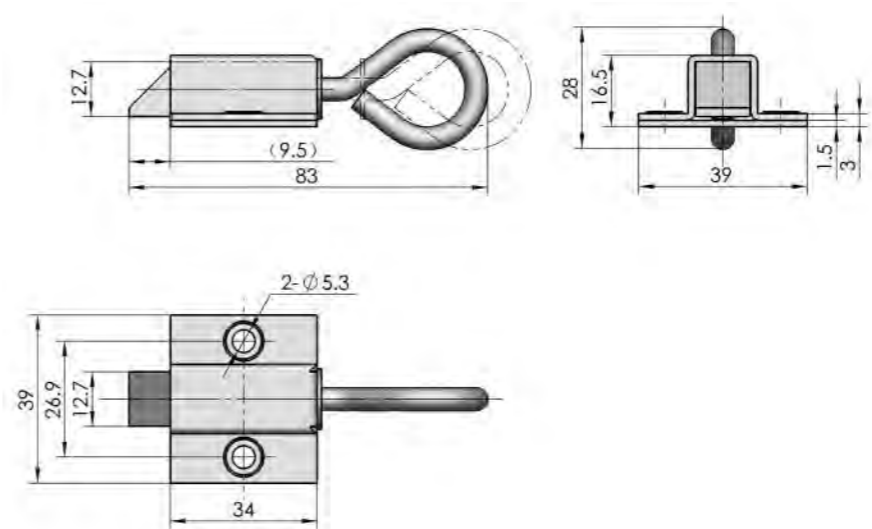
**DK633-2**



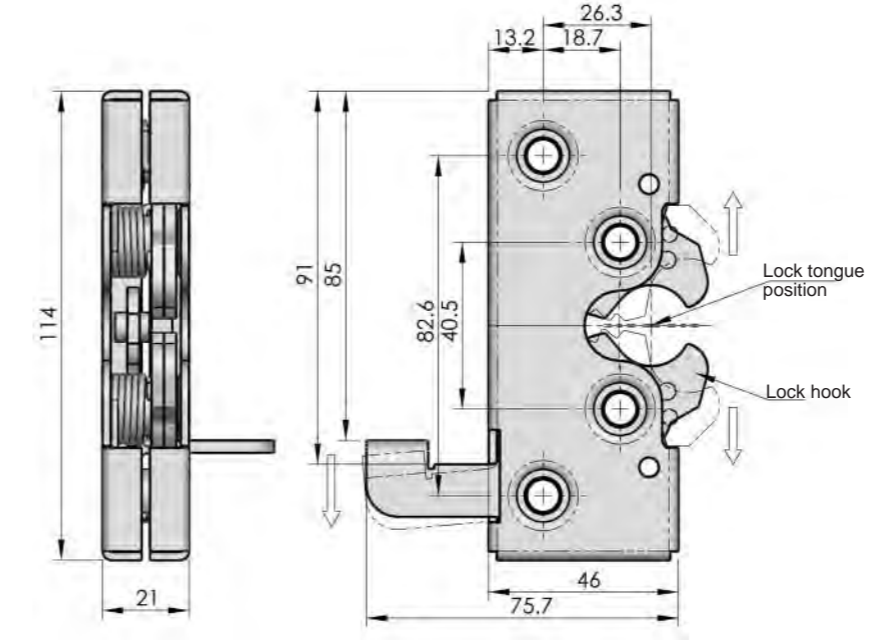
ERP DK633F3D000002



**DK634**  
Main material and finish: White zinc-plated steel body



ERP DK634F3D000001



ERP DK635F3D000001



**DK635**  
Main material and finish: White zinc plated steel

Accessories
Handle lock
Cylinder lock
Electronic lock
Swing handle
Rod control lock
Panel lock
Toggle and hook
Handles
Door stop
Hinge
Seal gasket

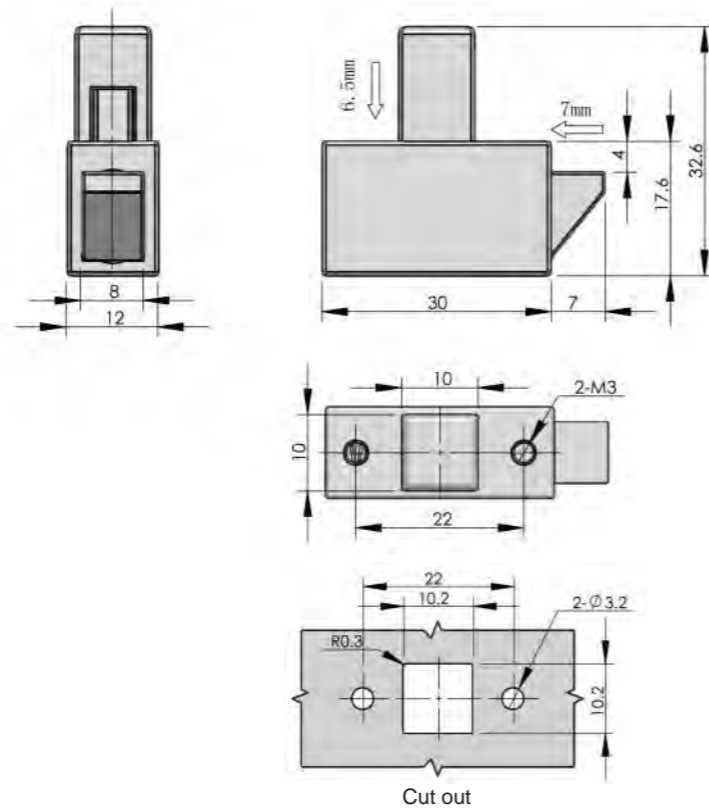
Accessories
Handle lock
Cylinder lock
Electronic lock
Swing handle
Rod control lock
Panel lock
Toggle and hook
Handles
Door stop
Hinge
Seal gasket

**DK637**



**RL IP54**

Main material and finish: Nickel plated ZDC housing, button and lock tongue

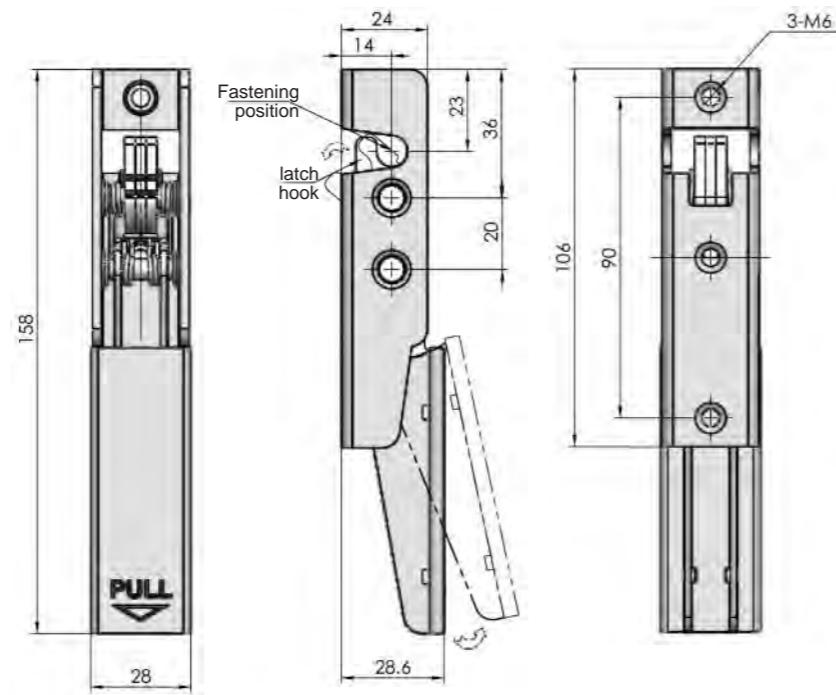


ERP DK637Z3G000001

**DK638**



Main material and finish: Wire-drawing polishing stainless steel handle, white zinc-plated steel bracket

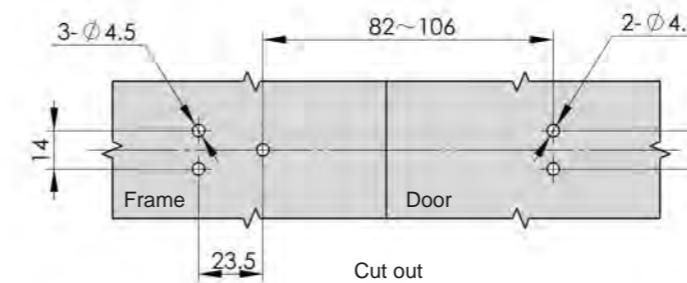
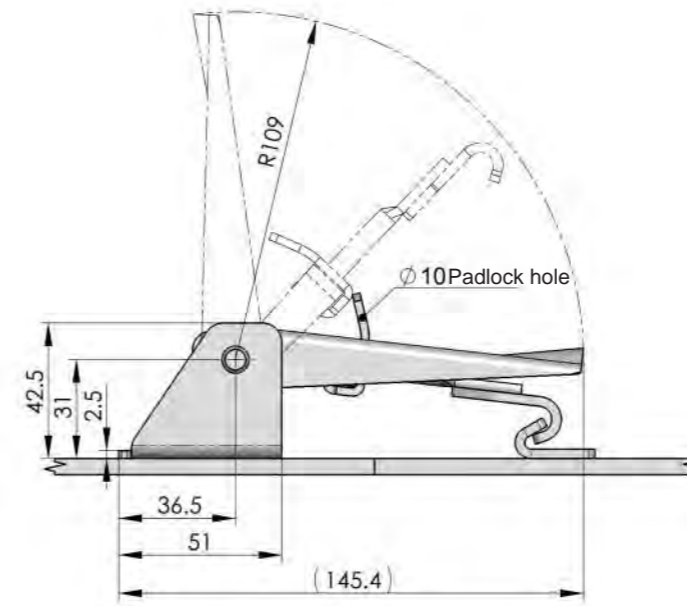


ERP DK638S4B000001

**DK639**



Main material and finish: Trivalent white-zinc steel body  
Working load for reference: 2700N

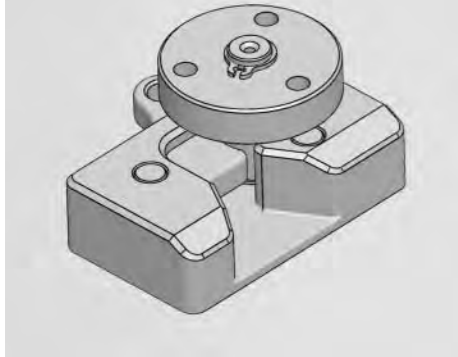


ERP DK639F3D000001

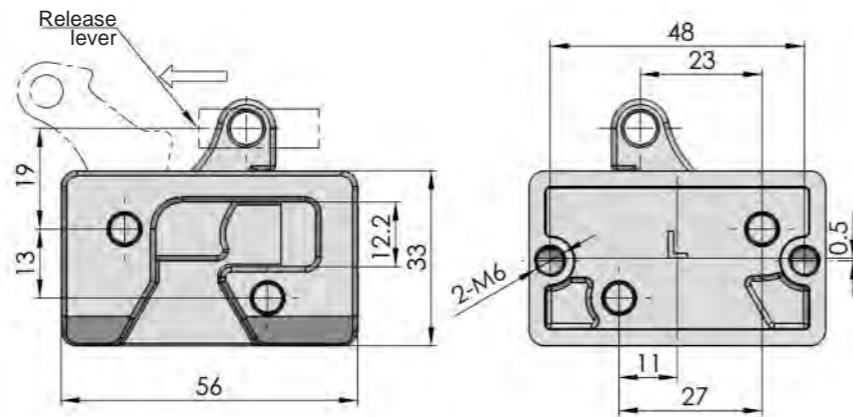
Accessories
Handle lock
Cylinder lock
Electronic lock
Swing handle
Rod control lock
Panel lock
Toggle and hook
Handles
Door stop
Hinge
Seal gasket

Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket

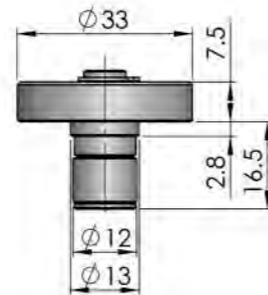
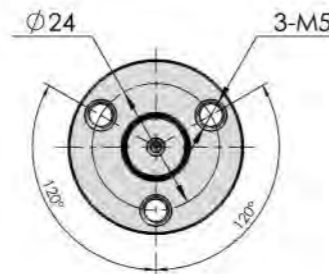
**DK641**



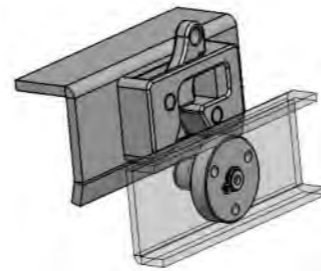
**Main material and finish:** stainless steel housing module, hard chrome plated steel insert nodule  
**Application:** RH or LH door has different toggle. It applies to car battery latch system. Release lever designed by user



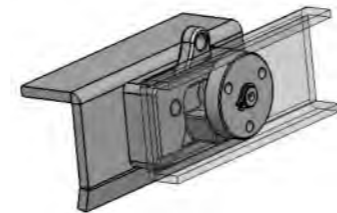
Housing module



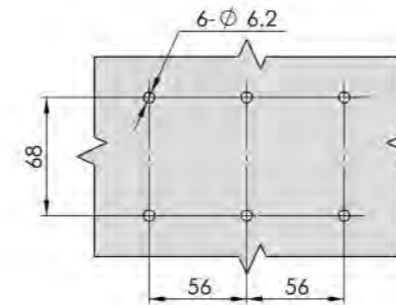
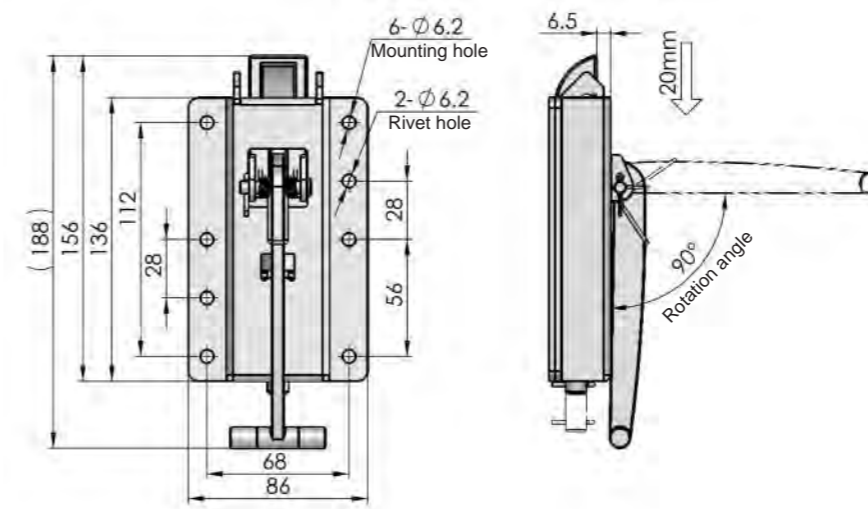
Insert nodule



Initial state

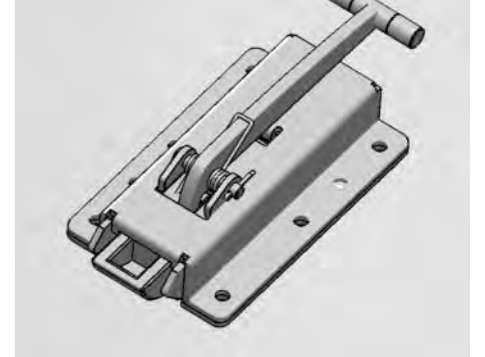


Close state



Cut out

**DK642**



**Main material and finish:** steel housing, baffle and lock tongue connector bar; cast iron handle, lock tongue, shaft and slide block  
**Application:** pull the handle to open

ERP

DK641S0000001

ERP

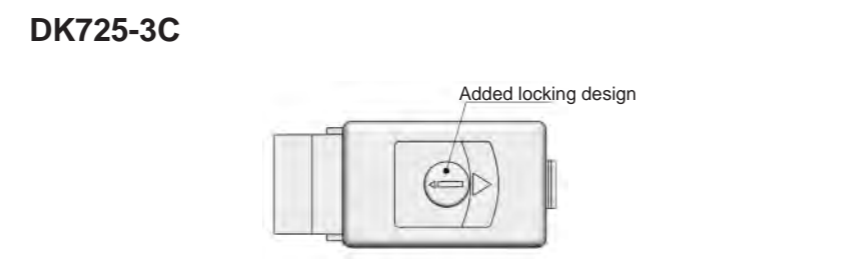
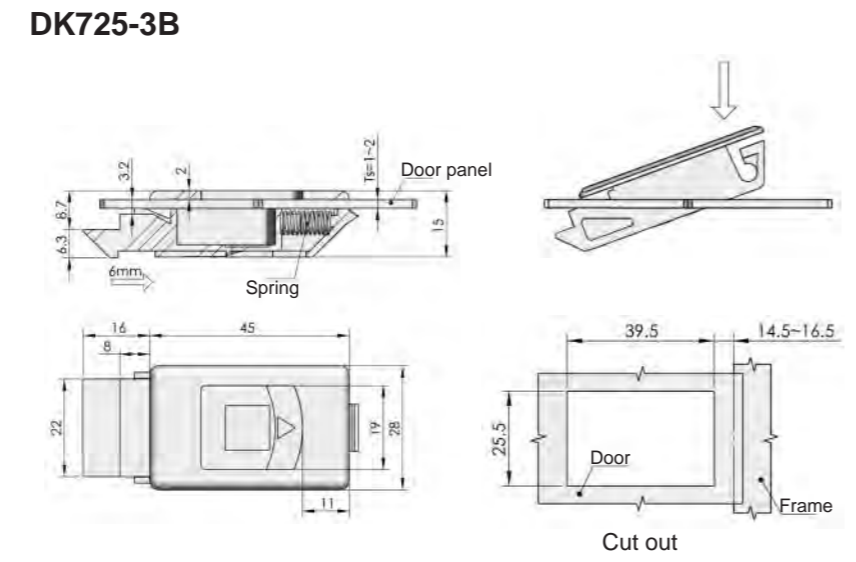
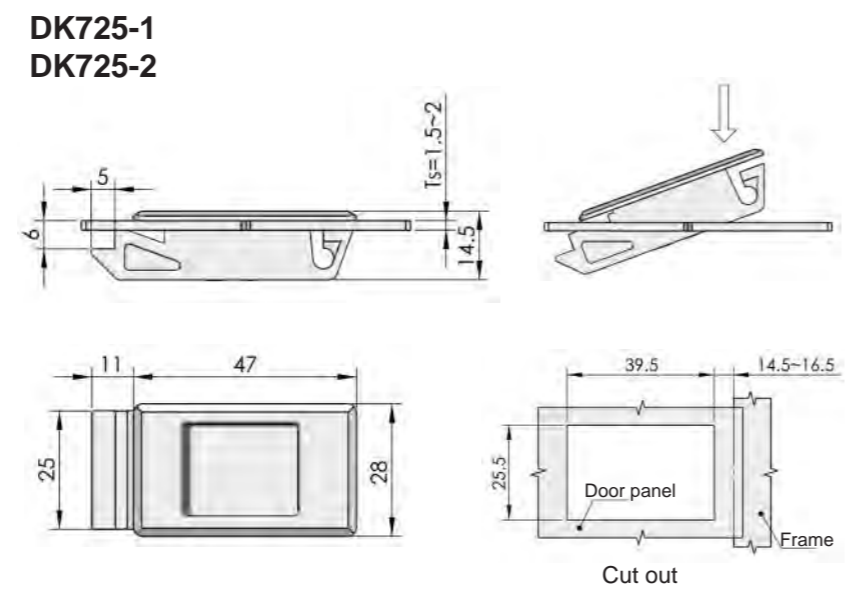
DK642S0000002

Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket

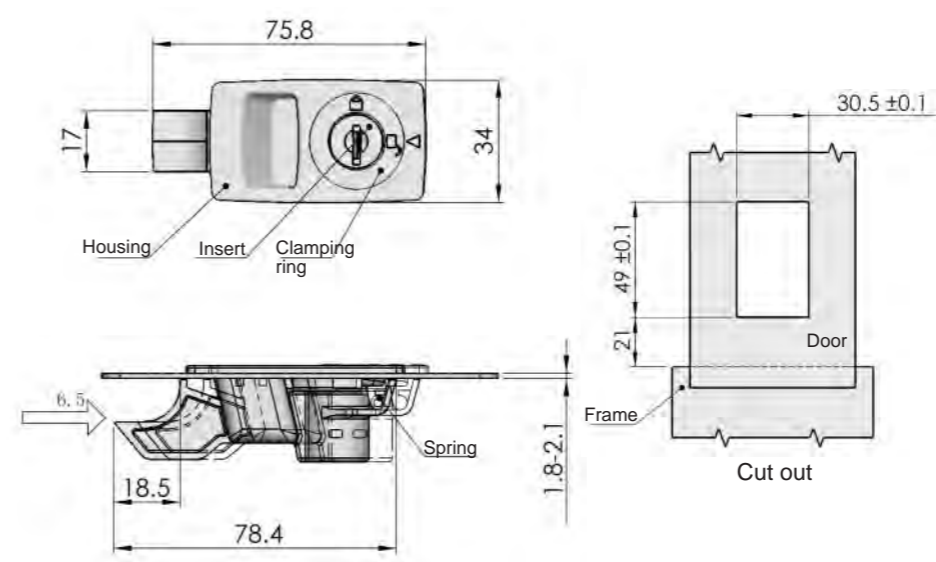
Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket



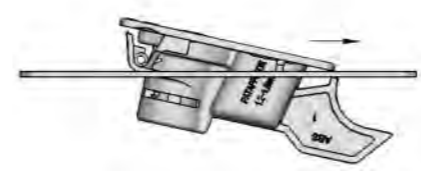
Main material: ABS toggle or PA toggle



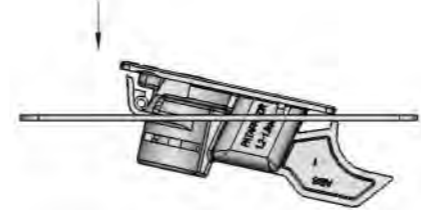
Specification	Model	ERP	
		ABS Silver	ABS Black
T=1.5	DK725-1	DK725N00000001	DK725N00000002
T=2	DK725-2	DK725N00000003	DK725N00000004
T=1~2	DK725-3B	DK725N00000010	DK725N00000006
T=1~2	DK725-3C	DK725N00000011	DK725N00000007



Insert the front of the toggle to the hole and press it



Make the door in the right position



**DK725-5**  
Main material and finish: stainless steel housing module, hard chrome plated steel insert module  
Application: RH or LH door has different toggle. It applies to car battery latch system. Release lever designed by user

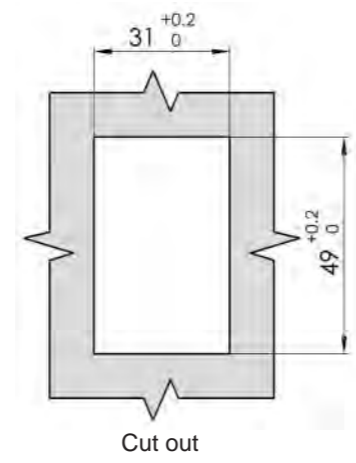
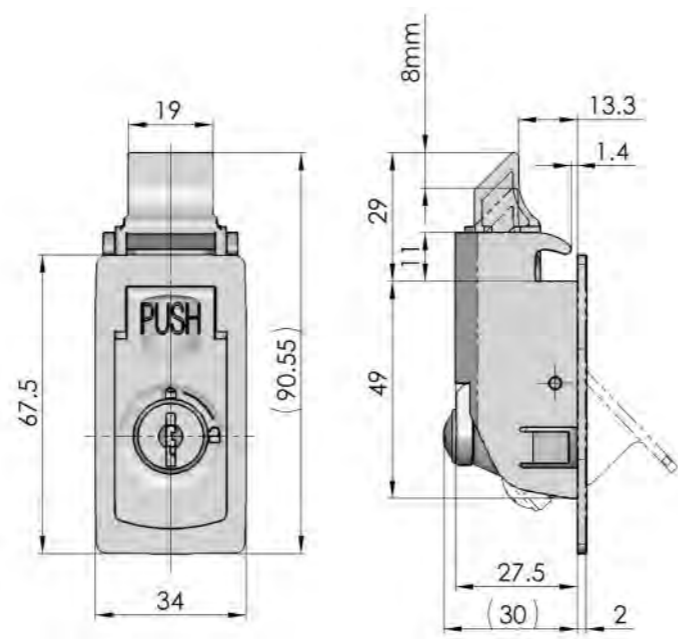
ERP	DK641S00000001
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Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket

Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket



**DK725-7**  
**Main material and finish:** black PA  
**Application:** 90° clockwise rotate the key to open  
**Remarks:** Default black K148 key



ERP DK725N00148001

## HANDLES SERIES

LS501	LS502	LS503	LS504-1	LS504-2
LS504-3	LS505	LS506	LS507	LS508
LS509	LS510	LS511	LS513	LS515
LS514-1	LS514-2	LS514-3-4-5	LS516	LS516-2A
LS518	LS519	LS520	LS521	LS522

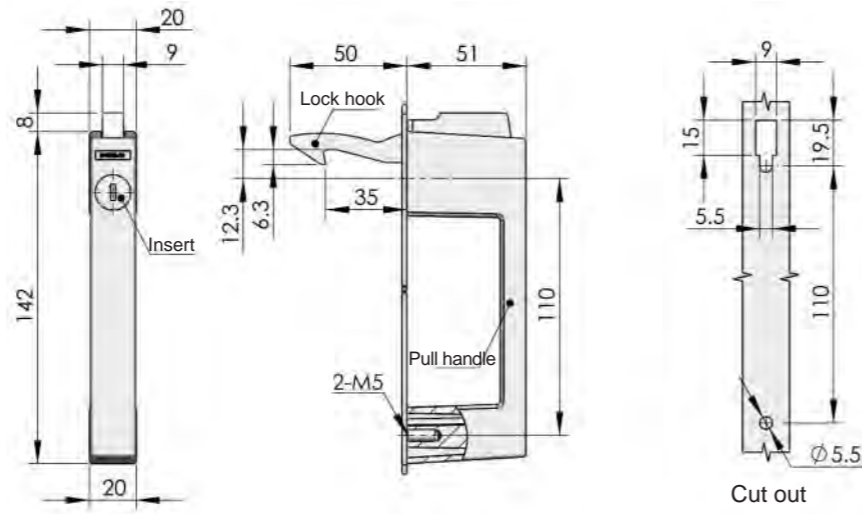


- Accessories
- Handle lock
- Cylinder lock
- Electronic lock
- Swing handle
- Rod control lock
- Panel lock
- Toggle and hook
- Handles
- Door stop
- Hinge
- Seal gasket

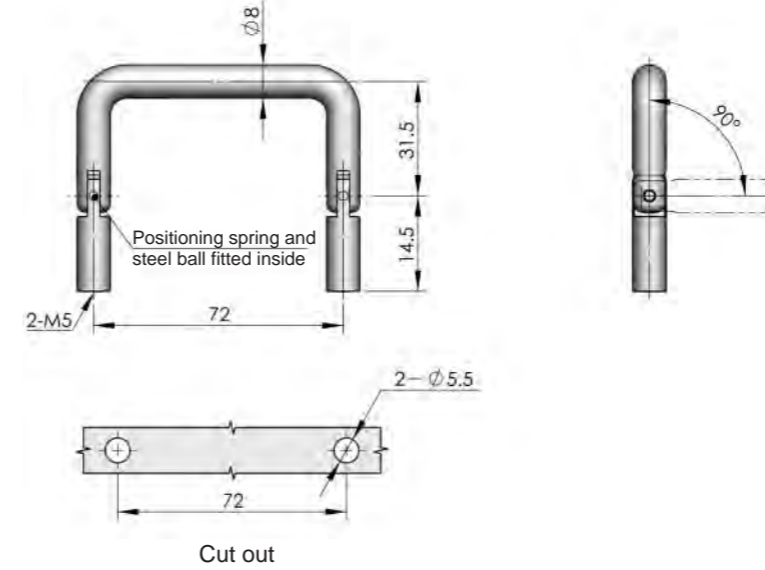
**LS501**



**Main material and finish:** Nanometer painted ZDC pull handle, lock hook and steel spring



Specification	Model	ERP
With insert	LS501-10	LS501Z2B110001
Without insert	LS501-20	LS501Z2B110002



ERP	Stainless steel	Bright chrome-plated steel
ERP	LS503S4A072001	LS503F3A072001

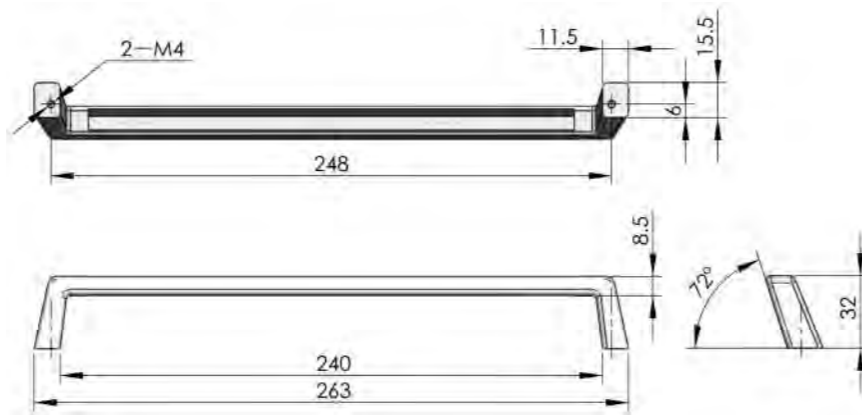
**LS503**



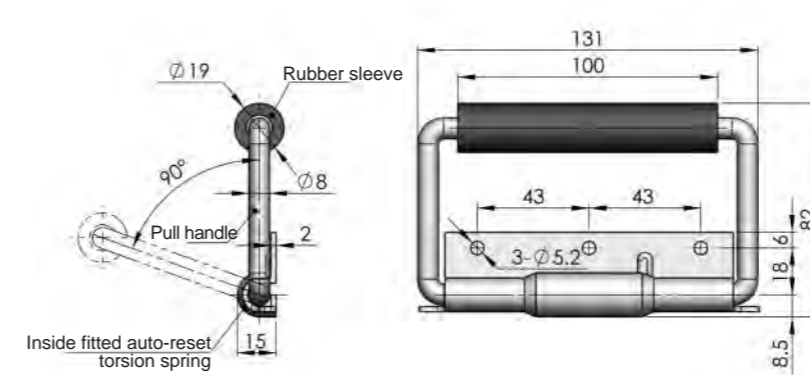
**LS502**



**Main material and finish:** Nanometer painted ZDC pull handle



ERP	Model
ERP	LS502Z2B248001



Specification	Model	ERP
Stainless steel	LS504-1B	LS504S00000001
Steel (Bright chrome)	LS504-1	LS504F3A000001

**LS504-1**

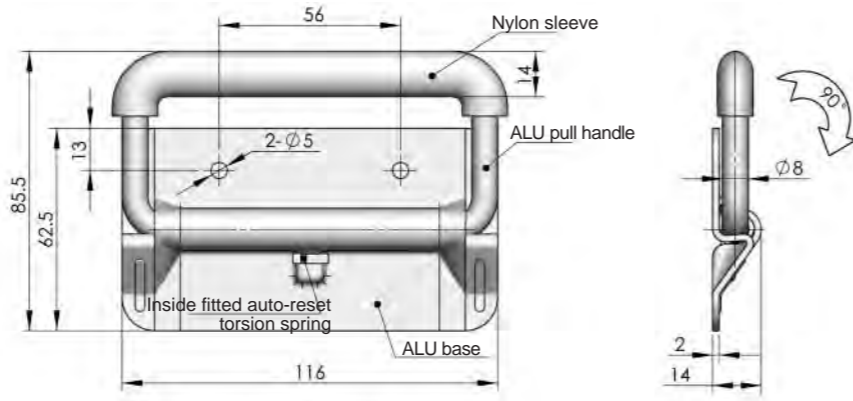


- Accessories
- Handle lock
- Cylinder lock
- Electronic lock
- Swing handle
- Rod control lock
- Panel lock
- Toggle and hook
- Handles
- Door stop
- Hinge
- Seal gasket

**LS504-2**



**Main material and finish:** Oxidation aluminum alloy base and pull handle, rubber sleeve



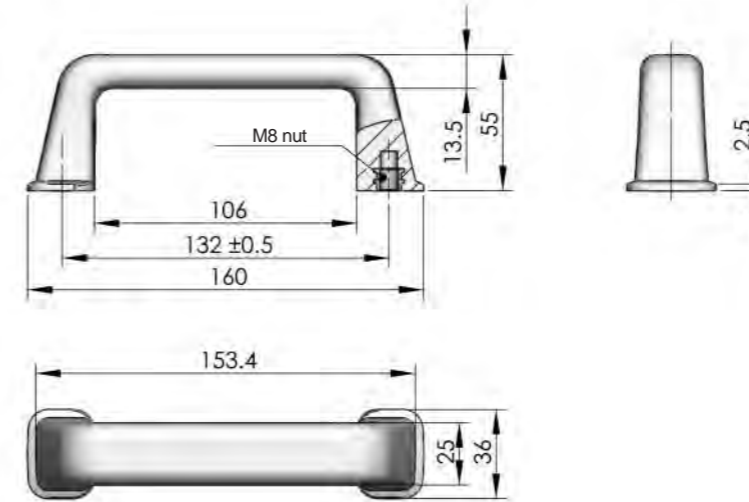
ERP

LS504A9A000001

**LS505**



**Main material:** Black PP



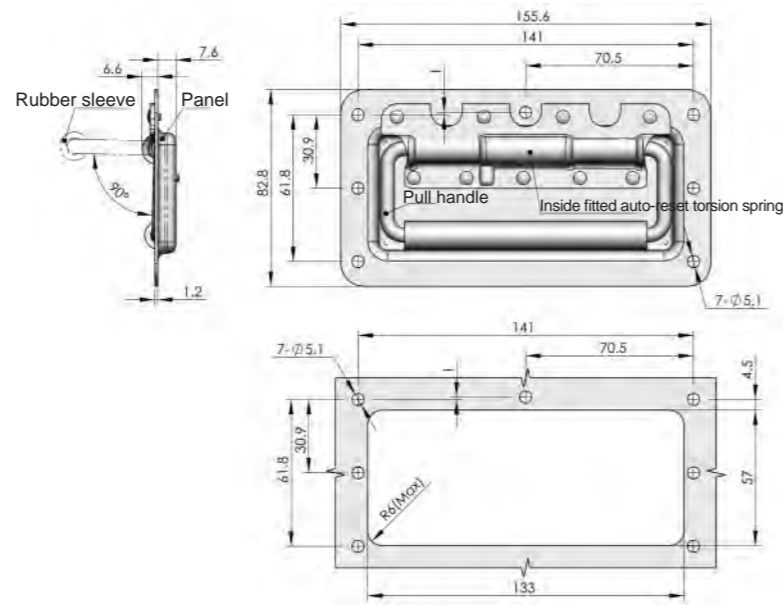
ERP

LS505N00132001

**LS504-3**

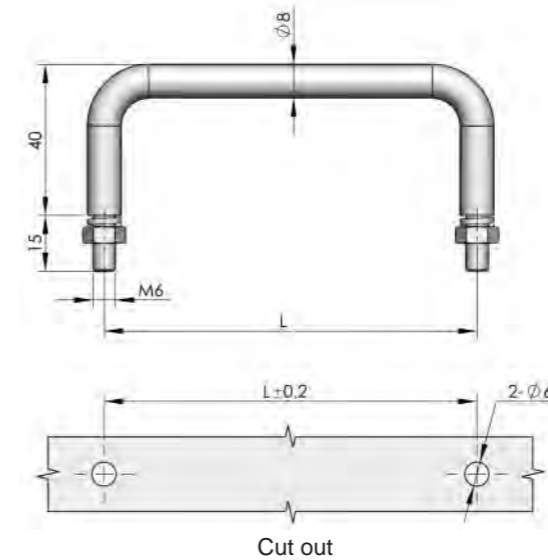


**Main material and finish:** Silk black powder coated steel base and pull handle, rubber sleeve



ERP

LS504F1A000001



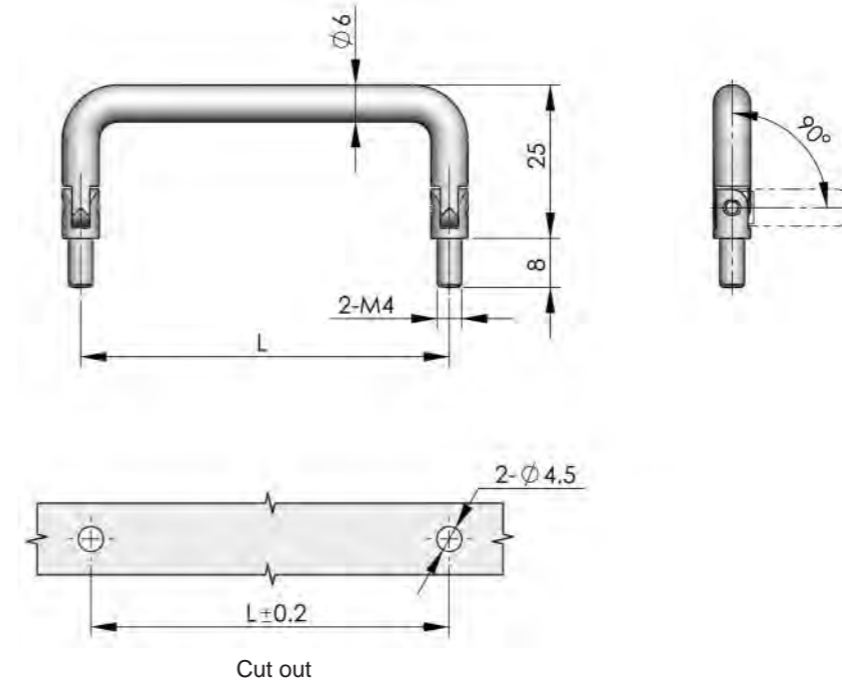
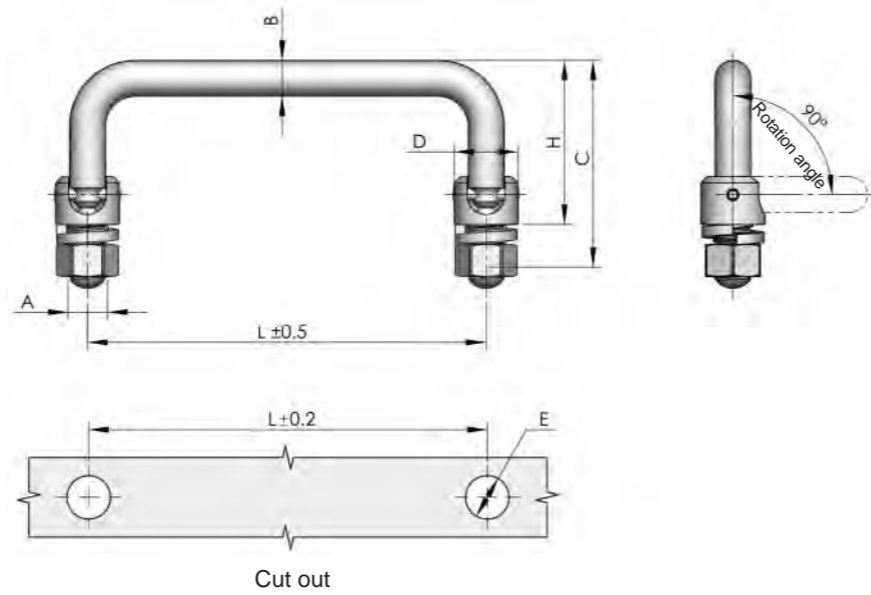
Specification	Bright chrome-plated steel		Stainless steel	
	Model	ERP	Model	ERP
L=68	LS507-68	LS507F3A068001	LS507-S68	LS507S4A068001
L=75	LS507-75	LS507F3A075001	LS507-S75	LS507S4A075001
L=100	LS507-100	LS507F3A075001	LS507-S100	LS507S4A100001
L=150	LS507-150	LS507F3A150001	LS507-S150	LS507S4A150001

**LS507**



**Main material and finish:** Silk black powder coated steel

LS506



LS508



Main material: Stainless steel or steel

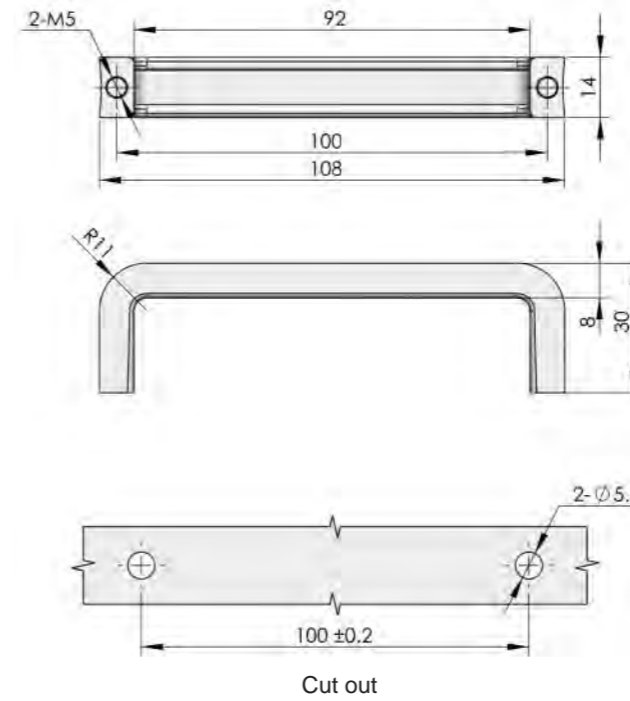
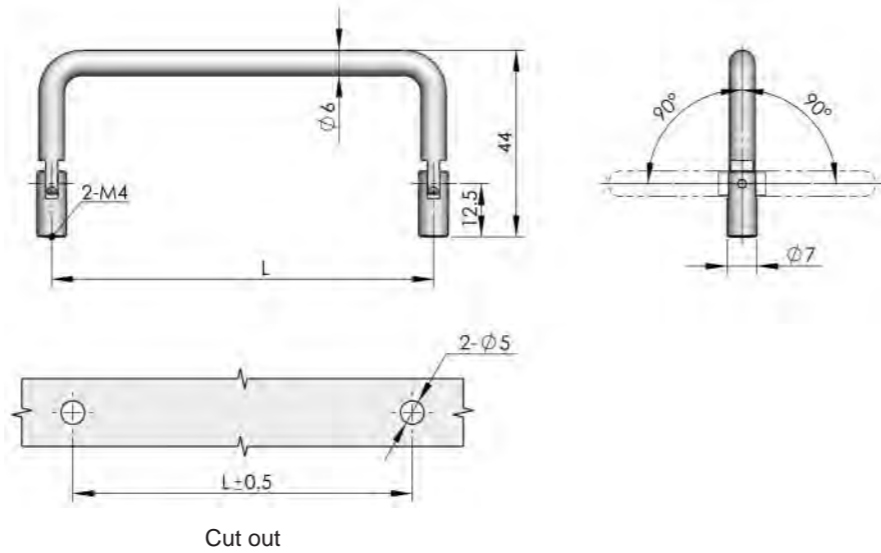
Specification	A=M10 B=Ø9 C=57.5 D=Ø16 H=41.5 E=Ø11 Ts=1~2				A=M6 B=Ø6 C=45 D=Ø11 H=32 E=Ø7 Ts=1~5	
	Bright chrome-plated steel		Stainless steel		Bright chrome-plated steel	
	Model	ERP	Model	ERP	Model	ERP
L=55	LS506-55	LS506F3A550002	LS506-S55	LS506F4A550002	LS506-2-55	LS506F3A055001
L=60	LS506-60	LS506F3A600002	LS506-S60	LS506F4A600002	LS506-2-60	LS506F3A060001
L=70	LS506-70	LS506F3A700002	LS506-S70	LS506F4A700002	LS506-2-70	LS506F3A070001
L=84	LS506-84	LS506F3A840002	LS506-S84	LS506F4A840002	LS506-2-84	LS506F3A084001
L=90	LS506-90	LS506F3A090001	LS506-S90	LS506S4A090001	LS506-2-90	LS506F3A090002
L=100	LS506-100	LS506F3A100001	LS506-S100	LS506S4A100001	LS506-2-100	LS506F3A100008
L=102	LS506-102	LS506F3A102002	LS506-S102	LS506S4A102002	LS506-2-102	LS506F3A102001
L=119	LS506-119	LS506F3A119001	LS506-S119	LS506S4A119001	LS506-2-119	LS506F3A119004
L=122	LS506-122	LS506F3A122002	LS506-S122	LS506S4A122002	LS506-2-122	LS506F3A122001
L=135	LS506-135	LS506F3A135001	LS506-S135	LS506S4A135001	LS506-2-135	LS506F3A135005
L=149	LS506-149	LS506F3A149001	LS506-S149	LS506S4A149001	LS506-2-149	LS506F3A149002
L=155	LS506-155	LS506F3A155001	LS506-S155	LS506S4A155001	LS506-2-155	LS506F3A155002
L=160	LS506-160	LS506F3A160001	LS506-S160	LS506S4A160001	LS506-2-160	LS506F3A160002

Specification	Bright chrome-plated steel		Stainless steel	
	Model	ERP	Model	ERP
L=55	LS508-55	LS508F3A055001	LS508-S55	LS508S4A055001
L=60	LS508-60	LS508F3A060001	LS508-S60	LS508S4A060001
L=70	LS508-70	LS508F3A070001	LS508-S70	LS508S4A070001
L=74	LS508-74	LS508F3A074001	LS508-S74	LS508S4A074001
L=84	LS508-84	LS508F3A084001	LS508-S84	LS508S4A084001
L=90	LS508-90	LS508F3A090001	LS508-S90	LS508S4A090001
L=102	LS508-102	LS508F3A102001	LS508-S102	LS508S4A102001
L=122	LS508-122	LS508F3A122001	LS508-S122	LS508S4A122001
L=138	LS508-138	LS508F3A138001	LS508-S138	LS508S4A138001

LS509



**Main material and finish:** Polished or bright chrome-plated stainless steel or steel



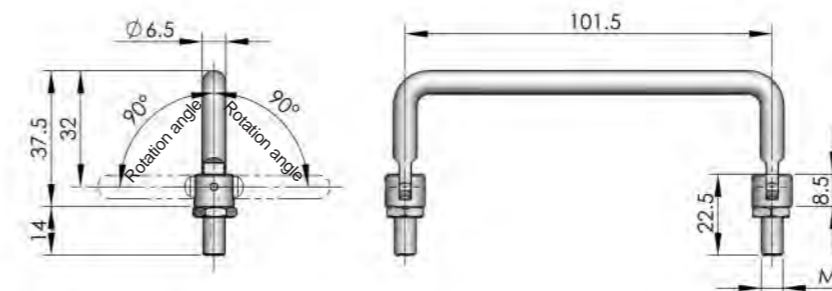
	Bright chrome-plated steel	Nanometer painted
ERP	LS510Z3A100001	LS510Z2B100001

LS510



**Main material:** ZDC

Specification	Bright chrome-plated steel		Stainless steel	
	Model	ERP	Model	ERP
L=55	LS509-55	LS509F3A055001	LS509-S55	LS509S4A055001
L=60	LS509-60	LS509F3A060001	LS509-S60	LS509S4A060001
L=70	LS509-70	LS509F3A070001	LS509-S70	LS509S4A070001
L=74	LS509-74	LS509F3A074001	LS509-S74	LS509S4A074001
L=84	LS509-84	LS509F3A084001	LS509-S84	LS509S4A084001
L=90	LS509-90	LS509F3A090001	LS509-S90	LS509S4A090001
L=102	LS509-102	LS509F3A102001	LS509-S102	LS509S4A102001
L=122	LS509-122	LS509F3A122001	LS509-S122	LS509S4A122001
L=138	LS509-138	LS509F3A138001	LS509-S138	LS509S4A138001



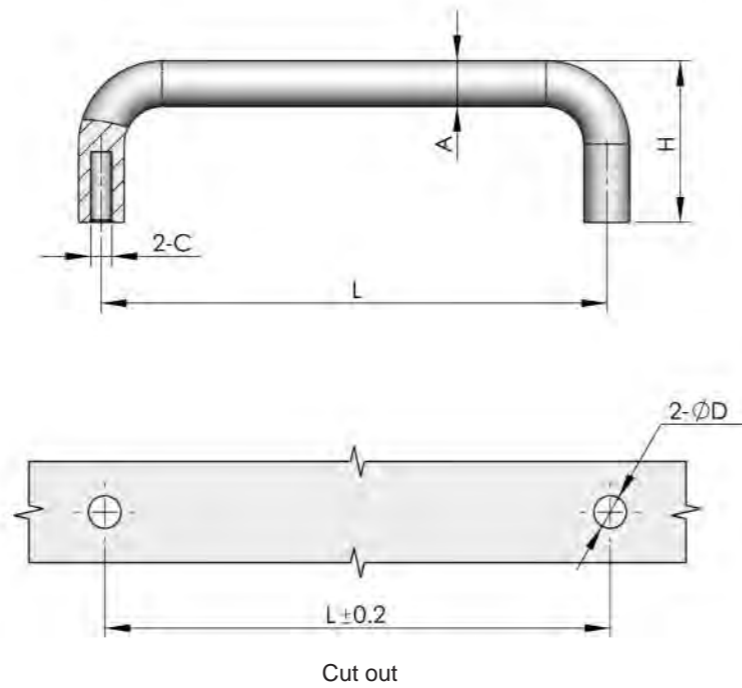
ERP	LS515F1A102001
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LS515



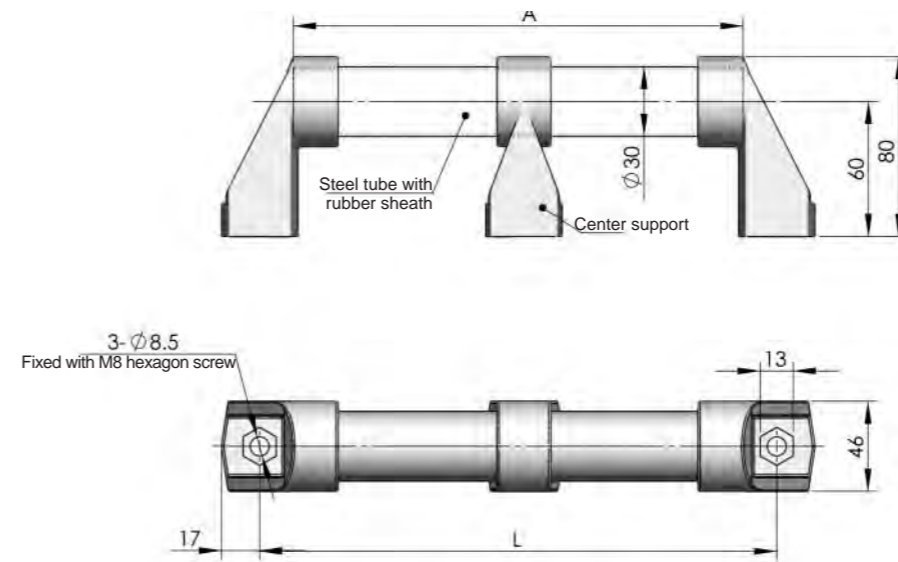
**Main material and finish:** Black powder coated steel

LS511



Bright chrome-plated steel		Stainless steel (mirror polished)		Bright chrome-plated ZDC		Specification				
Model	ERP	Model	ERP	Model	ERP	L	d	H	d <sub>1</sub>	D
LS511-B55	LS511F3A055001	LS511-BS55	LS511S4A055001			55	6	26	M4	Ø4.5
LS511-B60	LS511F3A060001	LS511-BS60	LS511S4A060001			60	6	26	M4	Ø4.5
LS511-B70	LS511F3A070001	LS511-BS70	LS511S4A070001			70	6	32	M4	Ø4.5
LS511-B82	LS511F3A082001	LS511-BS82	LS511S4A082001			82	6	26	M4	Ø4.5
LS511-B90	LS511F3A090001	LS511-BS90	LS511S4A090001			90	6	32	M4	Ø4.5
LS511-B102	LS511F3A102001	LS511-BS102	LS511S4A102001			102	6	32	M4	Ø4.5
LS511-B122	LS511F3A122001	LS511-BS122	LS511S4A122001			122	6	32	M4	Ø4.5
LS511-B138	LS511F3A138001	LS511-BS138	LS511S4A138001			138	6	32	M4	Ø4.5
LS511-A75	LS511F3A075001	LS511-AS75	LS511S4A075001			75	8	40	M5	Ø6
LS511-A100	LS511F3A100001	LS511-AS100	LS511S4A100001			100	8	32	M5	Ø6
LS511-A150	LS511F3A150001	LS511-AS150	LS511S4A150001			150	8	40	M5	Ø6
LS511-90	LS511F3A090002	LS511-S90	LS511S4A090002			90	9	32	M5	Ø6
LS511-100	LS511F3A100002	LS511-S100	LS511S4A100002			100	9	32	M5	Ø6
LS511-119	LS511F3A119001	LS511-S119	LS511S4A119001			119	9	40	M5	Ø6
LS511-135	LS511F3A135001	LS511-S135	LS511S4A135001			135	9	32	M5	Ø6
LS511-149	LS511F3A149001	LS511-S149	LS511S4A149001			149	9	40	M5	Ø6
LS511-155	LS511F3A155001	LS511-S155	LS511S4A155001			155	9	32	M5	Ø6
LS511-160	LS511F3A160001	LS511-S160	LS511S4A160001			160	9	40	M5	Ø6
				LS511-Z101	LS511Z3A101001	101	9	29	M5	Ø6
				LS511-Z120	LS511Z3A120001	120	10	37	M6	Ø7
				LS511-Z180	LS511Z3A180001	180	12	45	M5	Ø7

LS513



**Main material and finish:** Rubber sheath, steel tube, black PA end pieces and center support

Specification		Model	ERP
L	A		
300	266	LS513-300	LS513N00300001
400	366	LS513-400	LS513N00400002
500	466	LS513-500	LS513N00500001
600	566	LS513-600	LS513N00600001
700	666	LS513-700	LS513N00700002
800	766	LS513-800	LS513N00800001
900	866	LS513-900	LS513N00900002
1000	966	LS513-1000	LS513N00000A02
2000	1966	LS513-2000	LS513N00000B01

Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket

**LS514-1**



**Main material and finish:** Bright chrome plated ZDC

**LS514-2**



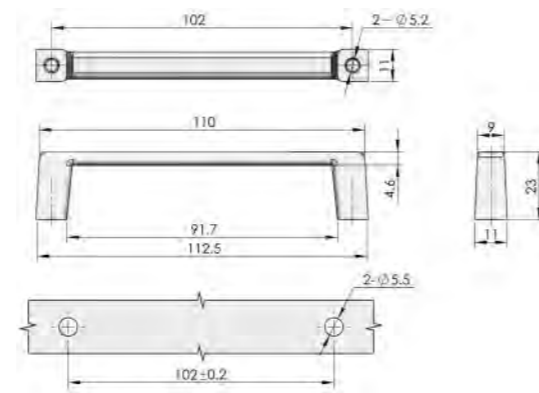
**Main material and finish:** Nanometer painted ZDC

**LS514-3-4-5**



**Main material and finish:** Nanometer painted aluminium alloy

**LS514-1**

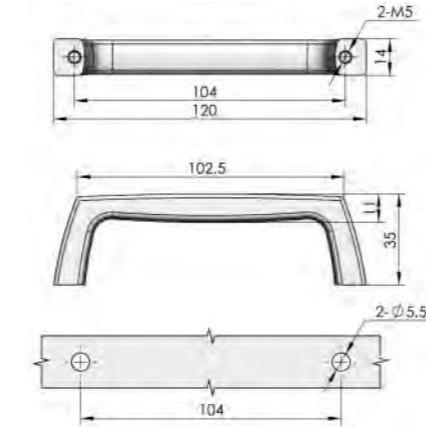


Cut out

ERP

LS514Z3A102001

**LS514-2**

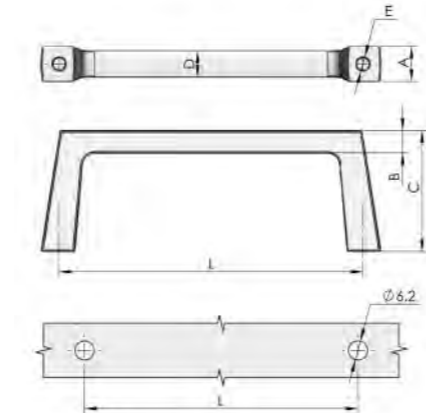


Cut out

ERP

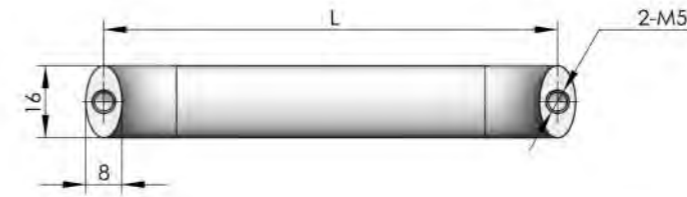
LS514Z2B104001

**LS514-3-4-5**

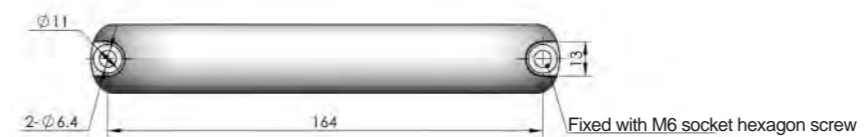
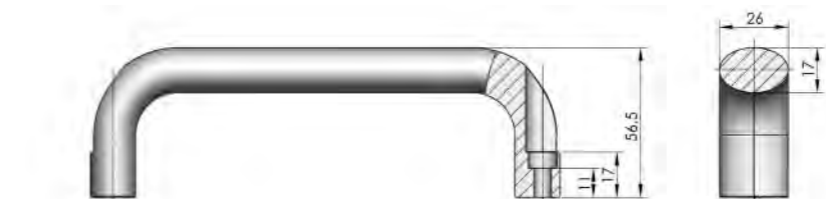


Cut out

Model	ERP	Specification					
		A	B	C	D	L	E
LS514-3	LS514A2B100001	10.5	7	32	8	100	2-M6
LS514-4	LS514A2B125001	14.5	9.5	50	11	125	2-M6
LS514-5	LS514A2B130001	18.5	9.5	40	16	130	2-M6



Specification	Model	ERP
L		
75	LS516-75	LS516A1A075001
100	LS516-100	LS516A1A100001
125	LS516-125	LS516A1A125001
150	LS516-150	LS516A1A150001
175	LS516-175	LS516A1A175001



ERP

LS516A1A164001

**LS516**



**Main material and finish:** Silk black powder coated aluminum alloy

**LS516-2A**



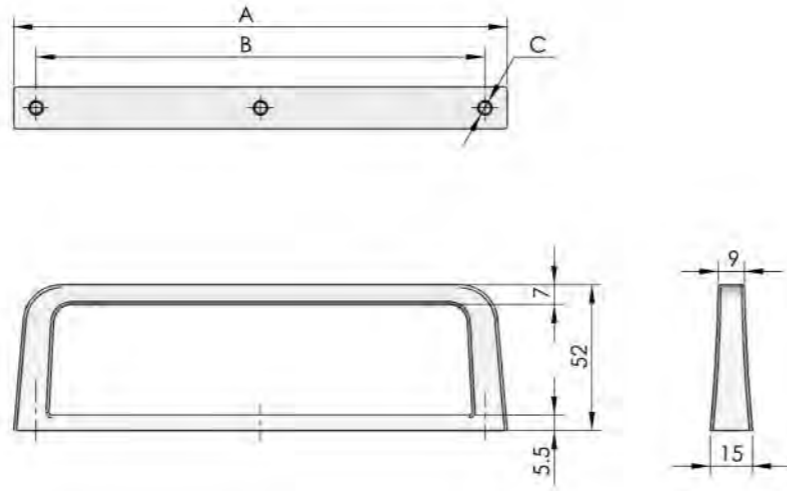
**Main material and finish:** Silk black powder coated aluminum alloy

Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Swing handle  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket

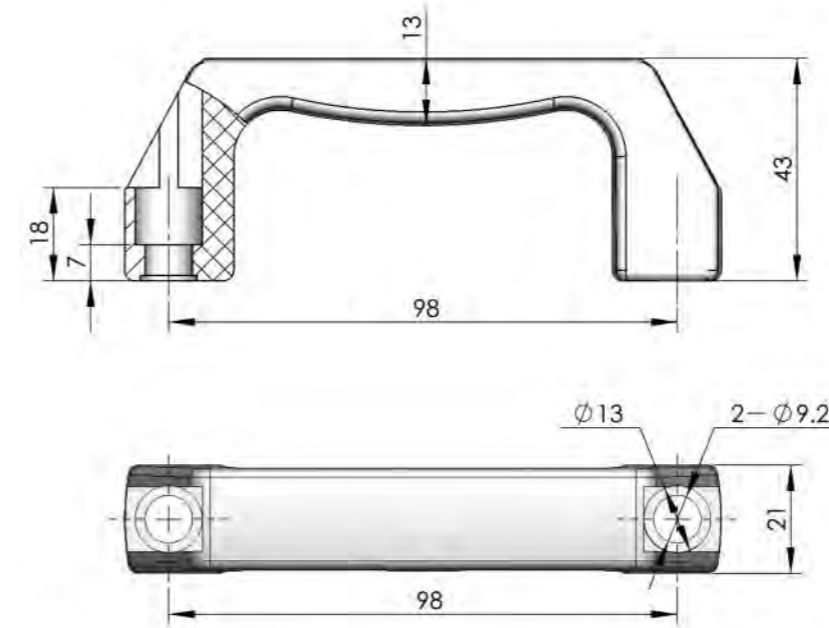
**LS518**



**Main material and finish:** Nanometer painted ZDC handle



Model	ERP	Specification		
		A	B	C
LS518-1U	LS518Z2B030001	42.6	30	2 - M4
LS518-2U	LS518Z2B071001	86.7	71	2 - M5
LS518-3U	LS518Z2B116001	131.2	115.5	2 - M5
LS518-4U	LS518Z2B160001	176	160	3 - M5



ERP LS520N00098001

**LS520**

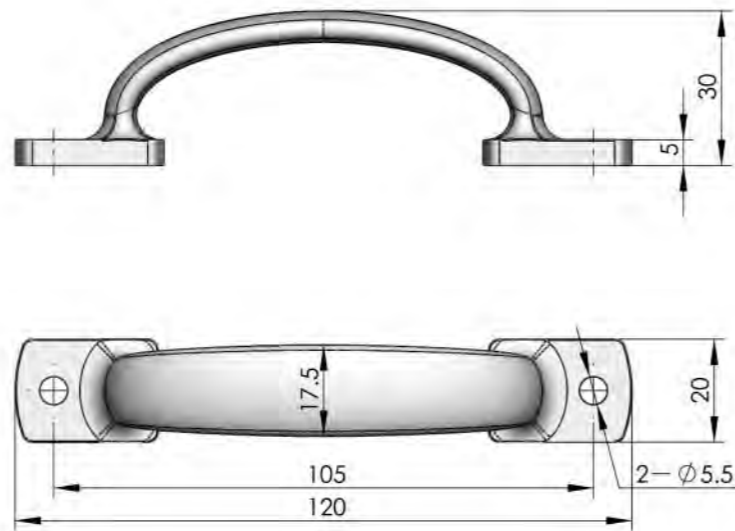


**Main material and finish:** Black ABS

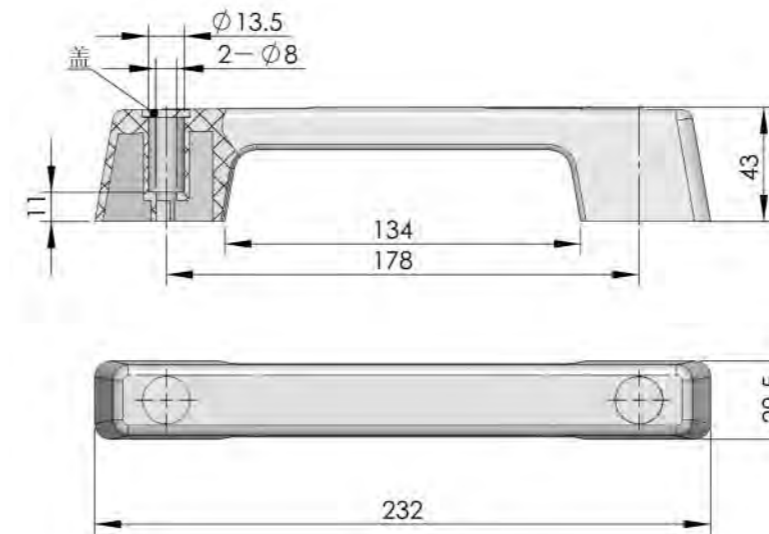
**LS519**



**Main material and finish:** Mirror polishing stainless steel handle



ERP LS519S4A105001



ERP LS521N00178001

**LS521**



**Main material and finish:** Black ABS

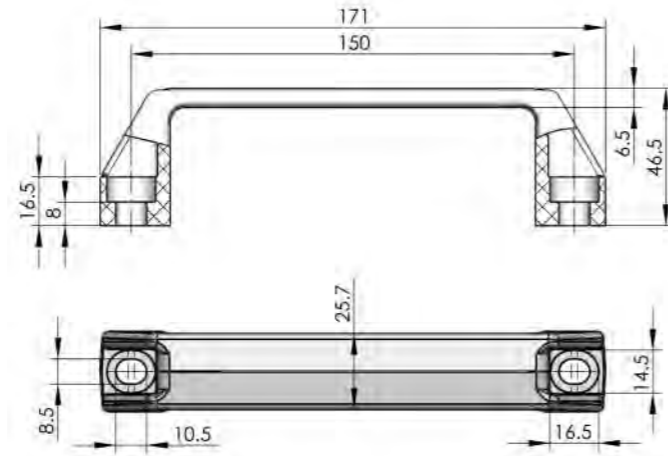
Accessories
Handle lock
Cylinder lock
Electronic lock
Swing handle
Rod control lock
Panel lock
Toggle and hook
<b>Handles</b>
Door stop
Hinge
Seal gasket

**LS522**



Main material and finish: Black PA

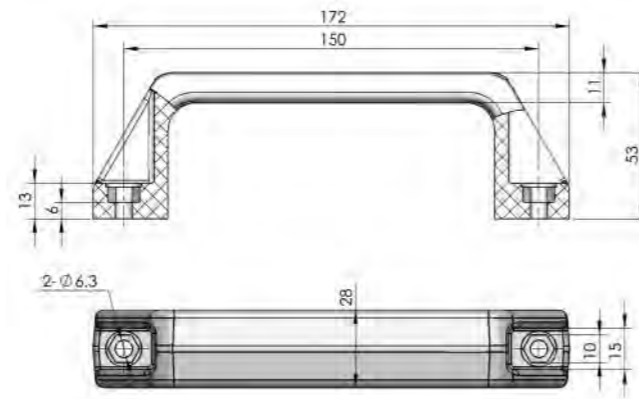
**LS522-1**



ERP

LS522N00150001

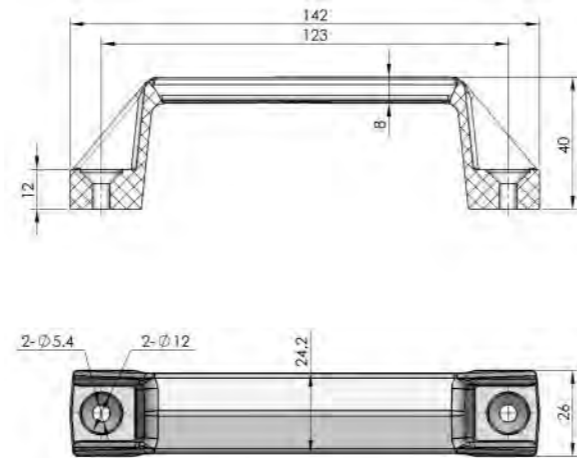
**LS522-2**



ERP

LS522N00150002

**LS522-3**



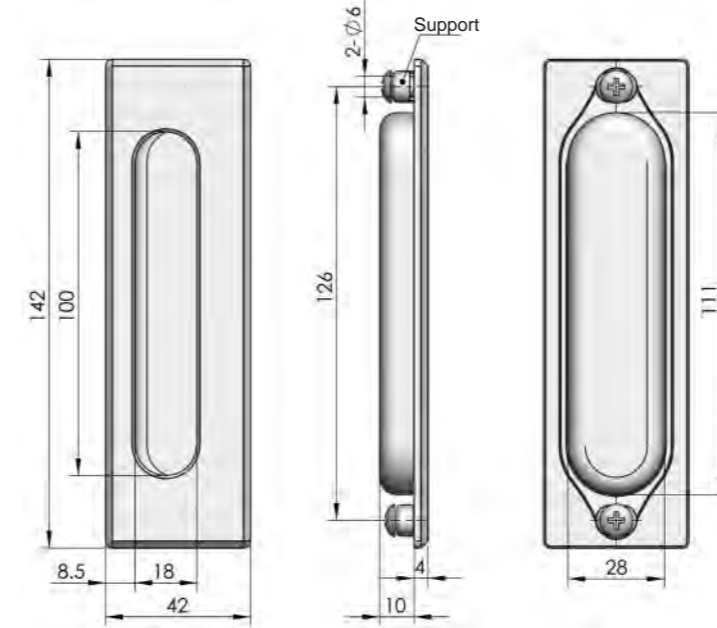
ERP

LS522N00123001

**LS523**



Main material and finish: Bright chrome plated ZDC



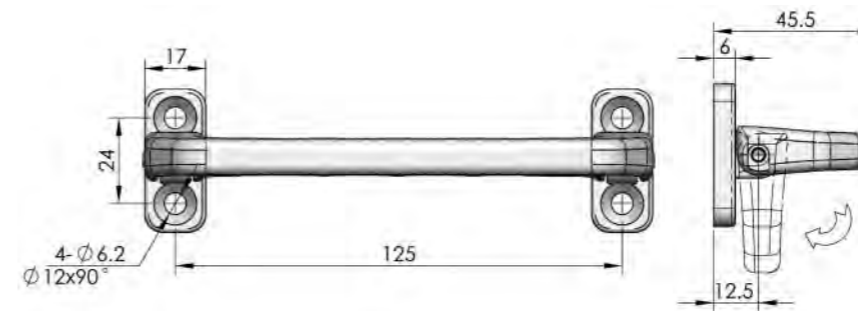
ERP

LS523Z3A126001

**LS527**



Main material and finish: Yellow-grey powder coated aluminium alloy



ERP

LS527A1E125001

Accessories
Handle lock
Cylinder lock
Electronic lock
Swing handle
Rod control lock
Panel lock
Toggle and hook
<b>Handles</b>
Door stop
Hinge
Seal gasket

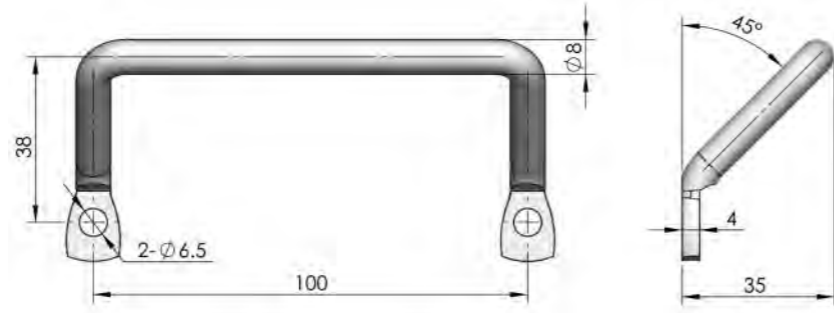


Accessories
Handle lock
Cylinder lock
Electronic lock
Swing handle
Rod control lock
Panel lock
Toggle and hook
<b>Handles</b>
Door stop
Hinge
Seal gasket

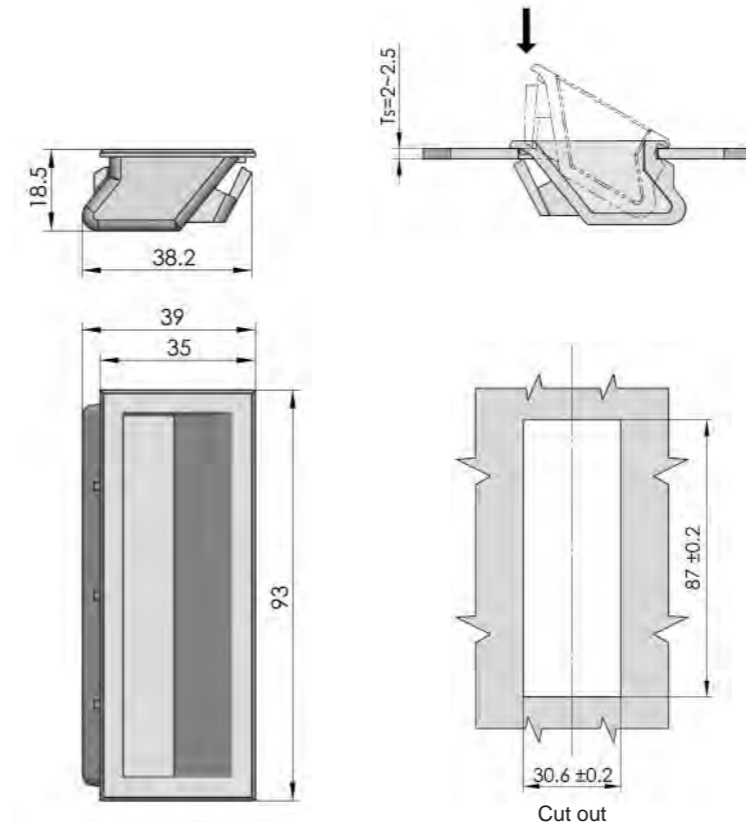
**LS531**



**Main material and finish:** Bright chrome plated steel



ERP LS531F3A100001



ERP LS537N00000004

**LS537-3**

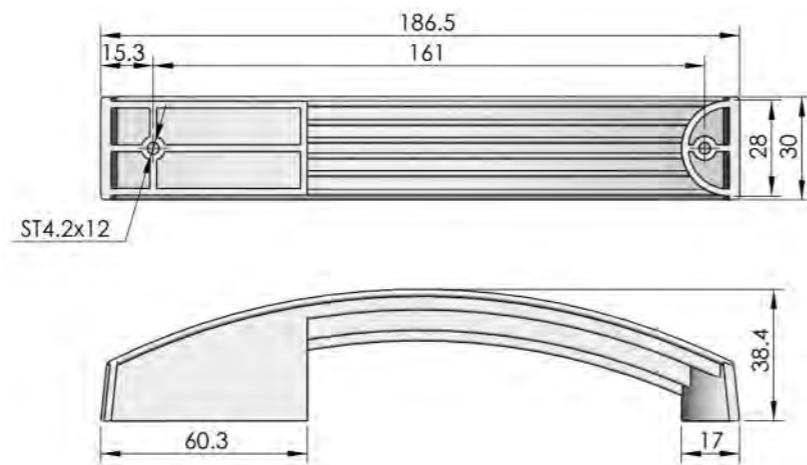


**Main material and finish:** Black ABS

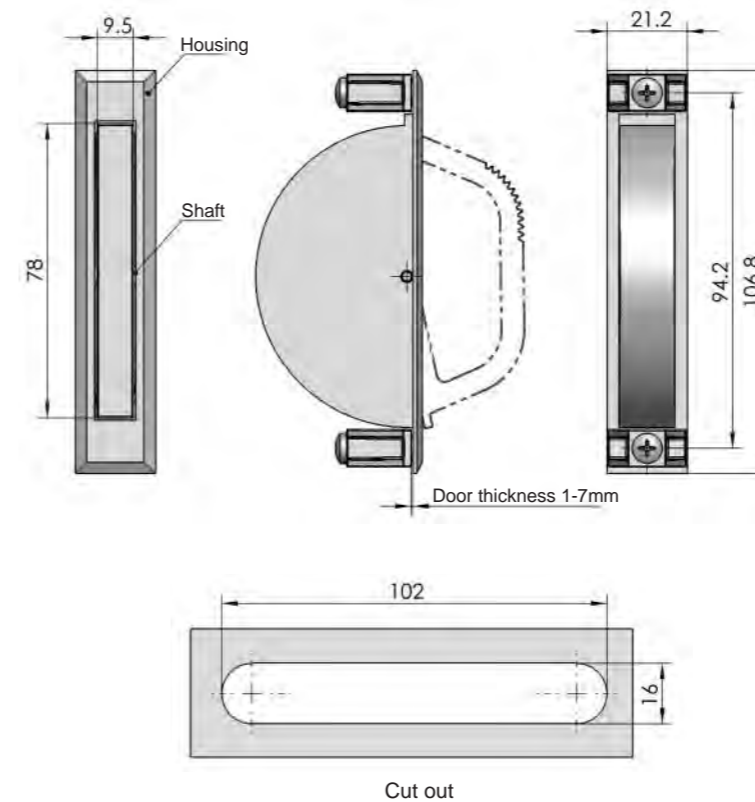
**LS532**



**Main material and finish:** Grey PC



ERP LS532N00000001



ERP LS538N000000001

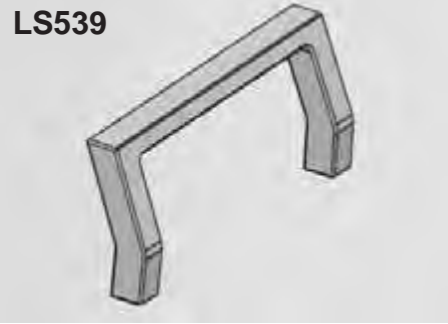
**LS538**



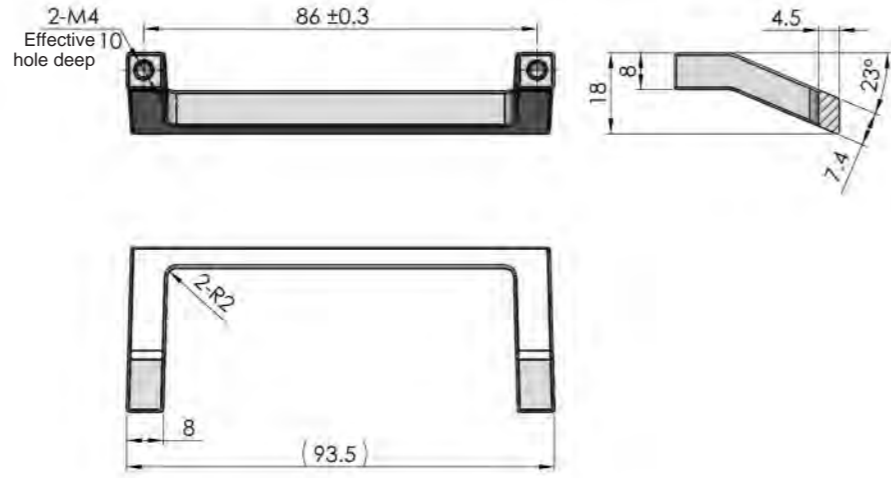
**Main material and finish:** Black POM housing, POM support, silk black powder coated ZDC handle, superior steel screw, shaft, spring  
**Application:** Maximum handle rotation 168°

Accessories
Handle lock
Cylinder lock
Electronic lock
Swing handle
Rod control lock
Panel lock
Toggle and hook
<b>Handles</b>
Door stop
Hinge
Seal gasket

LS539



**Main material and finish:** Grind vibration polishing Aluminum handle



ERP LS539A4C086001

## DOOR STOP SERIES



Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Plane lock  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket

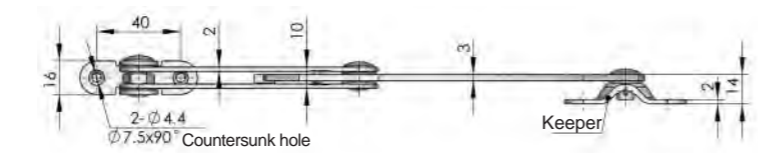
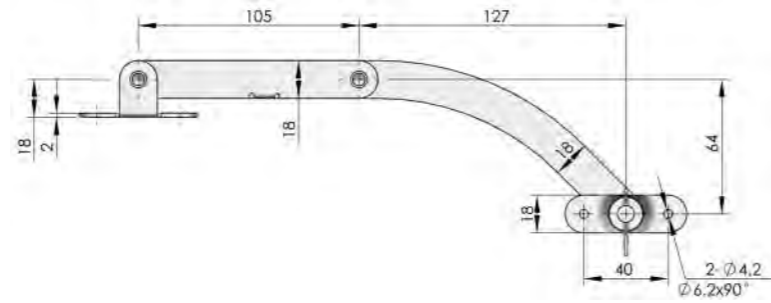
**TX80-1**



**TX80-2**

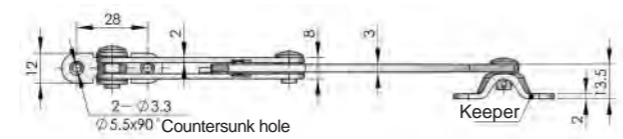
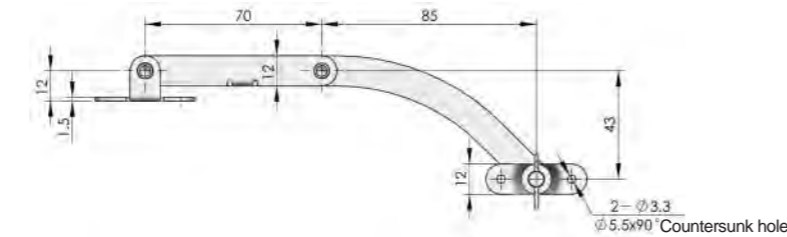


Main material and finish: Bright chrome plated steel body



TX80-1

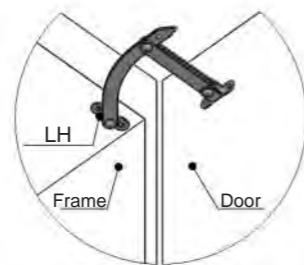
Remarks: change the fitting direction of the keeper to suit RH or LH application



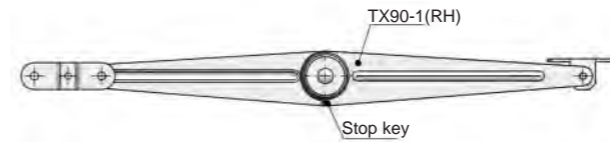
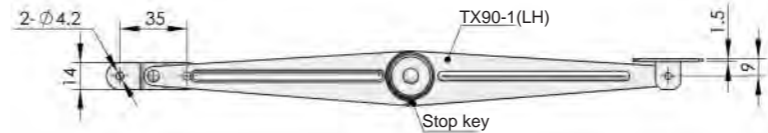
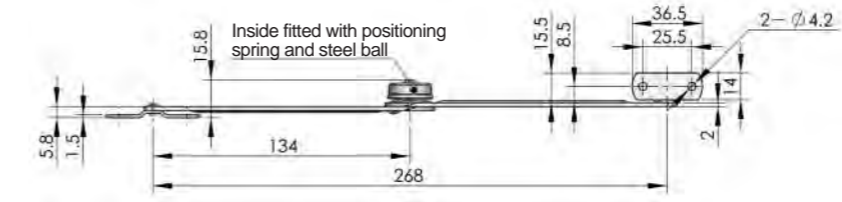
TX80-2

Remarks: change the fitting direction of the keeper to suit RH or LH application

**Example of application**



Specification	Model	ERP	Model	ERP
LH	TX80-1-Z	TX080F3A001	TX80-2-Z	TX080F3A005
RH	TX80-1-Y	TX080F3A002	TX80-2-Y	TX080F3A006

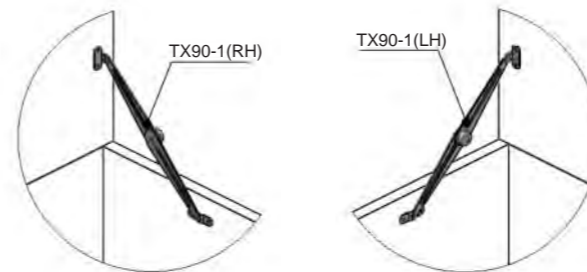


**TX90-1**



Main material and finish: Bright chrome plated steel

**Example of application**



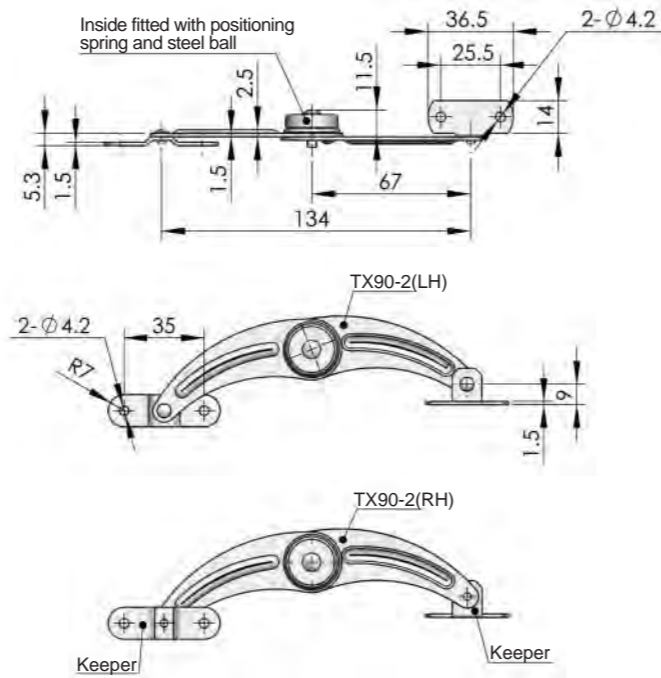
ERP	TX90-1-Z LH	TX90-1-Y RH
ERP	TX090F3A001	TX090F3A002

Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Plane lock  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket

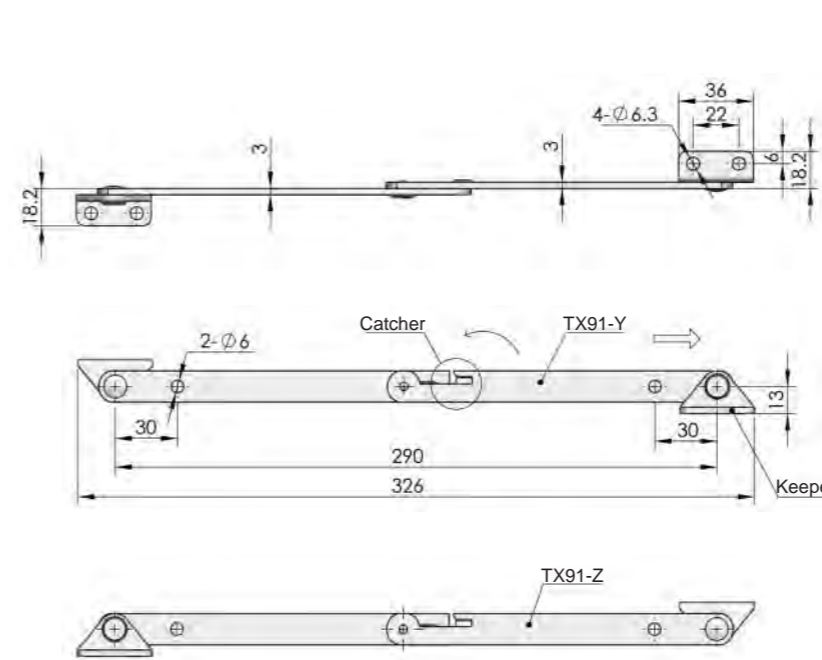
**TX90-2**



**Main material and finish:** Bright chrome plated steel



	TX90-2-Z LH	TX90-2-Y RH
ERP	TX090F3A008	TX090F3A009



	TX91-1-Z LH	TX91-2-Y RH
ERP	TX091S00002	TX091S00001

**TX91**

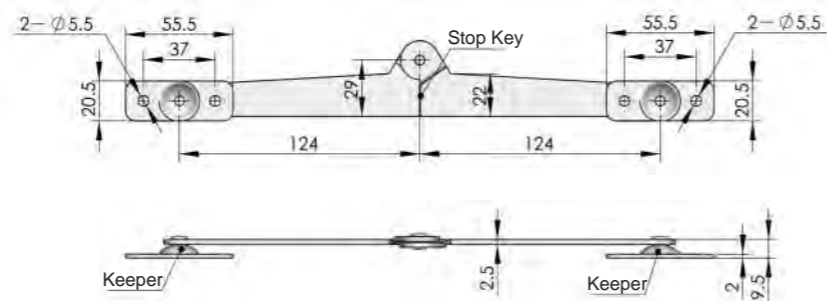


**Main material and finish:** Stainless steel

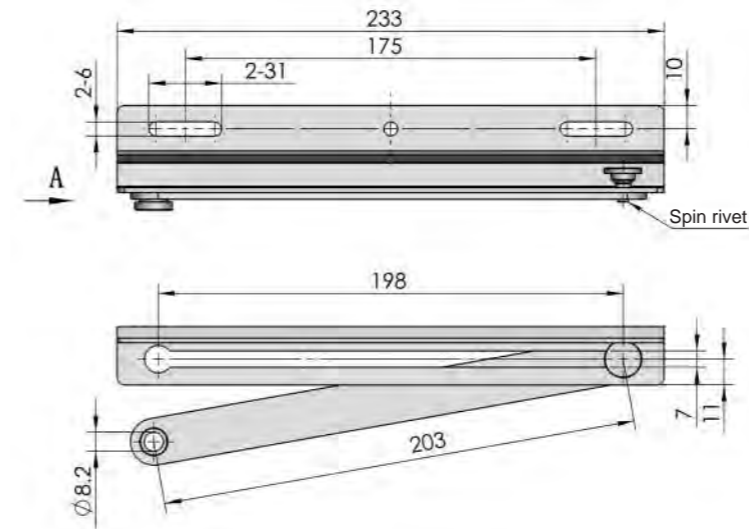
**TX90-3**



**Main material and finish:** Chrome plated steel



ERP	TX090F3A011
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ERP	TX094F3D001
-----	-------------

**TX94**



**Main material and finish:** Trivalent white-zinc plated steel

Accessories

Handle lock

Cylinder lock

Electronic lock

Plane lock

Rod control lock

Panel lock

Toggle and hook

Handles

Door stop

Hinge

Seal gasket

Accessories

Handle lock

Cylinder lock

Electronic lock

Plane lock

Rod control lock

Panel lock

Toggle and hook

Handles

Door stop

Hinge

Seal gasket

Accessories
Handle lock
Cylinder lock
Electronic lock
Plane lock
Rod control lock
Panel lock
Toggle and hook
Handles
Door stop
Hinge
Seal gasket

**TX92-1**

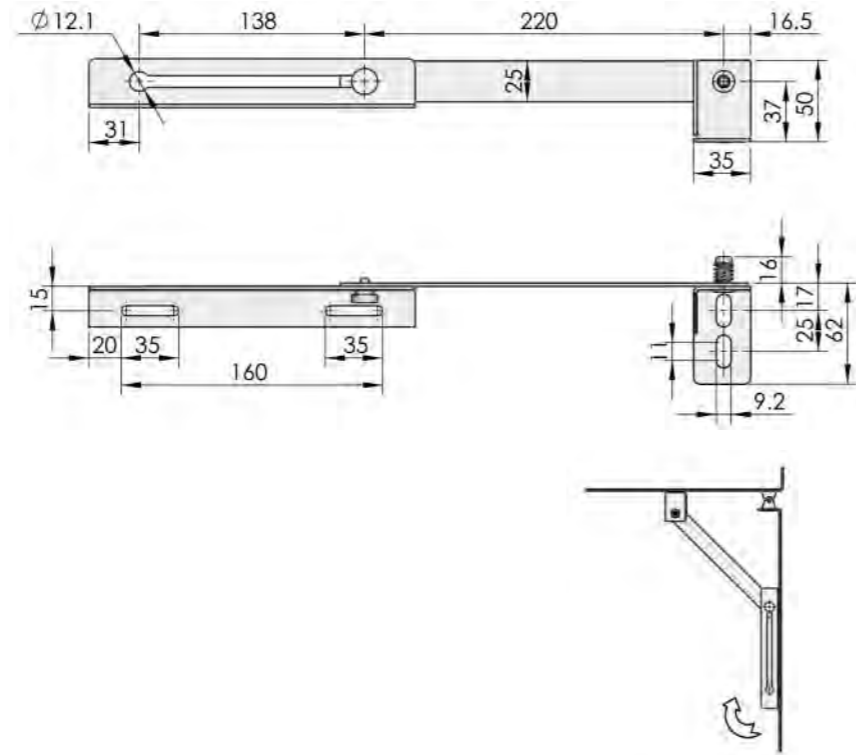


**TX92-2**



Main material: Stainless steel

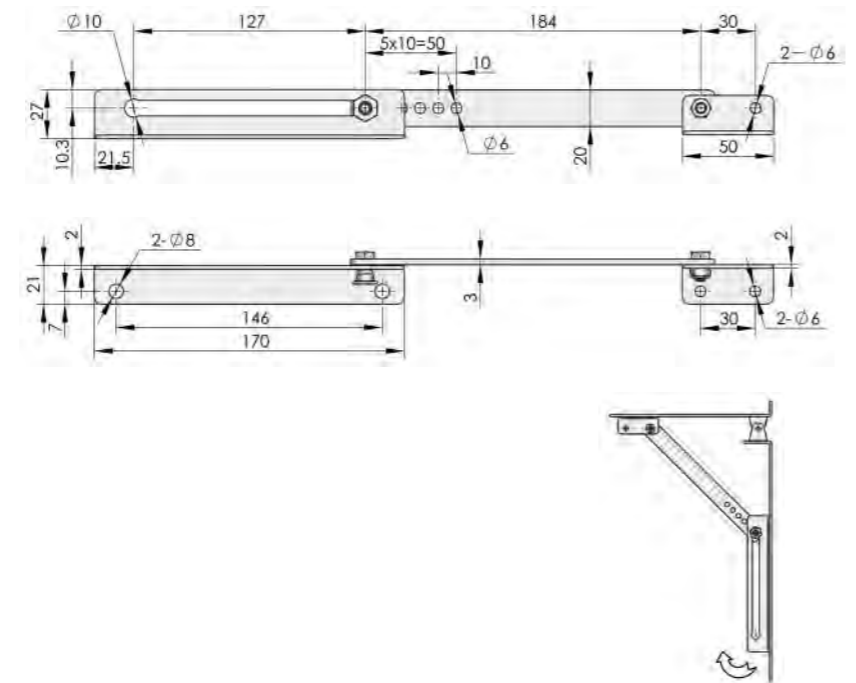
TX92-1



ERP

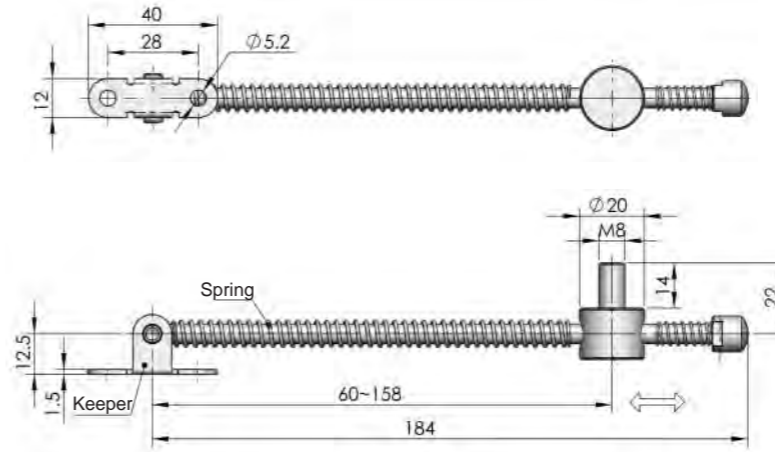
TX092S00001

TX92-2



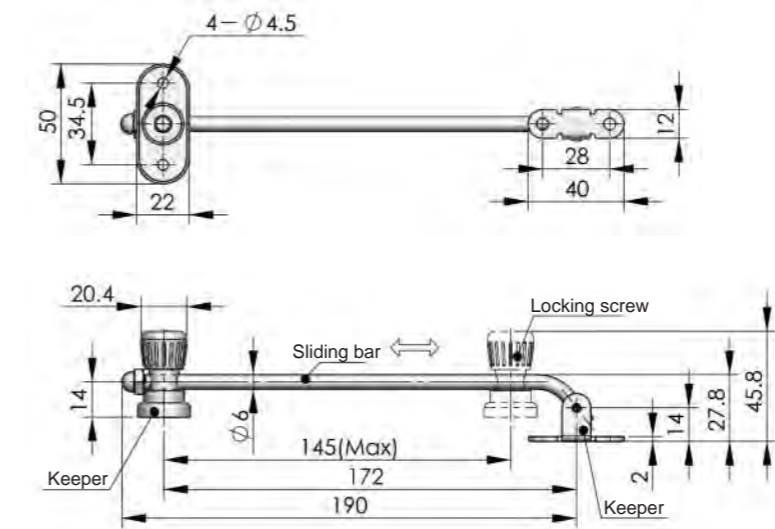
ERP

TX092S00002



ERP

TX100F3D001



ERP

TX100F3A001

**TX100-A**



Main material and finish: Zinc-plated steel

**TX100-B**



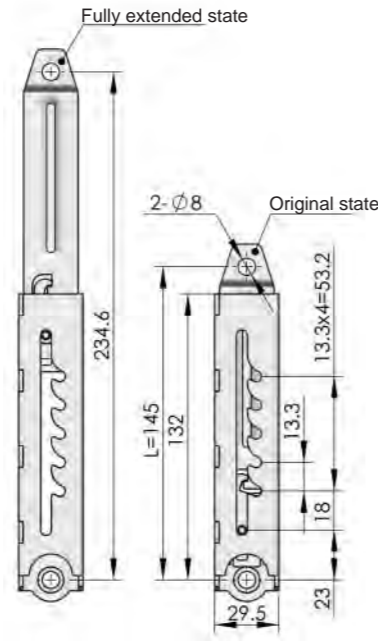
Main material and finish: Bright chrome plated steel body, bright chrome plated steel body, locking screw and ZDC knob

- Accessories
- Handle lock
- Cylinder lock
- Electronic lock
- Plane lock
- Rod control lock
- Panel lock
- Toggle and hook
- Handles
- Door stop
- Hinge
- Seal gasket

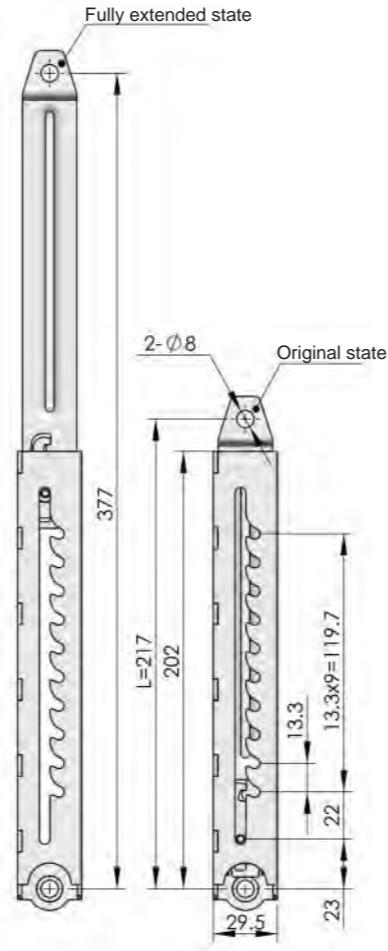


**Main material and finish:** Zinc plated steel  
**Application:** Automatic multiple stops and release in the end position

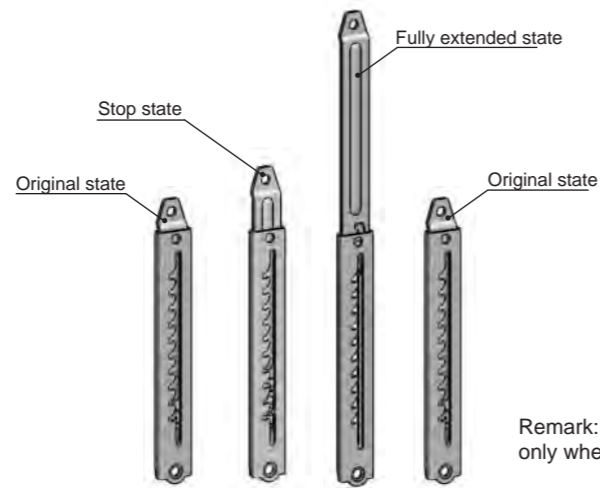
TX101-1



TX101-2



**Different states of telescopic cover stay**



Remark: Extension rod retracts only when fully extended

Specification	Model	ERP
L=145	TX101-1	TX101F3D001
L=217	TX101-2	TX101F3D002

**HINGE SERIES**

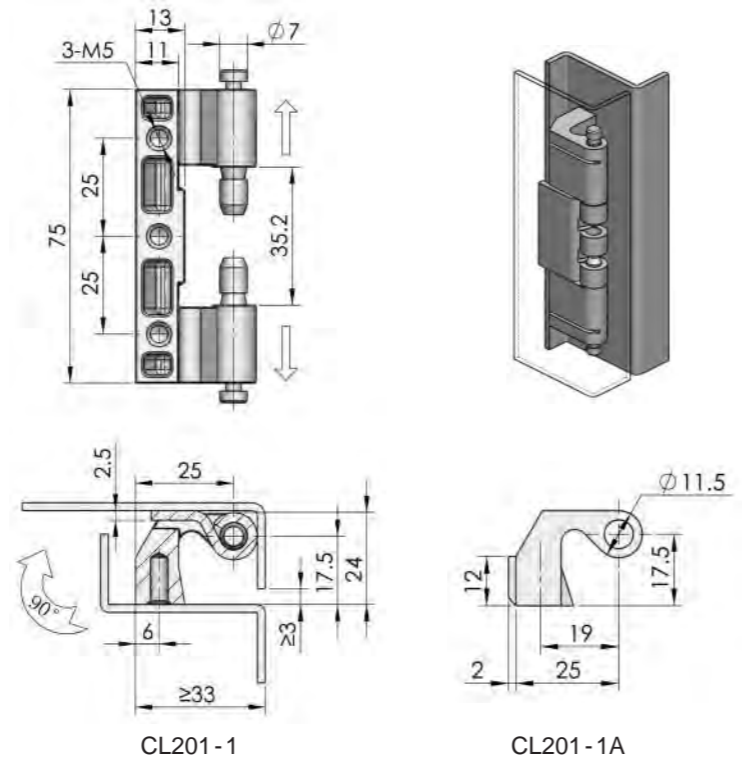
CL201-1	CL202-1	CL203-1	CL203-2	CL203-4	CL204-1	CL204-3	CL204-3S	CL204-3F	CL205-1	CL206-1
CL207	CL208	CL210	CL209	CL211	CL212	CL213-1	CL214	CL215	CL218	CL219
CL220	CL221	CL222	CL223	CL225-3	CL228	CL226	CL229	CL230	CL231-1	CL232
CL233	CL234	CL235	CL237	CL238	CL240-1	CL242	CL243	CL244	CL246	CL247
CL248	CL249	CL250-1	CL251	CL253-1	CL253-2	CL253-5	CL253-6	CL254	CL257	CL260
CL261	CL263	CL264	CL266	CL268	CL269	CL272	CL273	CL274	CL275-1	CL276
CL280	CL281	CL282-1	CL283	CL289	CL290	CL293	CL295	CL296	CL299-1-Z	CL331
CL332	CL103	CL104	CL105	CL106	CL108	CL109	CL115	CL116	CL117	CL119
CL123	CL124	CL125	CL126	CL132	CL127	CL135	CL137	CL138	CL139	CL142
CL121	CL154	CL133	CL145	CL148	CL150	CL151	CL156	CL158	CL225-5	CL226-1K
CL226-8	CL253-9	CL253-10	CL128	CL152	CL152-2	CL158-2	CL163	CL167	CL173	CL178

- Accessories
- Handle lock
- Cylinder lock
- Electronic lock
- Plane lock
- Rod control lock
- Panel lock
- Toggle and hook
- Handles
- Door stop
- Hinge
- Seal gasket

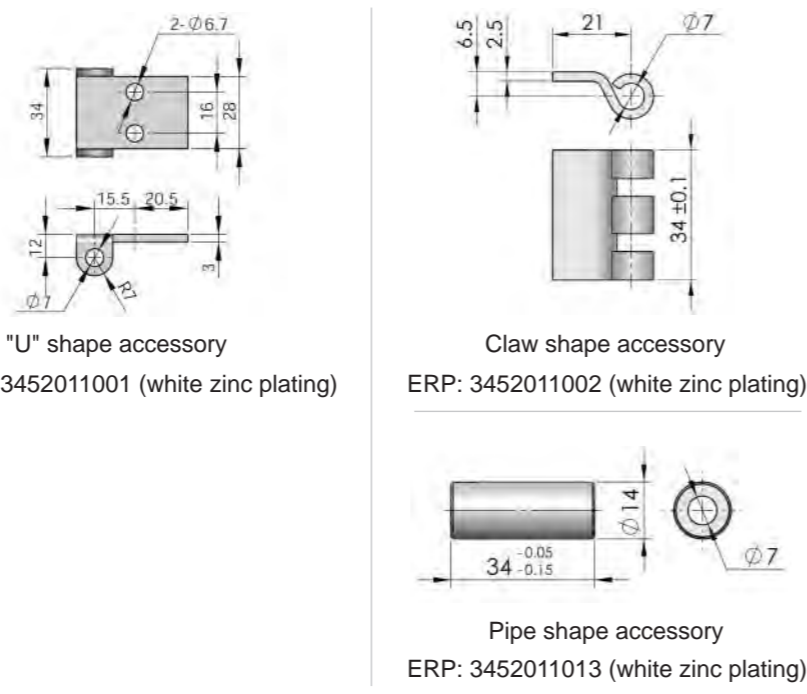


**CL201-1**

**Main material and finish:** ZDC hinge, steel pin, accessory

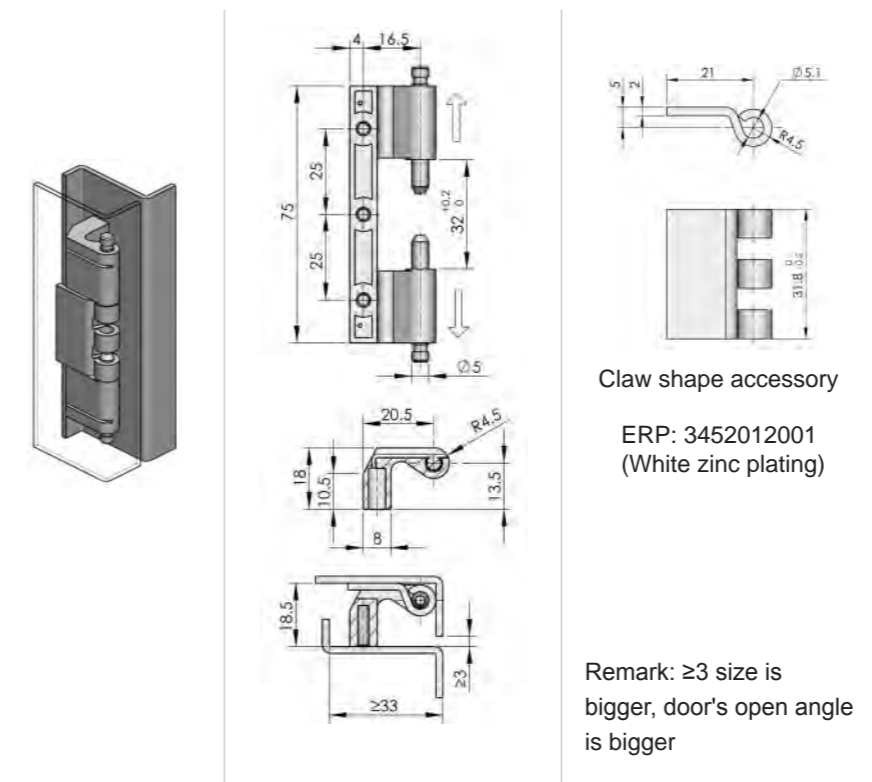


Remark: ≥4 size is bigger, door's open angle is bigger.



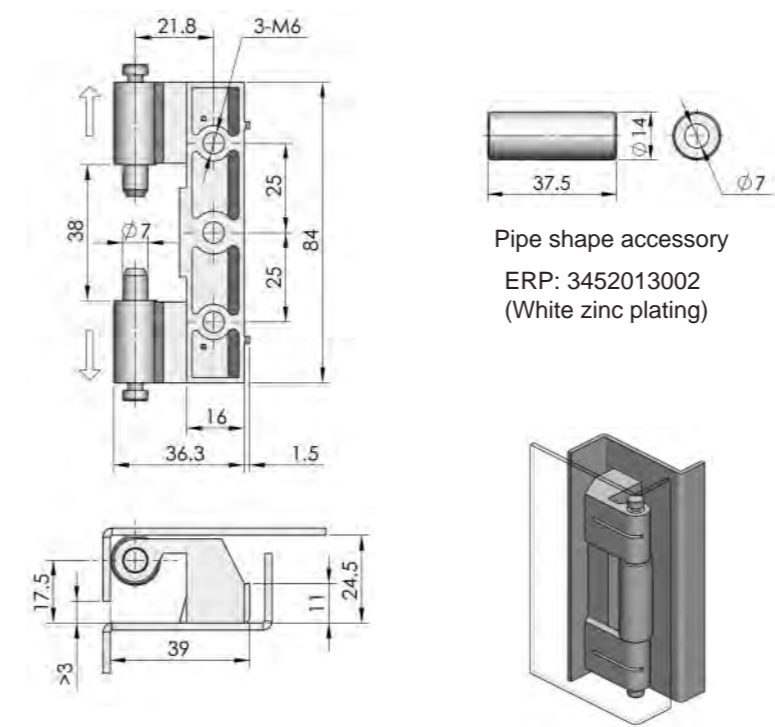
Specification	CL201-1	CL201-1A	CL201-1B
Black powder coated	CL201Z2A002	CL201Z2A032	
Nanometer painted	CL201Z4D002	CL201Z2B017	
Blast sprayed	CL201Z4D002	CL201Z4D004	
SUS			CL201S4B001

Remark: Accessory is not included in above ERP number, but optional



	Black powder coated	Nanometer painted	Blast sprayed
ERP	CL201Z2A006	CL201Z2B004	CL201Z4D007

Remark: Accessory is not included in above ERP number, but optional.



Remark: ≥3 size is bigger, door's open angle is bigger

	Black powder coated	Nanometer painted	Blast sprayed
ERP	CL201Z2A011	CL201Z2B008	CL201Z4D009

Remark: Accessory is not included in above ERP number, but optional.



**CL201-2**

**Main material and finish:** ZDC hinge, steel pin and accessories



**CL201-3**

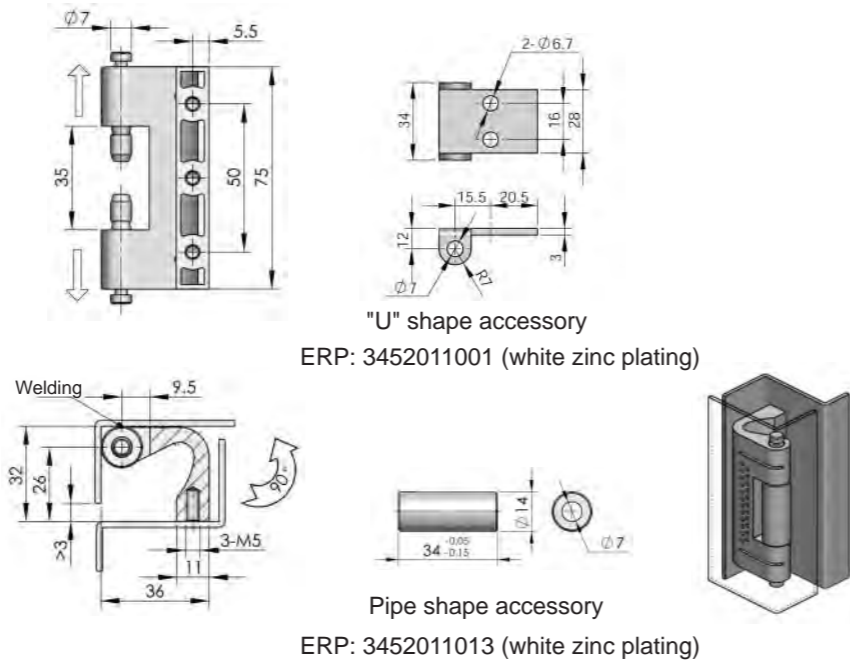
**Main material and finish:** ZDC hinge, steel pin and accessories

- Accessories
- Handle lock
- Cylinder lock
- Electronic lock
- Plane lock
- Rod control lock
- Panel lock
- Toggle and hook
- Handles
- Door stop
- Hinge
- Seal gasket

**CL201-4**



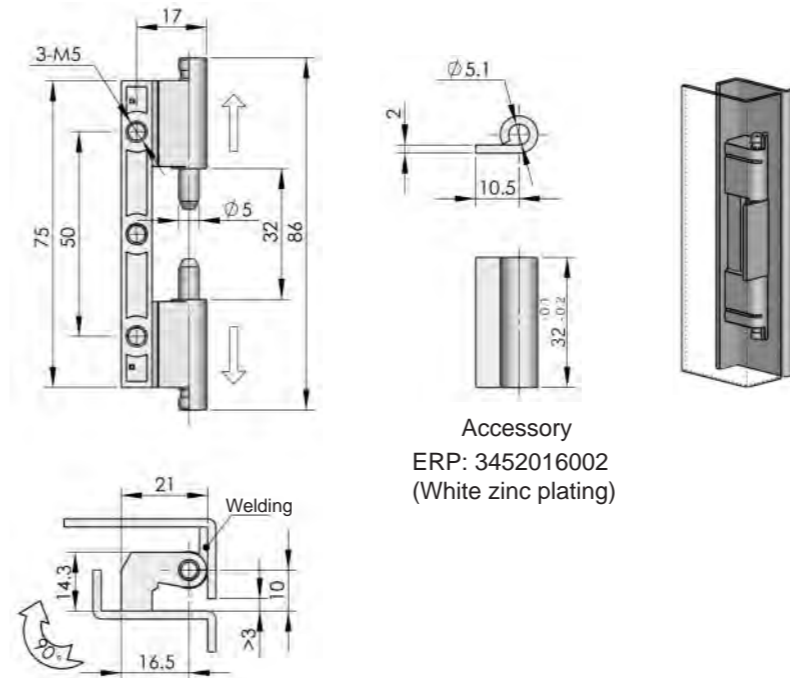
**Main material and finish:** ZDC hinge, steel pin and accessories



Remark: > 3 size is bigger, door's open angle is bigger.

	Black powder coated	Nanometer painted	Blast sprayed
ERP	CL201Z2A015	CL201Z2B009	CL201Z4D012

Remark: Accessory is not included in above ERP number, but optional



Remark: > 3 size is bigger, door's open angle is bigger.

	Nanometer painted	Blast sprayed
ERP	CL201Z2B001	CL201Z4D021

Remark: Accessory is not included in above ERP number, but optional.

**CL201-6**

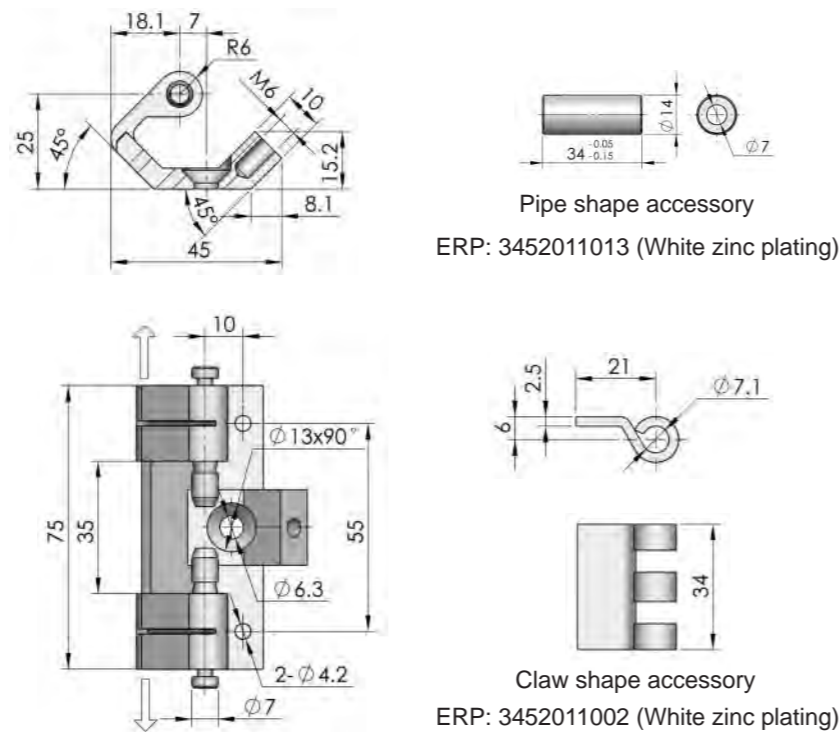


**Main material and finish:** ZDC hinge, steel pin and accessories  
**Application:** Opening degree 90°

**CL201-5**

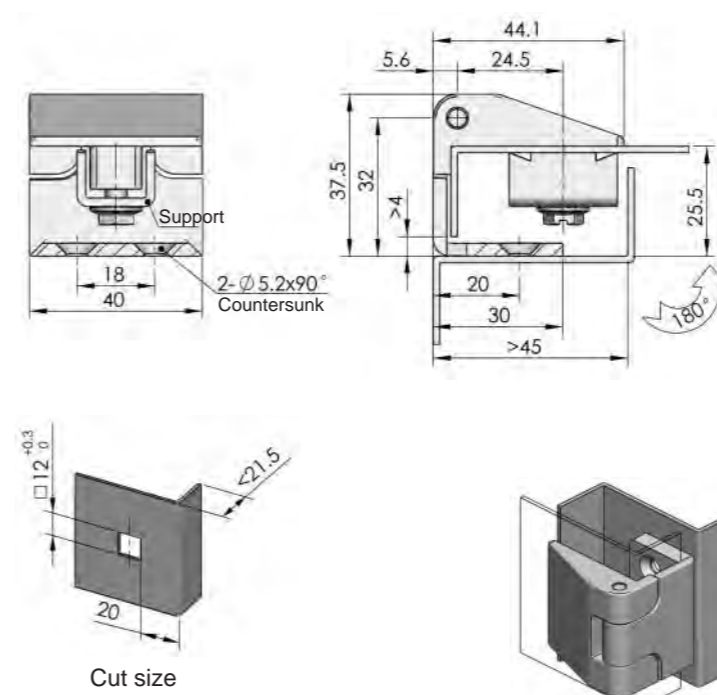


**Main material and finish:** ZDC hinge, steel pin and accessories



	Black powder coated	Nanometer painted	Blast sprayed
ERP	CL201Z2A013	CL201Z2B005	CL201Z4D015

Remark: Accessory is not included in above ERP number, but optional



	Black Powder Coated	Nanometer painted
ERP	CL202Z1A001	CL202Z2B001

**CL202-1**



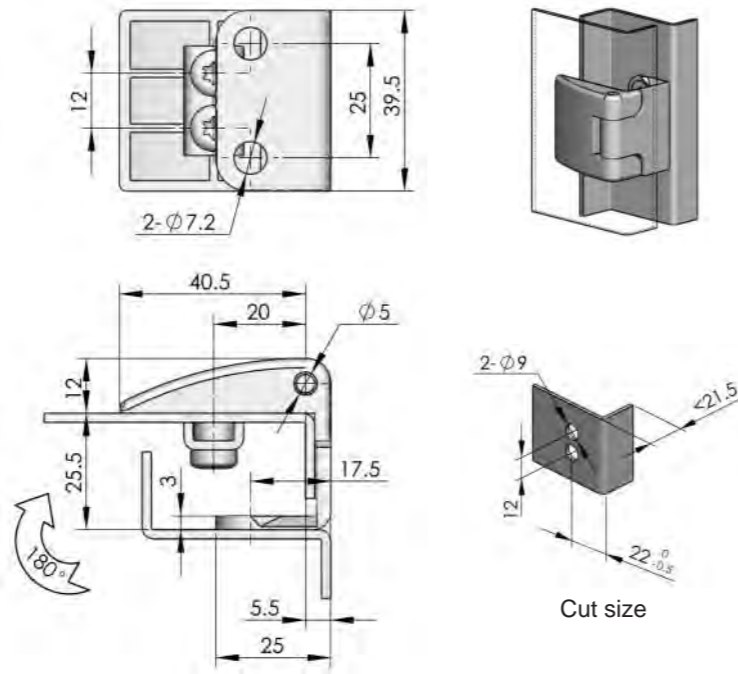
**Main material and finish:** ZDC door-part, steel frame-part and pin  
**Application:** Opening degree 180°



CL202-2



**Main material and finish:** ZDC door-part, steel frame-part, pin and screw  
**Application:** Opening degree 180°

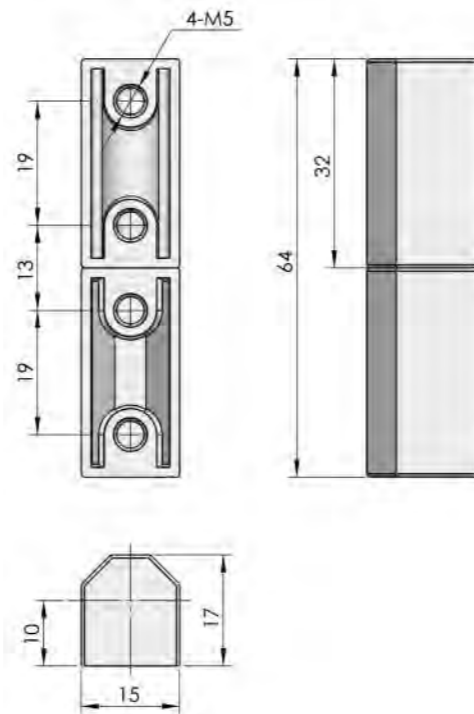


ERP	Matt black powder coated	Malachite green powder coated	Pocked black powder coated
ERP	CL202Z1A002	CL202Z1F006	CL202Z1B001

CL203-2B

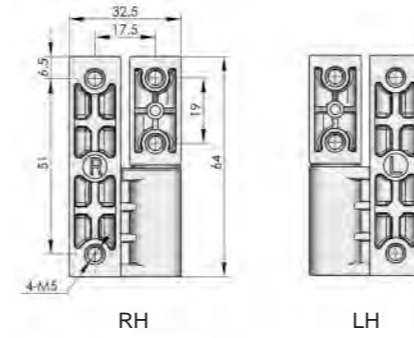


**Main material and finish:** ZDC hinge  
**Application:** Opening degree 180°



ERP	Black powder coated	Bright chrome plated
ERP	CL203Z1A007	CL203Z3A005

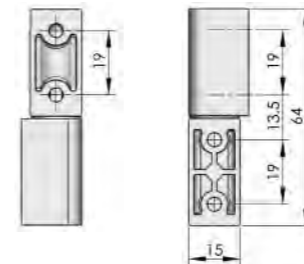
CL203-1



Offset hinge



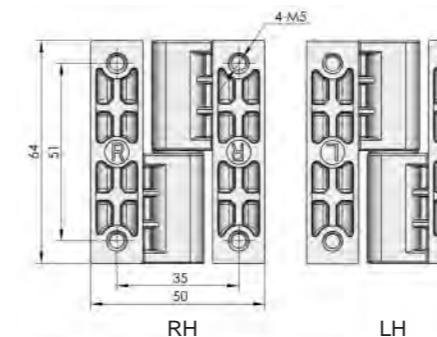
CL203-2



Coaxial hinge



CL203-3



Symmetric hinge



Specification	Model	ERP		
		Matt black powder coated	Pocked black powder coated	Nanometer painted
Coaxial hinge	CL203-2	CL203Z1A003	CL203Z1B004	CL203Z2B003
Offset left hinge	CL203-1-Z	CL203Z1A001	CL203Z1B001	CL203Z2B001
Offset right hinge	CL203-1-Y	CL203Z1A002	CL203Z1B002	CL203Z2B002
Symmetrical left hinge	CL203-3-Z	CL203Z1A008		CL203Z2B004
Symmetrical right hinge	CL203-3-Y	CL203Z1A009	CL203Z1B015	CL203Z2B005

CL203-1



CL203-2

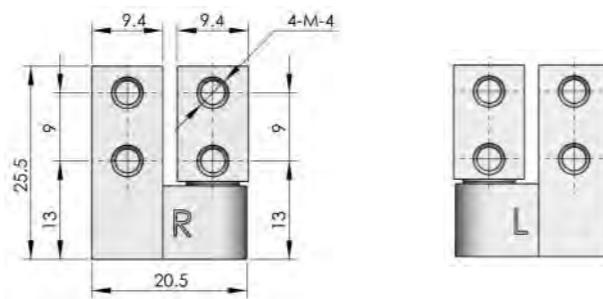


CL203-3



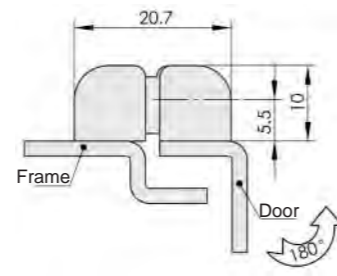
**Main material and finish:** ZDC hinge PA bushing  
**Application:** Opening degree 180°

**CL203-4**



RH

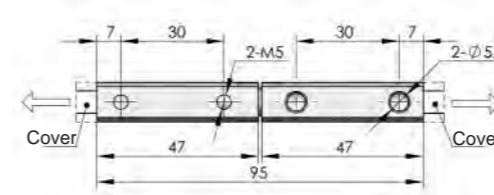
LH



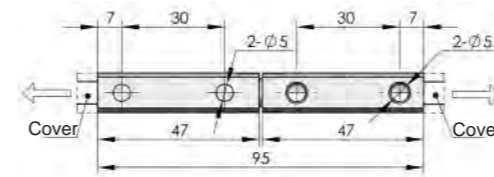
Specification	Model	ERP	
		Black powder coated	Nanometer painted
Left hand	CL203-4-Z	CL203Z2A001	CL203Z2A002
Right hand	CL203-4-Y	CL203Z2B006	CL203Z2B007



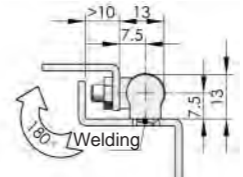
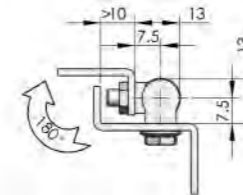
**Main material and finish:** ZDC hinge coated ZDC hinge  
**Application:** Opening angle 180°



CL204-2



CL204-3



ERP	CL204-2 Fixed with screw	CL204-2 Welding
ERP	CL204S00001	CL204S9C001

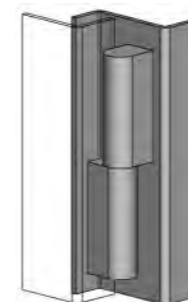
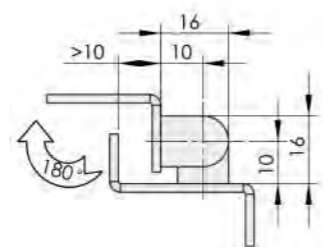
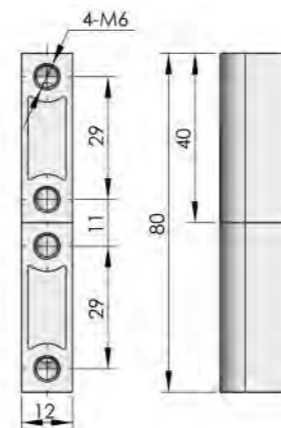
**CL204-2  
CL204-3**



**INOX  
AISI  
3..**

**Main material and finish:** Steel hinge leaf and stainless steel cover  
**Application:** Opening angle 180°

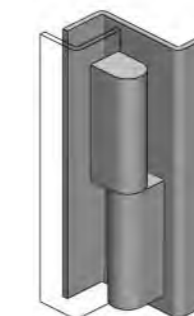
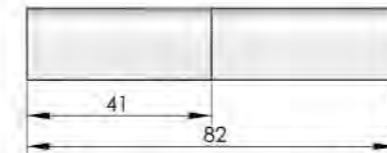
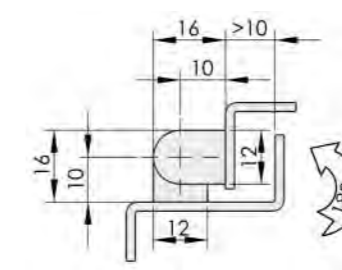
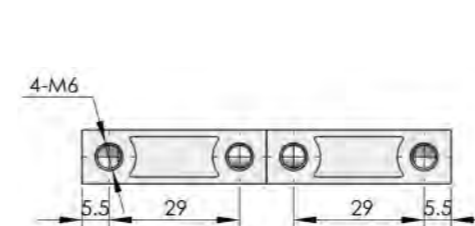
**CL204-1**



ERP	Black powder coated	Nanometer painted	Bright chrome plated
ERP	CL204Z1A001	CL204Z2B001	CL204Z3A001



**Main material and finish:** ZDC hinge  
**Application:** Opening angle 180°



ERP	CL204Z3A002
ERP	CL204Z3A002

**CL204-3C**




**Main material and finish:** Bright chrome-plated ZDC hinge  
**Application:** Opening angle 180°

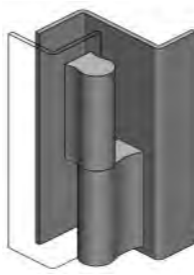
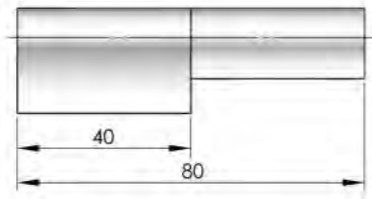
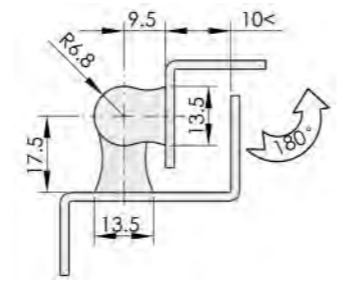
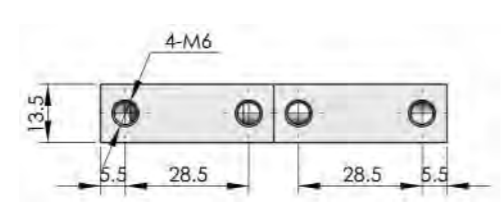
Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Plane lock  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket



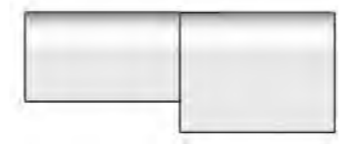
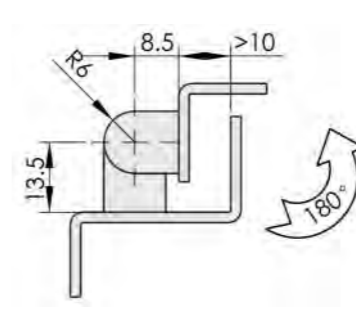
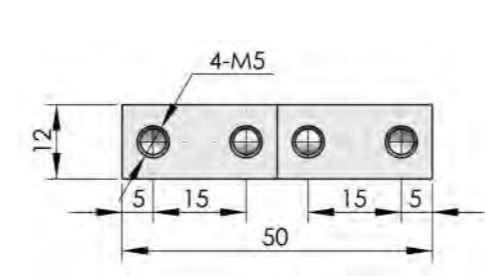
**CL204-3D**



**Main material and finish:** Bright chrome-plated ZDC hinge  
**Application:** Opening angle 180°




ERP CL204Z3A003



ERP CL204Z3A007



**CL204-3F**




**Main material and finish:** Bright chrome-plated ZDC hinge  
**Application:** Opening angle 180°

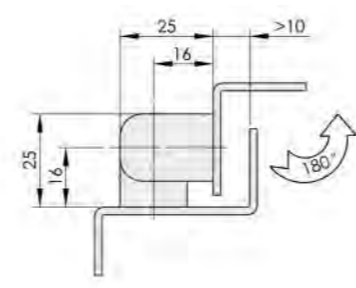
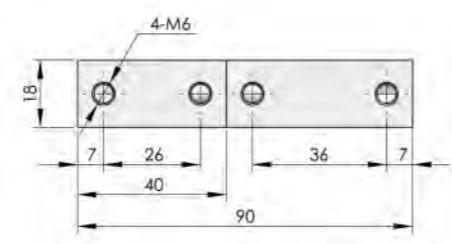
Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Plane lock  
Rod control lock



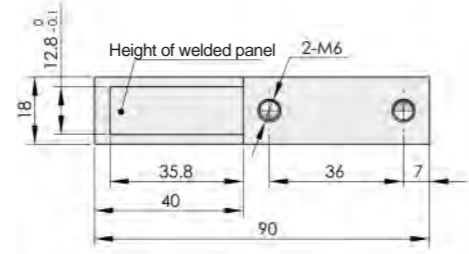
**CL204-3S**



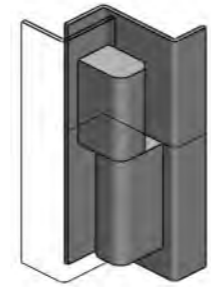
**Main material and finish:** SUS304, wire drawing polishing  
**Application:** Opening angle 180°



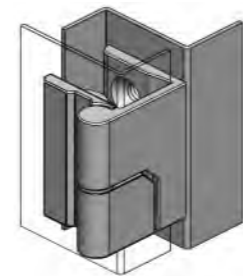
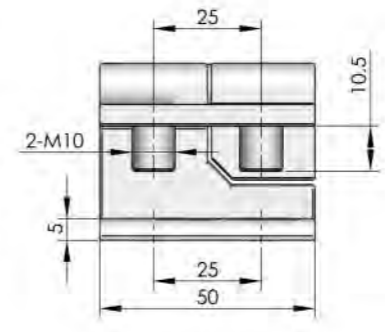
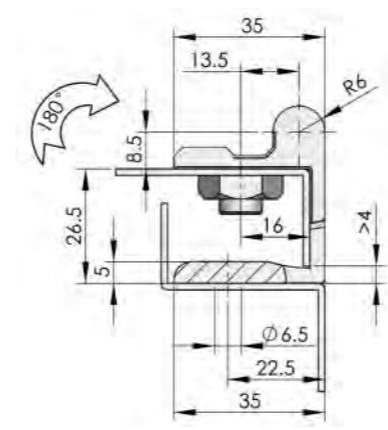
CL204-3S-2



CL204-3S-1




	CL204-3S-1	CL204-3S-2
ERP	CL204S4B002	CL204S4B003



Specification	Model	ERP	
		Black powder coated	Pocked black powder coated
Left hand	CL205-1-Z	CL205Z1A001	CL205Z1B001
Right hand	CL205-1-Y	CL205Z1A002	CL205Z1B002



**CL205-1**



**Main material and finish:** ZDC hinge  
**Application:** Opening angle 180°

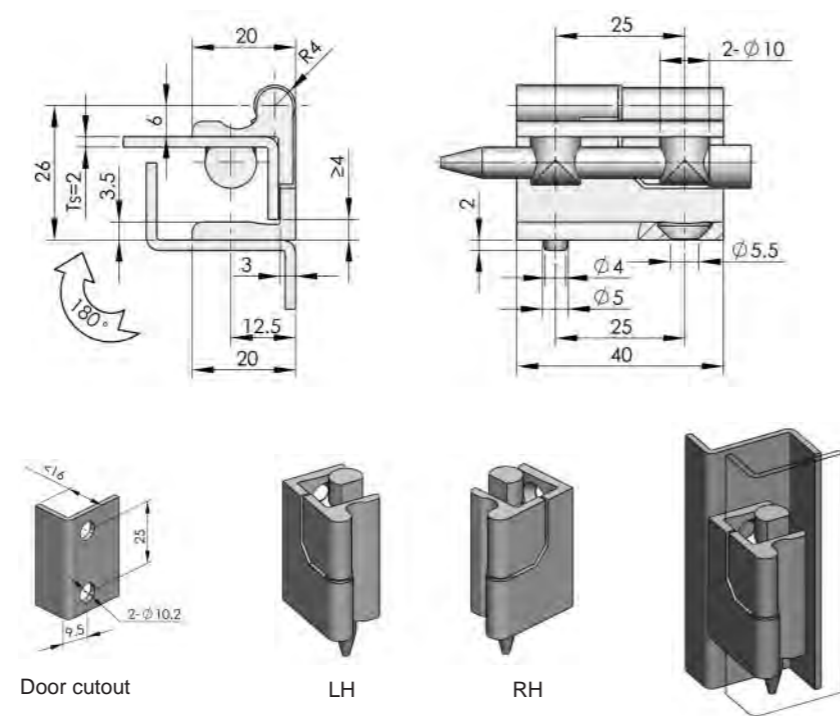
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket

Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Plane lock  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket



**CL205-2**

**Main material and finish:** ZDC hinge leaf and bushing, PA shaft  
**Application:** Opening angle 180°

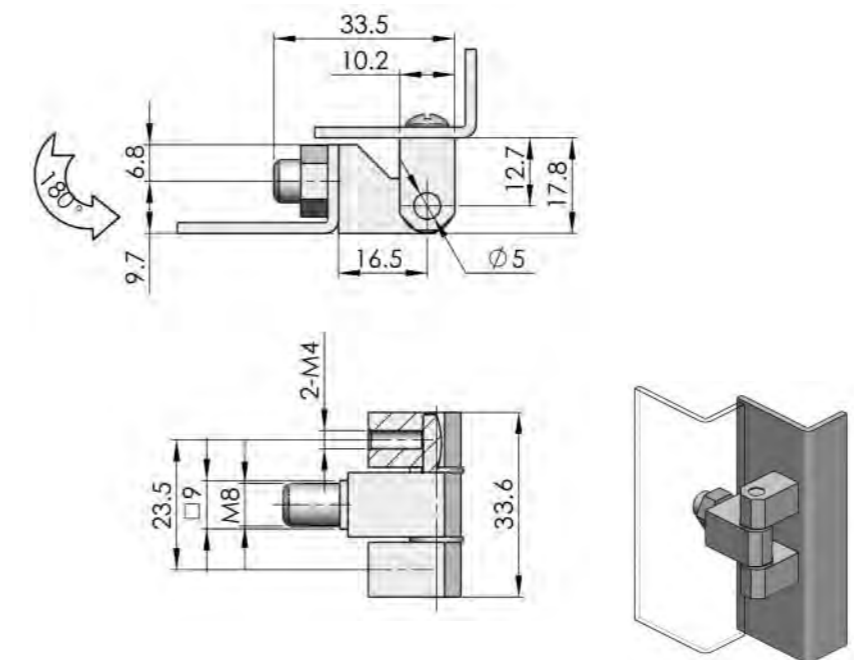


Specification	Model	ERP	
		Bright chrome-plated	Pocked black powder coated
Left hand	CL205-2-Z	CL205Z3A001	CL205Z1B003
Right hand	CL205-2-Y	CL205Z3A002	CL205Z1B004



**CL206-2**

**Main material and finish:** ZDC hinge, steel pin  
**Application:** Opening angle 180°

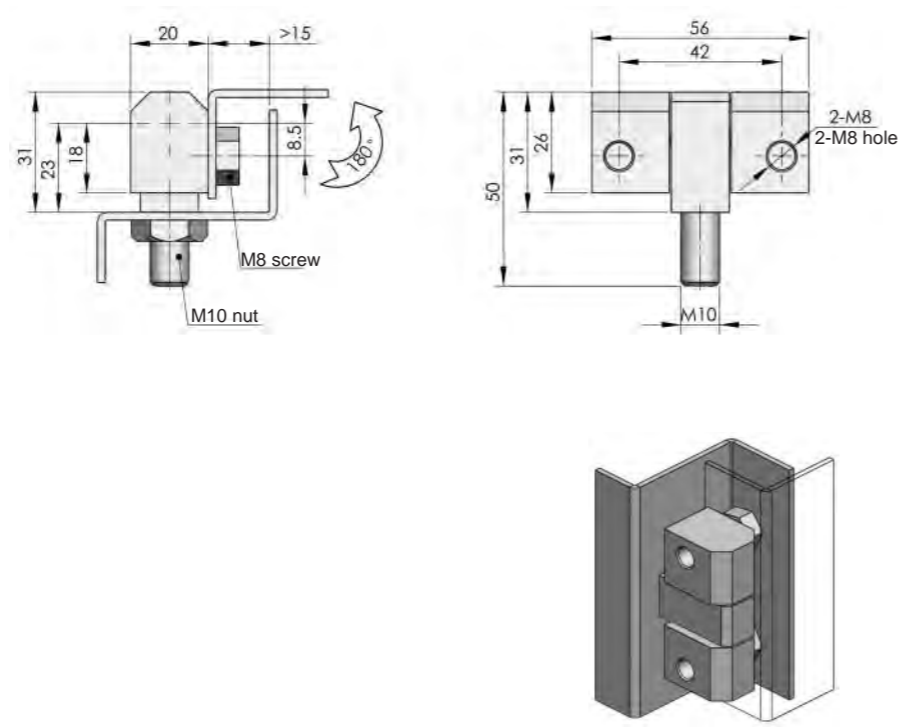


ERP	Black powder coated	Bright chrome-plated
		CL206Z1A001



**CL206-1**

**Main material and finish:** Bright chrome plated steel hinge, steel gasket  
**Application:** Opening angle 180°

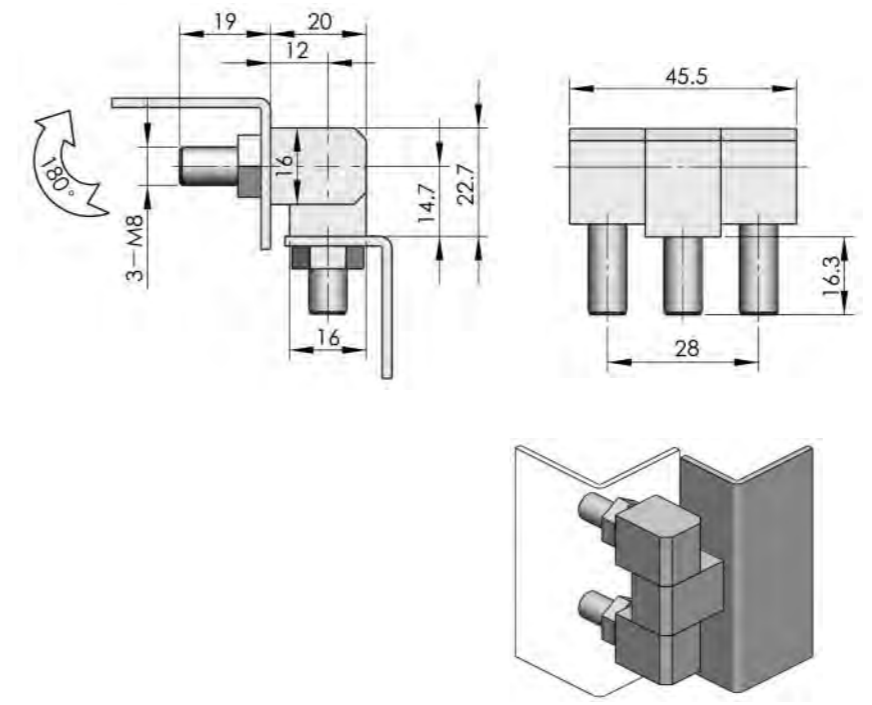


ERP	CL206F3A001
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**CL206-3**

**Main material and finish:** Bright chrome plated steel hinge and gasket  
**Application:** Opening angle 180°



ERP	Pocked black powder coated	Black painted	Bright chrome plated
		CL206F1B001	CL206F2A001

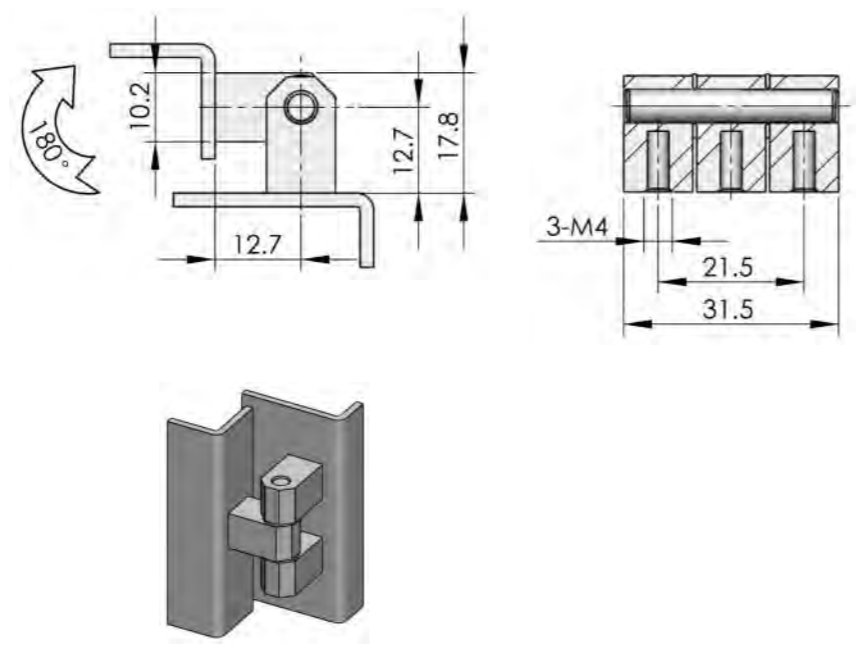
Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Plane lock  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket

Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Plane lock  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket

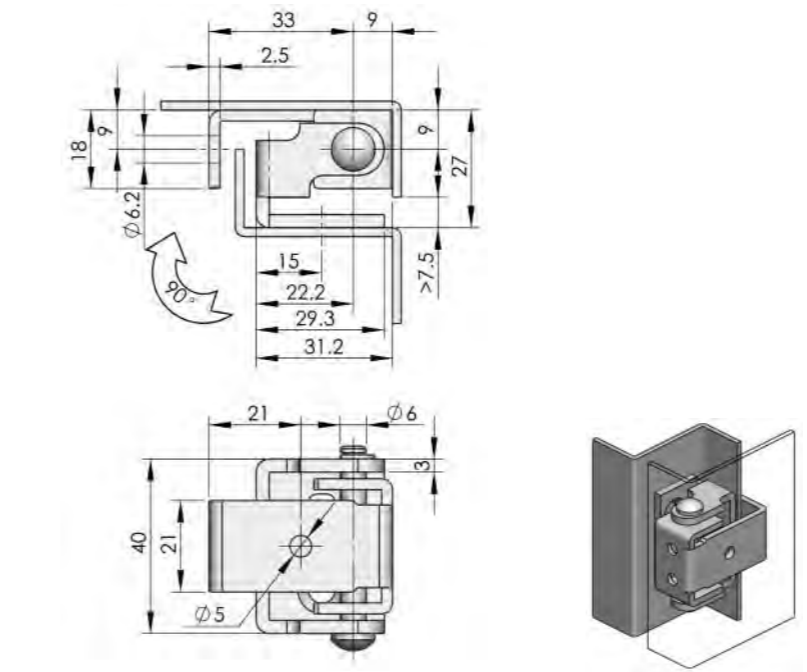
**CL206-4**




**Main material and finish:** ZDC hinge, steel pin  
**Application:** Opening angle 180°





	Black powder coated	Bright chrome-plated
ERP	CL206Z1A003	CL206Z3A012



ERP	CL207F3D001

**CL207**

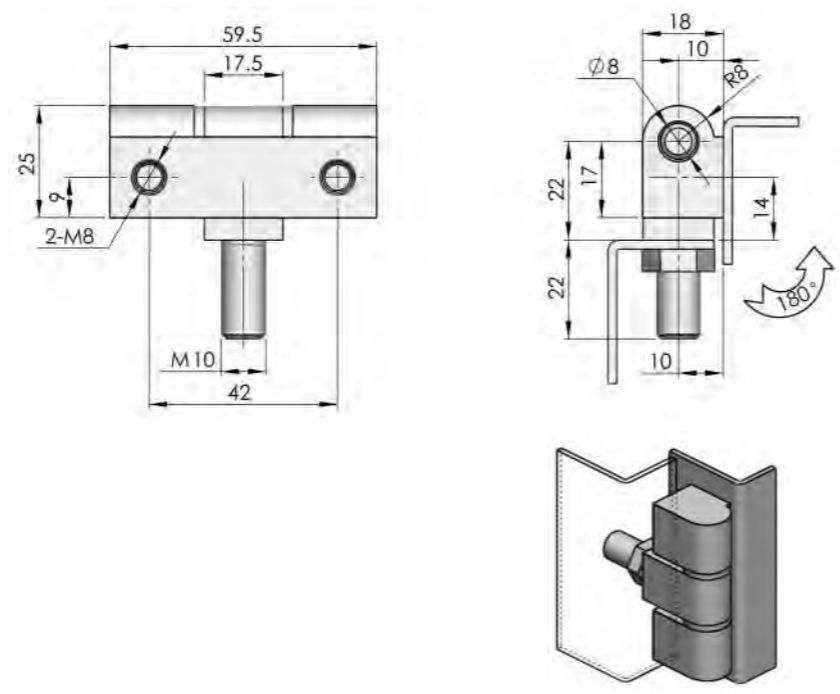



**Main material and finish:** White zinc-plated steel hinge  
**Application:** Opening angle 90°

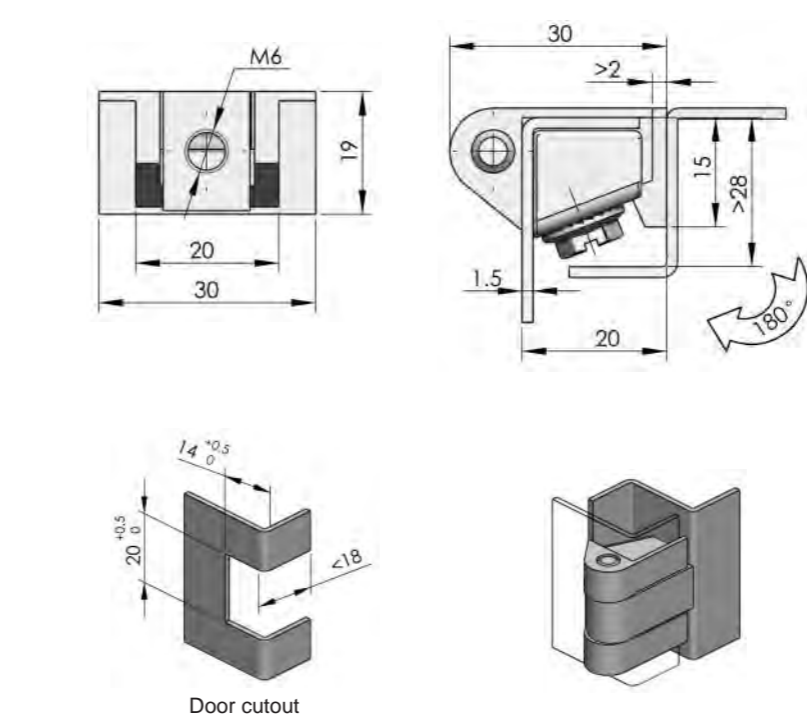
**CL206-3B**




**Main material and finish:** ZDC hinge  
**Application:** Opening angle 180°





	Black painted	Bright chrome-plated
ERP	CL206Z2A002	CL206Z3A011



	Matt black powder coated	Nanometer painted	Bright chrome-plated
ERP	CL208Z1A001	CL208Z2B001	CL208Z3A001

**CL208**

**Main material and finish:** ZDC hinge, steel support and screw  
**Application:** Opening angle 180°

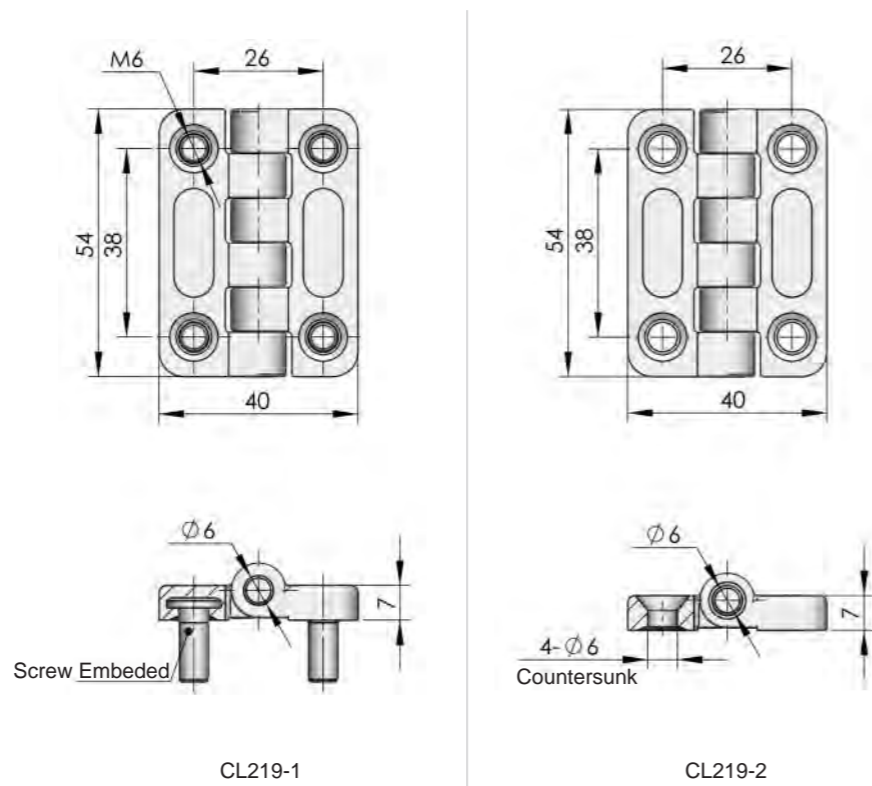
CL209-1



CL209-2



**Main material and finish:** ZDC hinge and steel pin  
**Application:** Opening angle 180°

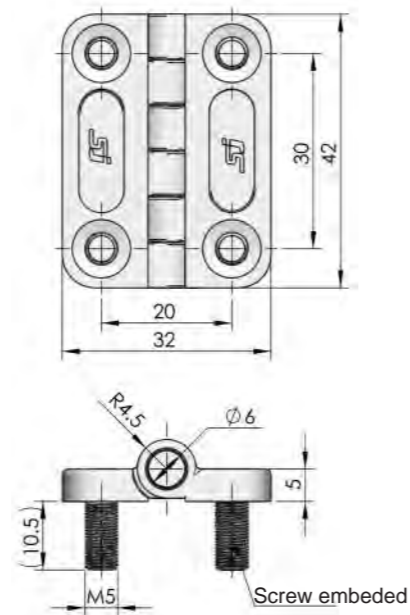


Specification	ERP	
	CL209-1	CL209-2
Bright chrome-plated	CL209Z3A001	CL209Z3A002
Matt black powder coated	CL209Z1A001	CL209Z1A015
Pocked black powder coated	CL209Z1B001	CL209Z1B002
Nanometer painted	CL209Z2B001	CL209Z2B006

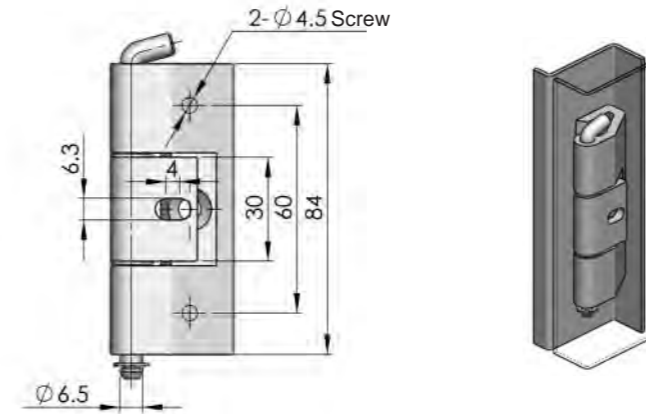
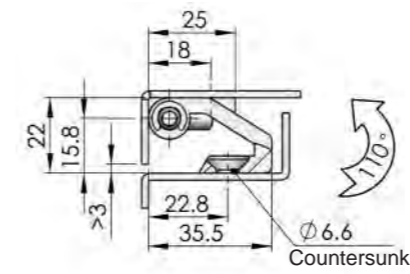
CL209-1C



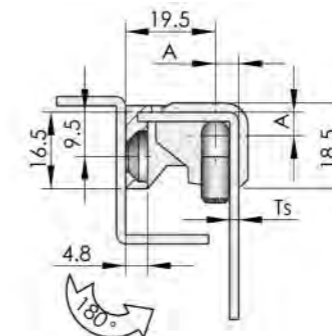
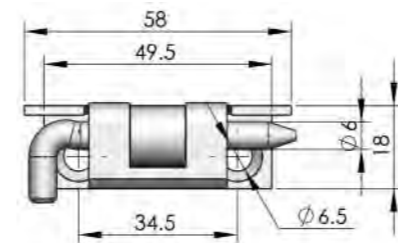
**Main material and finish:** Nanometer painted ZDC hinge, stainless steel shaft and screw  
**Application:** Opening angle 180°



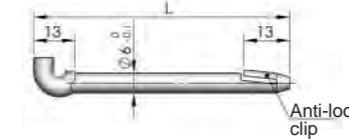
ERP	CL209Z2B004
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	Matt black powder coated	Nanometer painted
ERP	CL210Z1A001	CL210Z2B001



Optional nylon pin



Part No.	L
PN001	57
PN002	78

Specification	A	Model	ERP
Suitable door thickness, Ts=1.5mm	4.6	CL211-1	CL211Z1A001
Suitable door thickness, Ts=2mm	5.1	CL211-2	CL211Z1A010

CL210



**Main material and finish:** ZDC hinge, steel pin, PA gasket set  
**Application:** Opening angle 110°

CL211

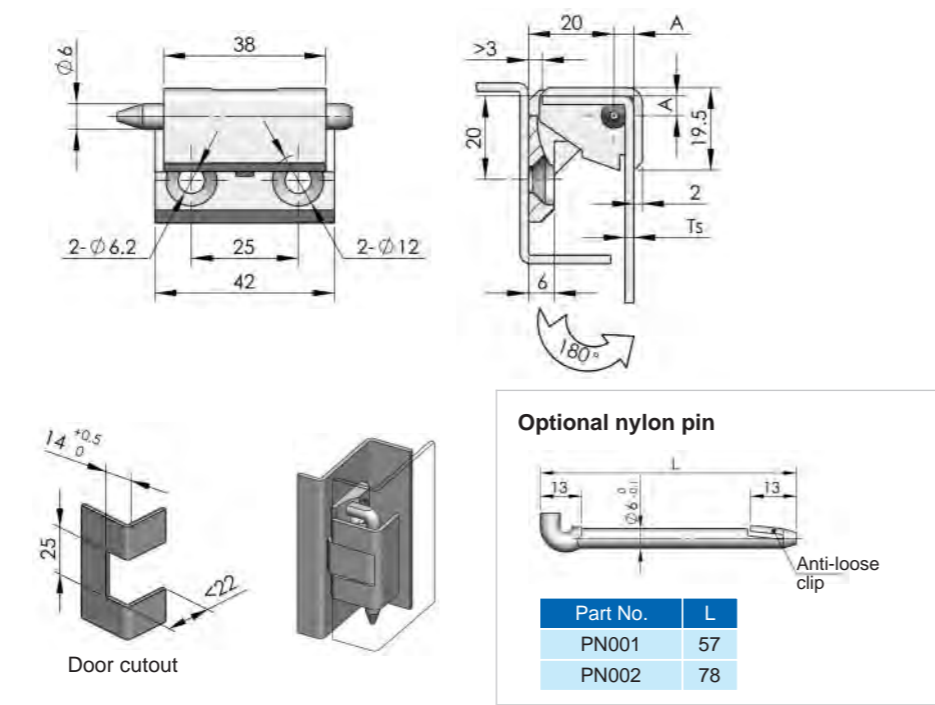


**Main material and finish:** Black powder coated ZDC hinge, nickel-plated steel pin  
**Application:** Opening angle 180°



**CL212**

**Main material and finish:** Black powder coated ZDC hinge, nickel-plated steel pin  
**Application:** Opening angle 180°

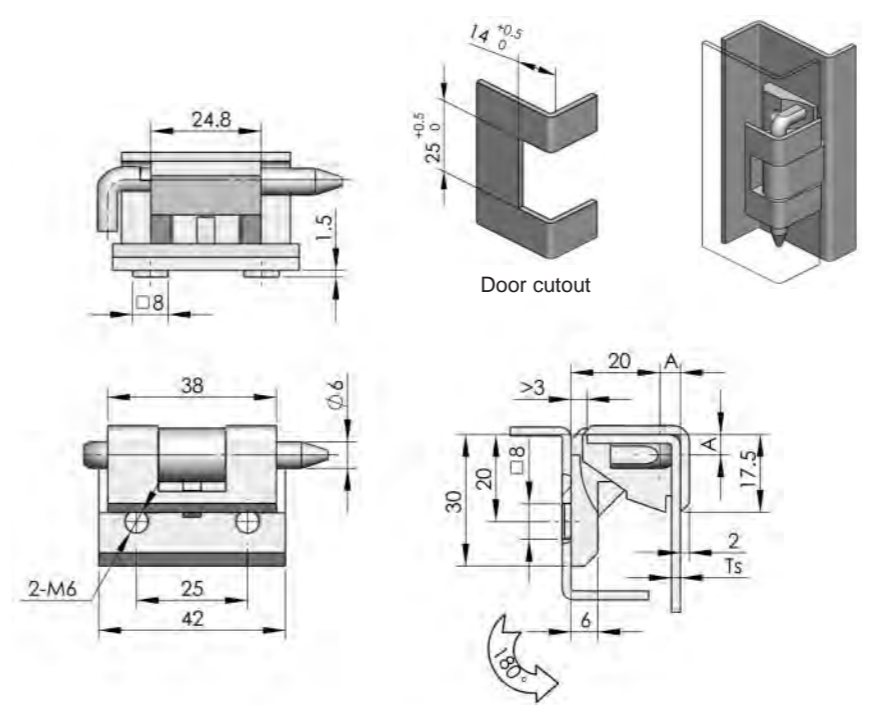


Specification	A	Model	ERP
Suitable door thickness, Ts=2mm	5.1	CL212-1	CL212Z1A001
Suitable door thickness, Ts=3mm	6.1	CL212-2	CL212Z1A003
Suitable door thickness, Ts=1.5mm	4.6	CL212-3	CL212Z1A004



**CL212-3B**

**Main material and finish:** Black powder coated ZDC hinge, nickel-plated steel pin  
**Application:** Opening angle 180°

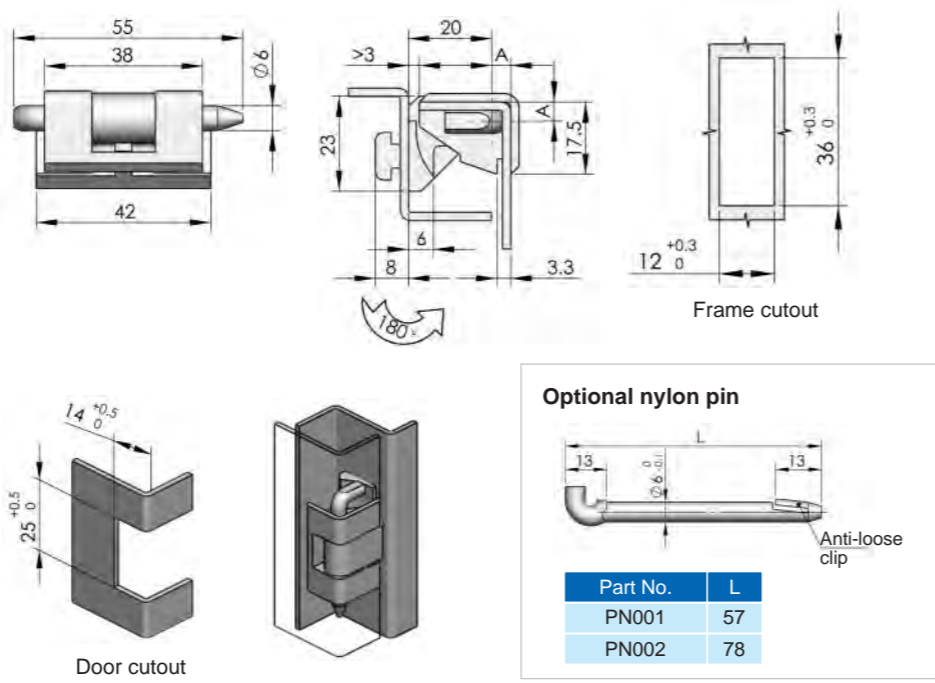


ERP	Specification	A
CL212Z1A007	Suitable door thickness, Ts=2mm	5.1
CL212Z1A008	Suitable door thickness, Ts=3mm	6.1
CL212Z1A009	Suitable door thickness, Ts=1.5mm	4.6



**CL212-3A**

**Main material and finish:** Black powder coated ZDC hinge, nickel-plated steel pin  
**Application:** Opening angle 180°

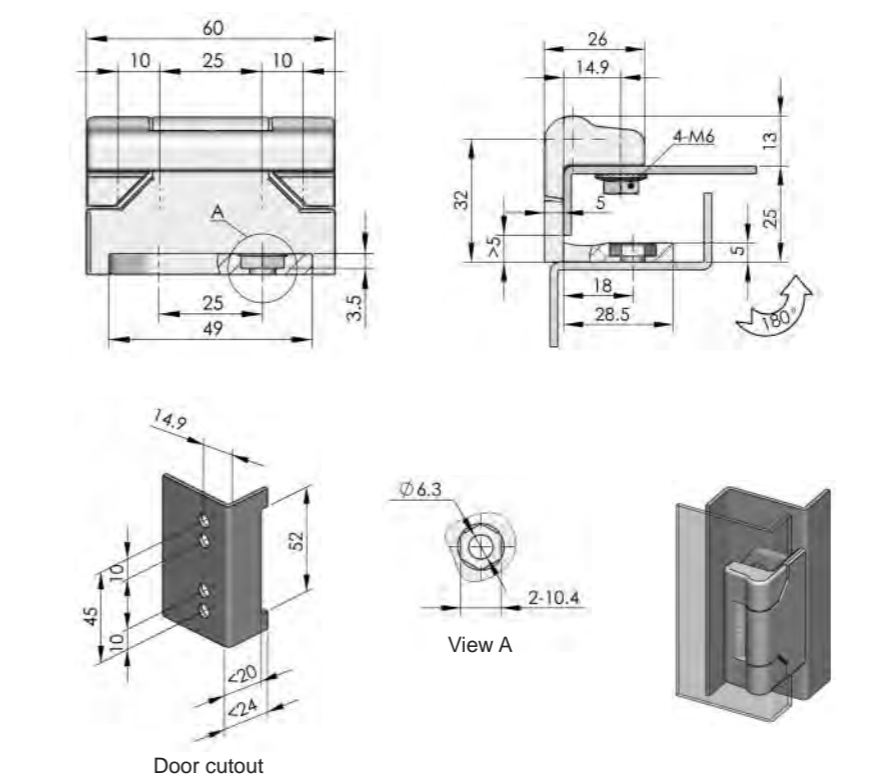


ERP	Specification	A
CL212Z1A002	Suitable door thickness, Ts=2mm	5.1
CL212Z1A005	Suitable door thickness, Ts=3mm	6.1
CL212Z1A006	Suitable door thickness, Ts=1.5mm	4.6



**CL213-1**



**Main material and finish:** Black powder coated ZDC hinge, black-plated steel pin, brass gasket  
**Application:** Opening angle 180°



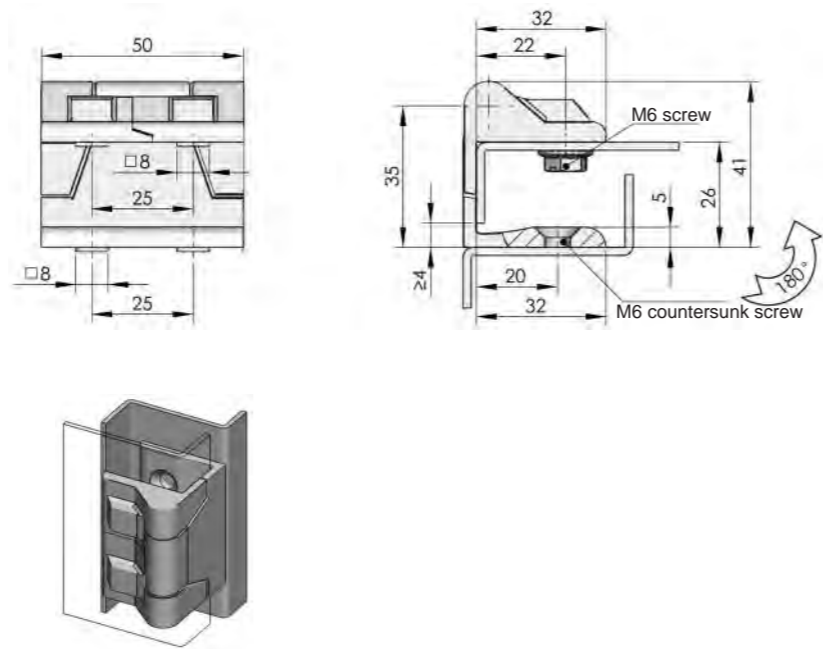
ERP	CL213Z1A001
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Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Plane lock  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket

**CL213-2**

**Main material and finish:** ZDC hinge, brass gasket and steel pin  
**Application:** Opening angle 180°

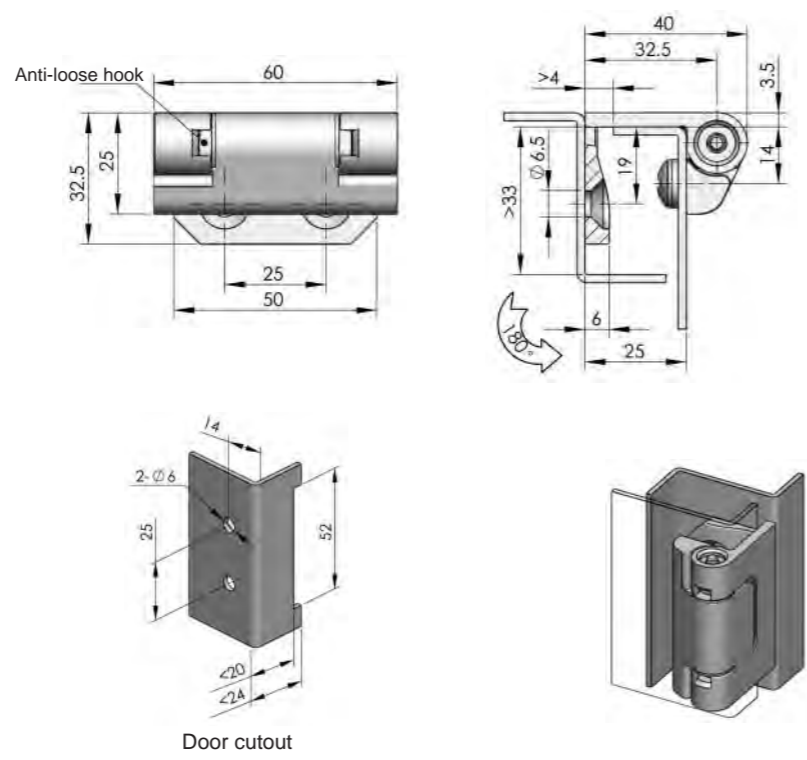


	Black powder coated	Pocked black powder coated
ERP	CL213Z1A003	CL213Z1B002

**CL213-3**






**Main material and finish:** ZDC hinge, PA shaft  
**Application:** Opening angle 180°



	Black powder coated	Pocked black powder coated
ERP	CL213Z1A004	CL213Z1B003



**CL214**

**Main material and finish:** ZDC hinge and steel pin  
**Application:** Opening angle 180°

Specification	ERP	
	CL214-1	CL214-2
Bright chrome-plated	CL214Z3A001	CL214Z3A002
Matt black powder coated	CL214Z1A001	CL214Z1A003
Pocked black powder coated	CL214Z1B001	CL214Z1B002
Nanometer painted	CL214Z2B001	CL214Z2B002

**CL215**

**Main material and finish:** White zinc plated steel hinge, PA washer  
**Application:** Opening angle 180°


ERP	CL215F3D001
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Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Plane lock  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket

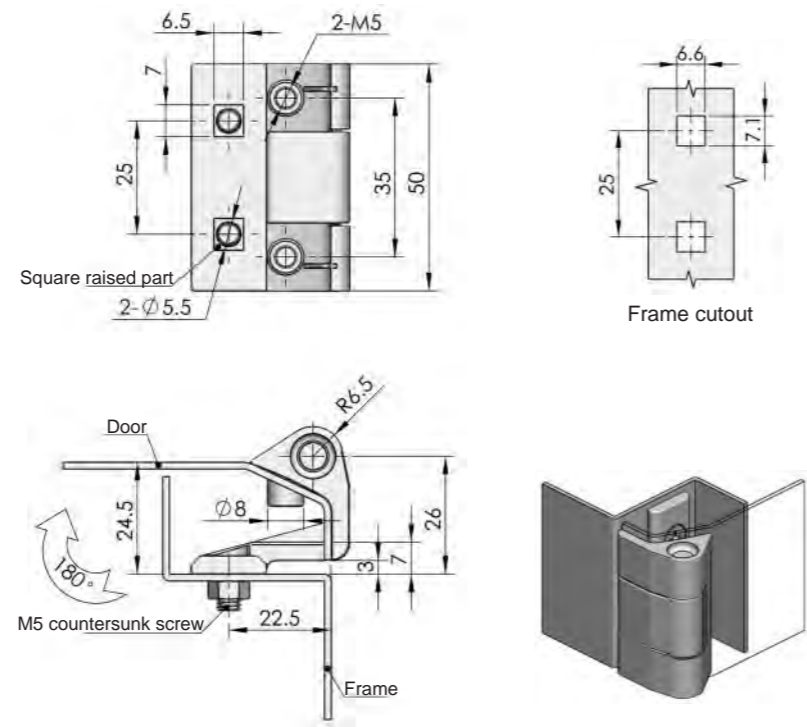



Accessories
Handle lock
Cylinder lock
Electronic lock
Plane lock
Rod control lock
Panel lock
Toggle and hook
Handles
Door stop
Hinge
Seal gasket

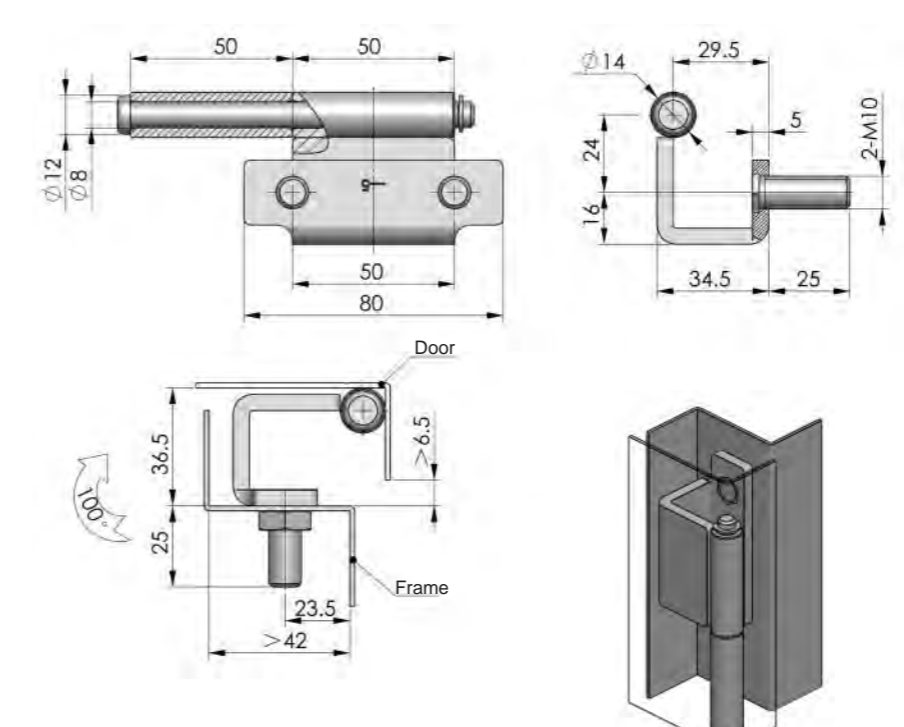
**CL216**



**Main material and finish:** Black powder coated ZDC hinge, nickel-plated steel pin  
**Application:** Opening angle 180°





**Main material and finish:** Yello Zinc-plating steel hinge




ERP CL218F3C002

**CL218-5**

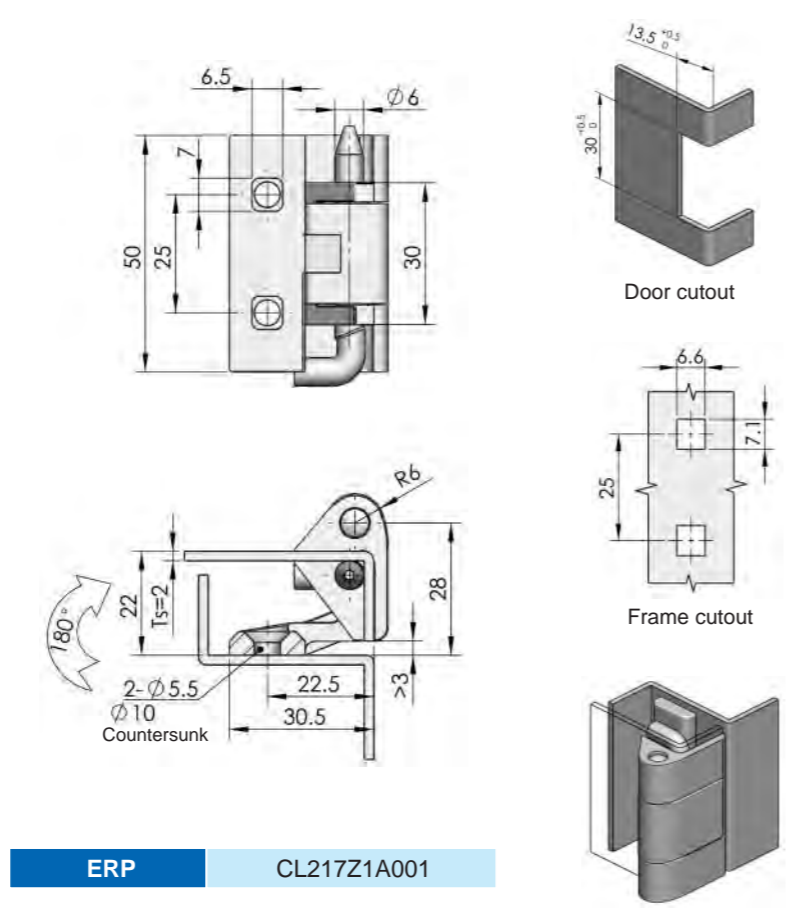



**Main material and finish:** Yello Zinc-plating steel hinge

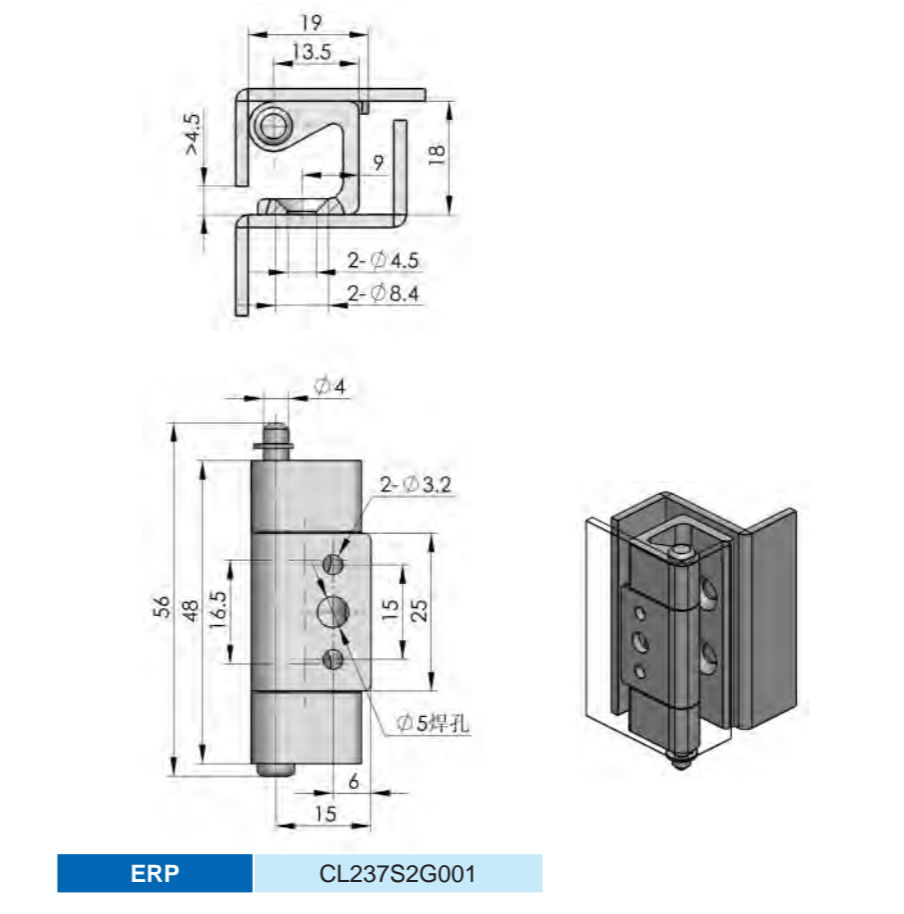
**CL217**



**Main material and finish:** Black powder coated ZDC hinge, nickel-plated steel pin  
**Application:** Opening angle 180°





**Main material and finish:** Griege painted (high salt mist resistant) female hinge, electrolysis male hinge and 316 stainless steel shaft  
**Application:** Maximum opening angle 100°  
**Remarks:** Female hinge fixed with M4 screw (not provide), male hinge fixed with riveting or welding of cabinet door



ERP CL237S2G001

**CL237-2**



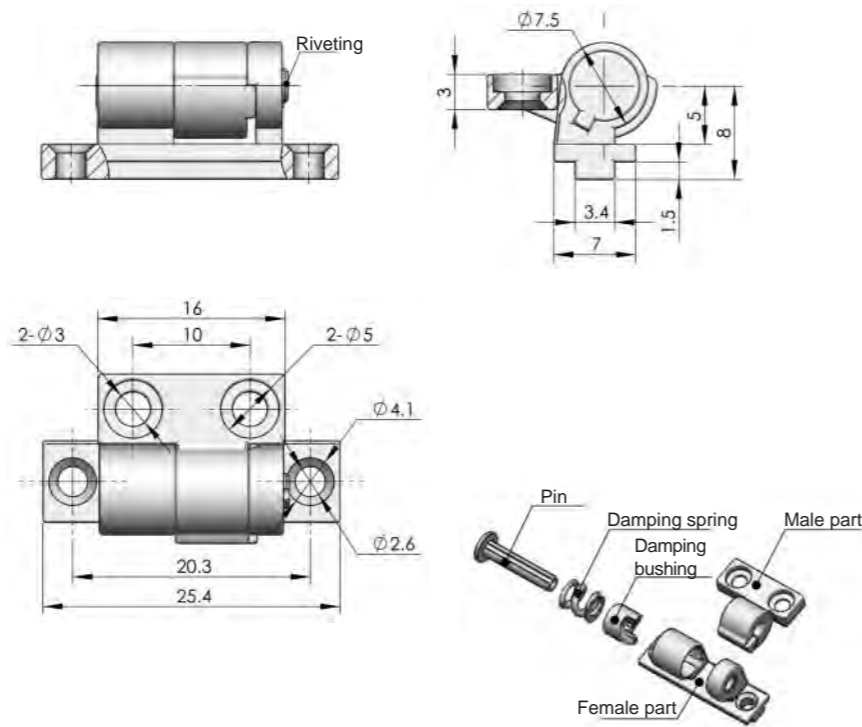
**Main material and finish:** Griege painted (high salt mist resistant) female hinge, electrolysis male hinge and 316 stainless steel shaft  
**Application:** Maximum opening angle 100°  
**Remarks:** Female hinge fixed with M4 screw (not provide), male hinge fixed with riveting or welding of cabinet door



CL220



**Main material and finish:** Gray chrome-plated ZDC hinge, nickel-plated steel pin

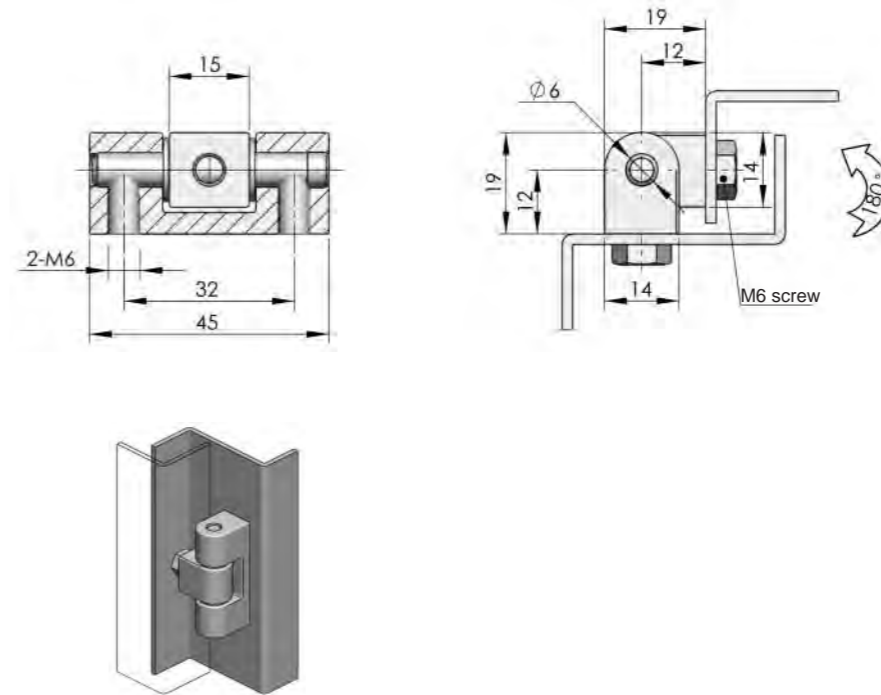


ERP	CL220Z3B001
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CL222



**Main material and finish:** ZDC hinge, nickel-plated steel pin, PA bushing  
**Application:** Opening angle 180°

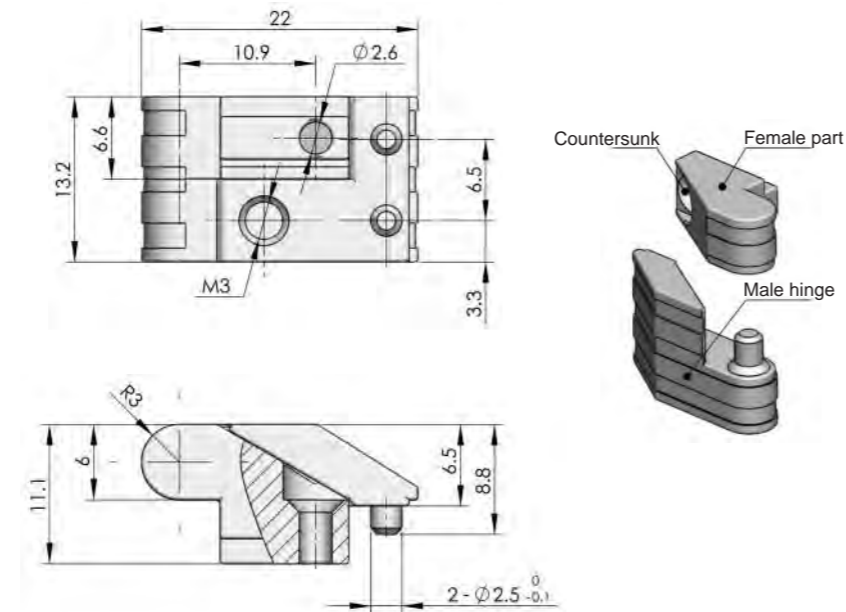


	Black powder coated	Pocked black powder coated	Bright chrome-plated	Nanometer painted
ERP	CL222Z1A001	CL222Z1B001	CL222Z3A001	CL222Z2B002

CL221



**Main material and finish:** Nanometer painted ZDC hinge

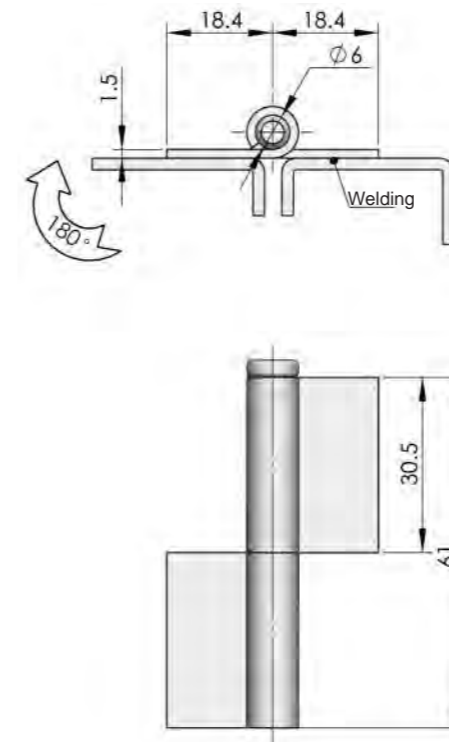


ERP	Specification
CL221Z2B001	LH applicable
CL221Z2B002	RH applicable

CL223



**Main material and finish:** White zinc plated steel hinge leaf  
**Application:** Opening angle 180°

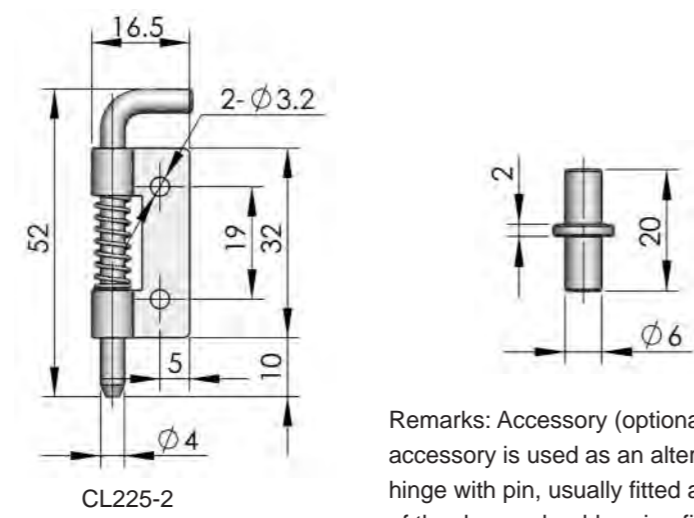
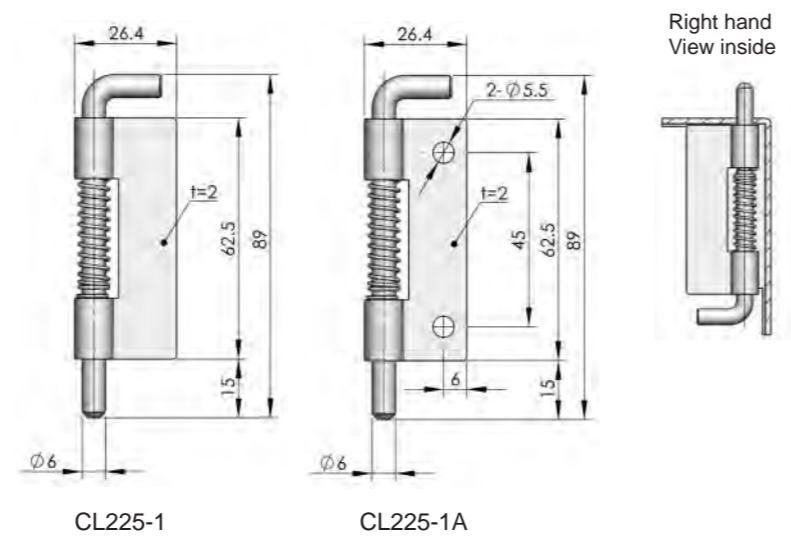


ERP	CL223F3D001
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Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Plane lock  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket

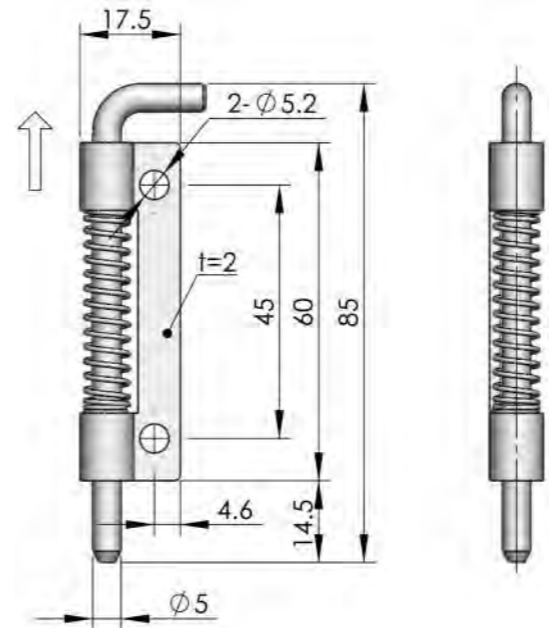


**Main material and finish:** White zinc plated steel hinge leaf

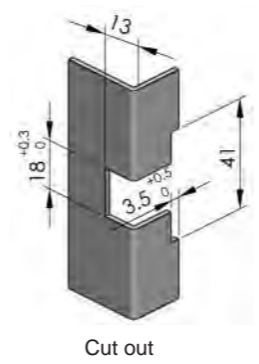
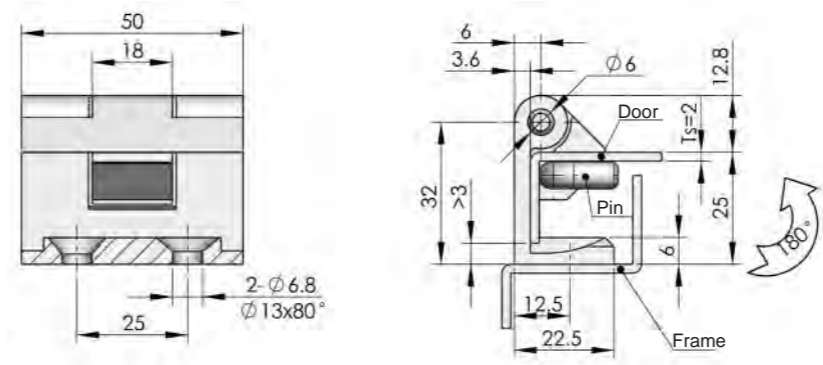


Remarks: Accessory (optional) This accessory is used as an alternative to the hinge with pin, usually fitted at the bottom of the door as load-bearing fixing door

Model	ERP	
	Left hand	Right hand
CL225-1	CL225F3D001	CL225F3D004
CL225-1A	CL225F3D008	CL225F3D007
CL225-2	CL225F3D011	CL225F3D012



	LH	RH
ERP	CL225F3D022	CL225F3D019



ERP	CL264Z1A001
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**Nylon pin (Optional)**

Anti-loose hook

Part No.	L
PN001	57
PN002	78



**Main material and finish:** White zinc plated steel hinge leaf



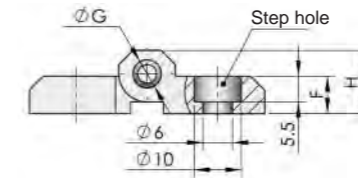
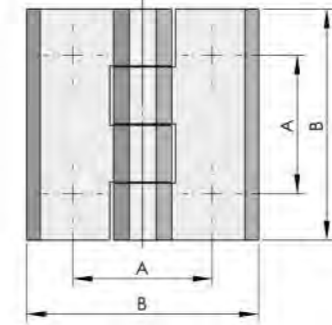
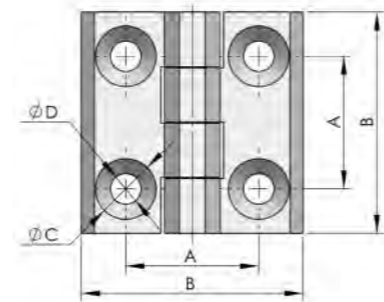
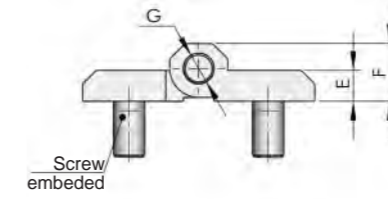
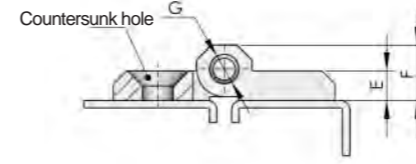
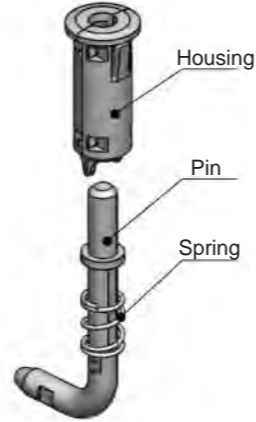
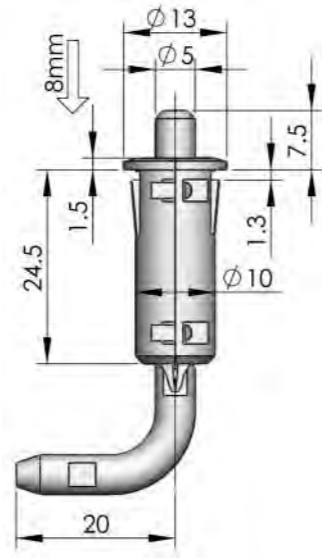
**Main material and finish:** Black powder coated ZDC hinge, stainless steel gasket, nickel plated steel pin  
**Application:** Opening angle 180°

Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Plane lock  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket

CL225-5



**Main material and finish:** Black PA hosing, white zinc-plated ZDC latch, stainless steel spring  
**Application:** Telescopic 8mm



CL226



CL226-1



CL226-2



CL226-3



CL226-2A

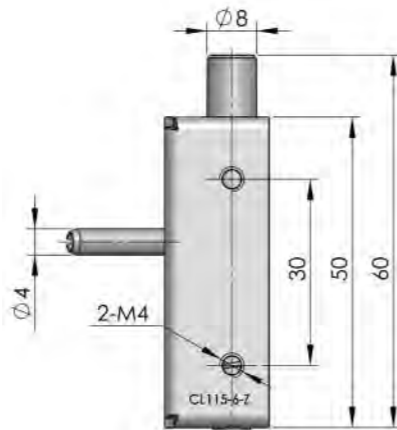
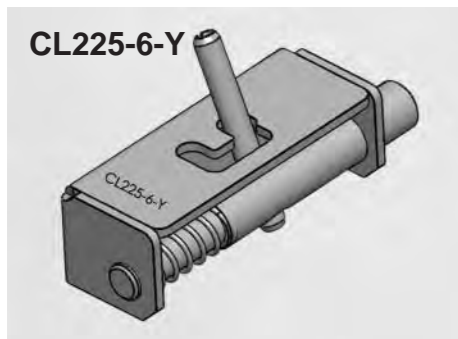


**Main material and finish:** Black powder coated ZDC hinge, nickel-plated steel pin  
**Application:** Opening angle 180°

CL225-6-Z



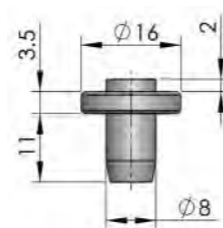
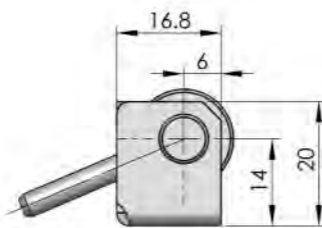
CL225-6-Y



Left hinge



Right hinge



Fixing shaft (Accessories)


	CL225-6-Z	CL225-6-Y
ERP	CL225F3D024	CL225F3D025

Model	ERP	Specification							Remarks
		A	B	C	D	E	F	G	
CL226-1	CL226Z1A001	36	60	16.5	8.4	8	15	8	Countersunk hole,ZDC
CL226-1A	CL226Z1A006	36	60	16.5	8.4	8	15	8	Screw embedded, ZDC
CL226-1B	CL226S9C001	36	60	16.5	8.4	8	15	8	Countersunk hole,stainless steel
CL226-2	CL226Z1A009	30	50	12.5	6.3	6	11.5	6	Countersunk hole,ZDC
CL226-2A	CL226Z1A010	30	50	Refer to detailed drawing	6	11.5	6	6	Screw embedded, ZDC
CL226-2C	CL226Z1A011	30	50	Refer to detailed drawing	6	11.5	6	6	Step hole,ZDC
CL226-2S	CL226N00001	30	50	12.5	6.3	6	11.5	6	Countersunk hole,PA
CL226-2B	CL226S4B001	30	50	12.5	6.3	6	11.5	6	Countersunk hole,stainless steel
CL226-3	CL226Z1A015	25	40	10.2	5.3	5	9	4	Countersunk hole,ZDC
CL226-3A	CL226Z1A017	25	40	10.2	5.3	5	9	4	Screw embedded, ZDC

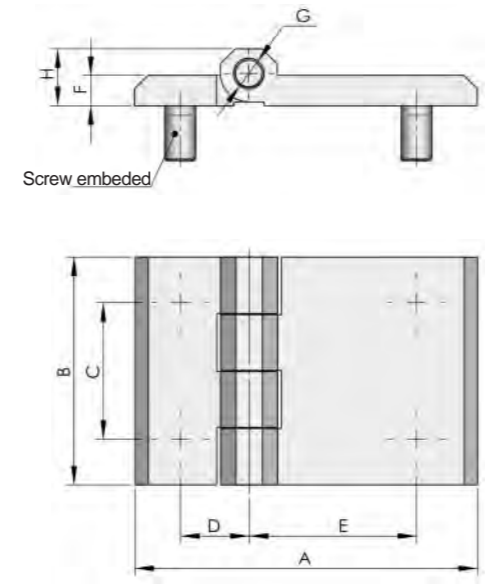
Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Plane lock  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket



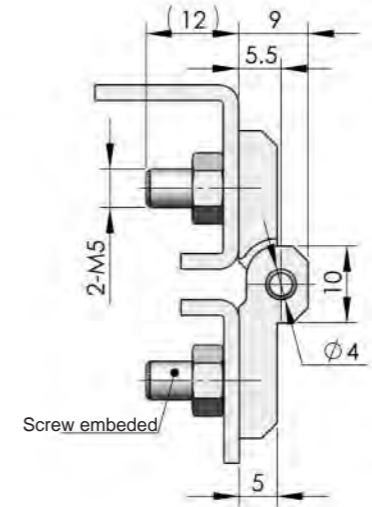
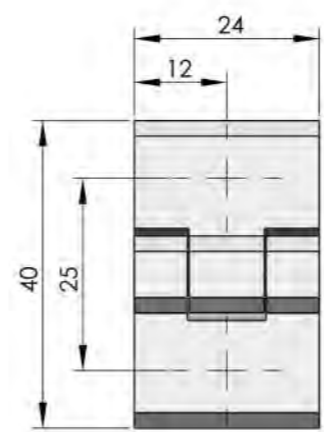
**CL226-4A**



**Main material and finish:** Black powder coated ZDC hinge, nickel-plated steel pin  
**Application:** Opening degree 180°




Model	ERP	Specification								Remarks
		A	B	C	D	E	F	G	H	
CL226-4-1	CL226Z1A019	90	60	36	18	44	8	8	15	Ø8.4 Countersunk hole, ZDC
CL226-4A-1	CL226Z1A020	90	60	36	18	44	8	8	15	M8 Screw embedded, ZDC
CL226-4-2	CL226Z1A021	63	50	30	15	28	6	6	11.5	Ø6.3 Countersunk hole, stainless steel
CL226-4A-2	CL226Z1A022	63	50	30	15	28	6	6	11.5	M6 Screw embedded, ZDC



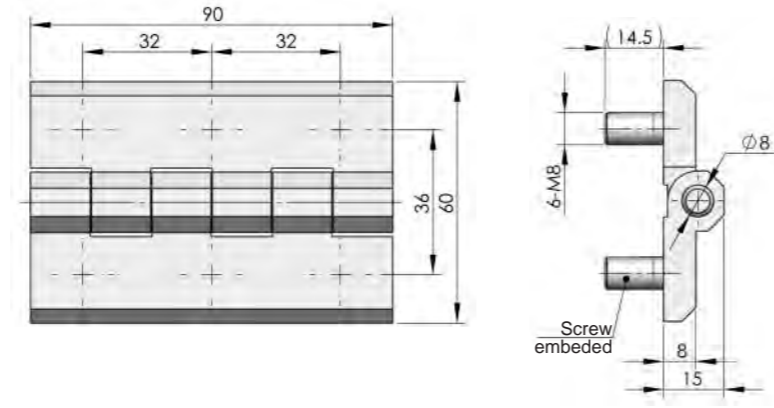
ERP CL226Z1A026



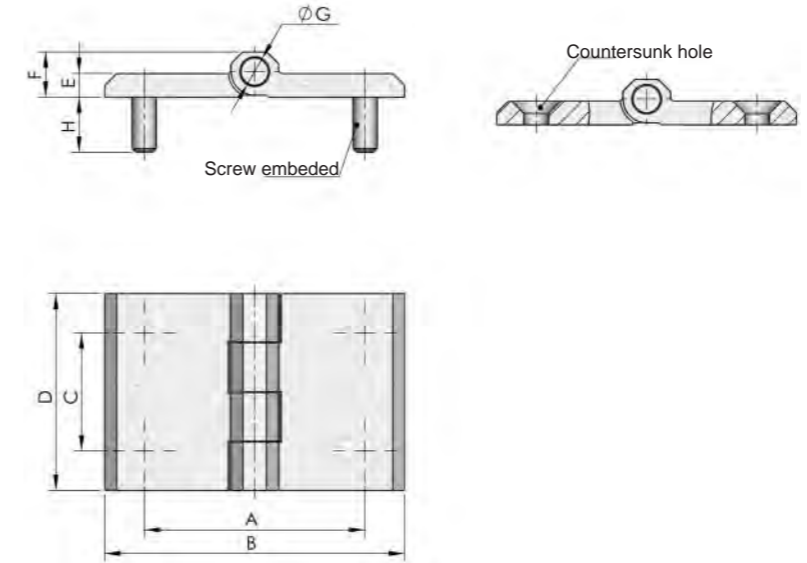
**CL226-5A**



**Main material and finish:** Black powder coated ZDC hinge, nickel-plated steel pin  
**Application:** Opening angle 180°



	<b>CL226-5A-Z LH</b>	<b>CL226-5A-Y RH</b>
ERP	CL226Z1A024	CL226Z1A025



Model	ERP	Specification								Remarks
		A	B	C	D	E	F	G	H	
CL226-7-1	CL226Z1A028	56	76	30	50	6	11.5	6		Ø6.3 Countersunk hole, ZDC
CL226-7A-1	CL226Z1A029	56	76	30	50	6	11.5	6	12.5	M6 Screw embedded, ZDC
CL226-7-2	CL226Z1A034	88	120	36	60	8	15	8		Ø6.8 Countersunk hole, ZDC
CL226-7A-2	CL226Z1A030	88	120	36	60	8	15	8	16.5	M8 Screw embedded, ZDC



**CL226-6A**



**Main material and finish:** Black powder coated ZDC hinge, nickel-plated steel pin  
**Application:** Opening angle 180°



**CL226-7**  
**CL226-7A**





**Main material and finish:** Black powder coated ZDC hinge, nickel-plated steel pin  
**Application:** Opening angle 180°

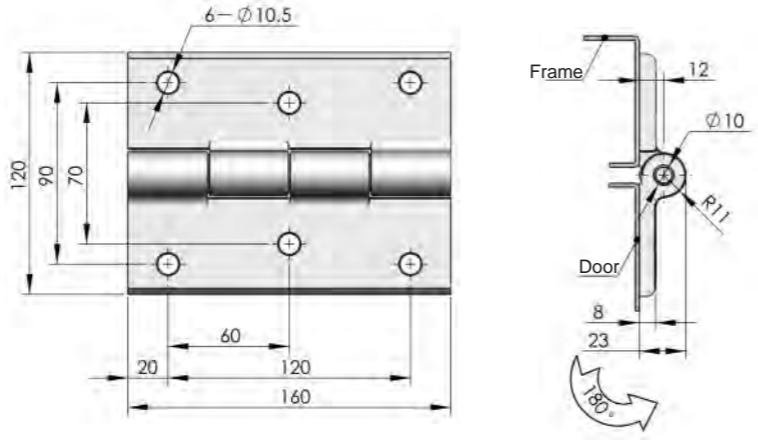

Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Plane lock  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket

Accessories
Handle lock
Cylinder lock
Electronic lock
Plane lock
Rod control lock
Panel lock
Toggle and hook
Handles
Door stop
Hinge
Seal gasket

**CL226-8**






**Main material and finish:** Nanometer painted steel hinge leaf, shaft  
**Application:** Opening angle 180°

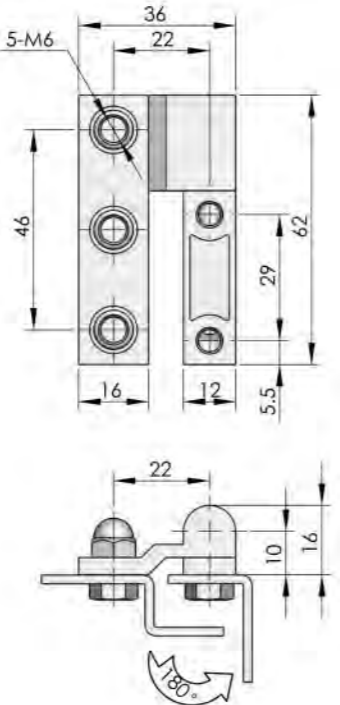
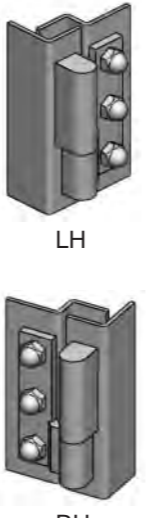



**ERP** CL226F2B001

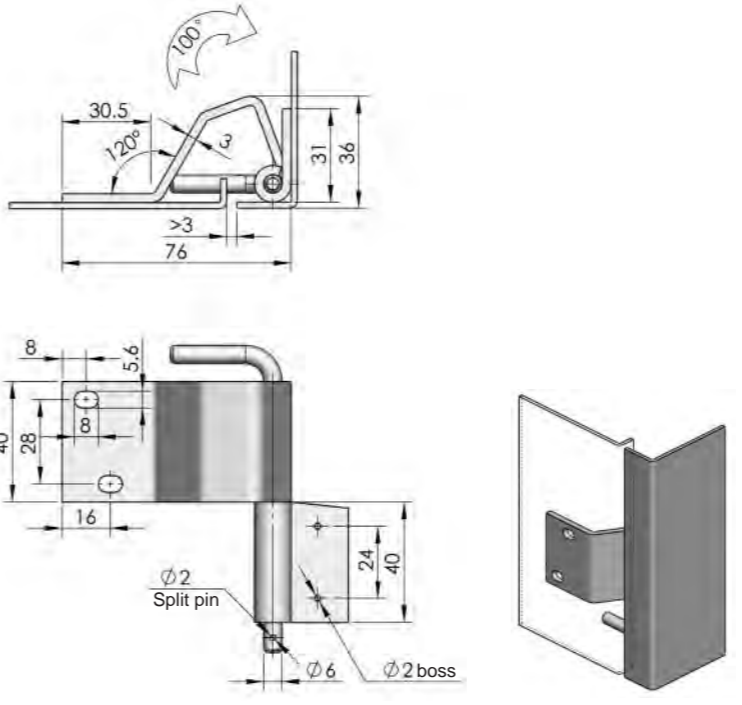
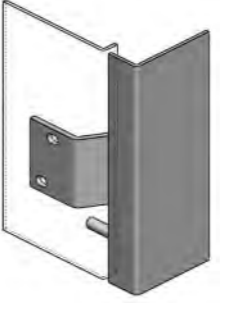
**CL228**

**Main material and finish:** Black powder coated ZDC hinge, nickel-plated steel pin  
**Application:** Opening angle 180°






**ERP** CL228Z1A001      CL228Y1A002

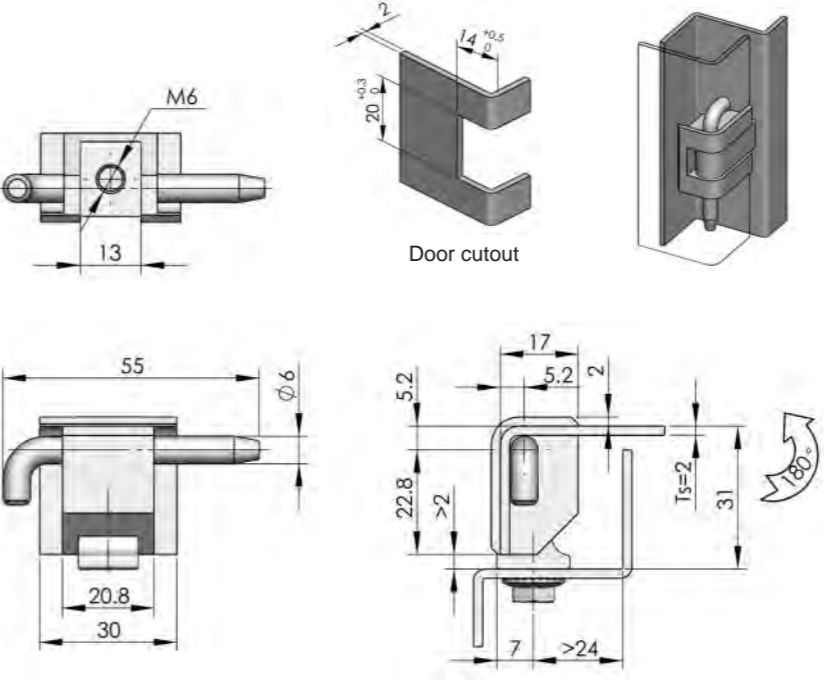
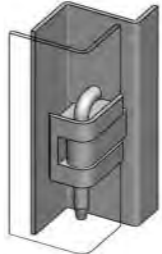



**ERP** CL229F3D001

**CL229**



**Main material and finish:** White zinc-plated steel hinge  
**Application:** Opening angle 180°

Remarks: Nylon pin optional, details refer to CL230

**ERP** CL230Z1A026

**CL230-3**

**Main material and finish:** Black powder coated ZDC hinge, nickel-plated steel pin  
**Application:** Opening angle 180°

CL230

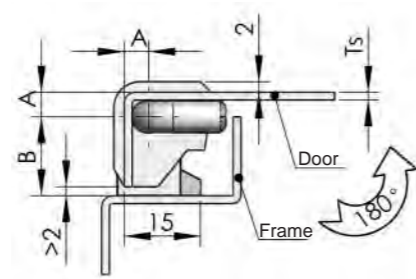
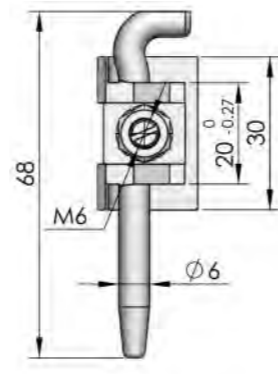
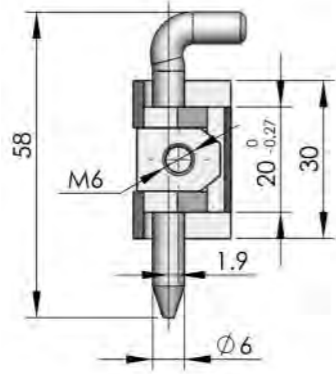


**Main material and finish:** Black powder coated ZDC hinge, nickel-plated steel pin  
**Application:** Opening angle 180°

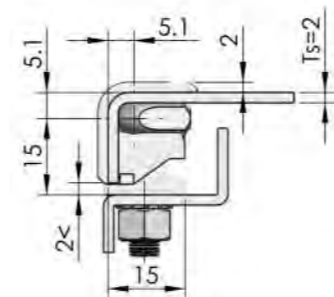
CL230-4



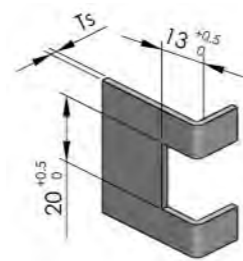
**Main material and finish:** Wire-drawing polishing stainless steel hinge  
**Application:** Opening angle 180°



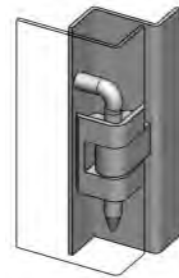
CL230



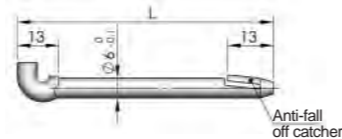
CL230-4



Door cutout



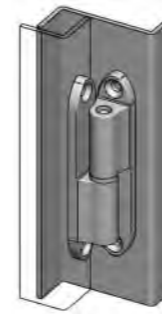
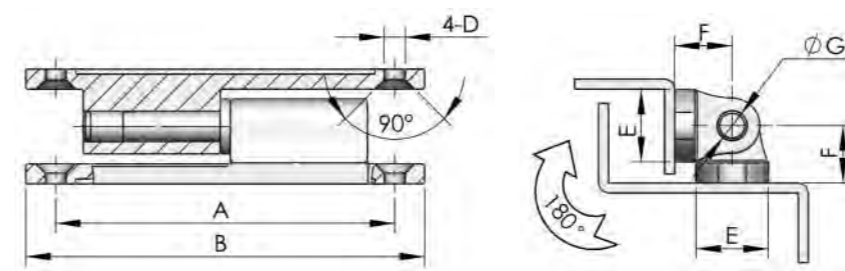
Nylon pin (Optional)



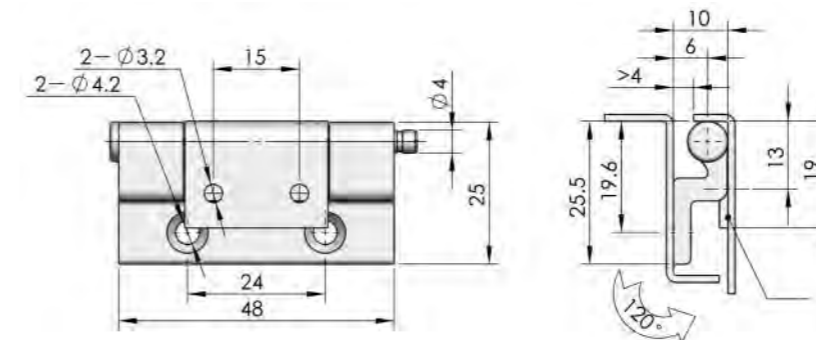
Part No.	L
PN001	57
PN002	78

ERP CL230S4B001

Model	ERP	Specification		
		Ts	A	B
CL230-1	CL230Z1A001	Ts=1.5	4.6	15
CL230-2	CL230Z1A013	Ts=2	5.1	15
CL230-1A	CL230Z1A004	Ts=1.5	4.6	17
CL230-2A	CL230Z1A016	Ts=2	5.1	17
CL230-1B	CL230Z1A007	Ts=1.5	4.6	19
CL230-2B	CL230Z1A019	Ts=2	5.1	19



Model	ERP	Specification						
		A	B	C	D	E	F	G
CL231-1	CL231Z3A001	68	80	Ø8	Ø4.2	14.5	11.5	Ø6



ERP CL232Z3H001

CL231-1



**Main material and finish:** Bright chrome plated ZDC hinge, nickel-plated steel pin, brass gasket  
**Application:** Opening angle 180°

CL232



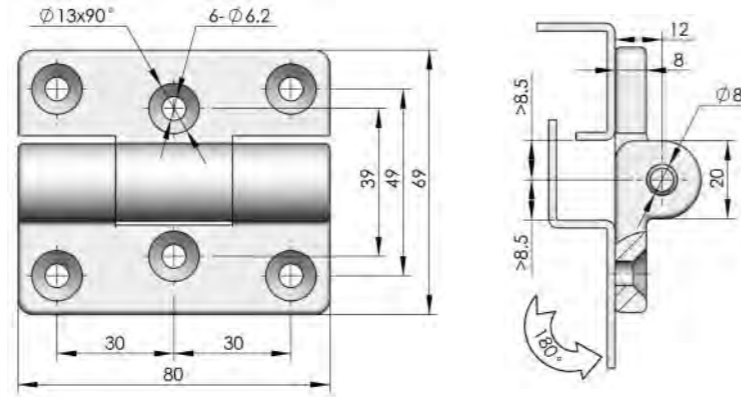
**Main material and finish:** Sand-spraying and bright chrome-plated ZDC female hinge, white zinc-plated steel male hinge, nickel plated steel pin  
**Application:** Opening angle 120°



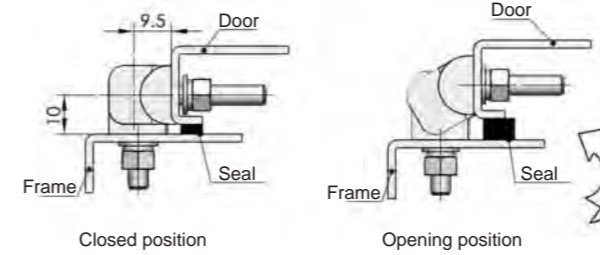
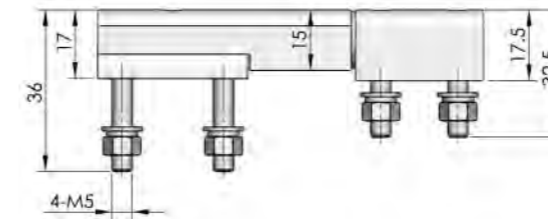
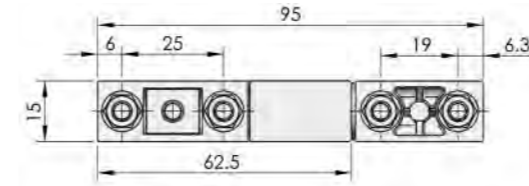
CL233



**Main material and finish:** Electrolysis or polishing stainless steel hinge  
**Application:** Opening angle 120°



ERP CL233S9C001



ERP CL235Z1B001

CL235

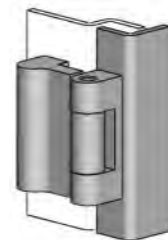
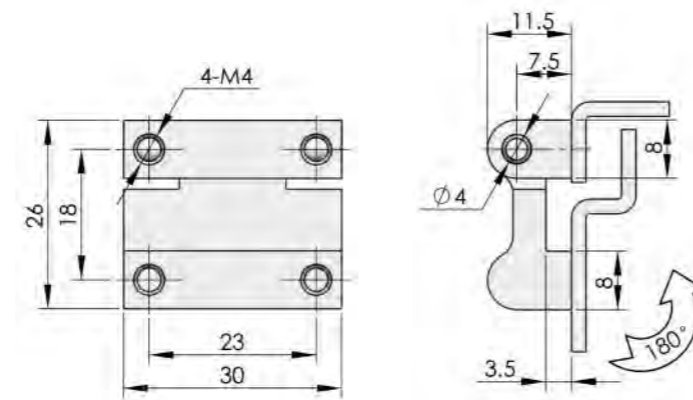


**Main material and finish:** Pocked black powder coated ZDC hinge, stainless steel screw  
**Application:** Opening angle 180°

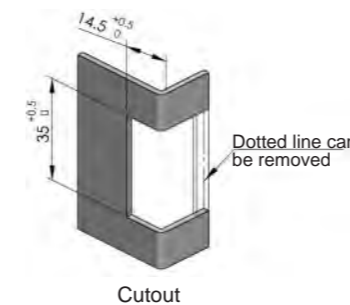
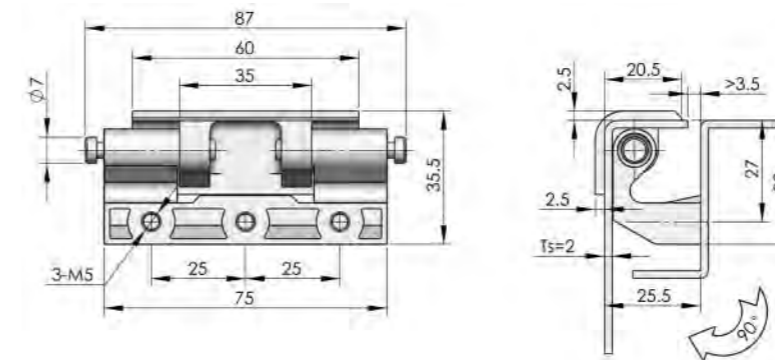
CL234



**Main material and finish:** Black powder coated ZDC hinge, nickel-plated steel pin  
**Application:** Opening angle 180°



	Black powder coated	Nanometer painted
ERP	CL234Z1A001	CL234Z2B001



	Black painted	Nanometer painted
ERP	CL236Z2A001	CL236Z2B001

CL236

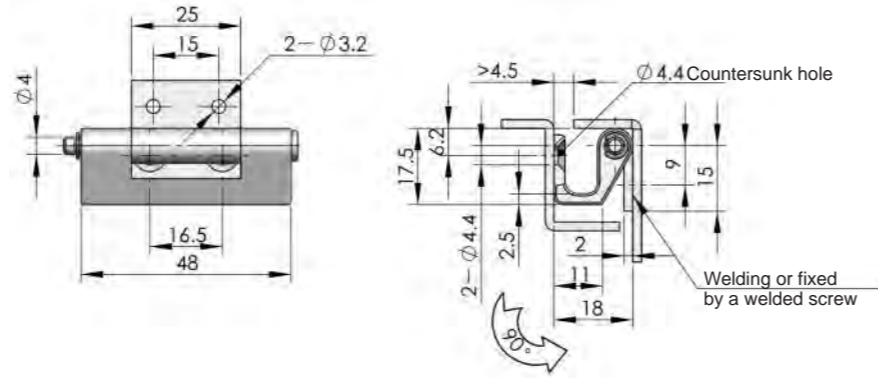


**Main material and finish:** Black painted ZDC hinge, white zinc-plated steel pin  
**Application:** Opening angle 180°

**CL237**



**Main material and finish:** Sand-spraying and nickel-plated ZDC female hinge, white zinc-plated steel male hinge, nickel plated steel pin  
**Application:** Opening angle 90°

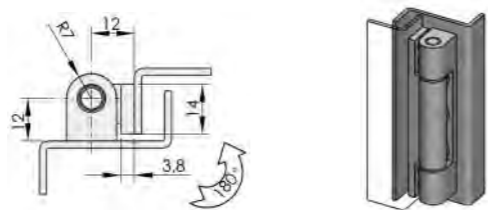
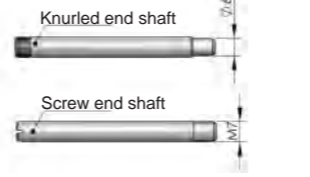
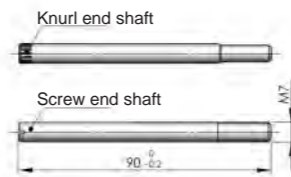
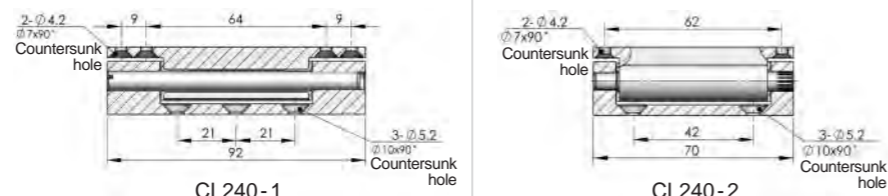


	Sand-spraying and bright chrome-plated	Sand-spraying and nickel-plated
ERP	CL237Z3H001	CL237Z3I001

**CL240-1**  
**CL240-2**

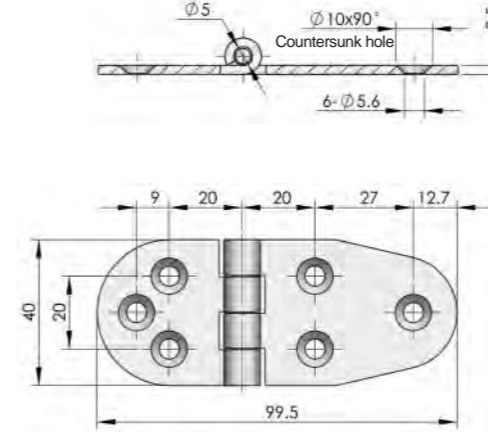


**Main material and finish:** Oxidation aluminum alloy hinge, stainless steel shaft, nickel-plated steel pin  
**Application:** Opening angle 180°

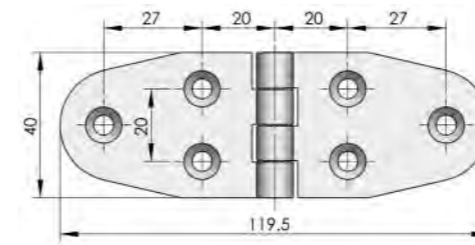


Model	ERP	Specification
CL240-1	CL240A9A001	With knurl end shaft
CL240-1D	CL240A9A002	With screw end shaft
CL240-2	CL240A9A003	With knurl end shaft
CL240-2D	CL240A9A004	With screw end shaft

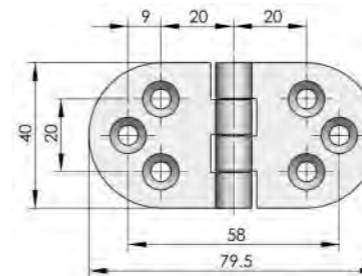
**CL238**



ERP CL238S9C001



ERP CL238S9C002



ERP CL238S9C003

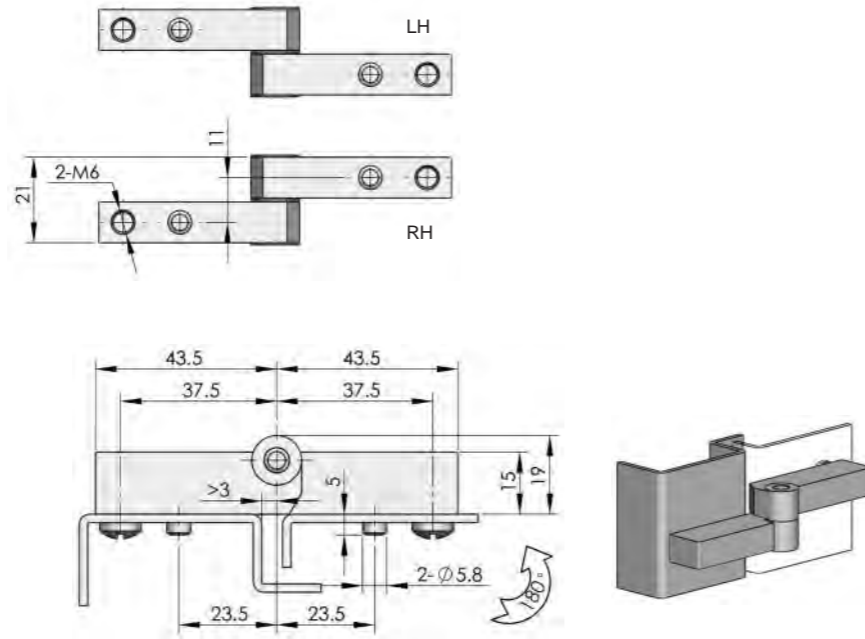


**Main material and finish:** Electrolysis stainless steel hinge  
**Application:** Opening angle 180°

**CL242**



**Main material and finish:** Pocked black powder coated ZDC hinge, nickel plated steel pin  
**Application:** Opening angle 180°

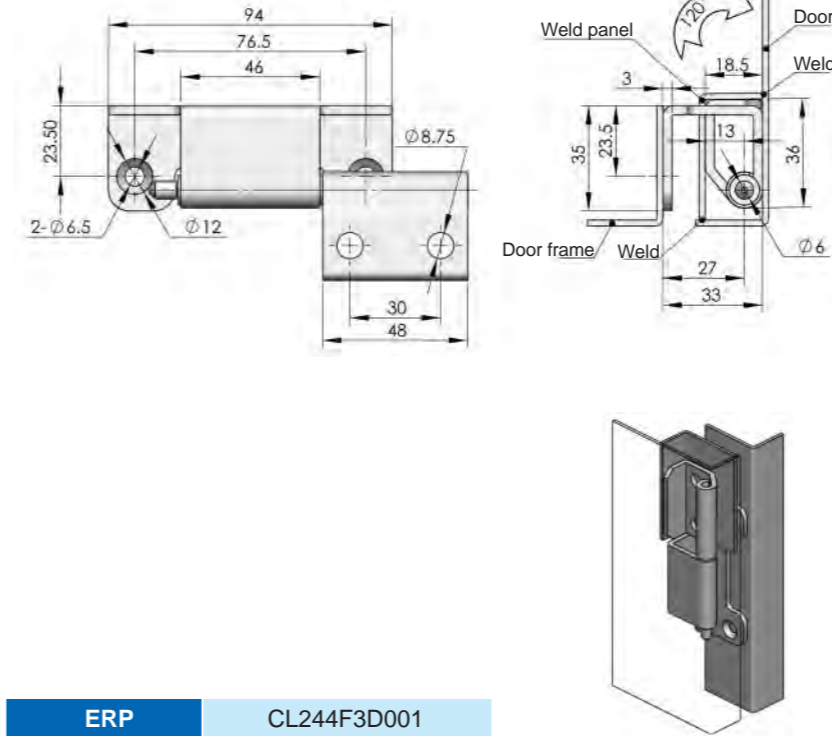


	<b>CL242-Z LH</b>	<b>CL242-Y RH</b>
<b>ERP</b>	CL242Z1B001	CL242Z1B002

**CL244**



**Main material and finish:** White zinc plated steel hinge and pin  
**Application:** Opening angle 120°

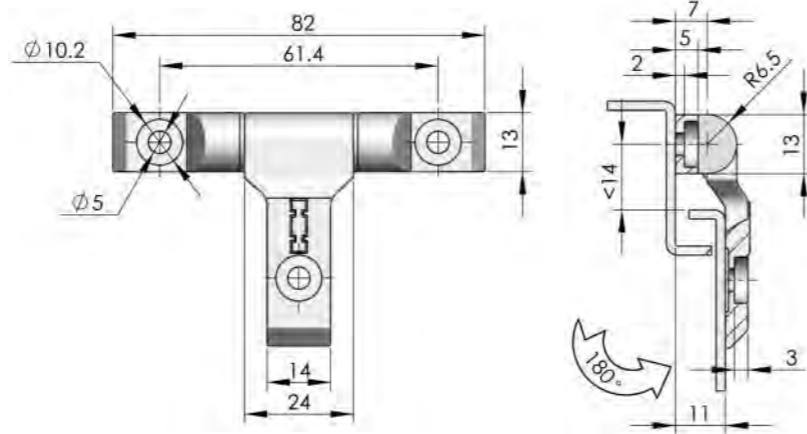


<b>ERP</b>	CL244F3D001
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**CL243**



**Main material and finish:** ZDC hinge, nickel-plated steel pin, plastic gasket  
**Application:** Opening angle 180°

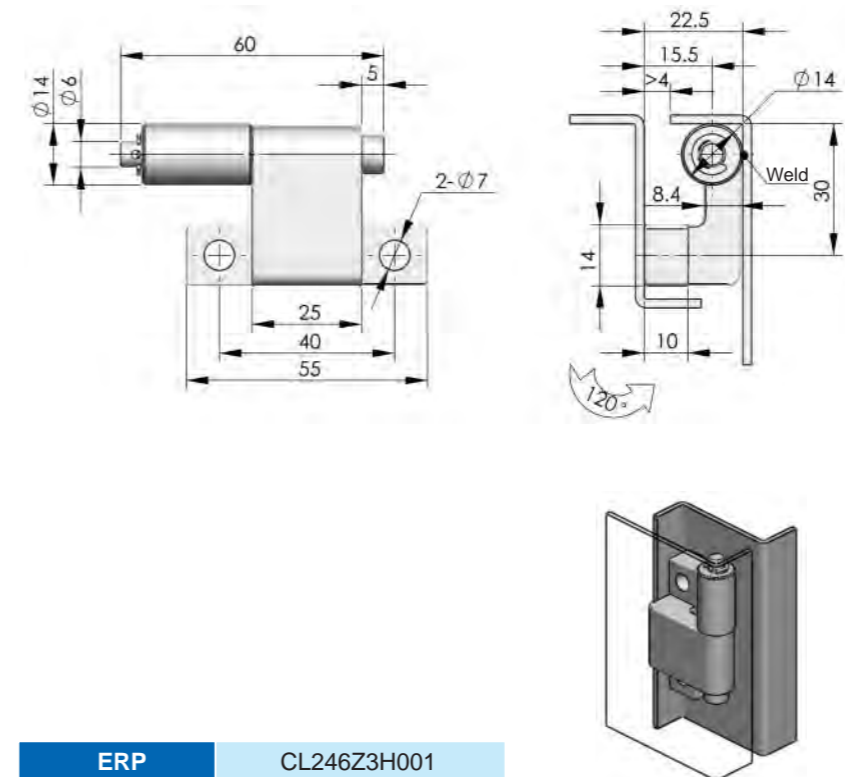


	<b>Black powder coated</b>	<b>Pocked black powder coated</b>	<b>Nanometer painted</b>
<b>ERP</b>	CL243Z1A001	CL243Z1B001	CL243Z2B001

**CL246**



**Main material and finish:** Sand-spraying and bright chrome-plated ZDC hinge, white zinc-plated steel pin  
**Application:** Opening angle 120°

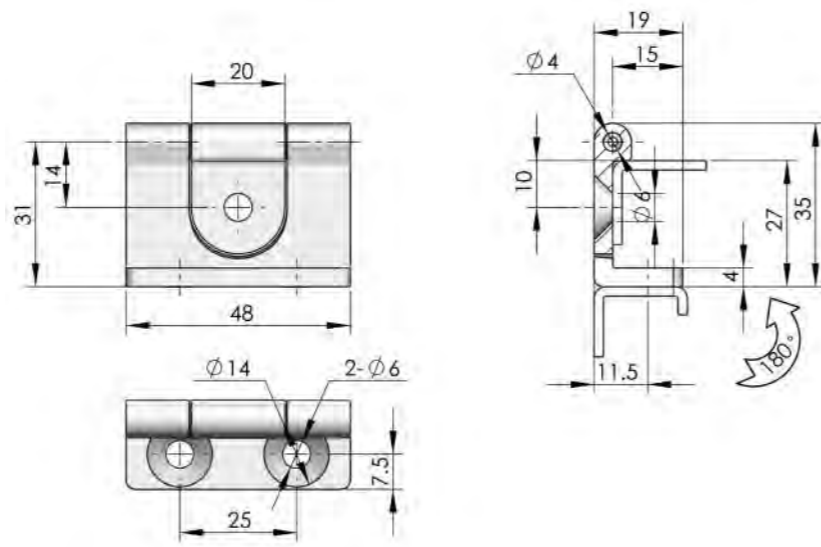


<b>ERP</b>	CL246Z3H001
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**CL247**



**Main material and finish:** Black powder coated ZDC hinge, white zinc-plated steel pin  
**Application:** Opening angle 180°

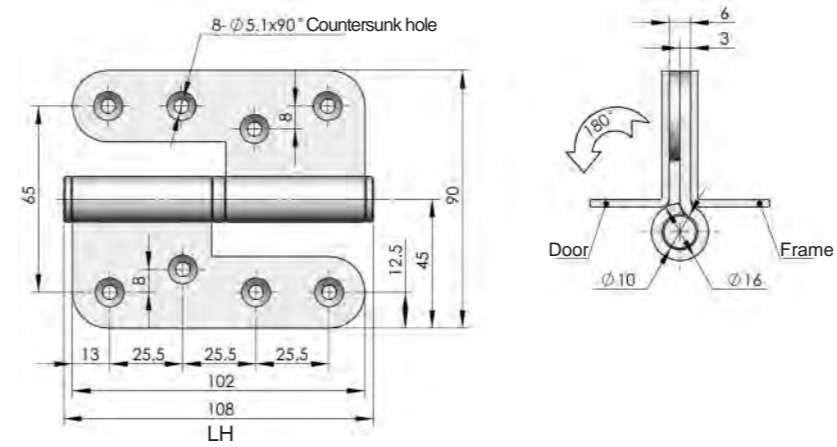


ERP	CL247Z1A001
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**CL249**



**Main material and finish:** Steel or stainless steel hinge  
**Application:** Opening angle 180°

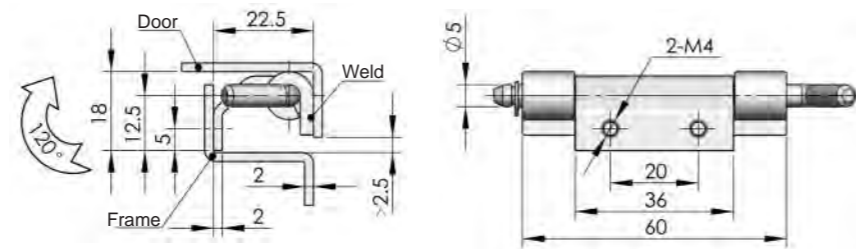


Specification	LH		RH	
	Model	ERP	Model	ERP
White zinc-plated steel hinge	CL249-1-Z	CL249F3D001	CL249-1-Y	CL249F3D002
Wiredrawing polishing stainless steel hinge	CL249-1B-Z	CL249S4B004	CL249-1B-Y	CL249S4B003

**CL248**



**Main material and finish:** White zinc plated steel and pin  
**Application:** Opening angle 120°

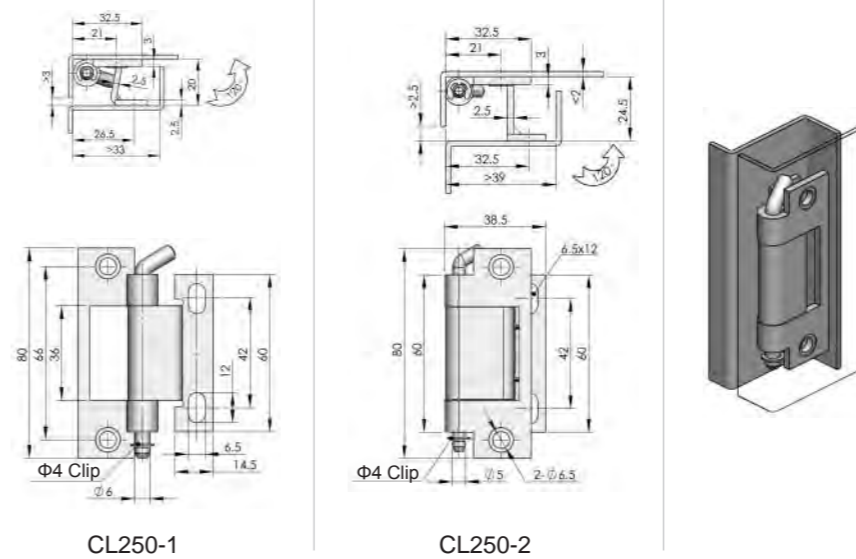


ERP	CL248F3D001
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**CL250-1  
CL250-2**



**Main material and finish:** White zinc plated steel hinge and pin



ERP	CL250-1	CL250-2
	ERP	CL250F3D001



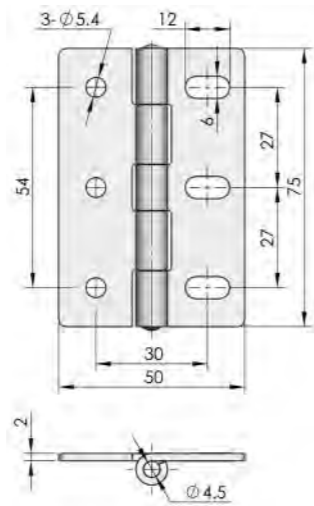
Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Plane lock  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket

CL253-2  
CL253-3



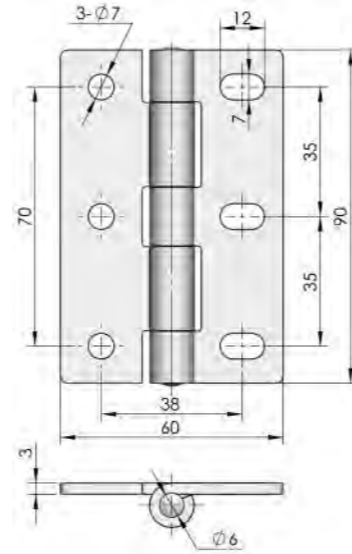
**Main material and finish:** Mirror polishing stainless steel hinge  
**Application:** Opening angle 180°

CL253-2

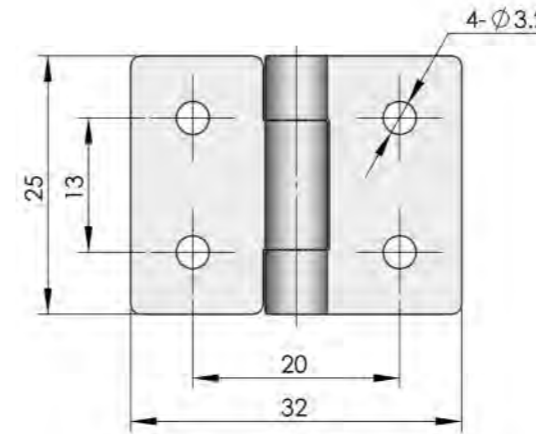
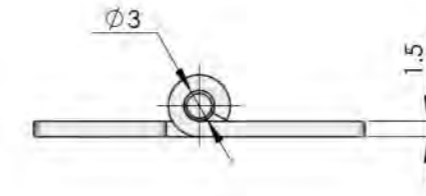


ERP CL253S4A002

CL253-3



ERP CL253S4A003



ERP CL253S4A011

CL253-4A

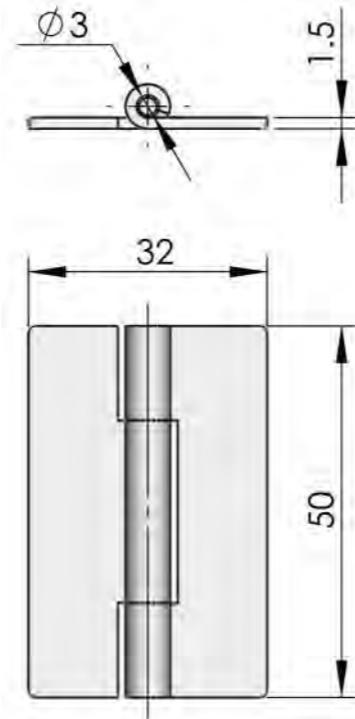


**Main material and finish:** Mirror polishing stainless steel hinge  
**Application:** Opening angle 180°

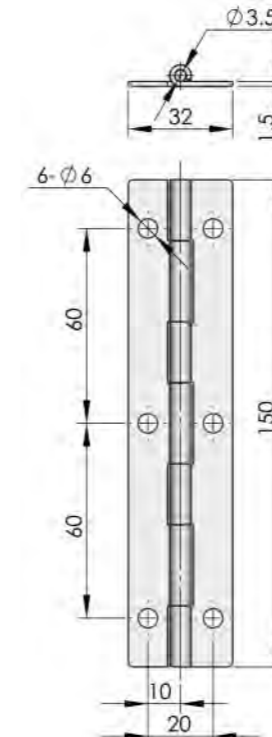
CL253-4



**Main material and finish:** Mirror polishing stainless steel hinge  
**Application:** Opening angle 180°



ERP CL253S4A004



ERP CL253F3D001

CL253-5



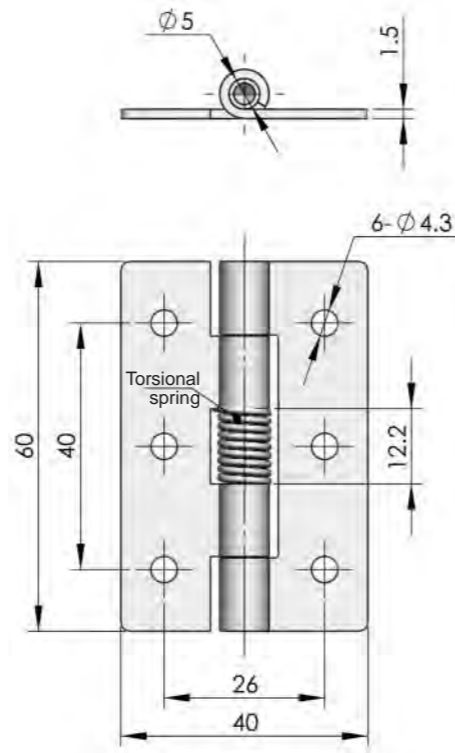
**Main material and finish:** White zinc-plated steel hinge  
**Application:** Opening angle 180°

**CL253-6**

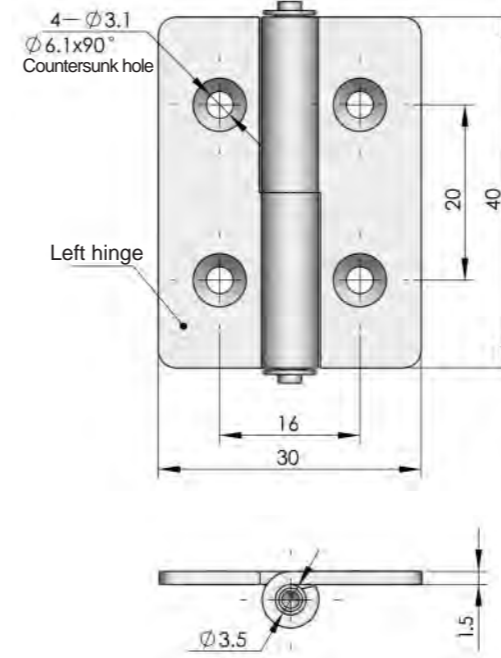


**INOX**  
AISI  
3..

**Main material and finish:** Mirror polishing stainless steel hinge  
**Application:** Opening angle 180°

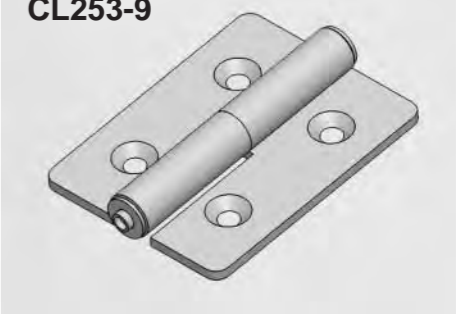


ERP	CL253S4A005
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	CL253-9-Z RH	CL253-9-Y LH
ERP	CL253S4A008	CL253S4A009

**CL253-9**



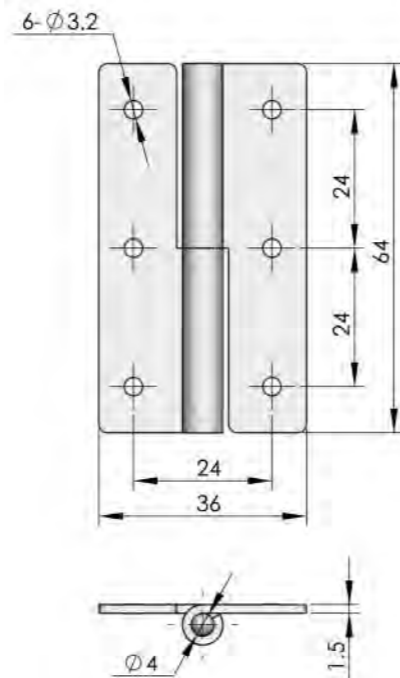
**Main material and finish:** Stainless steel hinge leaf and shaft  
**Application:** Opening angle 180°

**CL253-7**

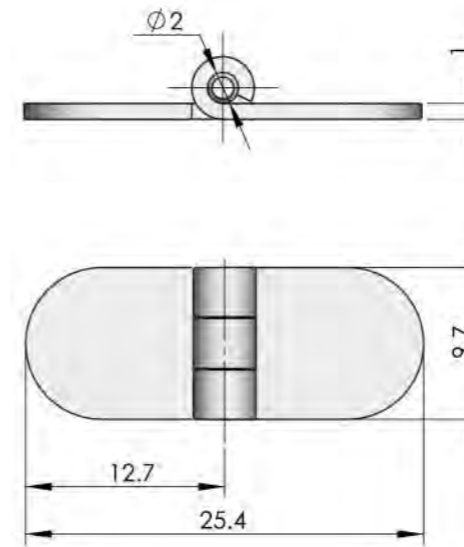


**INOX**  
AISI  
3..

**Main material and finish:** Mirror polishing stainless steel hinge  
**Application:** Opening angle 180°



	RH	LH
ERP	CL253S4A006	CL253S4A007



ERP	CL253S4A010
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**CL253-10**



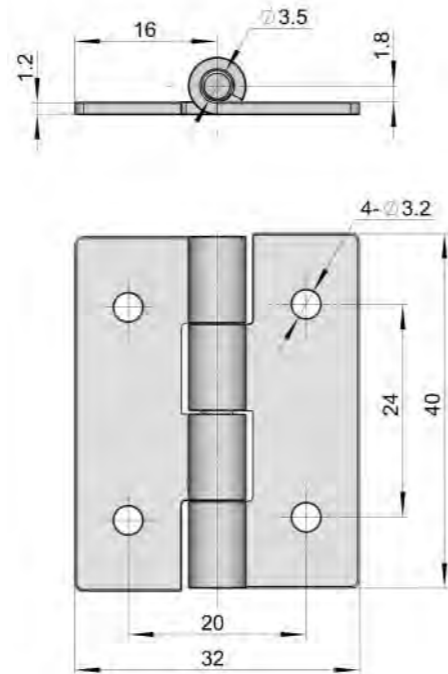
**Main material and finish:** Mirror stainless steel hinge and stainless steel shaft  
**Application:** Opening angle 180°

Accessories
Handle lock
Cylinder lock
Electronic lock
Plane lock
Rod control lock
Panel lock
Toggle and hook
Handles
Door stop
Hinge
Seal gasket

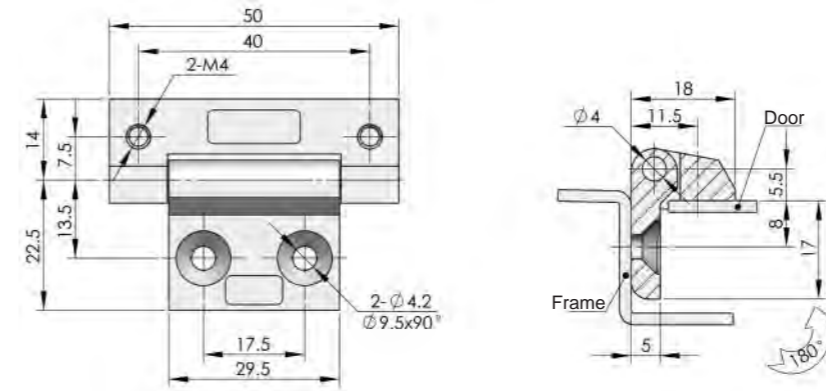
**CL253-20**



**Main material and finish:** 304 stainless steel  
**Application:** Opening angle 180°



ERP CL253S4A037



ERP CL254Z1A001

**CL254**

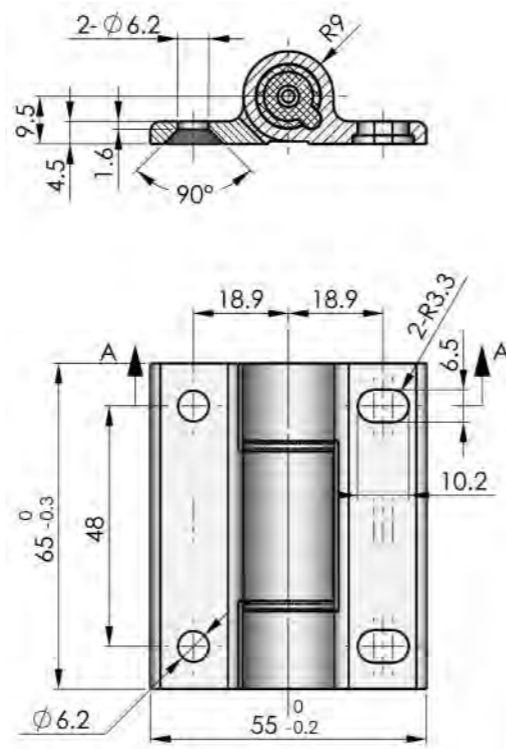


**Main material and finish:** Black powder coated ZDC hinge, nickel plated steel pin  
**Application:** Opening angle 180°

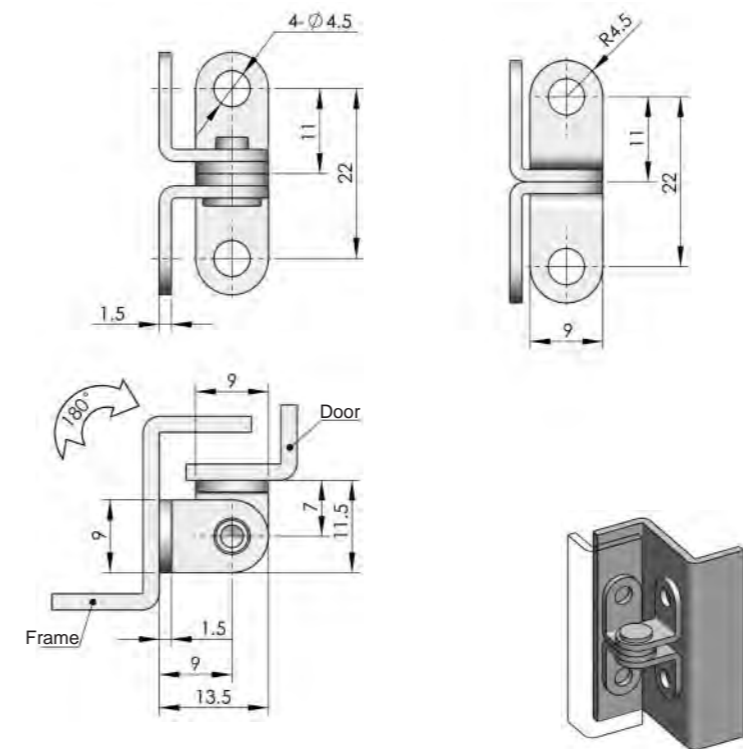
**CL253-23**



**Main material and finish:** Aluminum alloy hinge, POM shaft  
**Application:** The hinge is damping hinge with bolt adjustable damping force



ERP CL253A9A001



ERP CL256F3D001

**CL256**



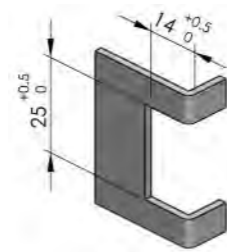
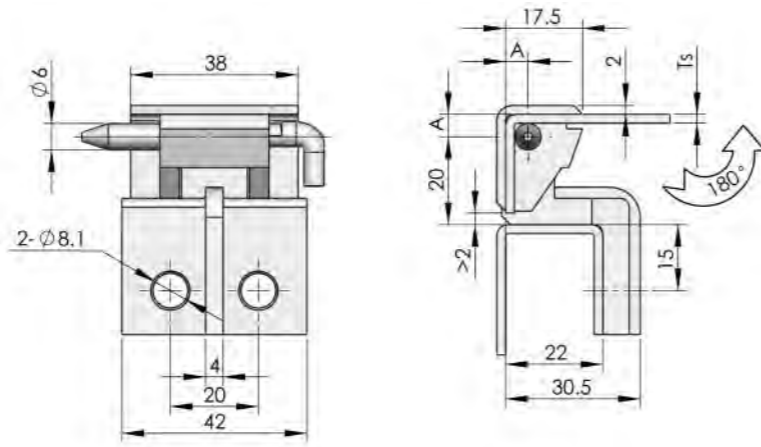
**Main material and finish:** White zinc-plated steel hinge  
**Application:** Opening angle 120°



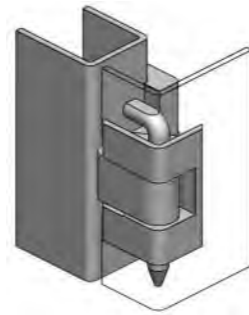
**CL255**



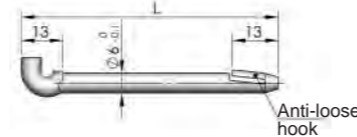
**Main material and finish:** Black powder coated hinge, nickel plated steel pin  
**Application:** Opening angle 180°



Door cutout

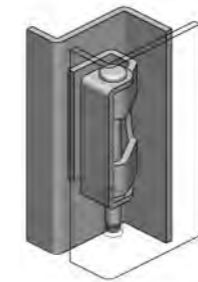
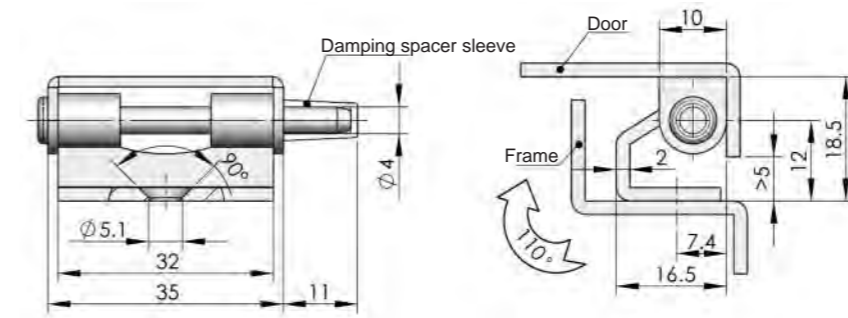


**Nylon pin (Optional)**

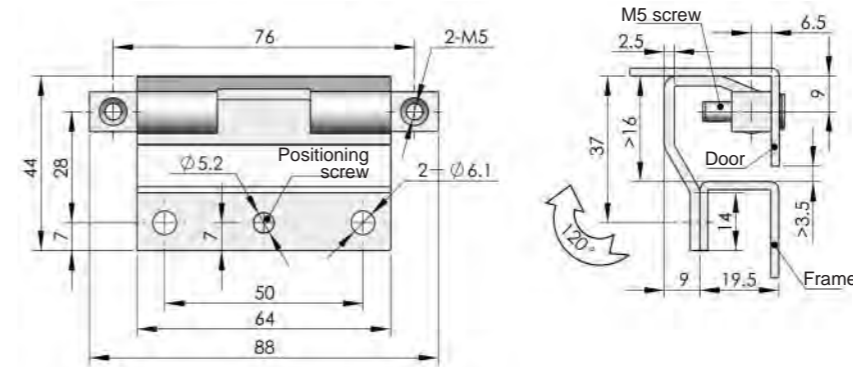
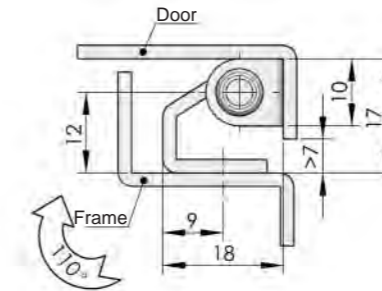


Part No.	L
PN001	57
PN002	78

Model	ERP	Specification	A	Remarks
CL255-1	CL255Z1A001	Suitable door thickness Ts=2mm	5.1	ZDC hinge
CL255-2	CL255Z1A002	Suitable door thickness Ts=3mm	6.1	ZDC hinge
CL255-3	CL255Z1A003	Suitable door thickness Ts=1.5mm	4.6	ZDC hinge
CL255-1A	CL255Z1A004	Suitable door thickness Ts=2mm	5.1	Steel female hinge
CL255-2A	CL255Z1A005	Suitable door thickness Ts=3mm	6.1	Steel female hinge
CL255-3A	CL255Z1A006	Suitable door thickness Ts=1.5mm	4.6	Steel female hinge



ERP CL257F3D001



ERP CL260F3D001

**CL257**



**Main material and finish:** White zinc-plated steel hinge and pin, PA spacer sleeve  
**Application:** Opening angle 110°

**CL260**



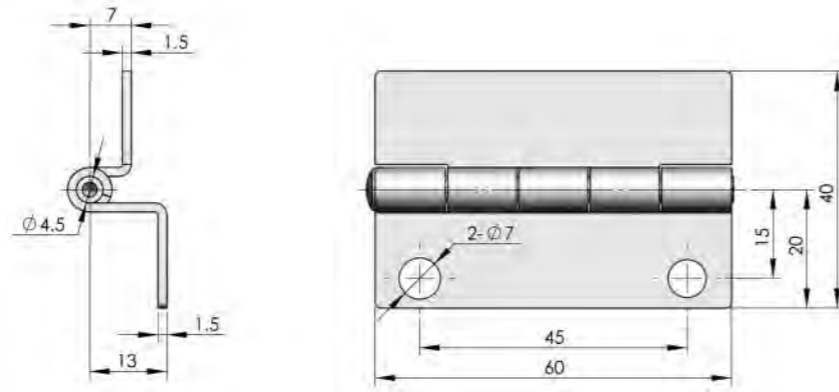
**Main material and finish:** White zinc-plated steel hinge  
**Application:** Opening angle 120°

Accessories
Handle lock
Cylinder lock
Electronic lock
Plane lock
Rod control lock
Panel lock
Toggle and hook
Handles
Door stop
Hinge
Seal gasket

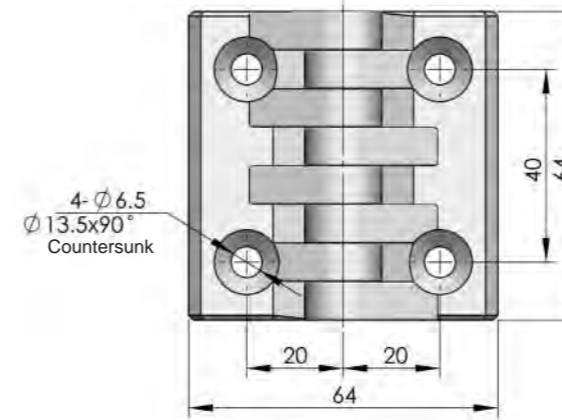
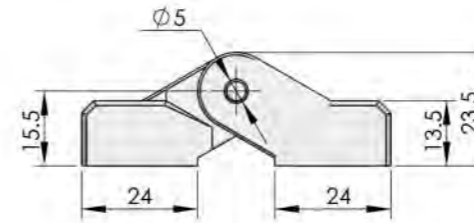
**CL261**



**Main material and finish:** White zinc-plated steel hinge  
**Application:** Opening angle 180°



ERP CL261F3D001



ERP CL295N00001

**CL295**

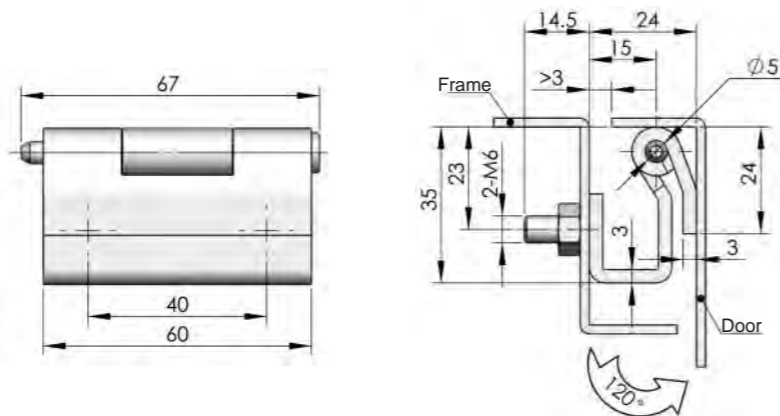


**Main material and finish:** Black PA hinge, white zinc plated steel pin  
**Application:** Opening angle 180°

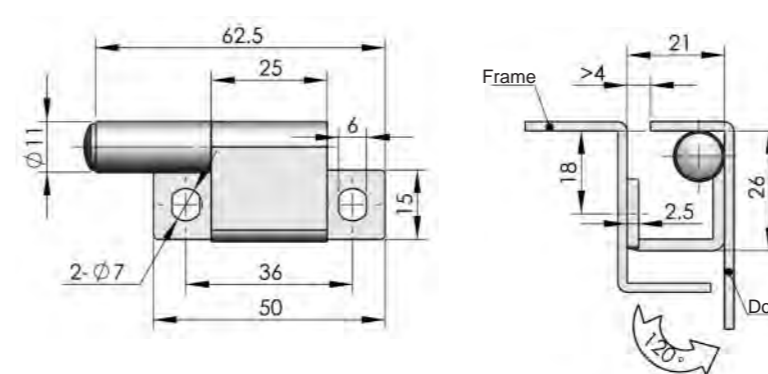
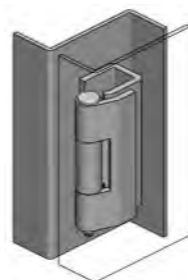
**CL262**



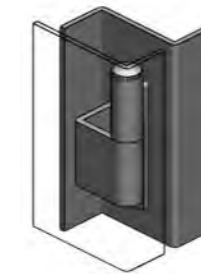
**Main material and finish:** White zinc-plated steel hinge  
**Application:** Opening angle 120°



ERP CL262F3D001



ERP CL296F3D001



**CL296**



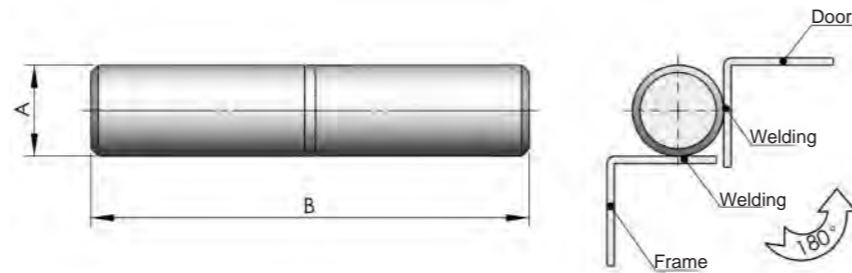
**Main material and finish:** White zinc-plated steel hinge  
**Application:** Opening angle 120°



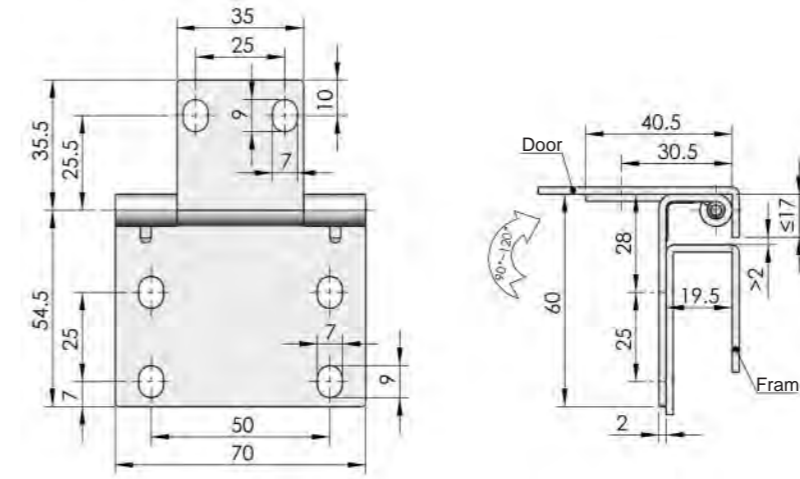
CL270



**Main material and finish:** White zinc-plated steel hinge



Model	ERP	A	B	C
CL270-1	CL270F3D001	d26	150	75
CL270-2	CL270F3D002	d25	120	60
CL270-3	CL270F3D003	d14	120	60
CL270-4	CL270F3D004	d10	60	30



ERP

CL273F3D001

CL273

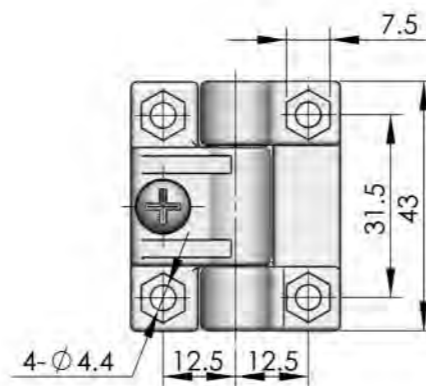
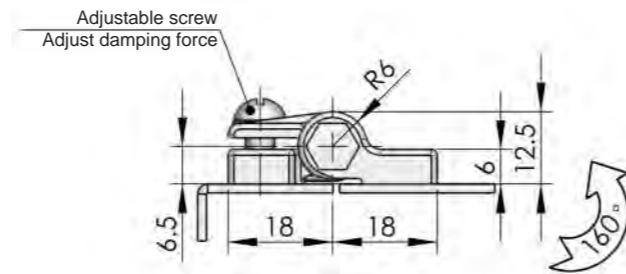


**Main material and finish:** White zinc-plated steel hinge  
**Application:** Opening angle 90°~120°

CL272

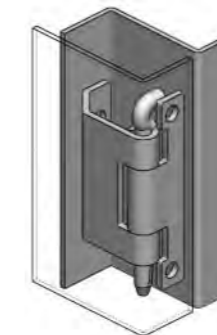
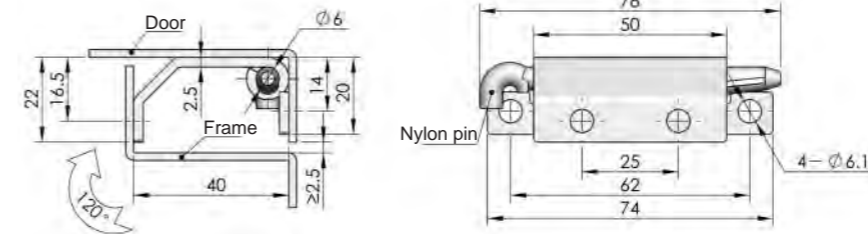


**Main material and finish:** Black PA hinge, steel screw, PC shaft  
**Application:** Opening angle 160°



ERP

CL272N00001



ERP

CL274F3D001

CL274



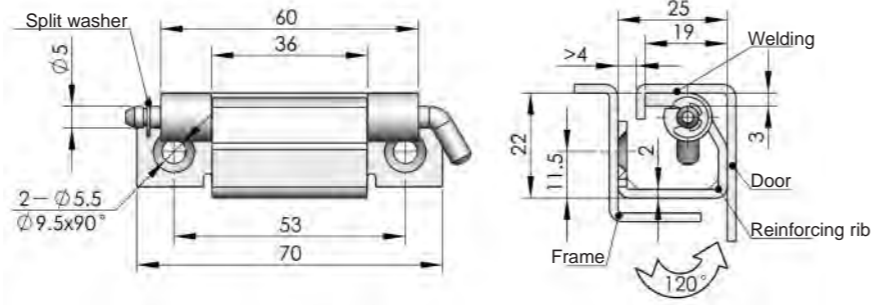
**Main material and finish:** White zinc-plated steel hinge  
**Application:** Opening angle 120°

Accessories
Handle lock
Cylinder lock
Electronic lock
Plane lock
Rod control lock
Panel lock
Toggle and hook
Handles
Door stop
Hinge
Seal gasket

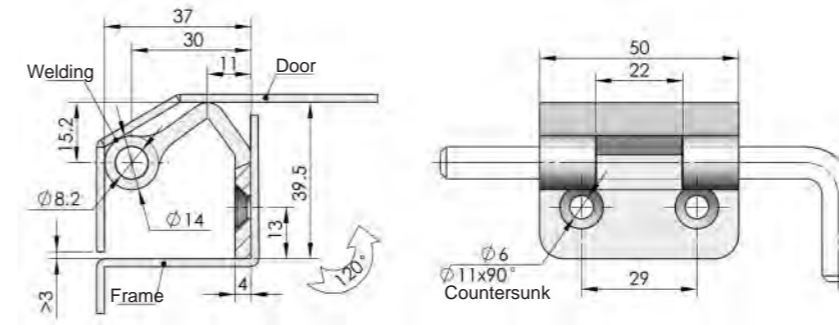
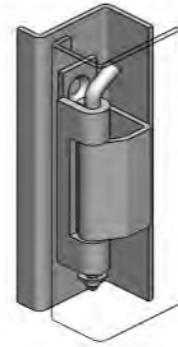
**CL275-1**



**Main material and finish:** White zinc-plated steel hinge  
**Application:** Opening angle 120°



ERP CL275F3D002



ERP CL276Z3D001

**CL276**

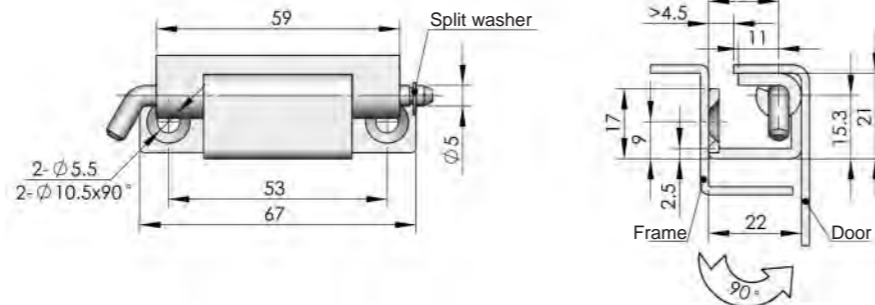


**Main material and finish:** White zinc-plated ZDC female hinge  
**Application:** Opening angle 120°

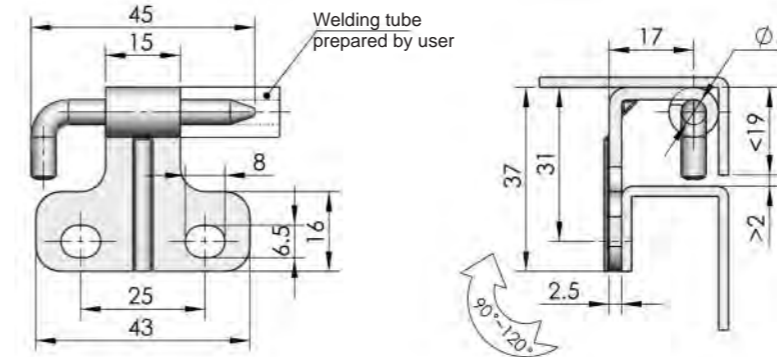
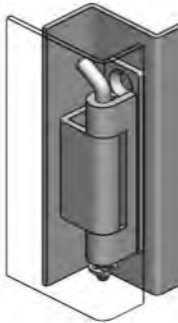
**CL275-2**



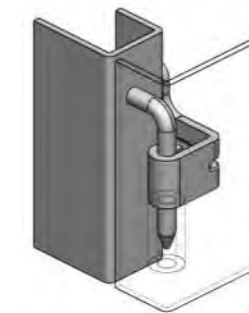
**Main material and finish:** White zinc-plated steel hinge  
**Application:** Opening angle 120°



ERP CL275F3D003



ERP CL280F1A001



**CL280**

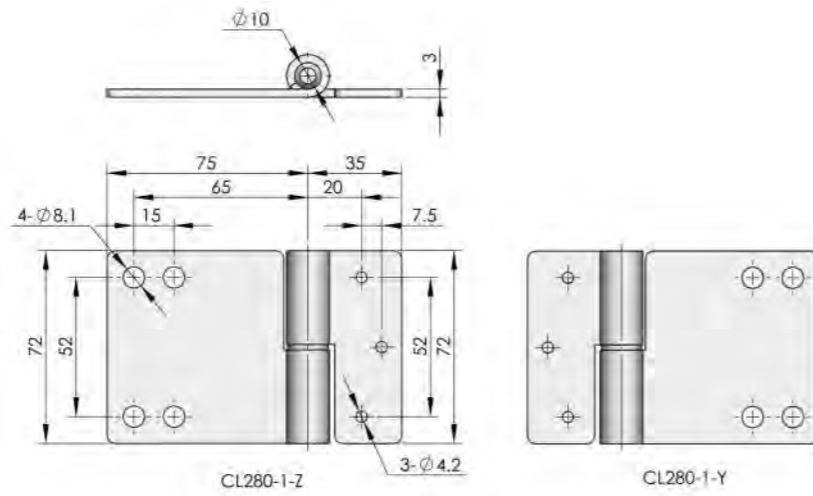


**Main material and finish:** Black powder coated steel female hinge, white zinc-plated pin  
**Application:** Opening angle 120°

**CL281**



**Main material and finish:** Stainless steel hinge  
**Application:** Opening angle 180°

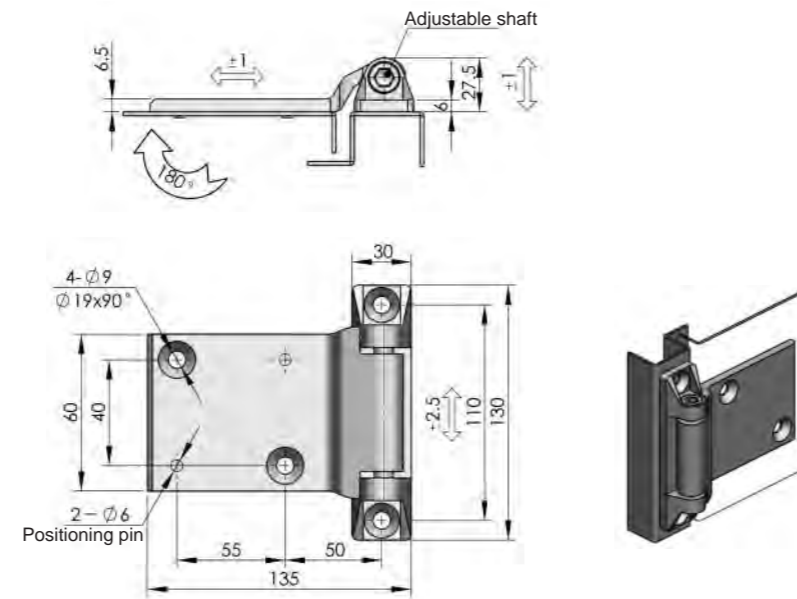


	CL281-A-Z LH	CL281-A-Y RH
ERP	CL281S4A001	CL281S4A003

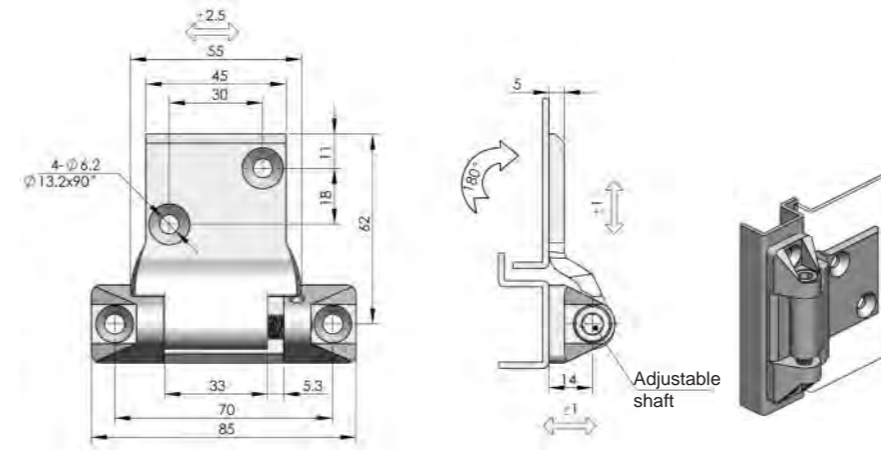
**CL282-1-Y**  
**CL282-1-Z**



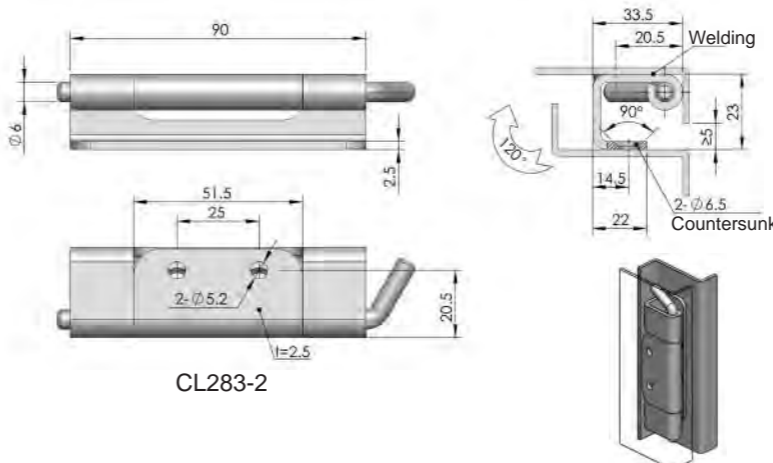
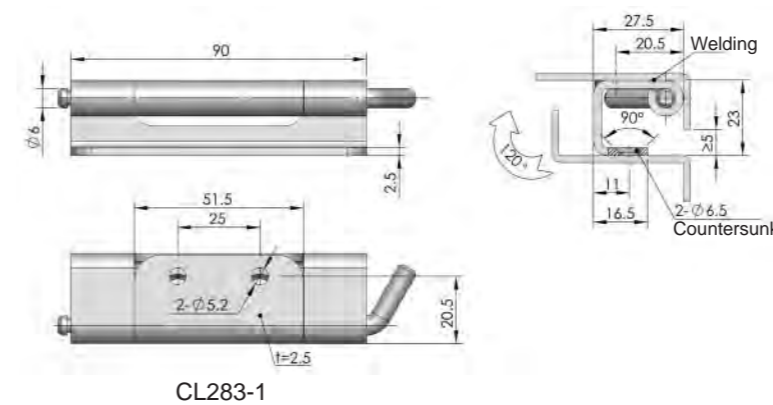
**Main material and finish:** Pocked black powder coated ZDC female part, stainless steel shaft  
**Application:** Opening angle 180°



	CL282-1-Z LH	CL282-1-Y RH
ERP	CL282Z1B001	CL282Z1B002



	CL282-2-Z LH	CL282-2-Y RH
ERP	CL282Z1B003	CL282Z1B004



Model	ERP	A	B	C
CL283-1	CL283S00001	27.5	16.5	11
CL283-2	CL283S00002	33.5	21	14.5

**CL282-2-Y**  
**CL282-2-Z**



**Main material and finishing:** Pocked black powder coated ZDC female hinge, stainless steel shaft  
**Application:** Opening angle 180°

**CL283-1**  
**CL283-2**



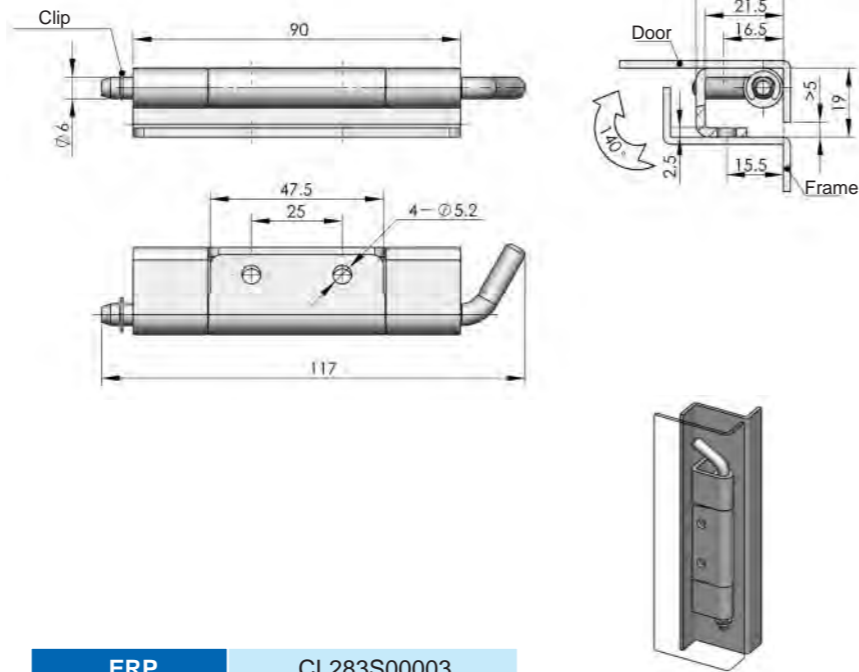
**Main material and finish:** stainless steel hinge and shaft  
**Application:** Opening angle 120°

Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Plane lock  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket

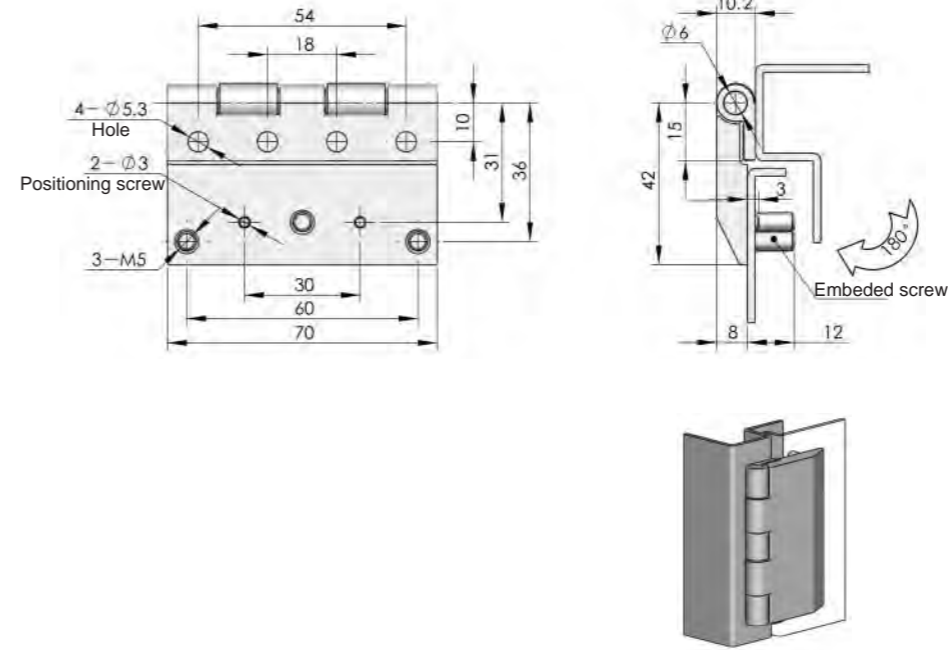
**CL283-4**



**Main material and finish:** Stainless steel hinge and pin  
**Application:** Opening angle 140°



ERP CL283S00003



ERP CL289Z2A001

**CL289**

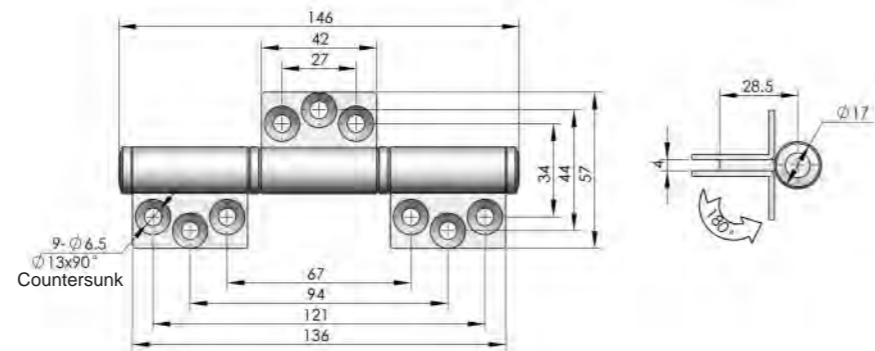


**Main material and finish:** Black painted ZDC female part  
**Application:** Opening angle 180°

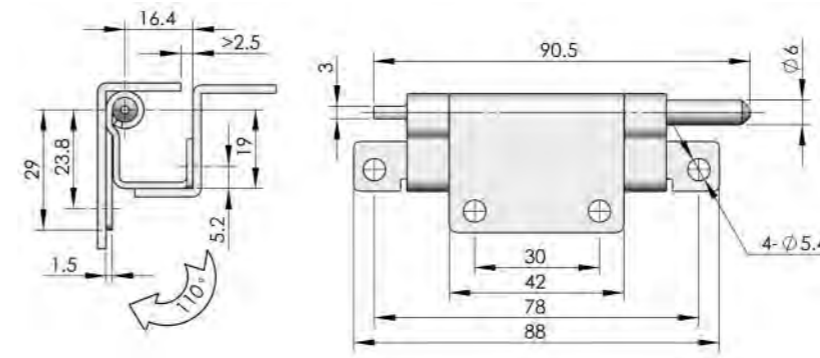
**CL288**



**Main material and finish:** Stainless steel hinge  
**Application:** Opening angle 180°



ERP CL288S00001



ERP CL290S00001

**CL290**



**Main material and finish:** Stainless steel hinge  
**Application:** Opening angle 110°



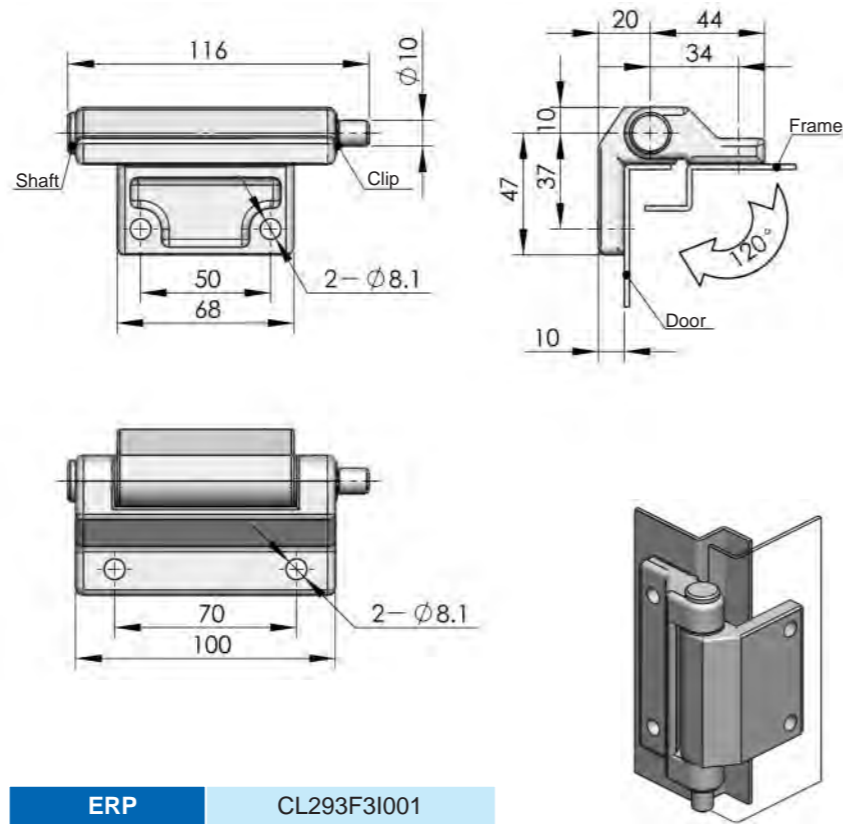
Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Plane lock  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket

Accessories
Handle lock
Cylinder lock
Electronic lock
Plane lock
Rod control lock
Panel lock
Toggle and hook
Handles
Door stop
Hinge
Seal gasket

**CL293**



**Main material and finish:** Sand-spraying and nickel-plated casting steel hinge  
**Application:** Opening angle 120°



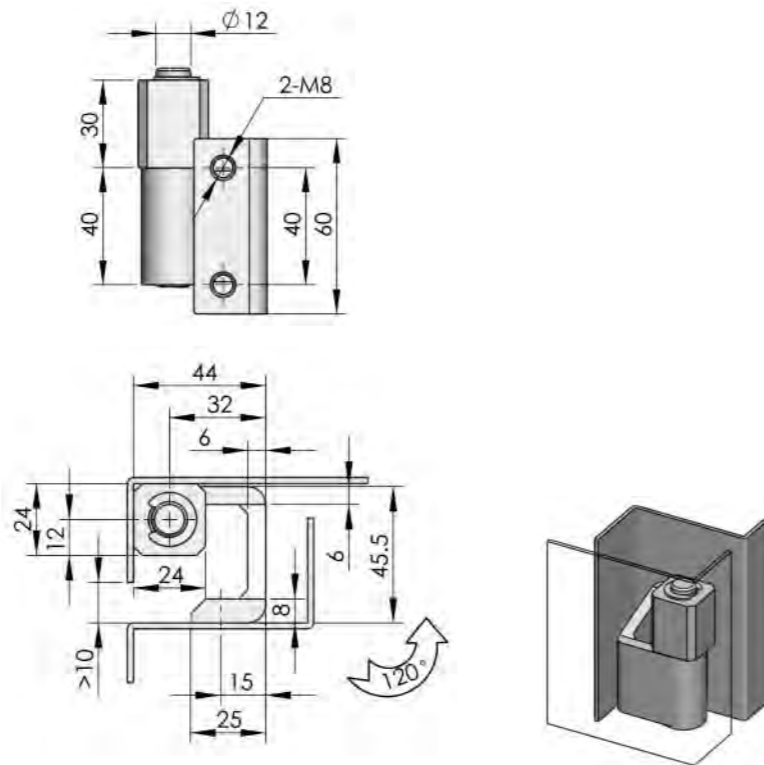
ERP CL293F3I001

**CL294**



**INOX**  
AISI 3..

**Main material and finish:** Stainless steel hinge  
**Application:** Opening angle 120°

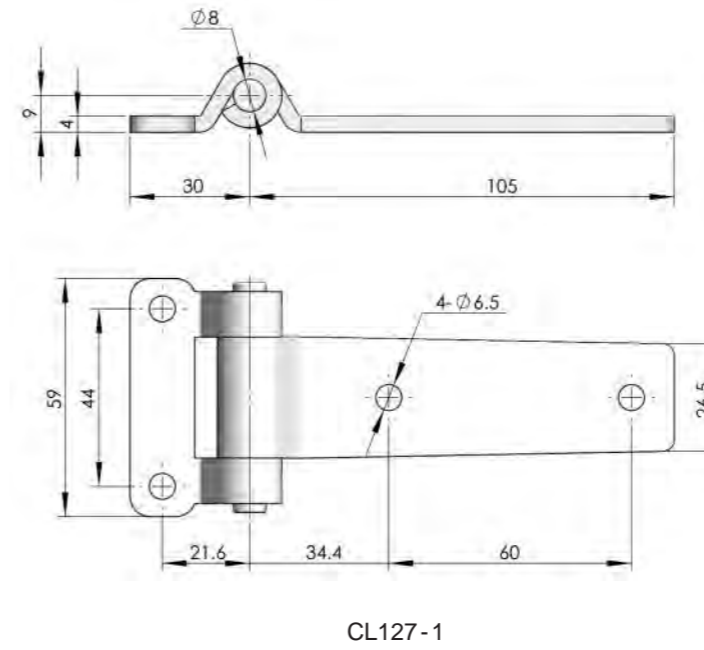


ERP CL294S00001

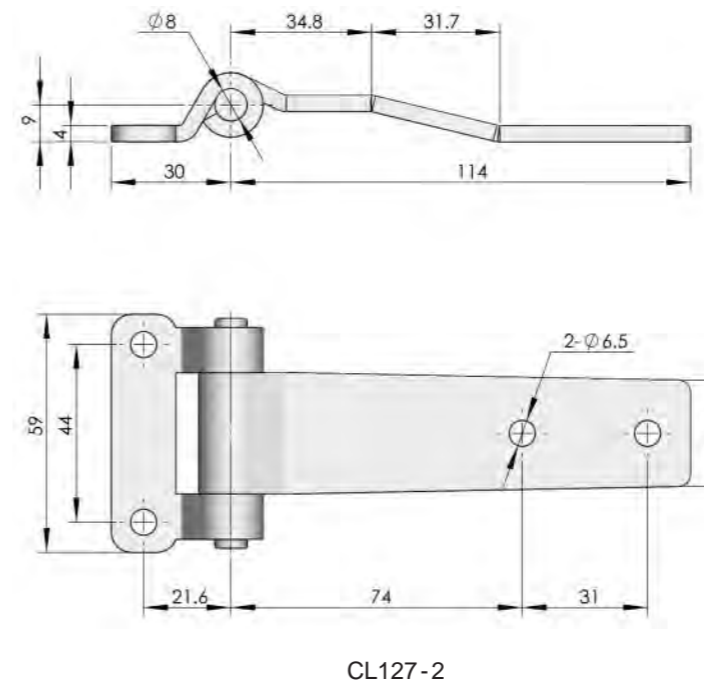
**CL127-1**  
**CL127-2**



**Main material and finish:** Mirror polishing stainless steel hinge and pin  
**Application:** Opening angle 180°



ERP CL127S4A002



ERP CL127S4A003

Accessories
Handle lock
Cylinder lock
Electronic lock
Plane lock
Rod control lock
Panel lock
Toggle and hook
Handles
Door stop
Hinge
Seal gasket

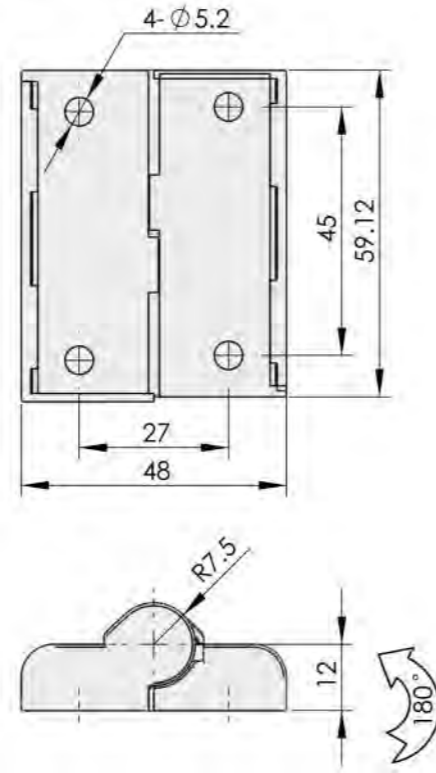


**CL299-1-Z**



**Main material and finish:** Nanometer painted ZCD hinge and stainless steel shaft

**Application:** Opening angle 180°



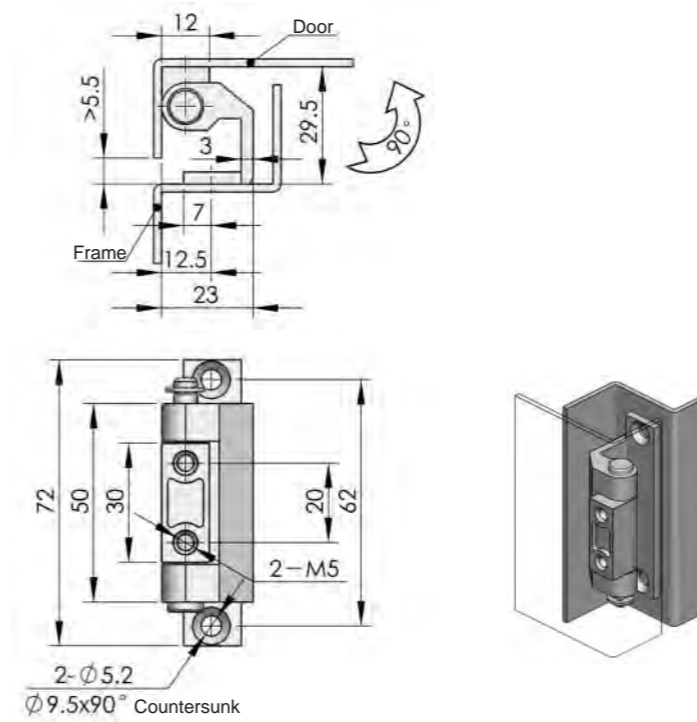
ERP	CL299Z2B001
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**CL332**



**Main material and finish:** Black powder coated ZDC hinge and nicked plated steel pin

**Application:** Opening angle 90°



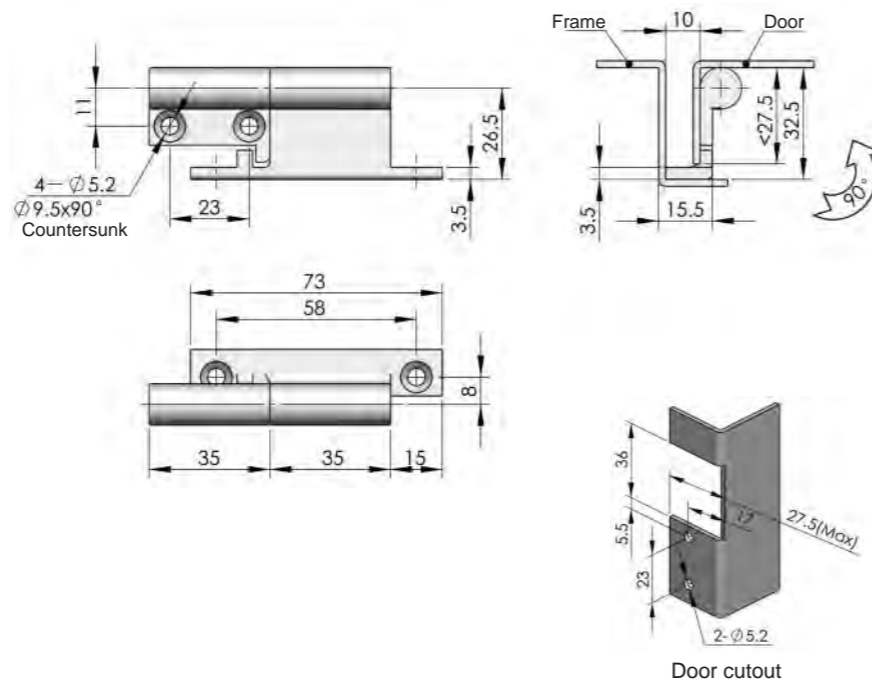
	Nanometer painted	Black powder coated
ERP	CL332Z2B001	CL332Z1A001

**CL331**



**Main material and finish:** Nanometer painted ZDC hinge and nickel plated steel pin

**Application:** Opening angle 90°

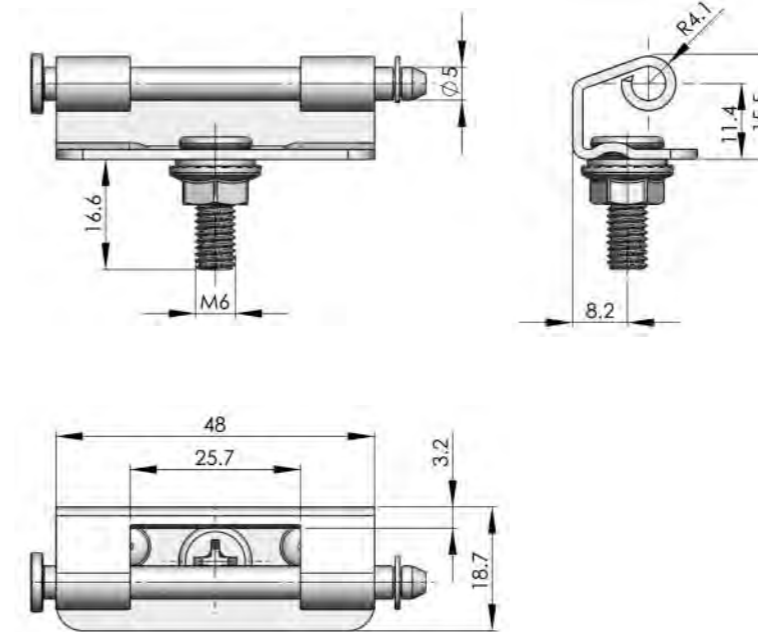


	Nanometer painted	Black powder coated
ERP	CL331Z2B001	CL331Z1A001

**CL103**



**Main material and finish:** Yellow zinc plated steel hinge and pin



ERP	CL103F3C001
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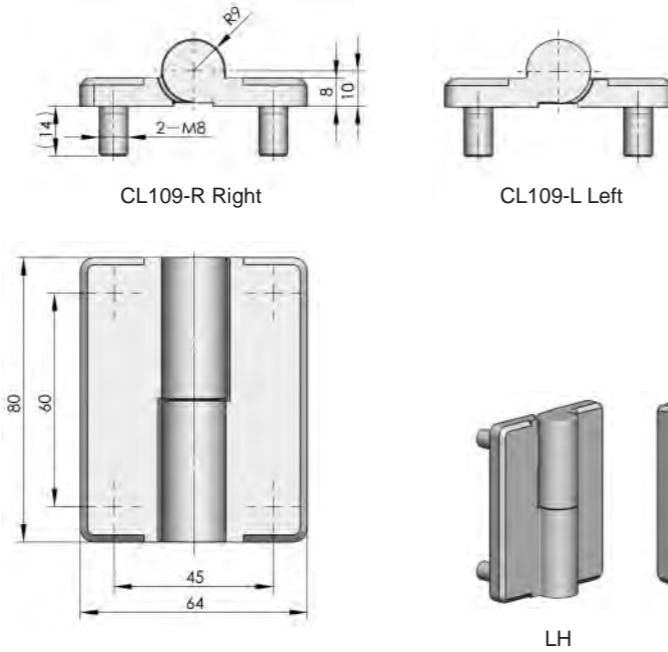
Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Plane lock  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket

**CL109**

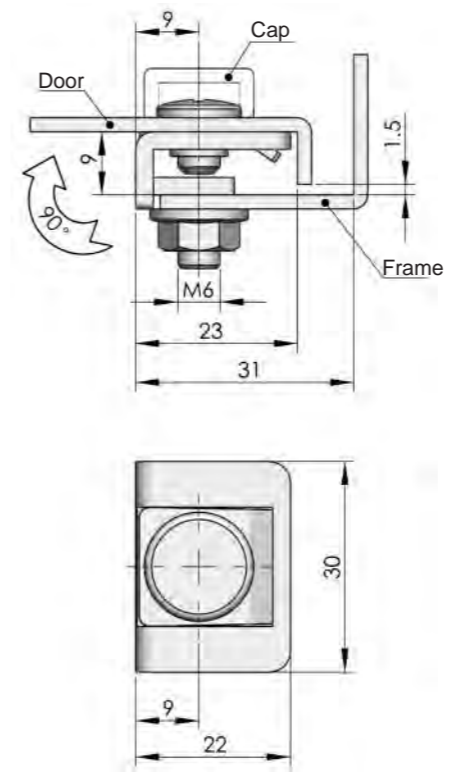


**Main material and finish:** Black powder coated ZDC hinge and stainless steel screw

**Application:** Opening angle 180°



	<b>CL109-Z Left hinge</b>	<b>CL109-Y Right hinge</b>
<b>ERP</b>	CL109Z1A002	CL109Z1A001



<b>ERP</b>	CL114F3D001
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**CL114**



**Main material and finish:** White zinc plated steel hinge

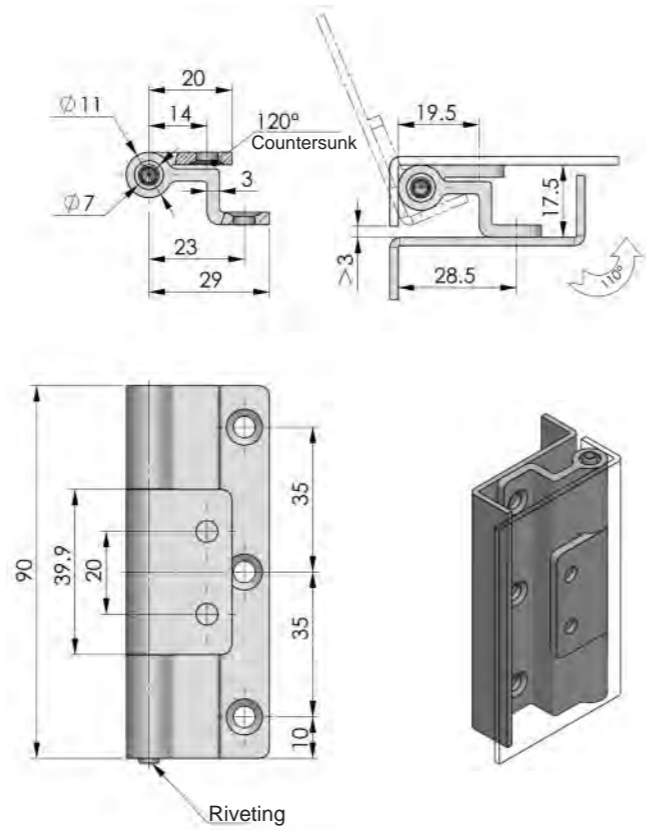
**Application:** Opening angle 90°

**CL111**

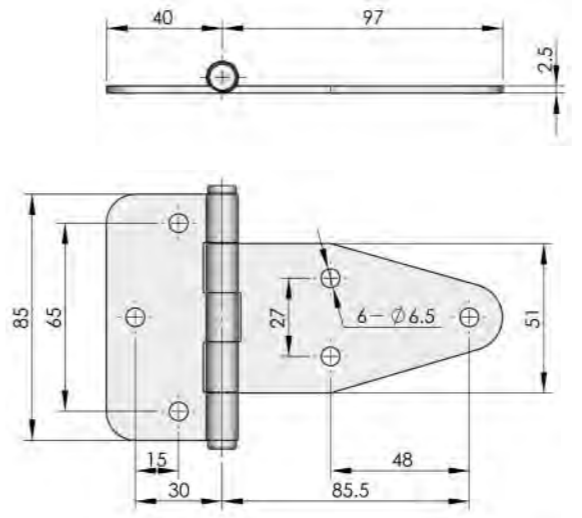


**Main material and finish:** White zinc plated ZDC hinge and stainless steel pin

**Application:** When the gap between door and frame is 3mm, opening angle 110°



<b>ERP</b>	CL111Z3D001
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<b>ERP</b>	CL115S4A001
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**CL115**





**INOX**  
**AISI**  
**3..**

**Main material and finish:** Mirror polishing stainless steel hinge

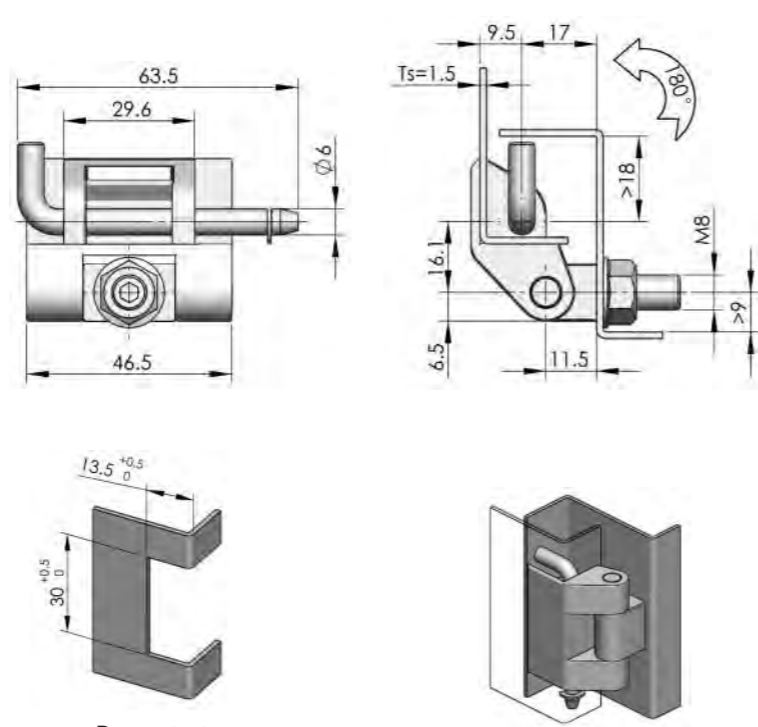
**Application:** Opening angle 180°

Accessories
Handle lock
Cylinder lock
Electronic lock
Plane lock
Rod control lock
Panel lock
Toggle and hook
Handles
Door stop
Hinge
Seal gasket

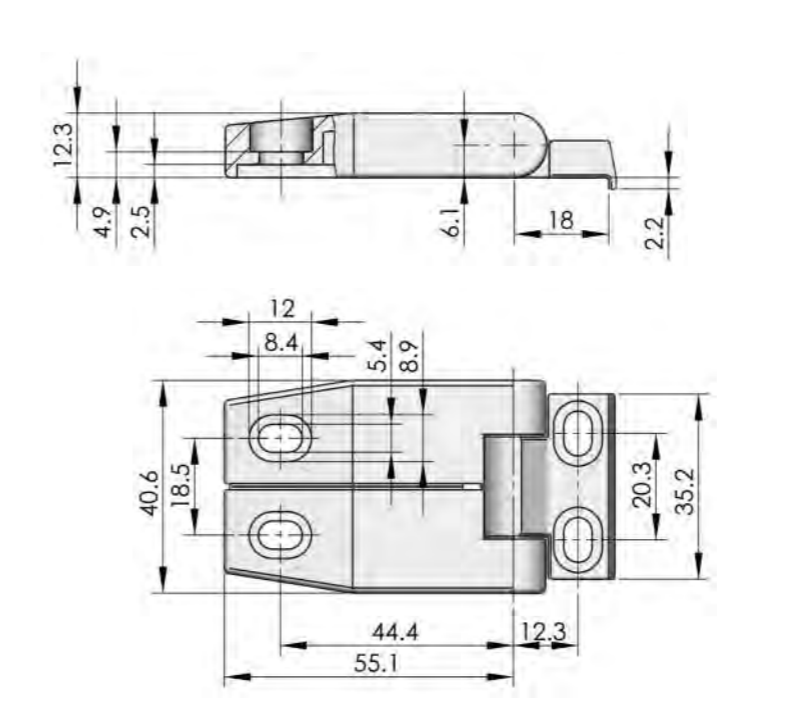
**CL116**

**Main material and finish:** Black powder coated ZDC hinge and steel shaft  
**Application:** Opening angle 180°





ERP CL116Z1A001



ERP CL119Z1B001



**CL119**

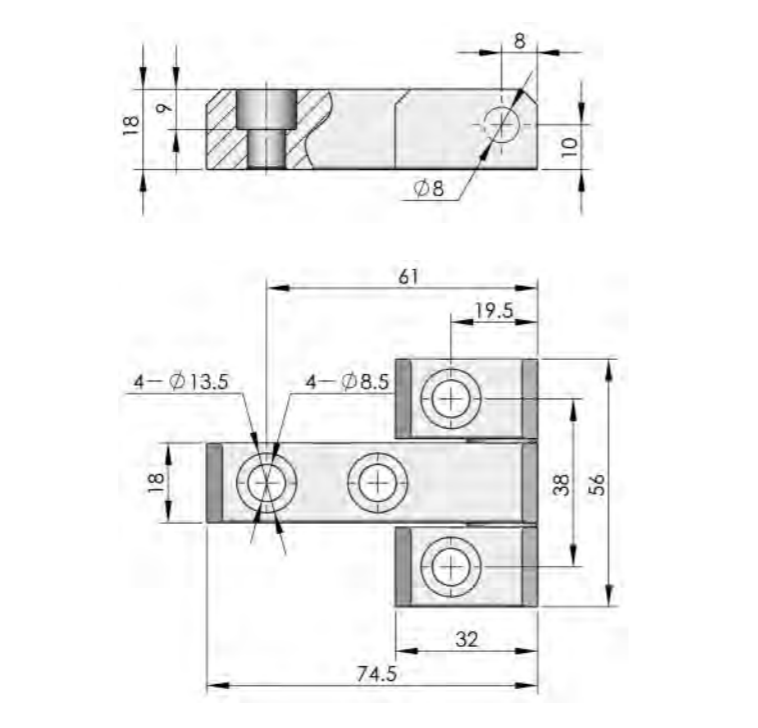
**Main material and finish:** Black powder coated ZDC hinge and nickle-plated steel shaft

Accessories
Handle lock
Cylinder lock
Electronic lock
Plane lock
Rod control lock
Panel lock
Toggle and hook
Handles
Door stop
Hinge
Seal gasket

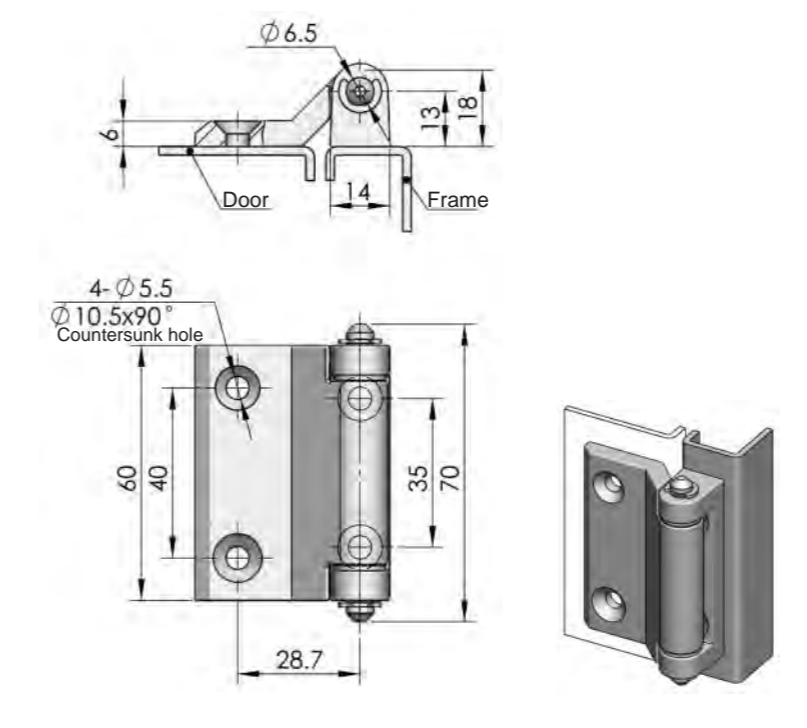
**CL117**

**Main material and finish:** White zinc-plated steel hinge and shaft





ERP CL117F3D001



ERP CL121Z1A001

**CL121**


**Main material and finish:** Black powder coated ZDC hinge and white zinc plated steel pin

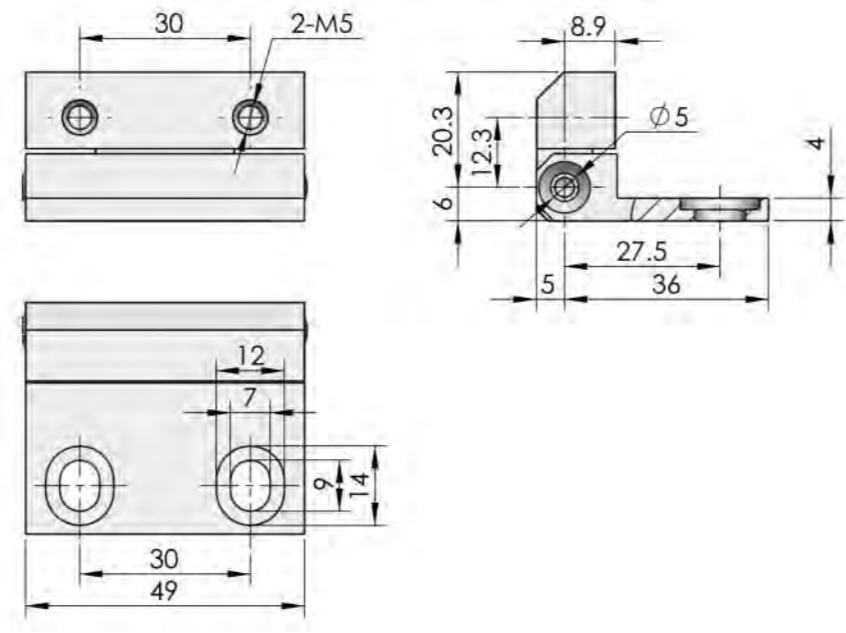
Accessories
Handle lock
Cylinder lock
Electronic lock
Plane lock
Rod control lock
Panel lock
Toggle and hook
Handles
Door stop
Hinge
Seal gasket

Accessories
Handle lock
Cylinder lock
Electronic lock
Plane lock
Rod control lock
Panel lock
Toggle and hook
Handles
Door stop
Hinge
Seal gasket

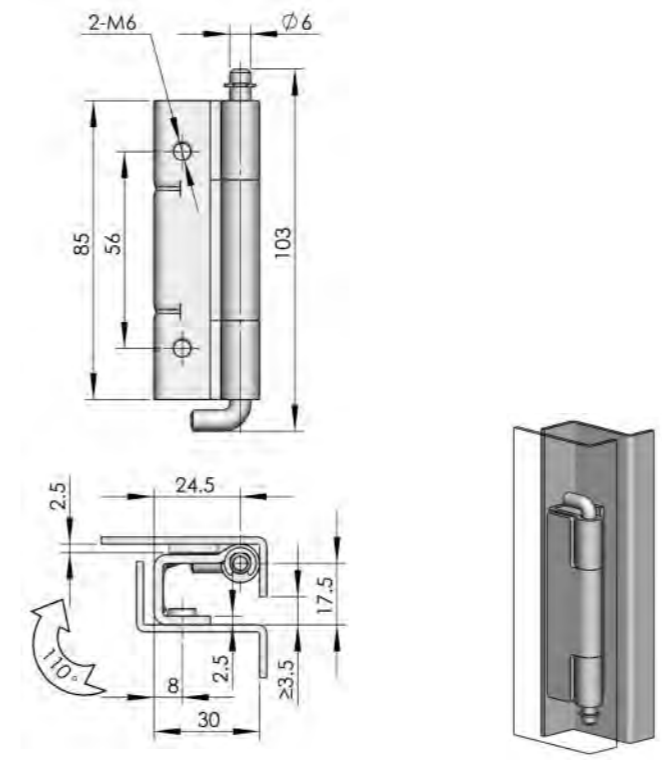


**CL123**

 **Main material and finish:** Black powder coated aluminum alloy hinge and nickle-plated steel shaft




ERP CL123A1A001



ERP CL125F3D001




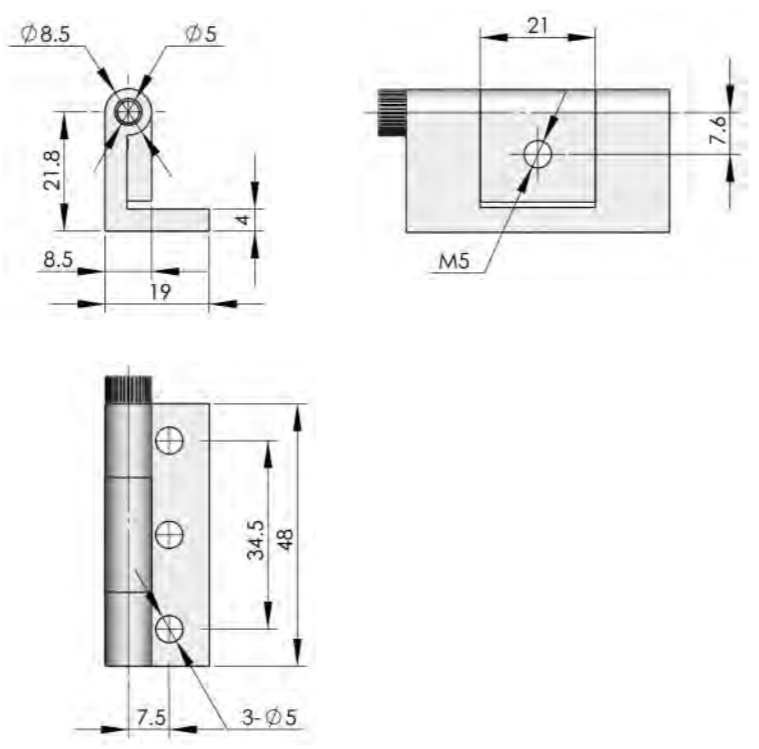
**CL125**

 **Main material and finish:** White zinc-plated steel hinge and pin  
**Application:** Opening angle 110°

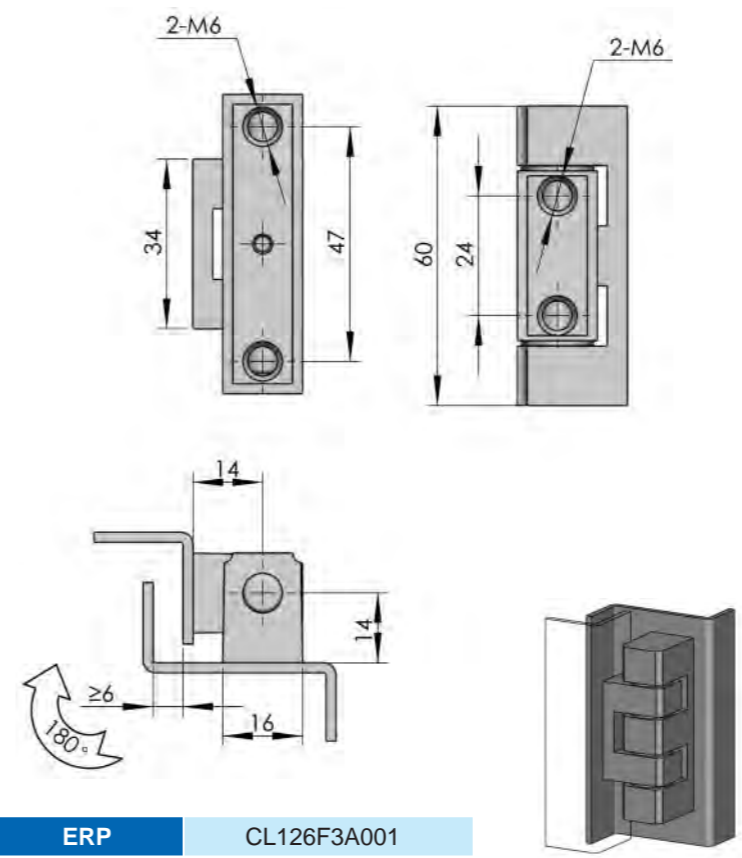


**CL124**

 **Main material and finish:** Black powder coated ZDC hinge and black steel shaft




ERP CL124F1A001



ERP CL126F3A001



**CL126**

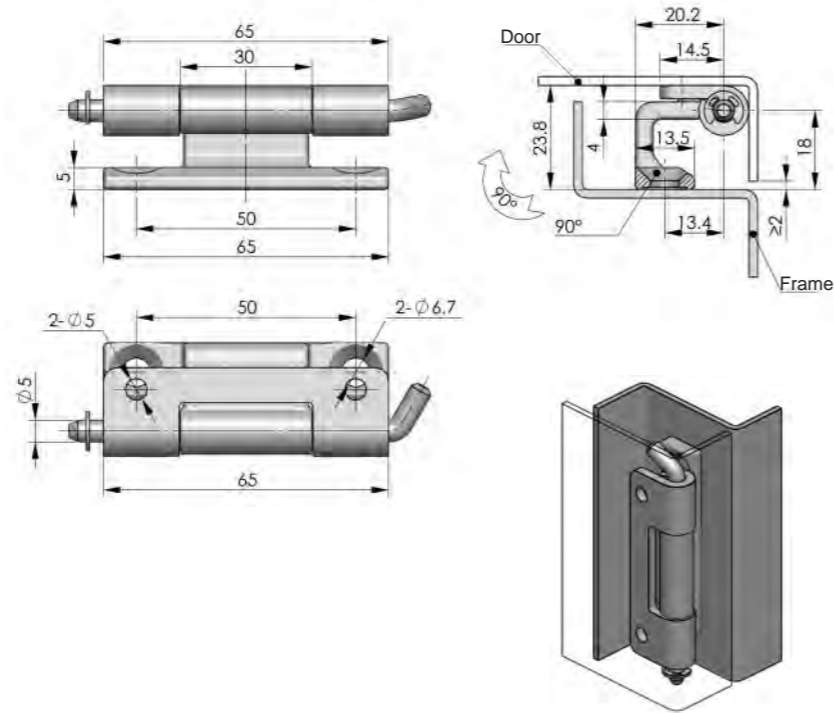
 **Main material and finish:** Bright chrome-plated ZDC hinge and nickle-plated steel shaft  
**Application:** Opening angle 180°

Accessories
Handle lock
Cylinder lock
Electronic lock
Plane lock
Rod control lock
Panel lock
Toggle and hook
Handles
Door stop
Hinge
Seal gasket

**CL130-2**



**Main material and finish:** White zinc plated steel hinge and pin  
**Application:** When the gap between door and frame is 2mm, opening angle 90°



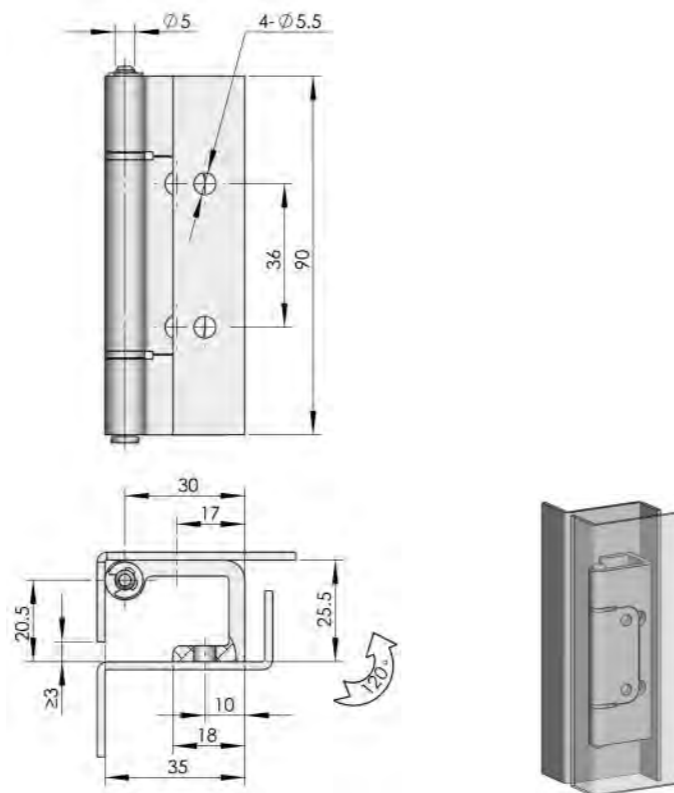
ERP

CL130F3D001

**CL132**

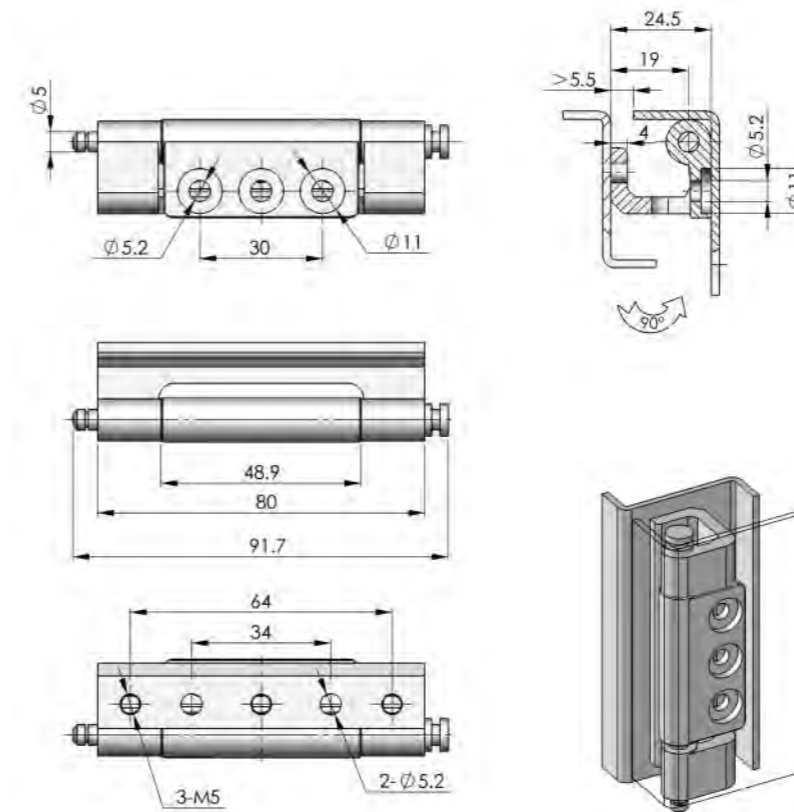


**Main material and finish:** Sand-spraying aluminum alloy hinge, stainless steel pin  
**Application:** Opening angle 120°



ERP

CL132A4D001



ERP

CL132S9C001

**CL132-2**



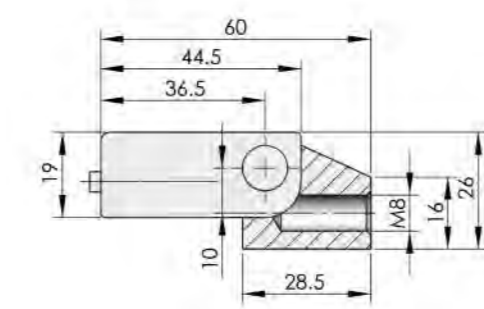
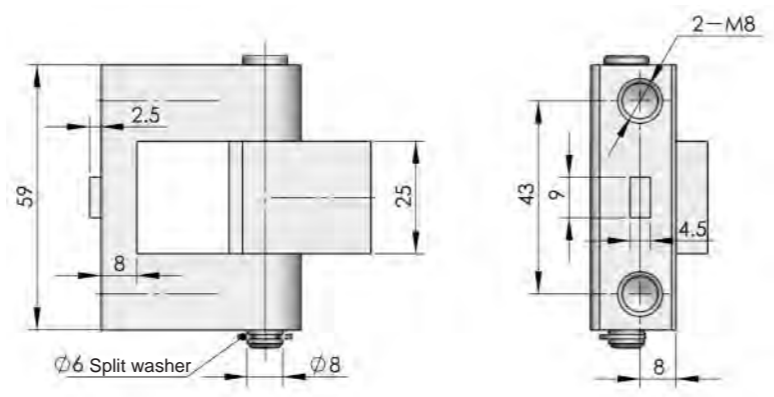
**Main material and finish:** Electrolytic stainless steel hinge  
**Application:** Opening angle 90°

Accessories
Handle lock
Cylinder lock
Electronic lock
Plane lock
Rod control lock
Panel lock
Toggle and hook
Handles
Door stop
Hinge
Seal gasket

Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Plane lock  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket



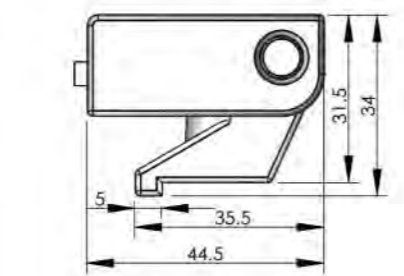
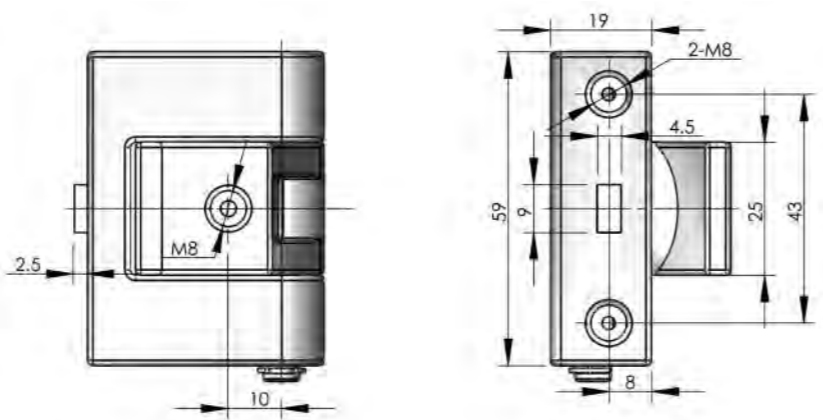
**CL133**  
Main material and finish: White zinc-plated steel hinge leaf and shaft  
Application: Opening angle 180°



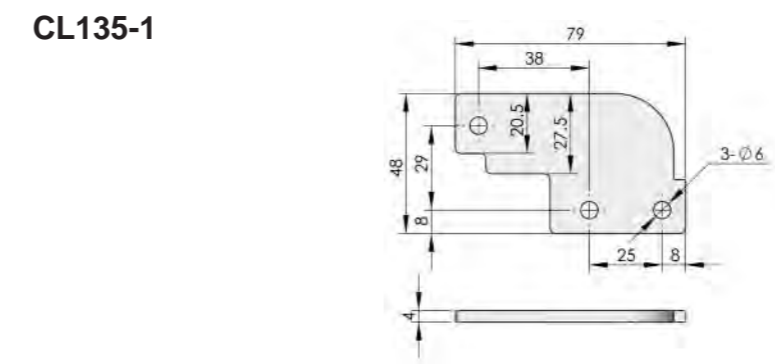
ERP CL133F3D001



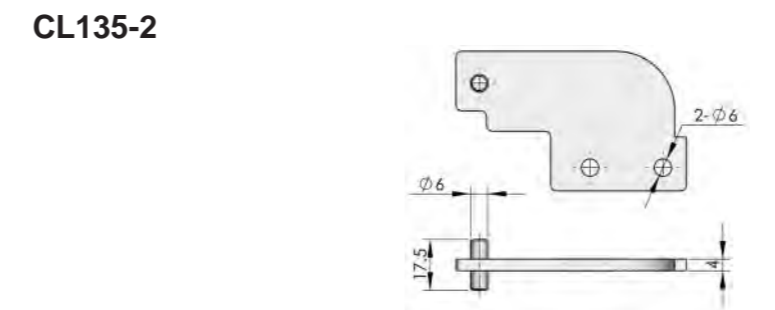
**CL133-2**  
Main material and finish: Color zinc-plated ZDC hinge and pin  
Application: Opening angle 115°



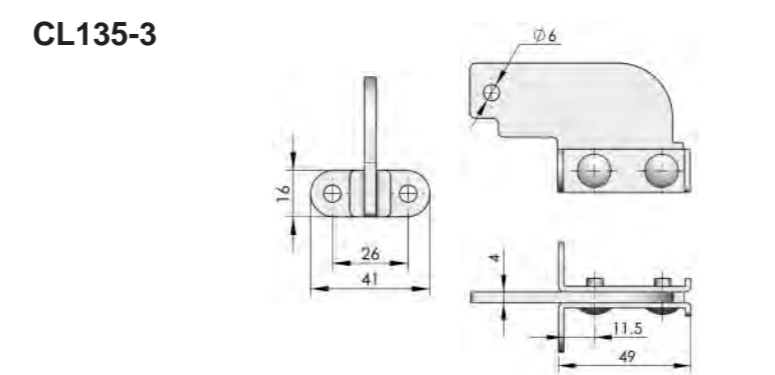
ERP CL133Z3C001



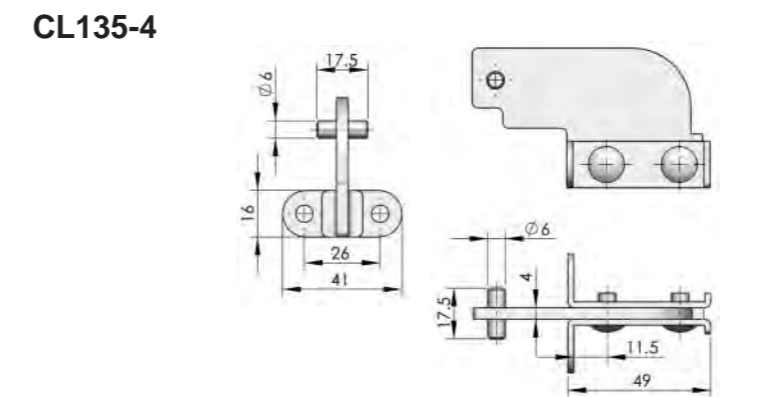
ERP CL135F2A001



ERP CL135F2A002



ERP CL135F2A003



ERP CL135F2A004





**CL135**  
Main material and finish: Black painted steel hinge

Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Plane lock  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket

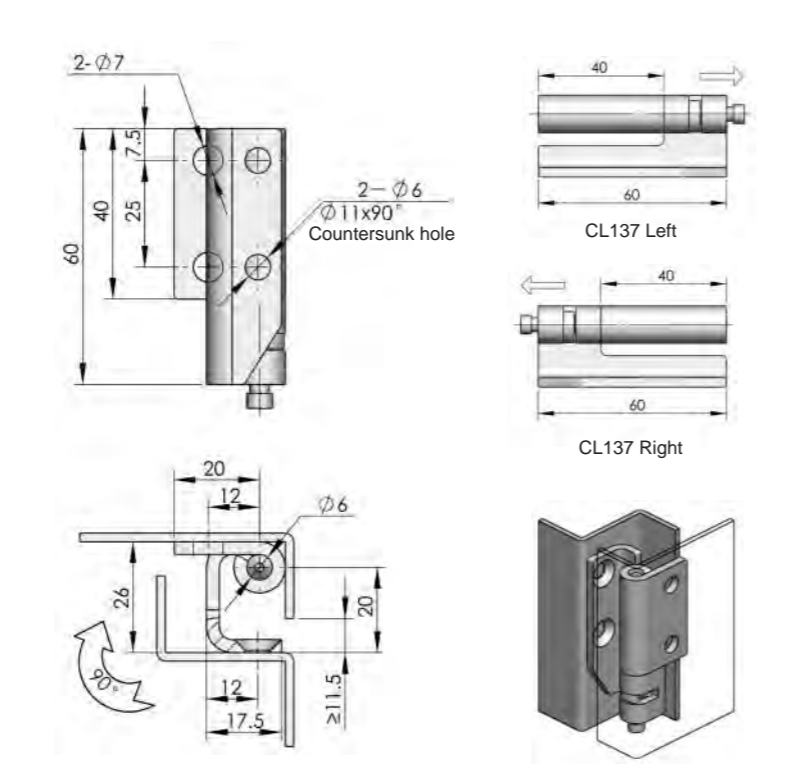
Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Plane lock  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket

**CL137**

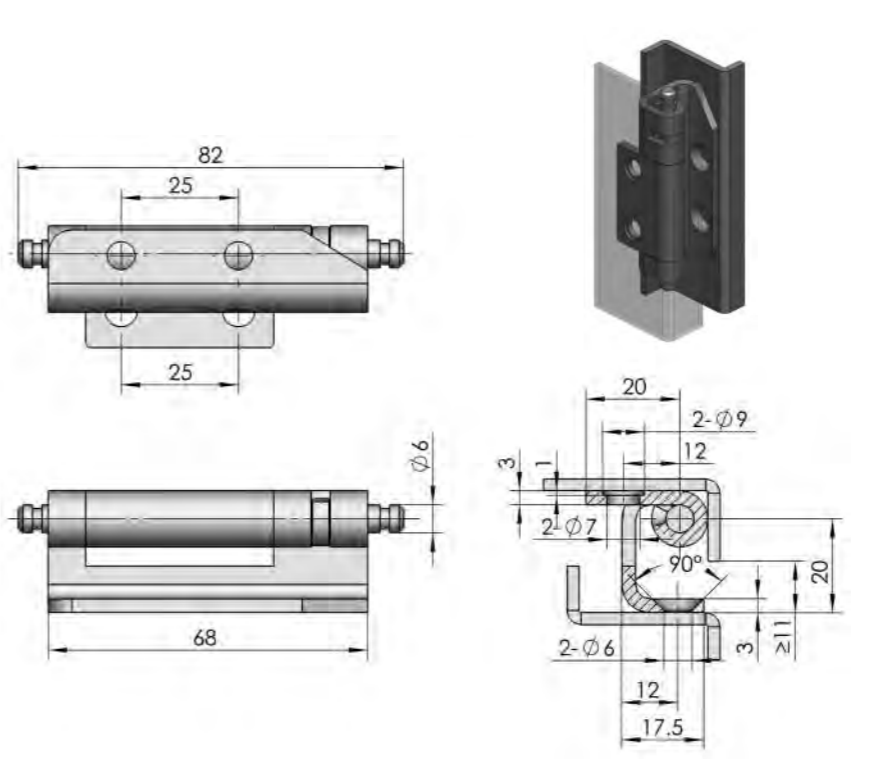




**Main material and finish:** White zinc-plated steel hinge and pin  
**Application:** Opening angle 135°





	<b>CL137-Z Left hinge</b>	<b>CL137-Y Right hinge</b>
<b>ERP</b>	CL137F3D001	CL137F3D002



	<b>CL138-3-Z</b>	<b>CL138-3-Y</b>
<b>ERP</b>	CL138F3D004	CL138F3D005

**CL138-3**







**Main material and finish:** Trivalent white zinc plated steel hinge and pin  
**Application:** Opening angle 90°

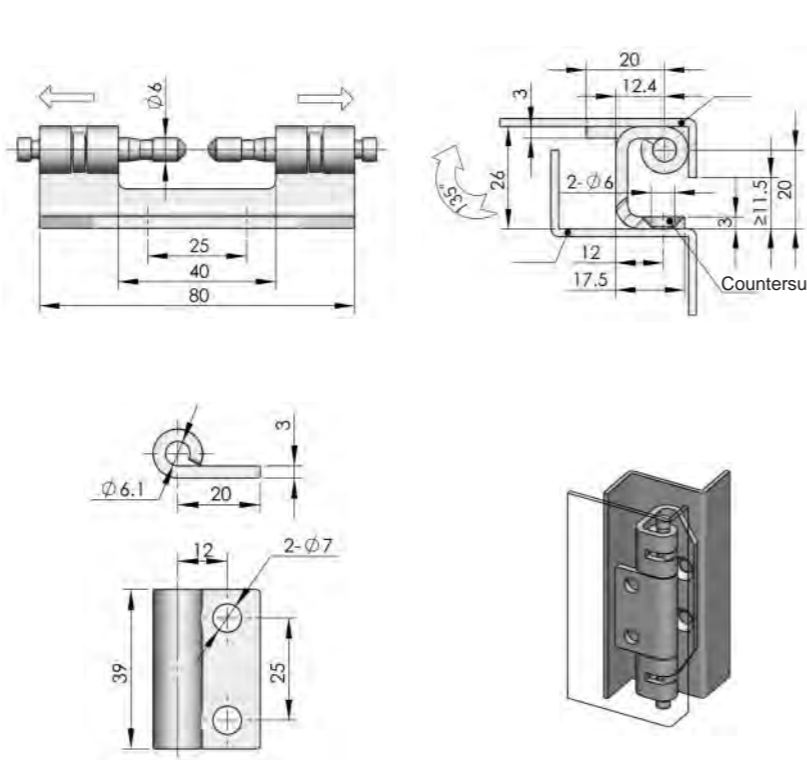
Accessories  
Handle lock  
Cylinder lock  
Electronic lock  
Plane lock  
Rod control lock  
Panel lock  
Toggle and hook  
Handles  
Door stop  
Hinge  
Seal gasket

**CL138**

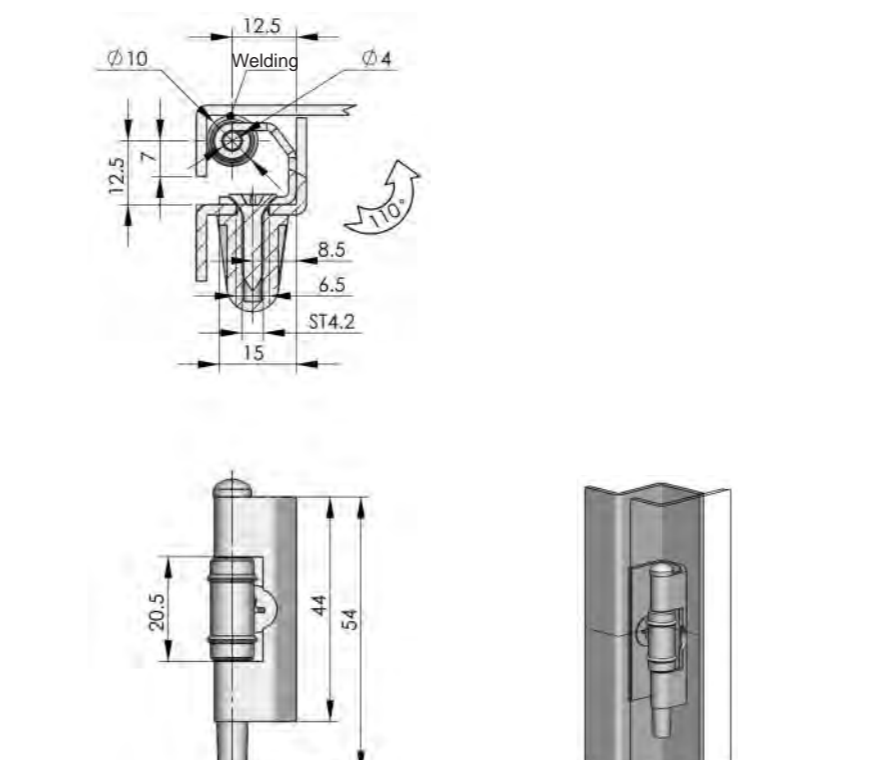




**Main material and finish:** White zinc plated steel hinge and pin  
**Application:** Opening angle 135°





<b>ERP</b>	CL138F3D001
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<b>ERP</b>	CL139F3D001
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**CL139**





**Main material and finish:** White zinc plated steel hinge and pin  
**Application:** Opening angle 135°



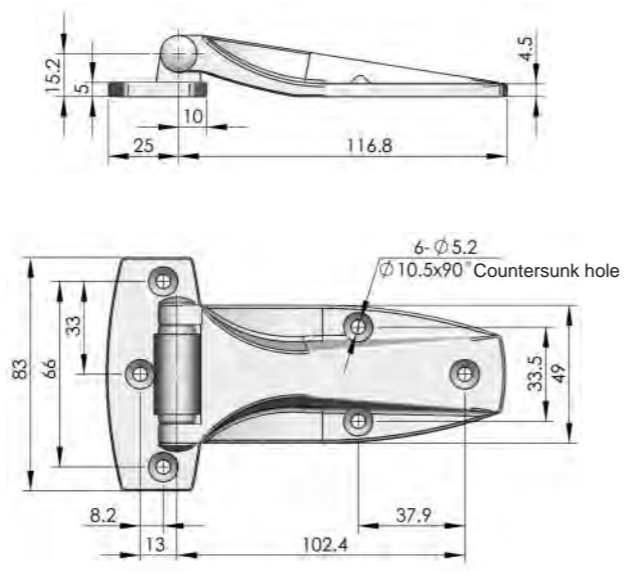
Accessories
Handle lock
Cylinder lock
Electronic lock
Plane lock
Rod control lock
Panel lock
Toggle and hook
Handles
Door stop
Hinge
Seal gasket



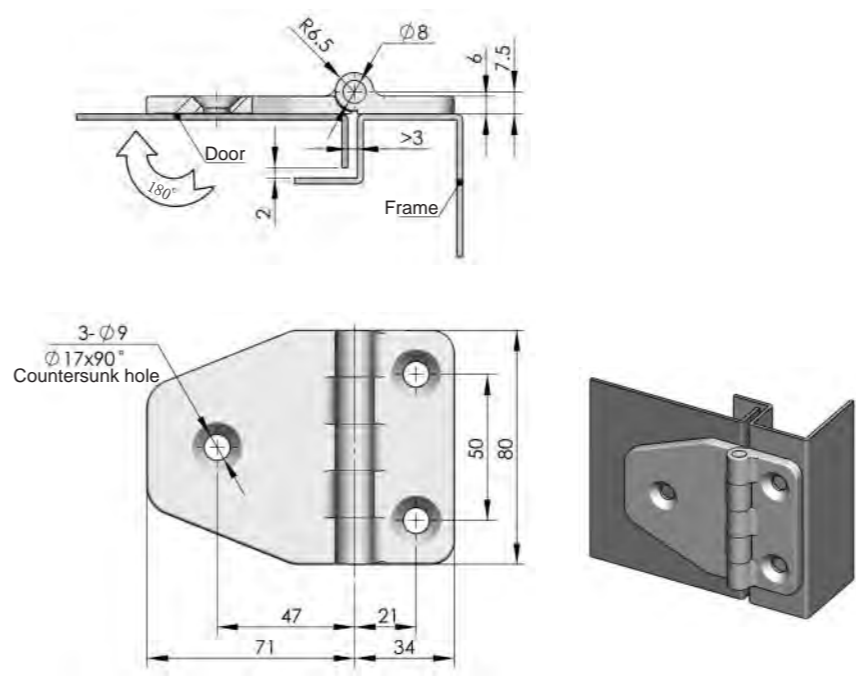
**CL142**

**INOX**  
AISI 3..

**Main material and finish:** Mirror polishing stainless steel hinge  
**Application:** Opening angle 135°



ERP CL142S4A001



ERP CL148N00001



**CL148**

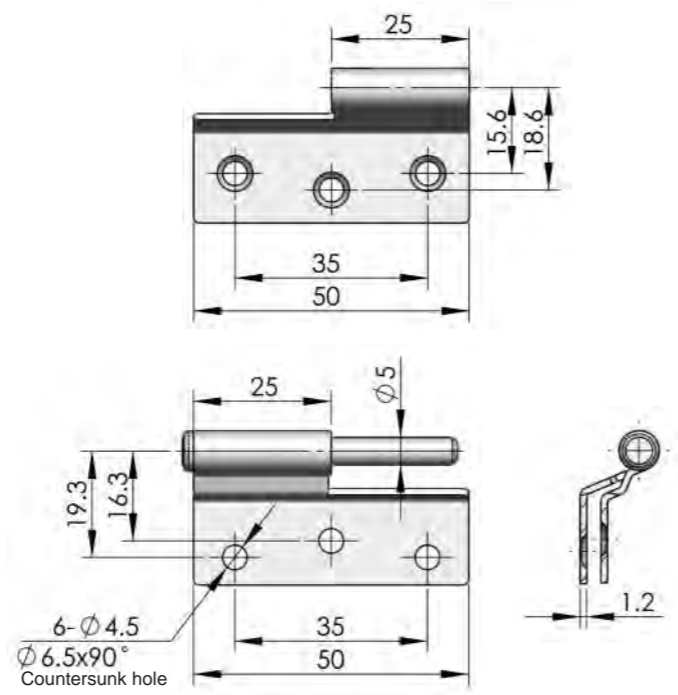
**Main material and finish:** White zinc-plated steel shaft, PA (black) hinge leaf  
**Application:** Opening angle 180°

Accessories
Handle lock
Cylinder lock
Electronic lock
Plane lock
Rod control lock
Panel lock
Toggle and hook
Handles
Door stop
Hinge
Seal gasket

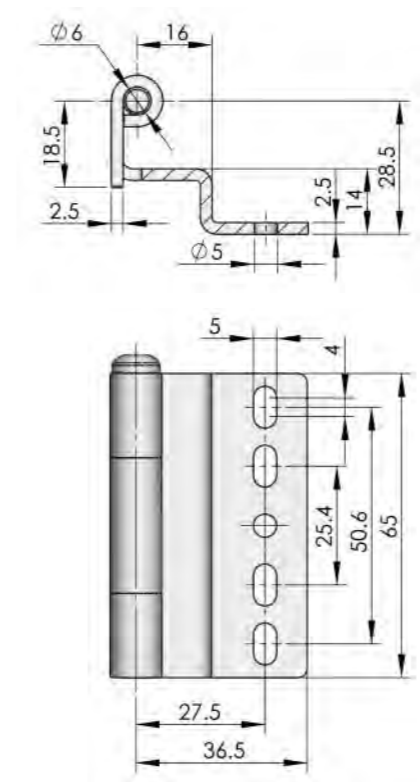


**CL145**

**Main material and finish:** White zinc-plated steel hinge leaf and shaft



ERP CL145F3D001



ERP CL150F3D001



**CL150**

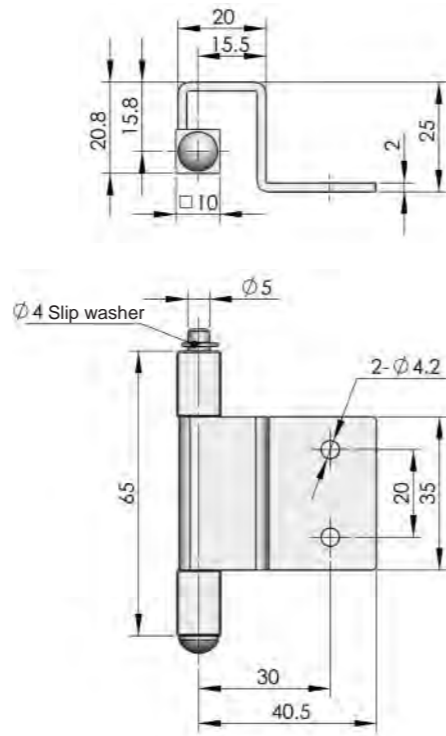
**Main material and finish:** White zinc plated steel hinge and shaft

Panel lock
Toggle and hook
Handles
Door stop
Hinge
Seal gasket

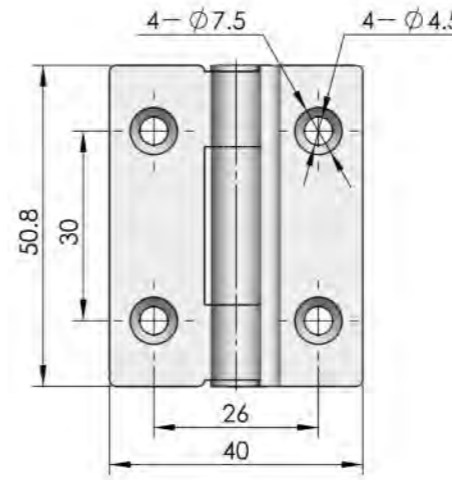
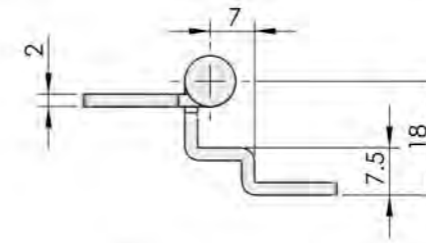
CL151



**Main material and finish:** Steel hinge leaf and shaft or stainless steel  
**Application:** Opening angle 180°



	Steel(White zinc-plated)	Stainless steel
ERP	CL151F3D001	CL151S00001



ERP	CL152S4C002
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CL152-2

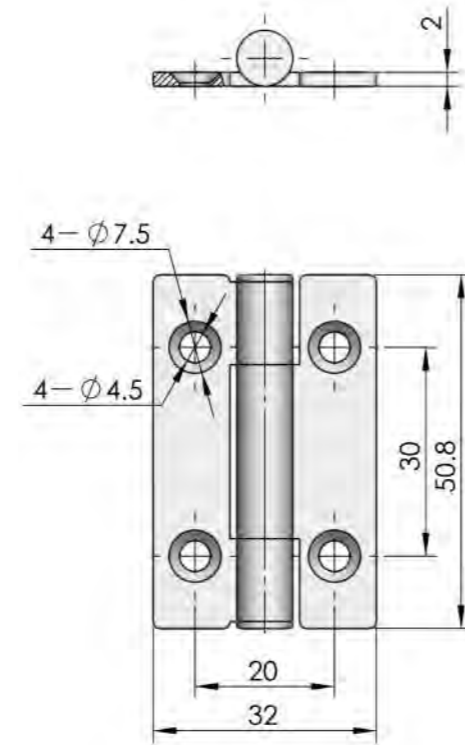


**Main material and finish:** Electrolytic stainless steel hinge and shaft  
**Application:** Opening angle 180°

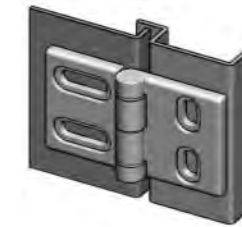
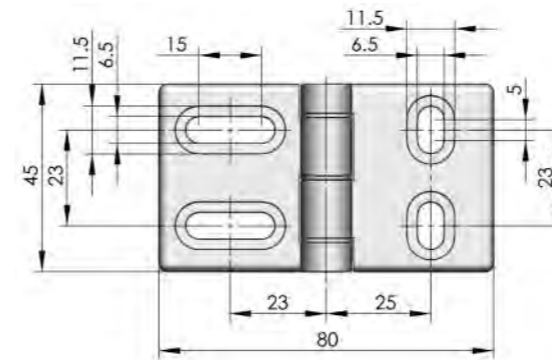
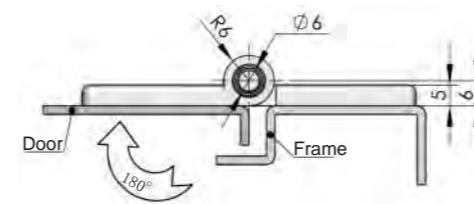
CL152



**Main material and finish:** Electrolytic stainless steel hinge and pin  
**Application:** Opening angle 180°



ERP	CL152S9C001
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ERP	CL156A4D001
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CL156

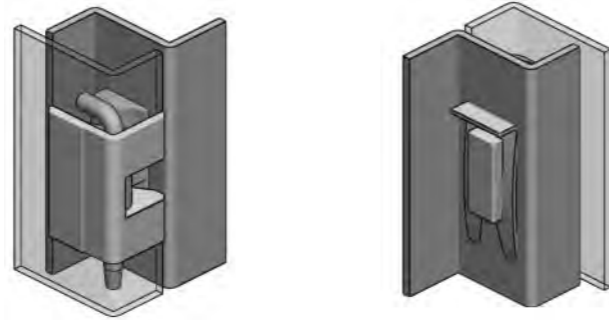
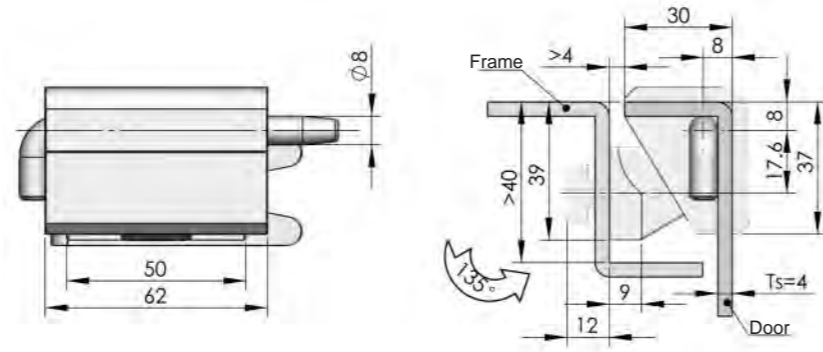


**Main material and finish:** Sand-spraying aluminum alloy hinge, stainless steel shaft  
**Application:** Opening angle 180°

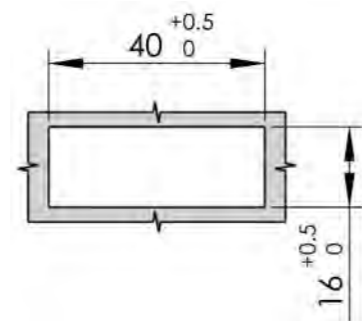
**CL154**



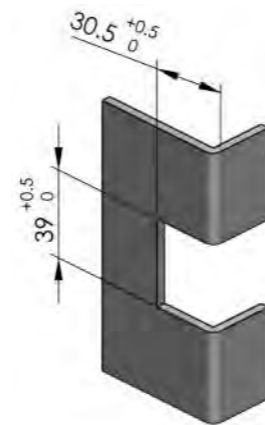
**Main material and finish:** Blue-gray (RAL 7012) powder coated ZDC hinge and stainless steel shaft  
**Application:** Opening angle 135°



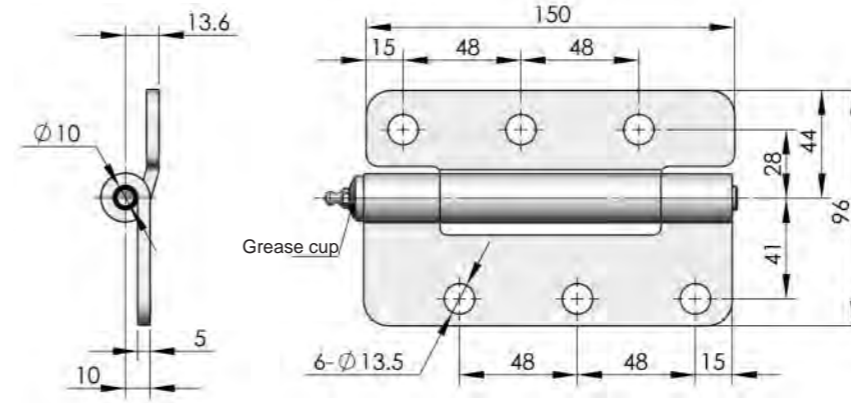
**Frame cutout**



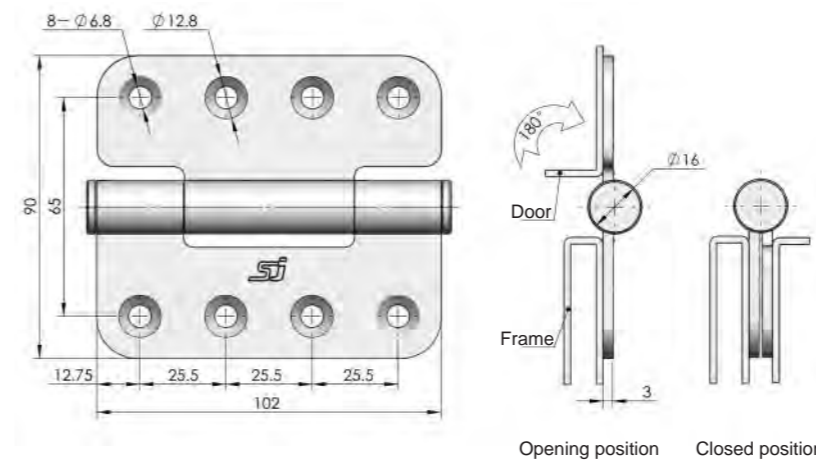
**Door cutout**



ERP CL154ZX001



ERP CL158F3D001



ERP CL158S4B001

**CL158**



**Main material and finish:** White zinc-plated steel hinge leaf and shaft

**CL158-2**




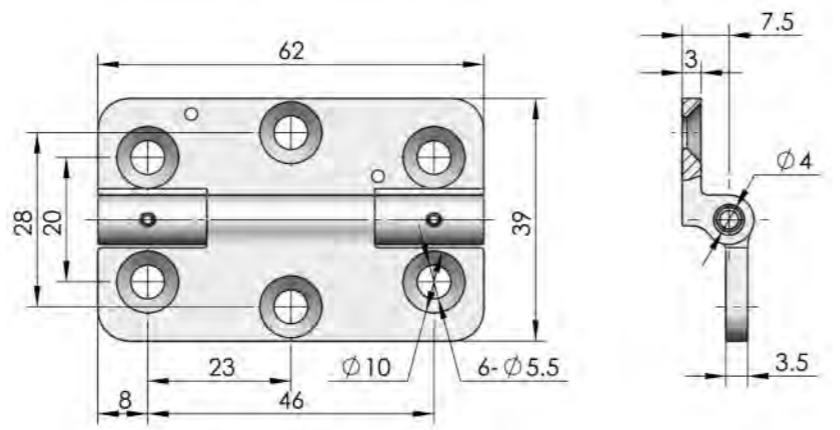
**Main material and finish:** Wiredrawing stainless steel hinge leaf, stainless steel shaft  
**Application:** Opening angle 180°

Accessories
Handle lock
Cylinder lock
Electronic lock
Plane lock
Rod control lock
Panel lock
Toggle and hook
Handles
Door stop
Hinge
Seal gasket

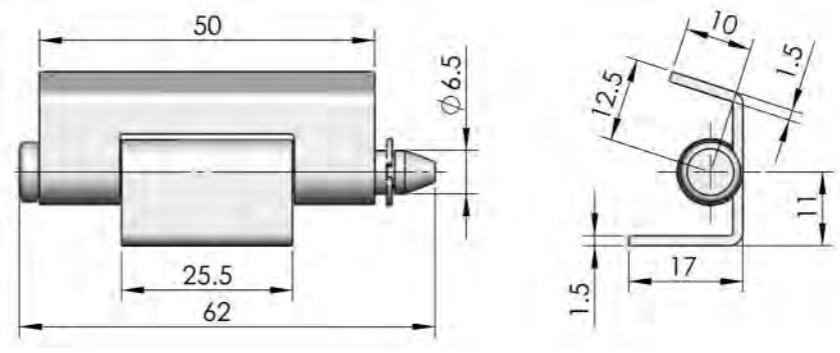


**CL163**

 **Main material and finish:** Wiredrawing stainless steel hinge leaf and shaft




ERP CL163S4B001



ERP CL168F3D001




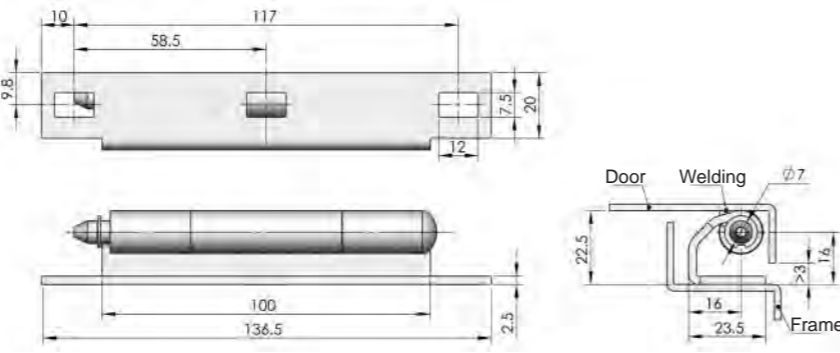
**CL168**

 **Main material and finish:** White zinc-plated steel hinge leaf and shaft

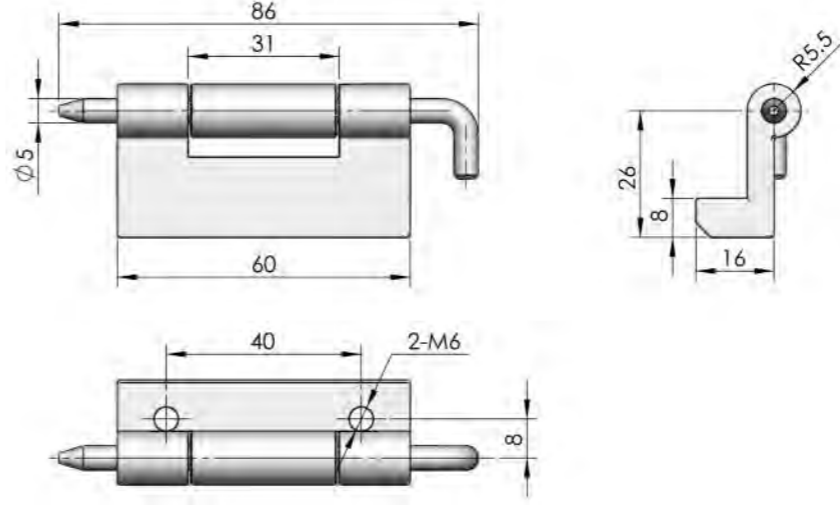


**CL167**

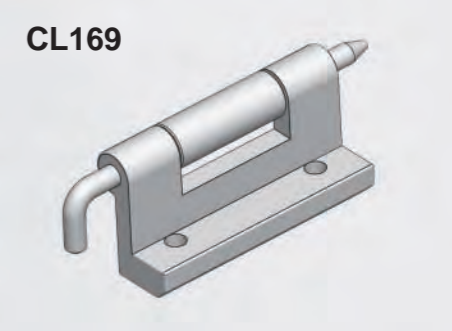
 **Main material and finish:** White zinc-plated steel hinge leaf, white zinc-plated aluminium alloy shaft  
**Application:** Opening angle 120°




ERP CL167F3D001



ERP CL169Z3D001



**CL169**

 **Main material and finish:** White zinc-plated ZDC female hinge, steel male hinge and shaft

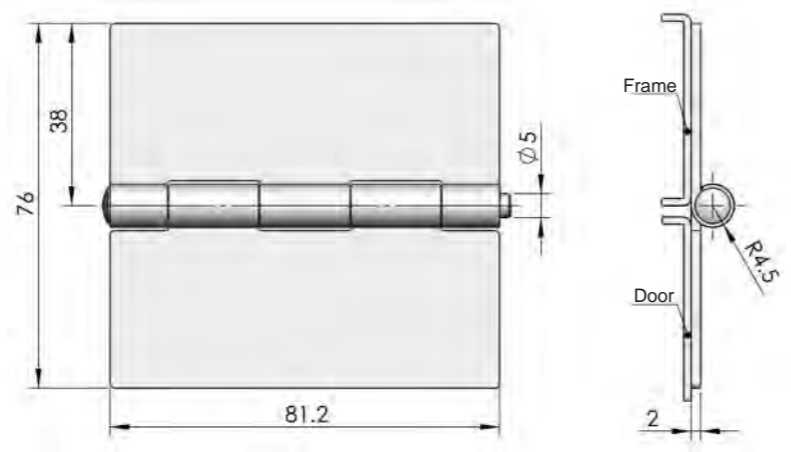
Accessories
Handle lock
Cylinder lock
Electronic lock
Plane lock
Rod control lock
Panel lock
Toggle and hook
Handles
Door stop
Hinge
Seal gasket

Accessories
Handle lock
Cylinder lock
Electronic lock
Plane lock
Rod control lock
Panel lock
Toggle and hook
Handles
Door stop
Hinge
Seal gasket

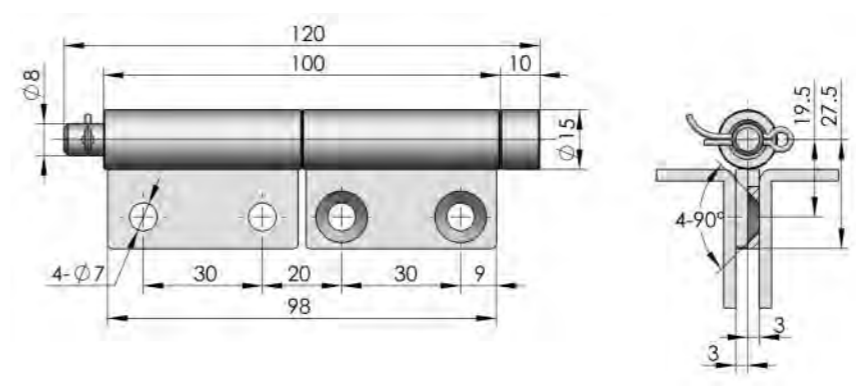


**CL170**

Main material and finish: Zinc-plated steel hinge and pin



ERP CL170F3D001



ERP CL179S4B001



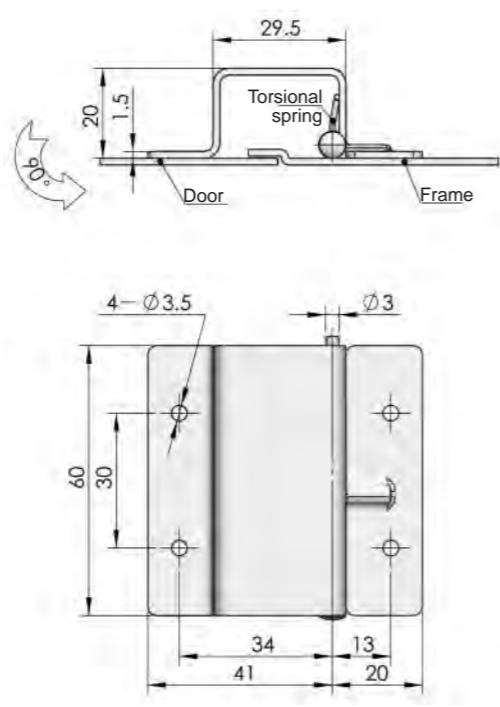
**CL179**

Main material and finish: Wiredrawing stainless steel hinge

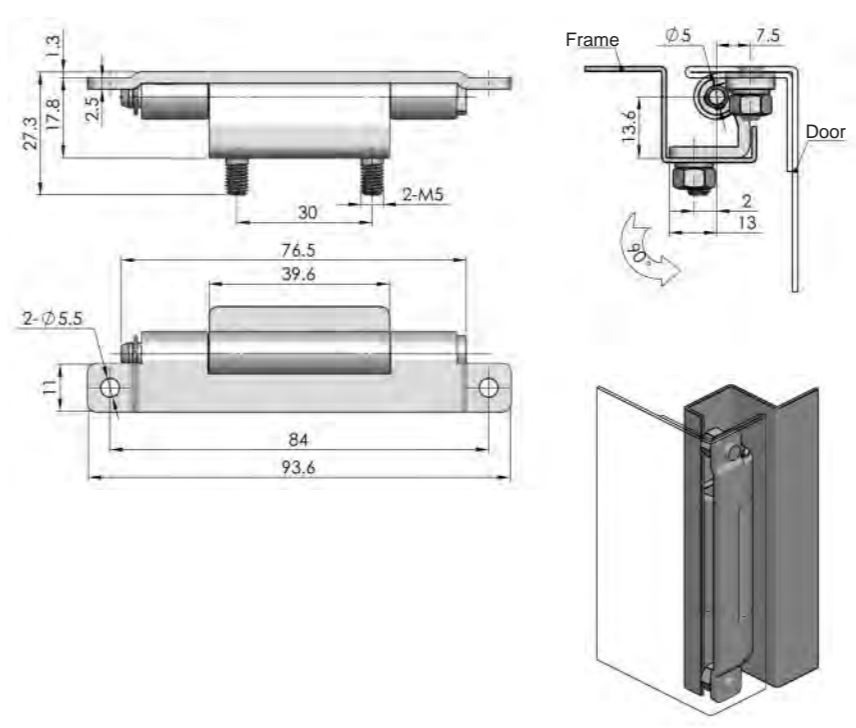


**CL173**

Main material and finish: Stainless steel hinge leaf and shaft  
Application: Opening angle 90°



ERP CL173S00001



ERP CL180SXX001





**CL180**

Main material and finish: Magnetic force polishing SUS304 stainless steel hinge

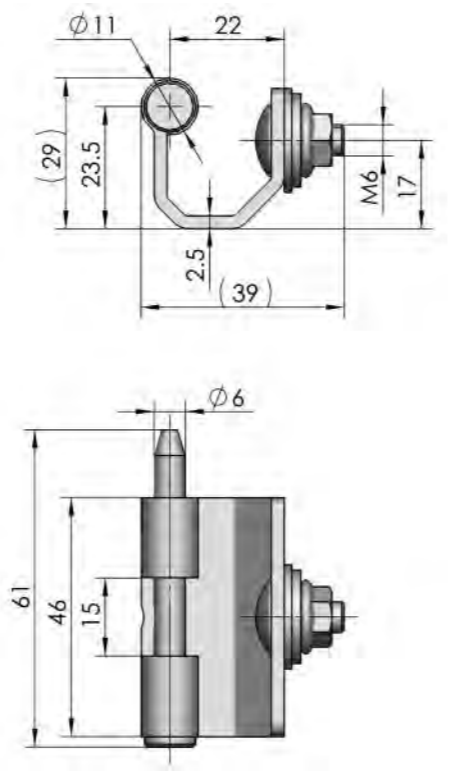
Accessories
Handle lock
Cylinder lock
Electronic lock
Plane lock
Rod control lock
Panel lock
Toggle and hook
Handles
Door stop
Hinge
Seal gasket

**CL190**

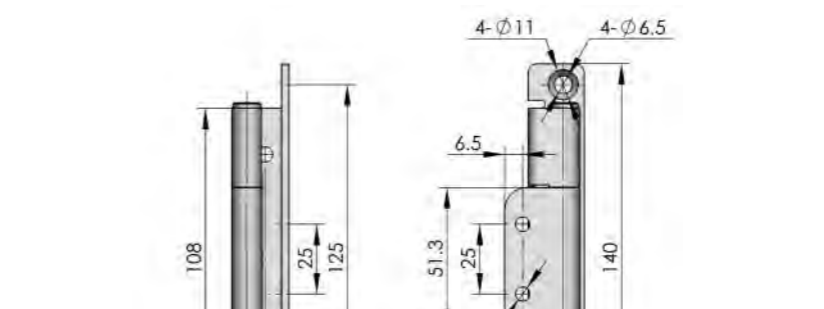





**Main material and finish:** White zinc plated steel hinge

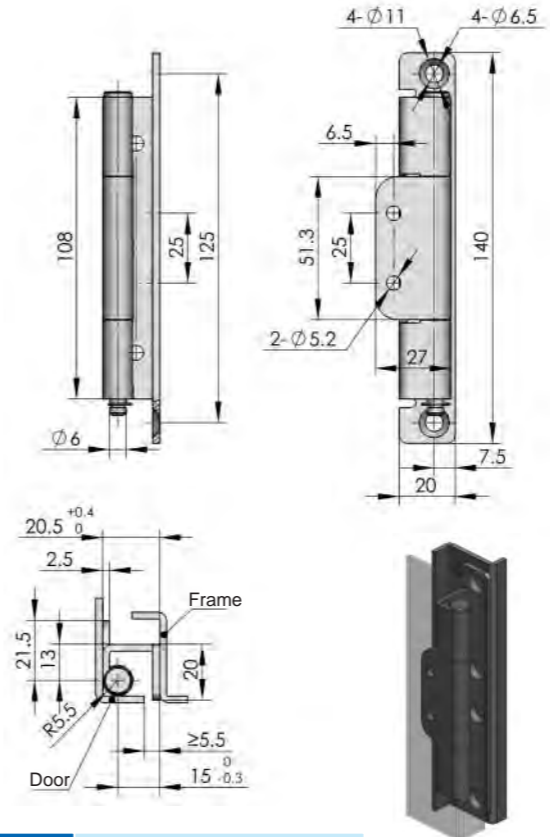


ERP CL190F3D001







**Main material and finish:** Electrolysis stainless steel hinge leaf and shaft  
**Application:** Opening angle 120°



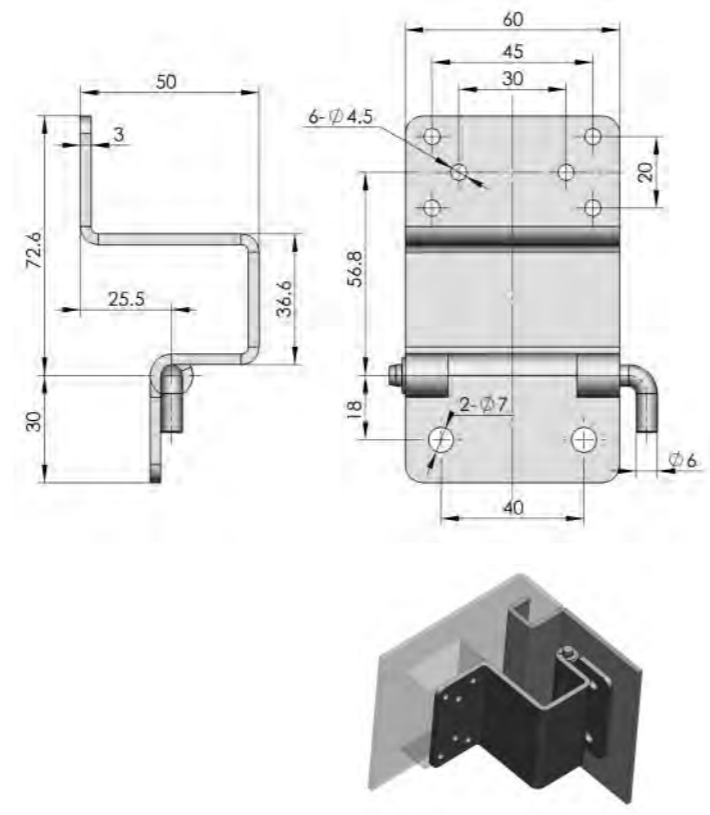
ERP CL186S9C001

**CL181**

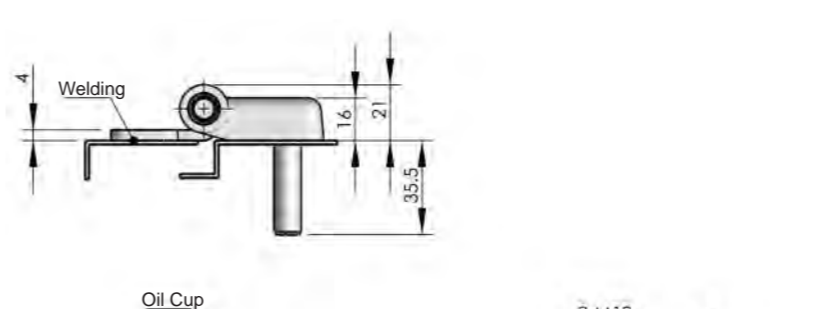





**Main material and finish:** White zinc plated steel hinge leaf and stainless steel shaft

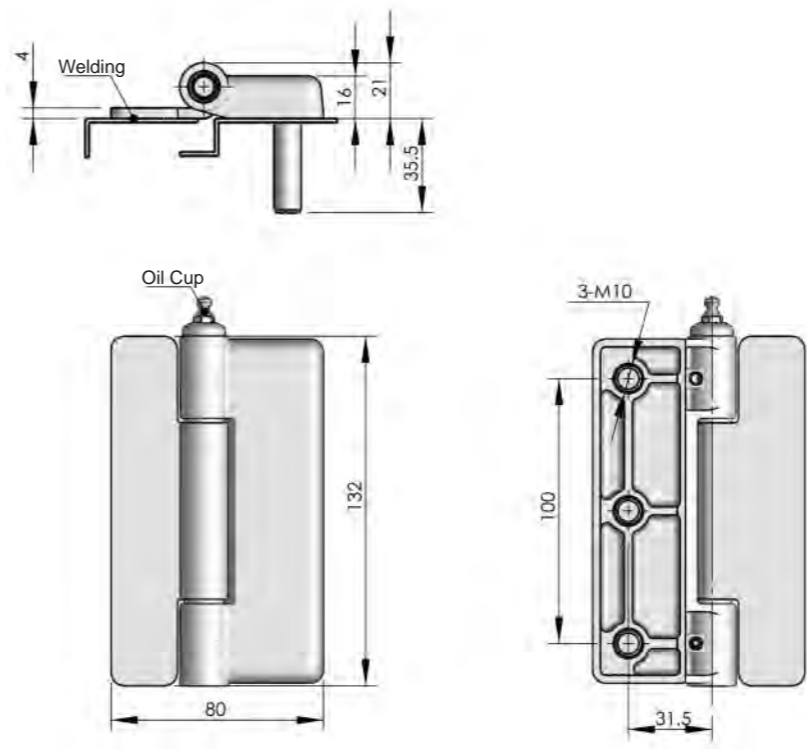


ERP CL181F3J001





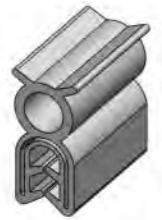




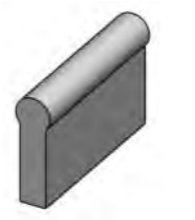


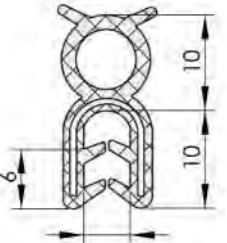
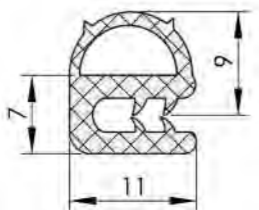
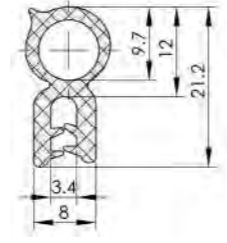
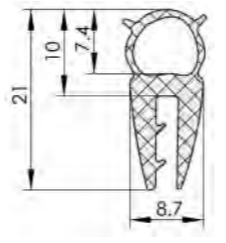
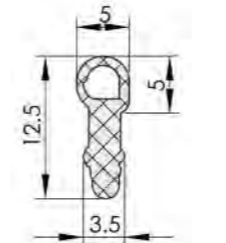
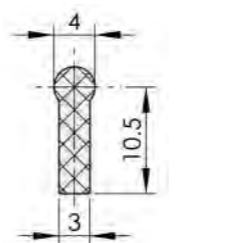
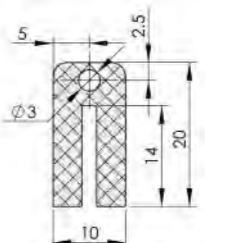
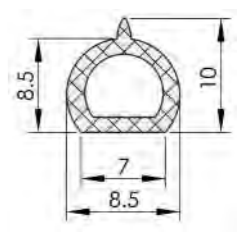




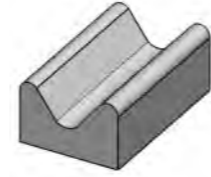
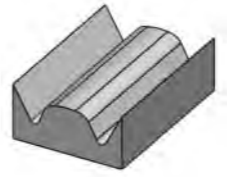

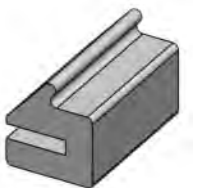
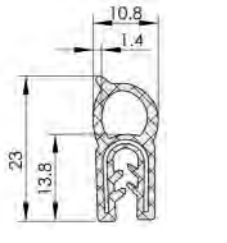
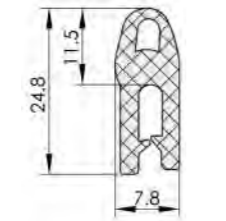
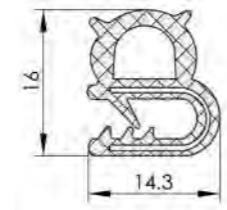
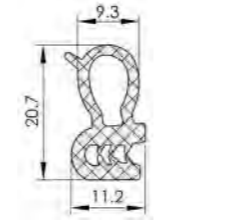
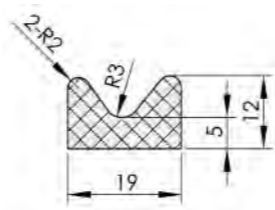
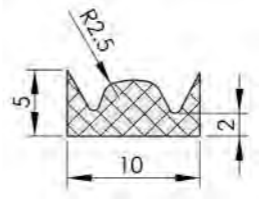
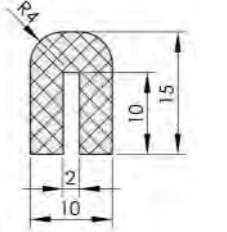
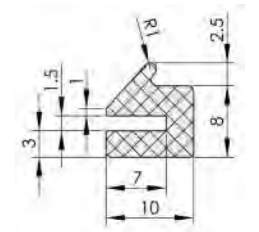




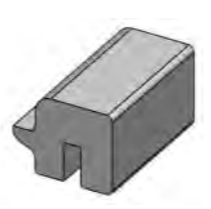


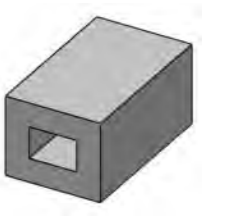
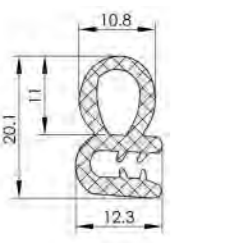
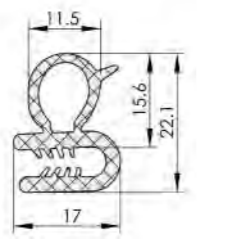
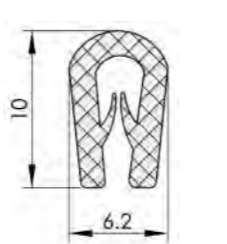
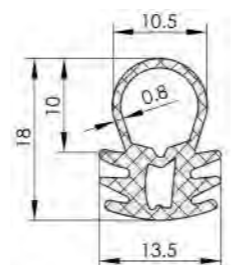
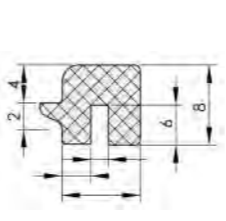
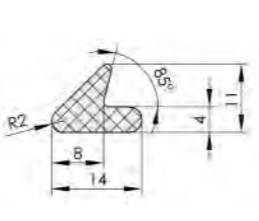
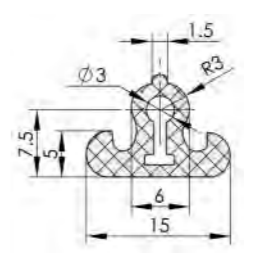
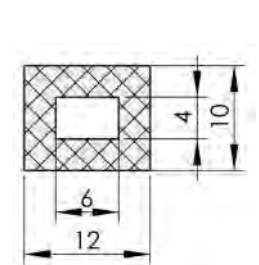
**Main material and finish:** Phosphating 45# steel hinge  
**Application:** Opening angle 180°




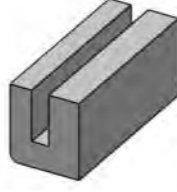
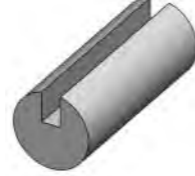





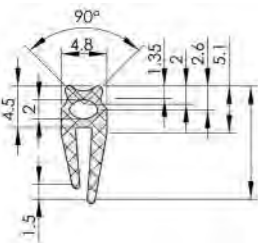
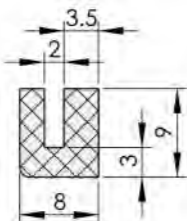
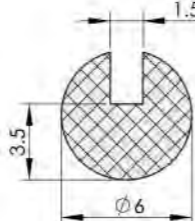
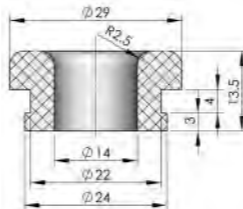
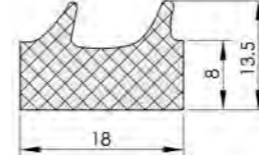
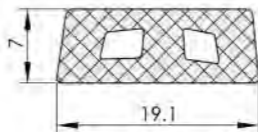
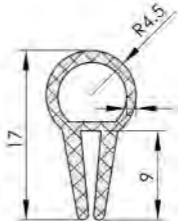
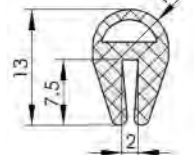
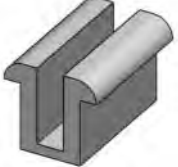



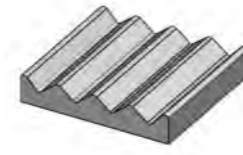
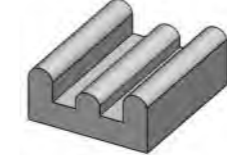


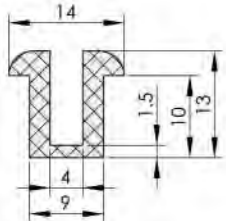
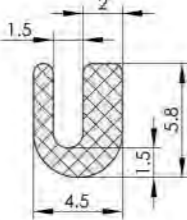
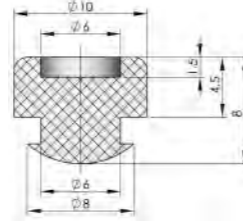
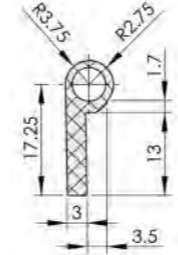
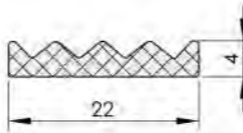
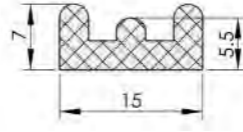
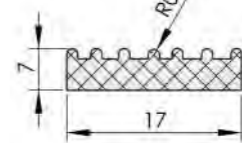
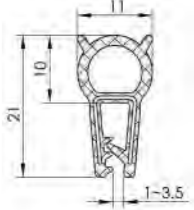








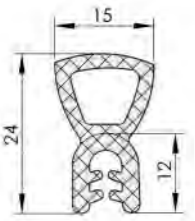
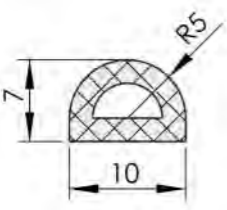
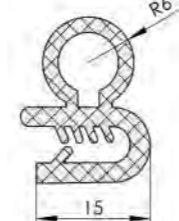
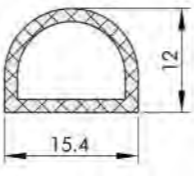
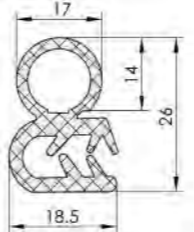
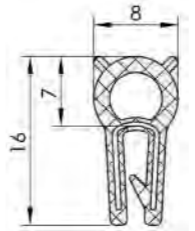
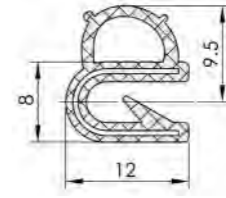
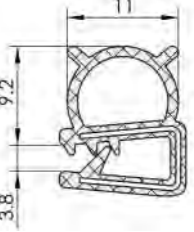
ERP CL188FXX001

Accessories
Handle lock
Cylinder lock
Electronic lock
Plane lock
Rod control lock
Panel lock
Toggle and hook
Handles
Door stop
Hinge
Seal gasket



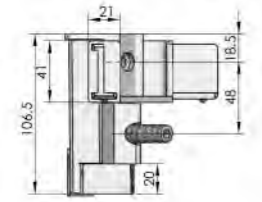
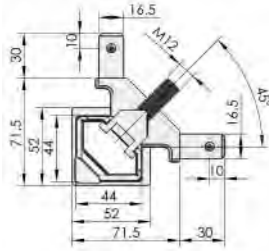
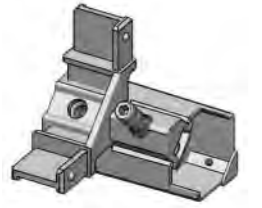
Accessories	<b>MFT-001</b> 	<b>MFT-002</b> 	<b>MFT-003</b> 	<b>MFT-004</b> 	<b>MFT-017</b> 	<b>MFT-018</b> 	<b>MFT-019</b> 	<b>MFT-020</b> 	Accessories
Handle lock									Handle lock
Cylinder lock									Cylinder lock
Electronic lock									Electronic lock
Plane lock	<b>MFT-005</b> 	<b>MFT-007</b> 	<b>MFT-009</b> 	<b>MFT-010</b> 	<b>MFT-025</b> 	<b>MFT-026</b> 	<b>MFT-027</b> 	<b>MFT-028</b> 	Plane lock
Rod control lock									Rod control lock
Panel lock									Panel lock
Toggle and hook									Toggle and hook
Handles	<b>MFT-011</b> 	<b>MFT-012</b> 	<b>MFT-015</b> 	<b>MFT-016</b> 	<b>MFT-029</b> 	<b>MFT-031</b> 	<b>MFT-032</b> 	<b>MFT-034</b> 	Handles
Door stop									Door stop
Hinge									Hinge
Seal gasket									Seal gasket



Accessories	<b>MFT-036</b> 	<b>MFT-037</b> 	<b>MFT-038</b> 	<b>MFT-039</b> 	<b>MFT-051</b> 	<b>MFT-054</b> 	<b>MFT-055</b> 	<b>MFT-056</b> 	Accessories
Handle lock									Handle lock
Cylinder lock									Cylinder lock
Electronic lock									Electronic lock
Plane lock	<b>MFT-041</b> 	<b>MFT-042</b> 	<b>MFT-043</b> 	<b>MFT-045</b> 	<b>MFT-058</b> 	<b>MFT-059</b> 	<b>MFT-060</b> 	<b>MFT-065</b> 	Plane lock
Rod control lock									Rod control lock
Panel lock									Panel lock
Toggle and hook									Toggle and hook
Handles	<b>MFT-047</b> 	<b>MFT-048</b> 	<b>MFT-049</b> 	<b>MFT-050</b> 	<b>MFT-067</b> 	<b>MFT-068</b> 	<b>MFT-069</b> 	<b>MFT-070</b> 	Handles
Door stop									Door stop
Hinge									Hinge
Seal gasket									Seal gasket

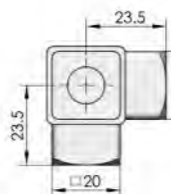
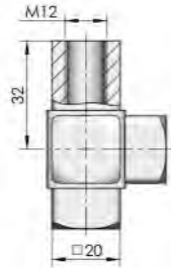
**Tee Pipe**

**FJ022**



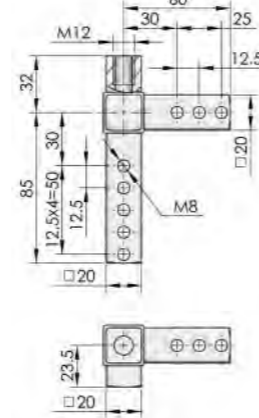
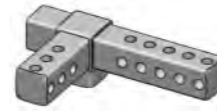
ERP	Material
1120000082	Aluminium alloy

**FJ019-3**



ERP	Material
1120000096	Carbon steel

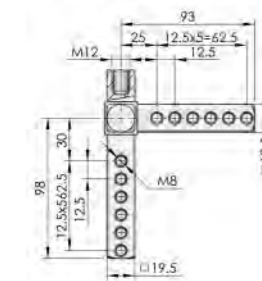
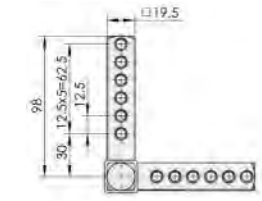
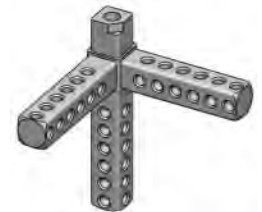
**FJ019-2**



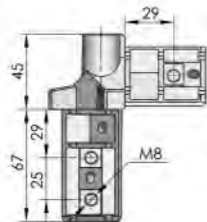
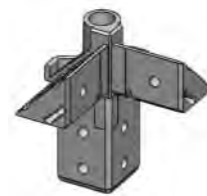
Material: Carbon steel

ERP	
Left	Right
1120000089	1120000090

**FJ019-1D**



ERP	Material
1120000086	Carbon steel



ERP	Material
1120000011	Carbon steel

**Index**

Model	Page	Model	Page	Model	Page	Model	Page
<b>Cabinet Lock</b>							
MS301	037	MS717-2	137	MS745-2	105	MS813-5B	080
MS302	037	MS718	135	MS746-2	105	MS813-B	079
MS303	097	MS718-3	135	MS748	106	MS815-1	110
MS304	038	MS718-3C	136	MS750	084	MS815-2	111
MS305	038	MS719	138	MS753	107	MS815-3	111
MS306	039	MS719-1C	138	MS754	078	MS816-1	091
MS307	040	MS719-1U	136	MS760	108	MS816-1A	091
MS308	040	MS720	132	MS761	068	MS816-2	092
MS310	041	MS720-3	159	MS762	101	MS816-3S-1	093
MS317	043	MS721	072	MS767-1	098	MS816-3S-2	093
MS319	044	MS722	068	MS767-2	098	MS816-4B	090
MS320	045	MS723	157	MS769-1	099	MS817	094
MS322-2	042	MS723-2	158	MS769-2	099	MS818-1C	146
MS324	046	MS723-3	158	MS769-3	100	MS818-1S	146
MS324-2	046	MS726-1	139	MS772	069	MS818-2C	146
MS330	097	MS726-1A	139	MS773	075	MS818-3B	147
MS703	131	MS726-2	140	MS775-2	108	MS819-1	176
MS704-1	082	MS726-3	140	MS782	129	MS819-2	176
MS704-1A	082	MS727	142	MS784	100	MS820	164
MS704-2	083	MS728	132	MS786	095	MS820-1A	165
MS705	059	MS729-1	102	MS793	113	MS821	166
MS705-1W-2D	064	MS729-2	102	MS794	101	MS822	073
MS705-3A	063	MS729-3	102	MS794-2	055	MS823-1	096
MS705-3C	065	MS730	133	MS801-1	086	MS823-1A	096
MS705-3C-4	065	MS730-1A	133	MS801-2	087	MS824	112
MS705-3D	066	MS731-1	162	MS802	109	MS825	112
MS705-3E	066	MS731-2	162	MS803	087	MS826	113
MS705-3U	067	MS731-3	163	MS804	109	MS828	168
MS705-8G	064	MS731-4	163	MS805	073	MS828-1F	169
MS705-K	067	MS731-6	167	MS806	110	MS829	170
MS706	081	MS732	134	MS807-1	047	MS830	171
MS707	131	MS733	102	MS807-2	047	MS830-3	171
MS708	134	MS734	075	MS807-3	047	MS830-6	172
MS710	142	MS735	076	MS809	081	MS831-1	176
MS712	141	MS735-2	076	MS810-2	208	MS831-2	176
MS712-5	123	MS735-4	077	MS811-1	088	MS832-1	177
MS713	141	MS736	143	MS811-2	088	MS832-1P	177
MS713-4	125	MS737	143	MS811-3	088	MS832-2	177
MS713-Q	141	MS738	144	MS811-4	089	MS833-1	177
MS714-1	070	MS739	079	MS811-5	089	MS833-2	177
MS714-2	070	MS741	103	MS811-6	090	MS834-1	178
MS714-3	071	MS742	103	MS812-1	085	MS834-2	178
MS714-4	071	MS743	104	MS812-2	085	MS834-5	159
MS715	072	MS744	104	MS813	079	MS834-6	197
MS717-1	137	MS745-1	105	MS813-4	080	MS834-7	126

## Index

Model	Page	Model	Page
<b>Cabinet Lock</b>			
MS835-1	179	MS864-1	152
MS835-2	179	MS864-1A	152
MS836-1	180	MS864-3	153
MS836-2	180	MS864-3A	154
MS837	074	MS864-4	160
MS839	148	MS864-8	115
MS839-5	149	MS865	198
MS840-1	181	MS866-1	218
MS840-2	181	MS866-11	224
MS840-4	182	MS866-13	226
MS840-A	188	MS866-14	225
MS840-B	189	MS866-2	218
MS840-C	190	MS866-20	128
MS841	049	MS866-21	227
MS842	042	MS866-21S	227
MS843	150	MS866-22	226
MS844	083	MS866-3	219
MS845-1	084	MS866-4	219
MS845-3	084	MS866-5	220
MS845-5	069	MS866-5F	221
MS846-1	183	MS866-6	222
MS846-2	183	MS866-7	223
MS848-1	184	MS866-8	223
MS848-2	184	MS867	206
MS848-4A	193	MS867-5	127
MS848-4B	193	MS868	051
MS848-B	191	MS870	228
MS850-1	213	MS871	229
MS850-1A	213	MS874	155
MS850-2	214	MS875-1	194
MS850-2A	214	MS875-1A	196
MS853	210	MS875-2	194
MS855-1	201	MS875-2A	196
MS855-2	201	MS875-3	195
MS855-3	203	MS876	200
MS855-5	205	MS881-3	214
MS856	215	MS882	207
MS857	216	MS887-1	051
MS858	217	MS887-2	052
MS859	050	MS887-3	053
MS861	151	MS887-4	054
MS861-2	151	MS889	209
MS861-2A	156	MS892-1A	145
MS861-2E	192	MS899	119
MS863	155	MS901	121

Model	Page	Model	Page
MS903	122	<b>Hinge Series</b>	
MS983	229	CL103	356
		CL104	357
		CL105	357
		CL106	358
		CL108	358
		CL109	359
		CL111	359
		CL114	360
		CL115	360
		CL116	361
		CL117	361
		CL119	362
		CL121	362
		CL123	363
		CL124	363
		CL125	364
		CL126	364
		CL127-1	354
		CL127-2	354
		CL130-2	365
		CL132	365
		CL132-2	366
		CL133	367
		CL133-2	367
		CL135	368
		CL137	369
		CL138	369
		CL138-3	370
		CL139	370
		CL142	371
		CL145	371
		CL148	372
		CL150	372
		CL151	373
		CL152	373
		CL152-2	374
		CL154	375
		CL156	374
		CL158	376
		CL158-2	376
		CL163	377
		CL167	377
		CL168	378
		CL169	378
		CL170	379

## Index

Model	Page	Model	Page	Model	Page	Model	Page
<b>Hinge Series</b>				<b>Hinge Series</b>			
CL173	379	CL213-1	304	CL238-2	326	CL275-1	347
CL179	380	CL213-2	305	CL238-3	326	CL275-2	347
CL180	380	CL213-3	305	CL240-1	325	CL276	348
CL181	381	CL214	306	CL240-2	325	CL280	348
CL186	382	CL215	306	CL242	327	CL281	349
CL188	382	CL216	307	CL243	327	CL282-1-Y	349
CL190	381	CL217	307	CL244	328	CL282-1-Z	349
CL201-1	287	CL218	309	CL246	328	CL282-2-Y	350
CL201-1A	287	CL218-5	308	CL247	329	CL282-2-Z	350
CL201-2	288	CL219	310	CL248	329	CL283-1	350
CL201-3	288	CL220	311	CL249	330	CL283-2	350
CL201-4	289	CL221	311	CL250-1	330	CL283-4	351
CL201-5	289	CL222	312	CL250-2	330	CL288	351
CL201-6	290	CL223	312	CL250-3	331	CL289	352
CL202-1	290	CL225-1	313	CL250-4	331	CL290	352
CL202-2	291	CL225-1A	313	CL251	331	CL293	353
CL203-1	292	CL225-2	313	CL252	332	CL294	353
CL203-2	292	CL225-3	314	CL253-1	332	CL295	342
CL203-2B	291	CL225-5	315	CL253-2	333	CL296	342
CL203-3	292	CL225-6-Y	315	CL253-3	333	CL299-1-Z	355
CL203-4	293	CL225-6-Z	315	CL253-4	333	CL331	355
CL204-1	293	CL226-1	316	CL253-4A	334	CL332	356
CL204-2	294	CL226-2	316	CL253-5	334		
CL204-3	294	CL226-2A	316	CL253-6	335		
CL204-3C	294	CL226-3	316	CL253-7	335		
CL204-3D	295	CL226-4A	317	CL253-9	336		
CL204-3F	296	CL226-5A	317	CL253-10	336		
CL204-3S	295	CL226-6A	318	CL253-13	344		
CL205-1	296	CL226-7	318	CL253-20	337		
CL205-2	297	CL226-7A	318	CL253-23	337		
CL206-1	297	CL226-8	319	CL254	338		
CL206-2	298	CL228	319	CL255	339		
CL206-3	298	CL229	320	CL256	338		
CL206-3B	299	CL230	321	CL257	340		
CL206-4	299	CL230-3	320	CL260	340		
CL207	300	CL230-4	321	CL261	341		
CL208	300	CL231-1	322	CL262	341		
CL209-1	301	CL232	322	CL264	314		
CL209-1C	301	CL233	323	CL266	343		
CL209-2	301	CL234	323	CL268	344		
CL210	302	CL235	324	CL269	343		
CL211	302	CL236	324	CL270	345		
CL212	303	CL237	325	CL272	345		
CL212-3A	303	CL237-2	308	CL273	346		
CL212-3B	304	CL238-1	326	CL274	346		

# Index

Model	Page	Model	Page	Model	Page
<b>Toggle and hook series</b>		<b>Handles series</b>		<b>Door stop series</b>	
DKS	235	LS501	259	TX80-1	279
DK601	235	LS502	259	TX80-2	279
DK602	236	LS503	260	TX90-1	280
DK603	239	LS504-1	260	TX90-2	281
DK603-3	238	LS504-2	261	TX90-3	281
DK604	239	LS504-3	261	TX91	282
DK605	240	LS505	262	TX92-1	283
DK606	240	LS506	263	TX92-2	283
DK607-1	241	LS507	262	TX94	282
DK607-2	241	LS508	264	TX100-A	284
DK609	242	LS509	265	TX100-B	284
DK610	243	LS510	266	TX101-1	285
DK611	243	LS511	267	TX101-2	285
DK612	244	LS513	268		
DK615	245	LS514-1	269		
DK616	245	LS514-2	269		
DK617	246	LS514-3-4-5	269		
DK618-1	247	LS515	266		
DK618-2	247	LS516	270		
DK618-3	247	LS516-2A	270		
DK618-4	247	LS518	271		
DK619-2-1D	237	LS519	271		
DK623	246	LS520	272		
DK624	248	LS521	272		
DK633-1	249	LS522	273		
DK634	250	LS523	274		
DK635	250	LS527	274		
DK637	251	LS531	275		
DK638	251	LS532	275		
DK639	252	LS537-3	276		
DK641	253	LS538	276		
DK642	254	LS539	277		
DK680	231				
DK690	232				
DK725-1	255				
DK725-2	255				
DK725-3B	255				
DK725-5	256				
DK725-7	257				
DK790	233				
DK880	234				
				<b>Accessories</b>	
				Cam	007-013
				Rod LG )	016-020
				Guide, Catcher	021-026
				Cap, Pull	027-028
				Profile cylinder	029
				Key	031-034
				<b>Seal gasket series</b>	384-388
				<b>Tee pipe</b>	389

## Sample Tips

The performance and application specification of our products are only for reference. If the application conditions of the chosen products and the matching products can not be confirmed, then they should be tested under the practical situation and environment. Thereby it can be confirmed whether the products are suitable for the users and whether they satisfy the users in the application. The application conditions will be changed in different applicable occasions and by different installed methods, so the sample only introduces the products' general performance and application. The standard size is only for the users to confirm the products' external size and provide them proper installed methods. **Any mistake or drawback of those data in practical application, we highly welcome your feedback information.**

Order of regular standard items will be handled and dispatched faster than those of irregulars and nonstandard ones.

All of our cabinet locks, hinges, door stops and other regular products are RH application. Drawings of this catalog may not share single unified scale.