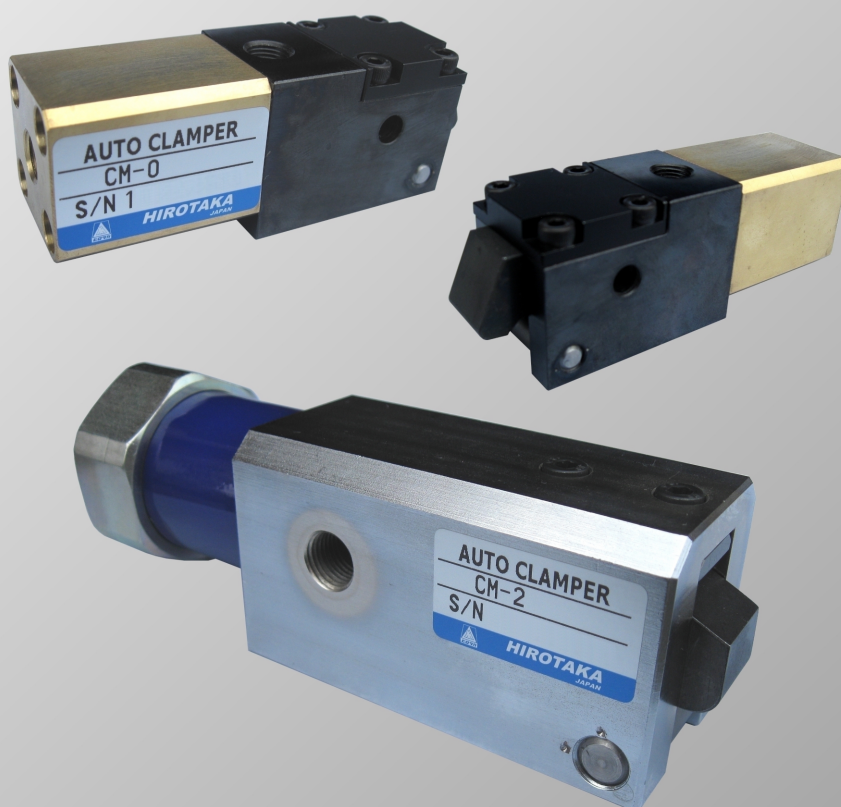




Useable both pneumatic and hydraulic

AUTO CLAMPER

Compact clamping tool.



HIROTA MFG. CO.,LTD.

AUTO CLAMPER

Compact, lightweight and easy-to-use pneumatic and hydraulic clamp.
Use this clumper for automation and labor saving of JIG.

Overview

The auto clumper CM series is a device that saves the trouble of designing complicated JIG and reduces the burden on workers.

The clamp arm moves forward and then descends to clamp the workpiece so that it can be clamped even in narrow working spaces.

Either pneumatic or hydraulic fluid can be used depending on the work application.

How to order

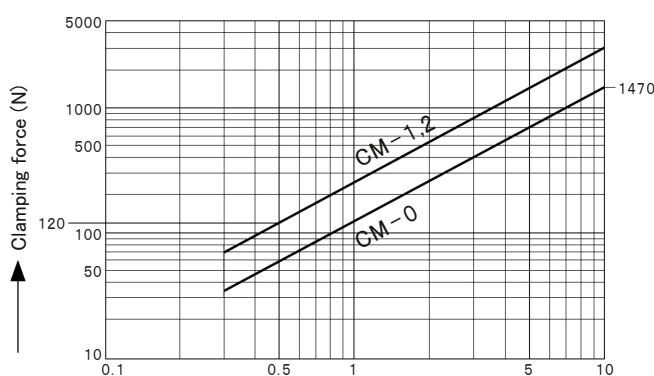
CM W - 1 - 2

Series	Symbol	With auto switch (Built-in magnet)	Symbol	Body type	Symbol	Number of Auto switches
Auto Clumper	Nil	Without magnet	0	CM-0	1	1 pc.
	W	Magnet sensing	1	CM-1	2	2 pcs.
			2	CM-2		

Specification

Model number	CM-0	CM-1	CM-2
Cylinder diameter	φ20	φ30	φ30
Cylinder stroke	15mm	20mm	30mm
Fluid	Air or Oil		
Operating pressure	Port 1 : 0.4 to 1.0MPa Port 2 : 0.4 to 10.0MPa		
Amount of oil	4.8cm ³	15cm ³	22cm ³
Clamping force	At 0.5MPa At 10MPa	60N 1470N	120N 3000N
Mass	0.6kg	1.7kg	1.8kg

Operating pressure and clamping force

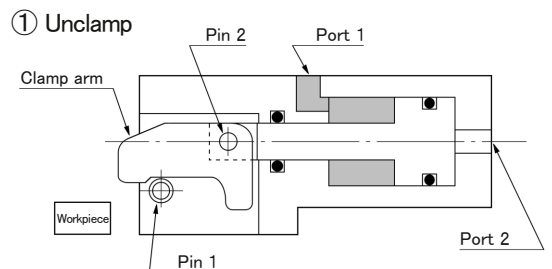


CMW-1 and 2 have the same clamping force as CM-1 and 2.

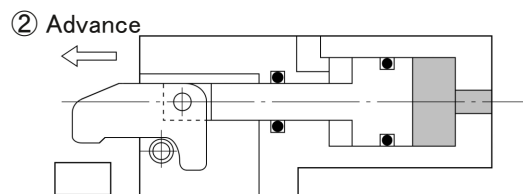
Feature

- 1 It is a compact type that can be easily incorporated into JIG.
- 2 Clamp arm that can move forward and backward to easily mount and remove workpieces.
- 3 Zero trouble due to simple structure.
- 4 Actuation by air can be used as a clamping device for light loads.
- 5 By using our product Rush Booster, the tightening force can be greatly increased from pneumatic to hydraulic.
- 6 There is also type with switch.

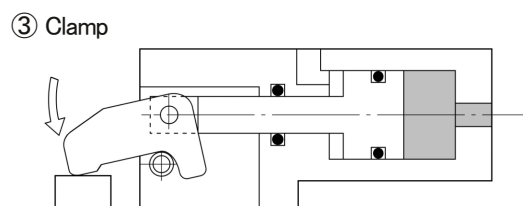
Action description



The clamp arm returns when fluid is supplied to the port 1.



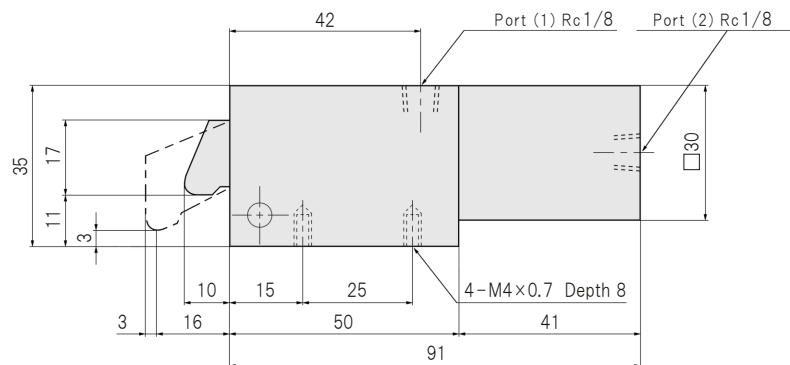
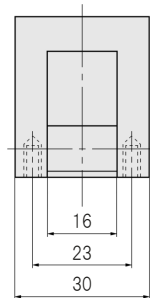
When fluid is supplied to port 2, the clamp arm moves forward until it hits pin 1 and reaches the top of the workpiece.



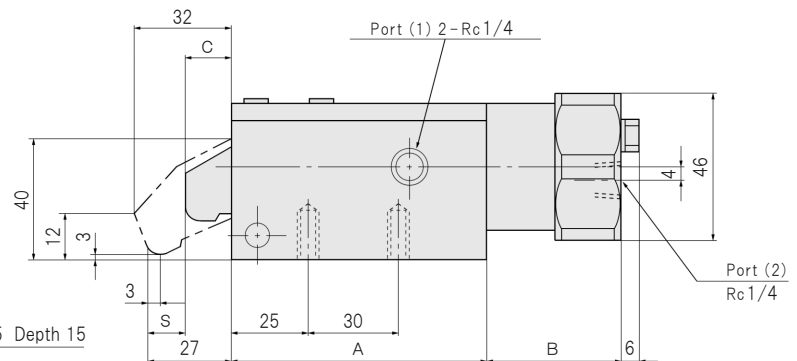
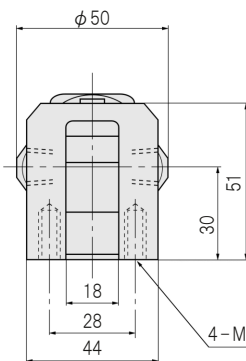
Furthermore, when fluid flows into port 2, the clamp arm rotates around pin 2, and the tip descends to clamp the workpiece. When fluid is supplied to port 1, it advances from ② to ① and returns to the initial position.

Dimension

CM-0



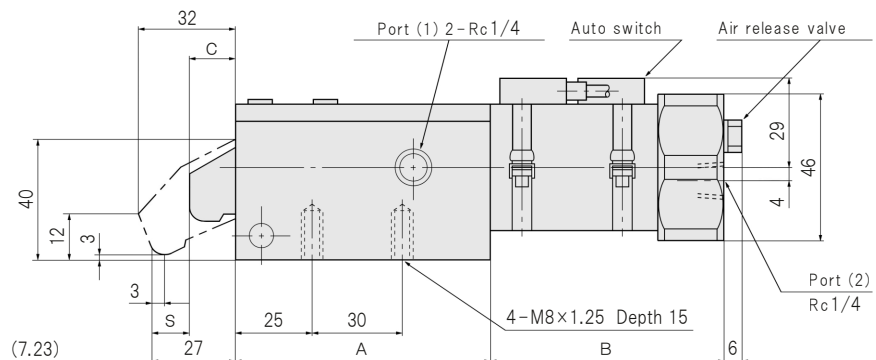
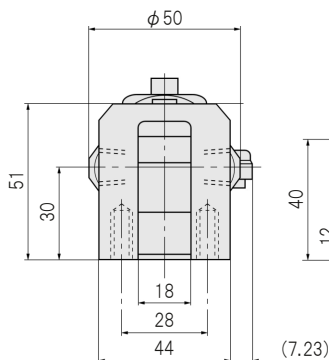
CM-1, 2



Unit: mm

Model \ Symbol	A	B	C	S
CM-1	85	45	16	11
CM-2	95	55	6	21

CMW-1-2, CMW-2-2



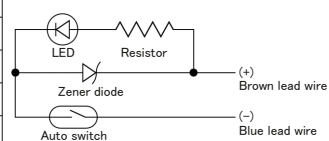
Unit: mm

Model \ Symbol	A	B	C	S
CMW-1-2	85	78	16	11
CMW-2-2	95	88	6	21

Specifications for auto switch

Model	SWC-1R
Color	Red
Load current range	3 to 50 mA
Internal voltage drop	2.5 V or less
Load voltage	5 to 100 VAC/VDC
Contact type	Read, LED illuminates when turned ON
Lead wire	Two – core cable, 1 m
Impact resistance	30 G (11 msec)
Vibration resistance	20 G (10 to 1000 Hz)
Working temperature range	-10 to 60 °C
Protection structure	IP67 (IEC)

Internal circuit





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PNEUMATIC POWER CYLINDER

PNEUMATIC BOOSTER

POWER PACK CYLINDER

RUSH BOOSTER

HYDRAULIC CYLINDER

FREE LOCK PAD

SELLOCK CYLINDER

FLOATING CONNECTOR

AUTO CLAMPER

SEL NUT

LINEA BRAKE

**PNEUMATIC AND HYDRAULIC
EQUIPMENT**