Cilindro Hidraulico Compacto com Embolo Magnético - Série CHDR

Operating pressure10MPa (100kg/cm) Conform to JIS standard

Features

1. Conform to JIS standard
2. Precise & exquisite aluminium alloy body
3. All sizes with magnet. Sensor is optional.
4. Saving mounting space, easy to match the mold
5. Direct mounting, no request of accessories, saving cost.

Specification

Series	HDR
Action	Double rod type
Bore	Ø32、Ø40、Ø50、Ø63
Operating fluid	Filtered oil
Proof pressure	15MPa(150 kgf/cm²)
Operating pressure	0.3~10MPa(3~100kgf/cm²)
Piston speed range	8~100mm/sec
Temperature range	-10°C~+60°C (With sensors)
Screw tolerance	Level 2
Stroke tolerance	$^{+0.8}_{0}$ mm
Mounting	Thru.hole

How to order

CHDR 40 X 50 LB F SM-32R

Series

Bore

Ø32
Ø40
Ø50
Ø63

Stroke

5~75 mm
5~100 mm

Accessories

.....	Standard type
LB	Bracket type

Rod end thread

F	Female thread
M	Male thread

Reed switch

Standard stroke

Stroke / Bore	5	10	15	20	25	30	40	50	75	100
Ø32	●	●	●	●	●	●	●	●	●	
Ø40	●	●	●	●	●	●	●	●	●	●
Ø50	●	●	●	●	●	●	●	●	●	●
Ø63	●	●	●	●	●	●	●	●	●	●

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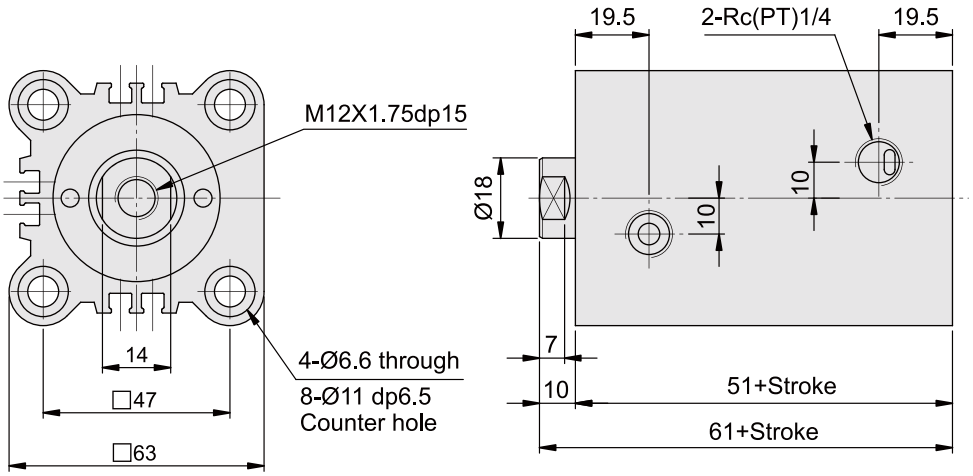
Theoretical output

(N)

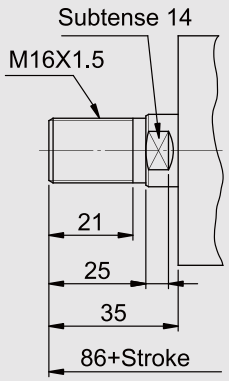
Bore(mm)	Rod size (mm)	Operating direction	Piston area (mm^2)	Operating pressure(MPa)		
				3.5	7	10
32	18	OUT	804	2814	5628	8040
		IN	549	1922	3843	5490
40	22.4	OUT	1256	4396	8792	12560
		IN	862	3017	6034	8620
50	28	OUT	1963	6871	13741	19630
		IN	1347	4715	9429	13470
63	35.5	OUT	3117	10910	21819	31170
		IN	2127	7445	14889	21270

External dimensions

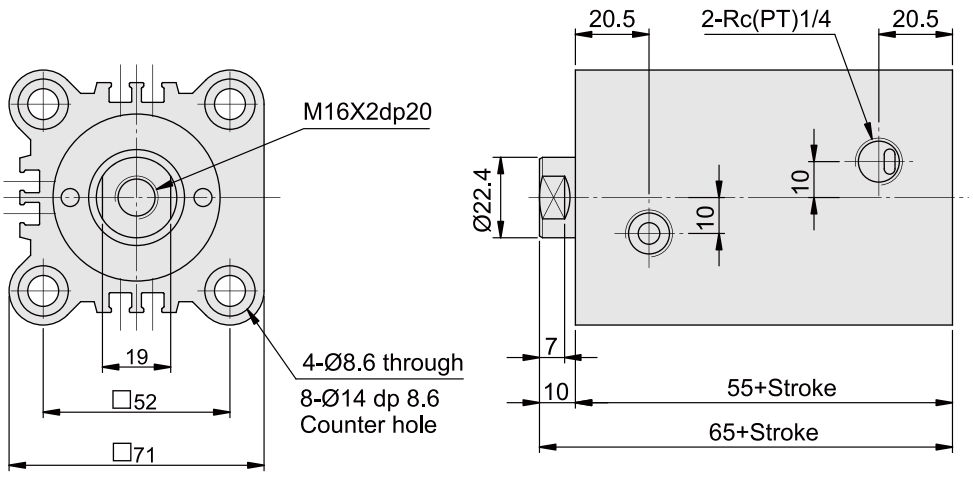
CHDR 32 standard type



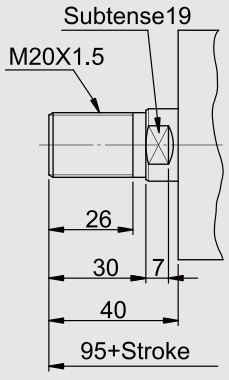
Rod end male thread type



CHDR 40 standard type

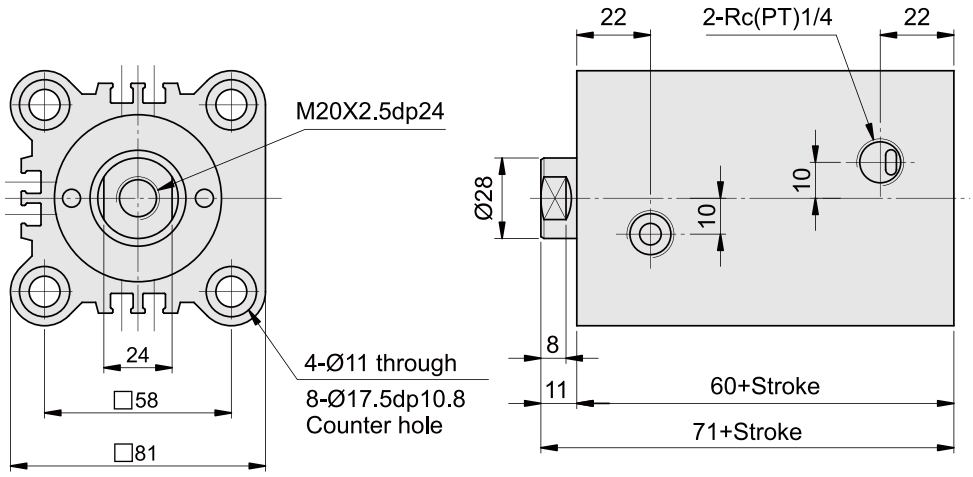


Rod end male thread type

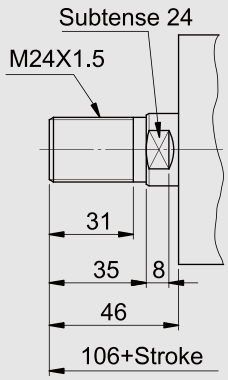


External dimensions

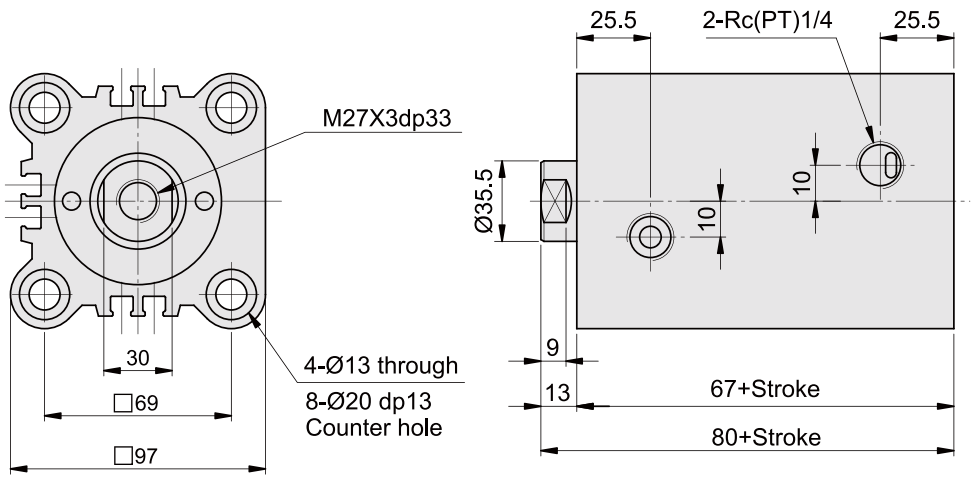
CHDR 50 standard type



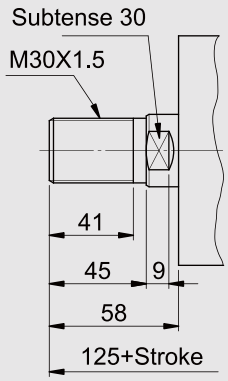
Rod end male thread type



CHDR 63 standard type

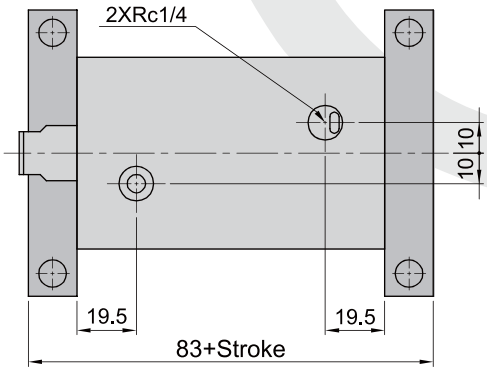


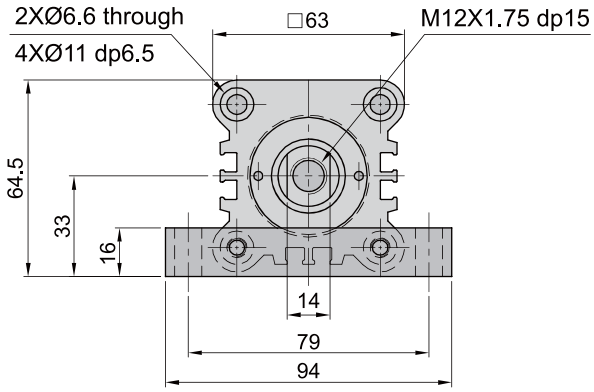
Rod end male thread type

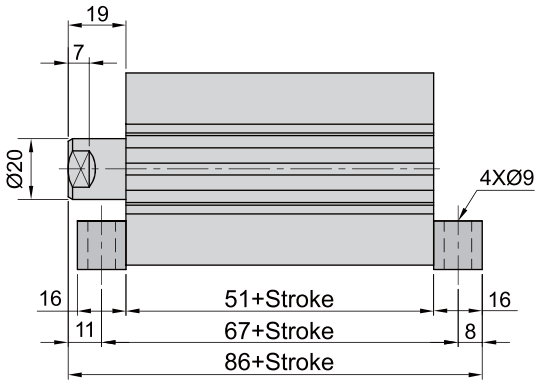


External dimensions

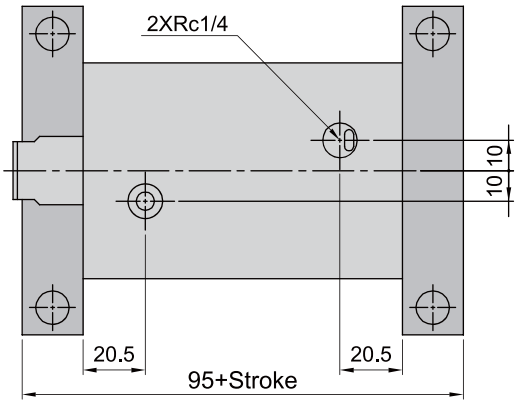
CHDR 32□□LB Foot bracket

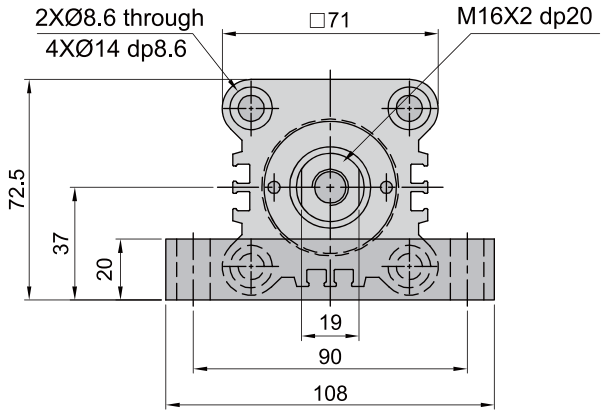


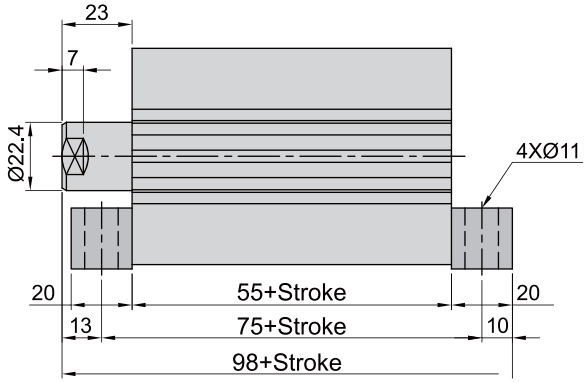




CHDR 40□□LB Foot bracket

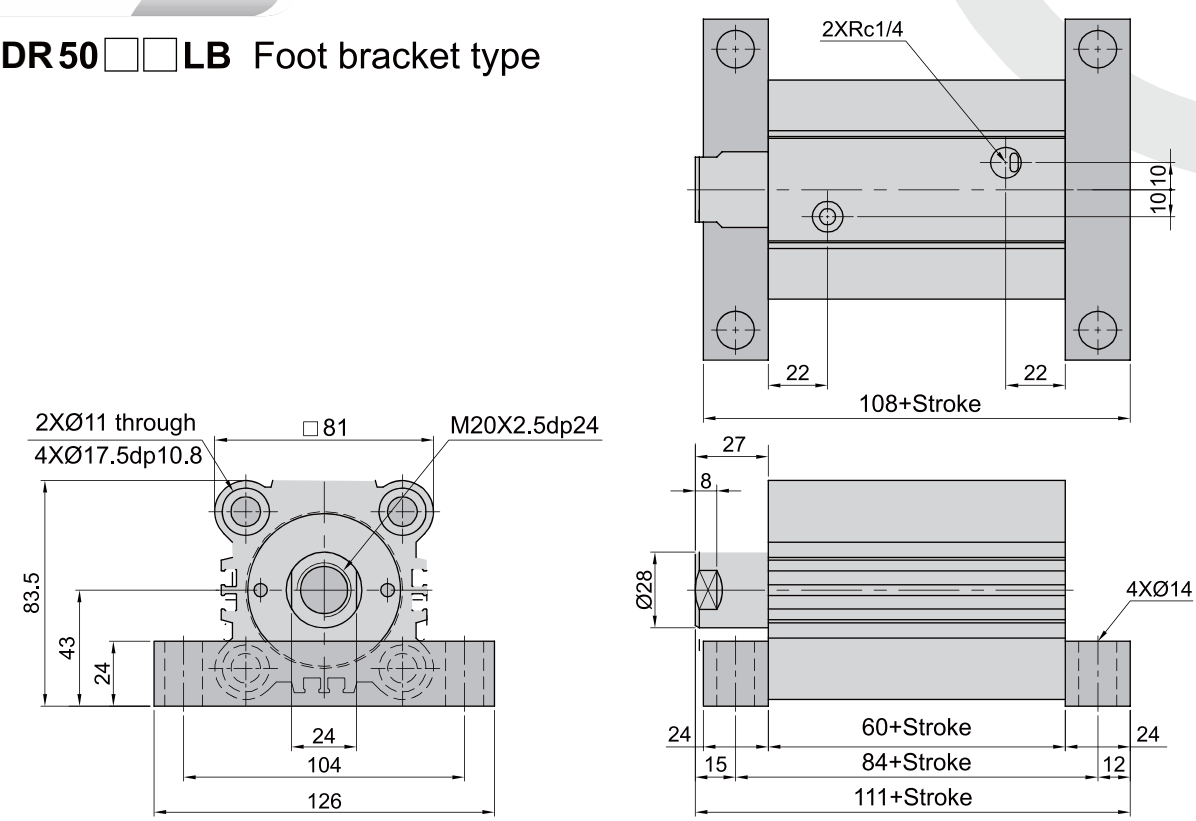




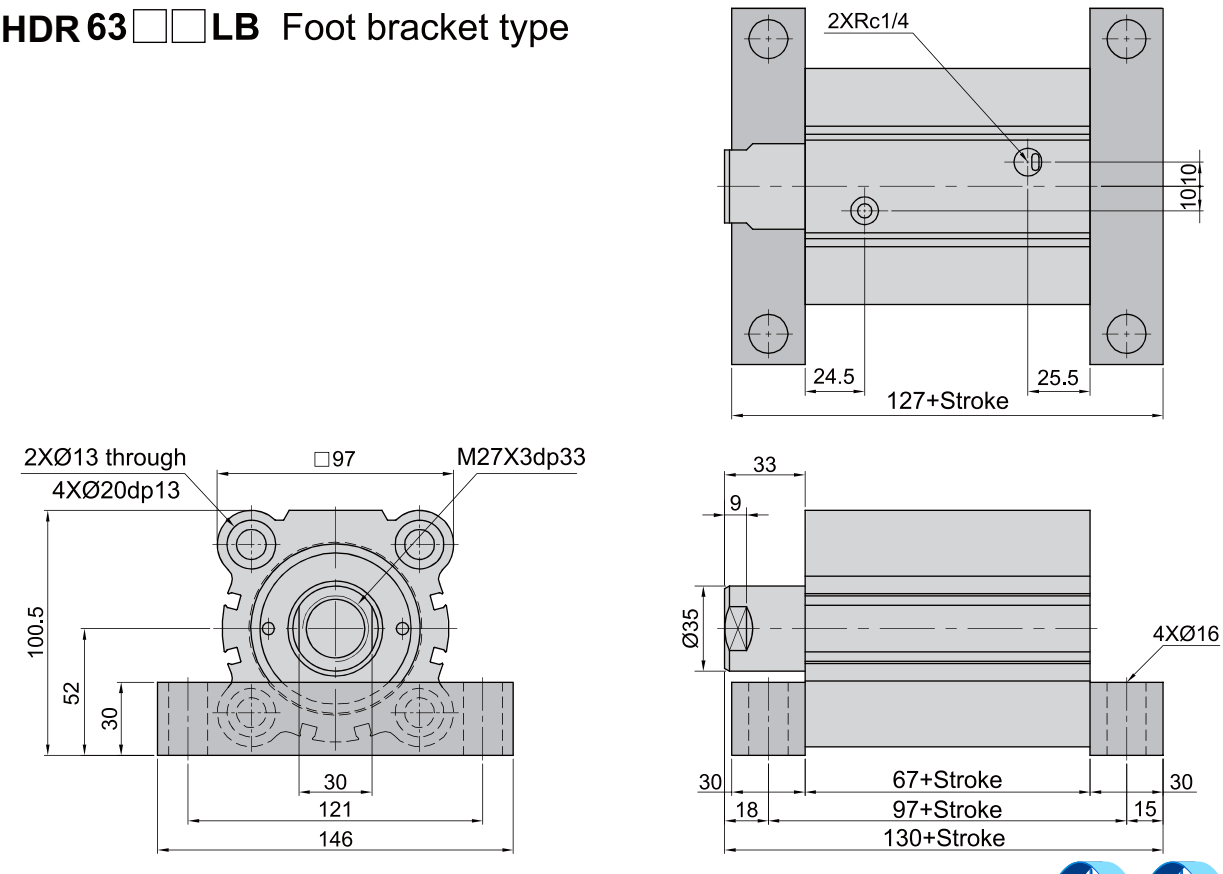


External dimensions

CHDR 50□□LB Foot bracket type



CHDR 63□□LB Foot bracket type



CAUTION NOTES

Be sure to read before handling

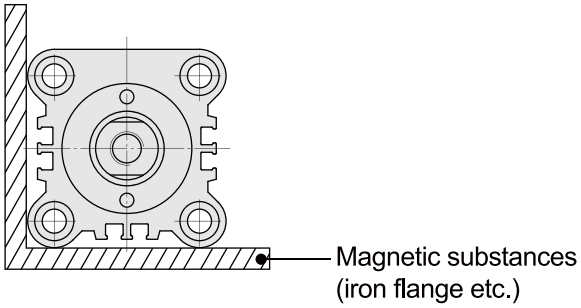
⚠ Caution

1. Use hexagon socket head cap screws (strength class 10.9 or higher) for cylinder mounting.
2. Since a lateral load cannot be applied to the piston rod, build the mounting jig in such a way that a lateral load will not be applied to the piston rod.
3. Make certain that the interlocking length of the rod end thread (male or female thread) and the mounting material is at least 80% of the thread diameter.
4. When operating a cylinder for the first time, make sure to release the air inside the cylinder and the piping. When the air release is complete, operate the cylinder at reduced pressure, then gradually increase it to the normal operating pressure.
5. Since Series **CHDR** does not have an air release plug, release air from other components (e.g. from piping, etc.) as well.
6. Do not use two cylinders facing one another horizontally or vertically in such a way that the piston rods strike each other.
7. To mount the cylinder body with mounting bolts, use tightening torques in the table at left as a guide.

Body mounting bolt tightening torques

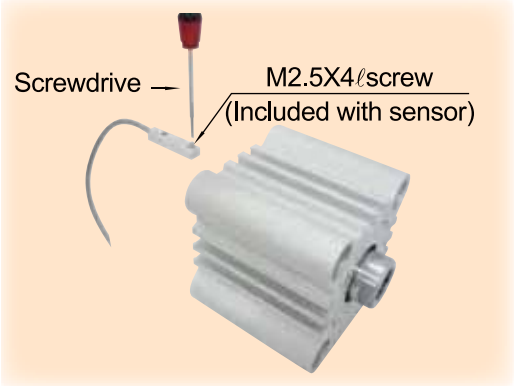
Bore (mm)	Mounting bolt	Tightening torque(N.m)
32	M6	7
40	M8	16
50	M10	30
63	M12	40

- Consult with Chanto when using a cylinder in close proximity to a magnetic body (including proximity on any side) as shown in the figure below, as the operation of sensor may become unstable.



MOUNTING OF SENSOR

Insert the sensor into the mounting groove per right photo. After setting at the sensor mounting position, use a screwdriver to tighten the screw.



⚠ Caution

Use a watchmakers' screwdriver with a handle 5 to 6 mm in diameter when tightening the sensor.