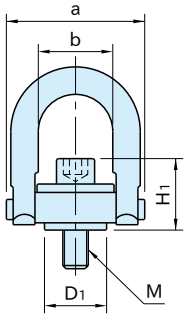
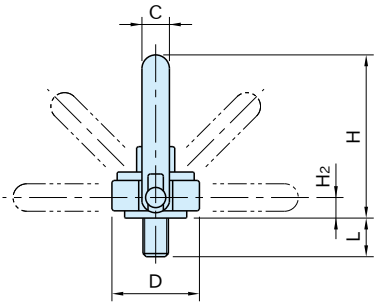
HR,HRB CENTER-PULL HOIST RINGS

RoHS Heat resistance:200°C

Jergens





Type	Body
HR	SCM440 Black oxide finished
HRB	SCM440 Nickel-based coating

★Key Point

Ring tilts 180˚ horizontally, body rotates 360˚.

Part numbers in boldtext are in-stock items. Safety Factor 5:1

Black oxide finished Part Number	Nickel-based coating Part Number	M	L	a	H	C	D	b	H_1	H_2	D_1	Allowable Load (kN)	Weight (kg)
HR 6	HRB 6	M 6X1	12	46.7	67.8	9.7	□25.4	21.8	24	8.7	19	2	0.15
HR 8	HRB 8	M 8X1.25	12.5						26			4	0.17
HR10	HRB10	M10X1.5	17.5						28			4.5	
HR12	HRB12	M12X1.75	19	89.4	123	19	57.3	44.7	43.5	15.7	38.1	10.5	1.1
HR12L	—				170.7								1.3
HR16	HRB16	M16X2	29		123				47.5			19	1.1
HR16L	—				170.7								1.3
—	HRB20S	M20X2.5	34		123				51.5			21.5	1.2
HR20	HRB20		32	130.6	163	25.4	82.7	71.1	64.5	19.4	58.7	30	3
HR20L	—				203								3.3
HR24	HRB24	M24X3	37		163				68.5			42	3.1
—	HRB30S	M30X3.5	46	165.1	221.7	31.7	104.5	88.9	82.5	25.3	81	70	6.3
HR30	HRB30		66										6.4
HR36	HRB36	M36X4	68	217.2	316.7	44.4	133.7	114.3	106	33.3	106.4	110	15.5
HR42	HRB42	M42X4.5							112			125	16
HR48	HRB48	M48X5	88						118			135	16.8
HR64	HRB64	M64X6	96	297.6	419.1	57.15	185.7	152.4	152	48.5	146	225	40

Reference

- For soft metal workpieces such as aluminum, use HR-SP Side-Pull Hoist Rings for side lifting.
- HR-A and HR-B Bolt Kits are available to replace the screws.

Technical Information

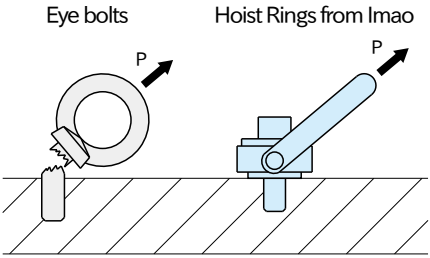
Heatresistant Temperature: 204 ℃

Supplied with

- 1 pc. of screw, installed to the body
- 1 set of instruction manual / test certificate

Feature

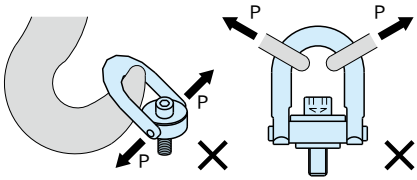
・Even when lateral loads are applied, the ring tilts to enable smooth lifting without strain. Ring tilts 180˚ horizontally, body rotates 360˚.



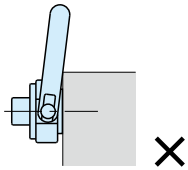
・Allowable load limit remains constant regardless of lifting direction - whether overhead lifting or side pulling.
・Quality assured through magnetic particle testing.
・The screw is fixed with an E-shaped retaining ring.
・HRB nickel-coated type is ten times more corrosion resistant than HR.

Safe Installation Instructions

・Ensure the hoist ring is installed in a location where the body can rotate freely 360˚.
・Allowable load and tightening torque are stamped on the top of the product.
・Mounting holes should be machined to be perpendicular to the mounting surface. Make sure the mounting surface is flat to ensure firm contact with the product.
・Avoid using hooks larger than the ring diameter and do not apply forces that cause spreading, such as pulling laterally.



・Prevent the ring from making contact with corners or edges.



Important Notes for Angled Lifting Operations

The load applied to the hoist ring varies when lifting at an angle. Ensure the applied load remains below the allowable load.

■Calculation Formula:

$P = W/N/\sin\theta$

P: Load on the hoist ring (kN)
W: Weight of the workpiece (kN)
N: Number of lifting points
θ: Lifting angle (˚)

Example: For a workpiece weighing 20 kN, with 2 lifting points at a 45˚ angle, the load on each hoist ring is P = 20/2/sin45˚ = 14.142 kN.