

HR / HRB

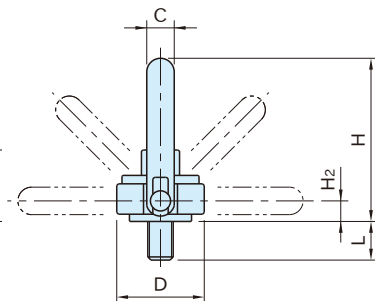
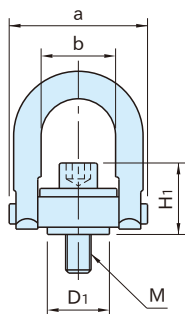
HOIST RINGS, Center-Pull Style



HR



HRB



[HR Type]

Material : SCM440 steel

Finish : Black oxide

[HRB Type]

Material : SCM440 steel

Finish : Nickel-based coating

* HR42, HR48, HR64 and all HRBs are not stock items.

Strength Factor 5:1

Black oxide	Nickel-based coating	M	L	a	H	C	D	b	H ₁	H ₂	D ₁	Allowable Load(kN)	Weight (kg)
Part Number	Part Number												
HR 6	HRB 6	M 6×1	12						24			2	0.15
HR 8	HRB 8	M 8×1.25	12.5	46.7	67.8	9.7	□25.4	21.8	26	8.7	19	4	0.17
HR10	HRB10	M10×1.5	17.5						28			4.5	
HR12	HRB12				123				43.5			10.5	1.1
HR12L	-	M12×1.75	19		170.7								1.3
HR16	HRB16			89.4	123	19	57.3	44.7	47.5	15.7	38.1	19	1.1
HR16L	-	M16×2	29		170.7								1.3
-	HRB20S		34		123				51.5			21.5	1.2
HR20	HRB20	M20×2.5			163								3
HR20L	-		32	130.6	203	25.4	82.7	71.1	64.5	19.4	58.7	30	3.3
HR24	HRB24	M24×3	37		163				68.5			42	3.1
-	HRB30S		46										6.3
HR30	HRB30	M30×3.5	66	165.1	221.7	31.7	104.5	88.9	82.5	25.3	81	70	6.4
HR36	HRB36	M36×4							106			110	15.5
HR42	HRB42	M42×4.5	68	217.2	316.7	44.4	133.7	114.3	112	33.3	106.4	125	16
HR48	HRB48	M48×5	88						118			135	16.8
HR64	HRB64	M64×6	96	297.6	419.1	57.15	185.7	152.4	152	48.5	146	225	40

Bolt replacement kits are available.

A certificate of proof test accompanies the product.

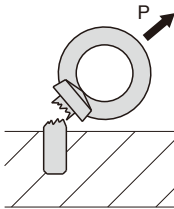
Technical Information

Heat resistance : Max. 204°C

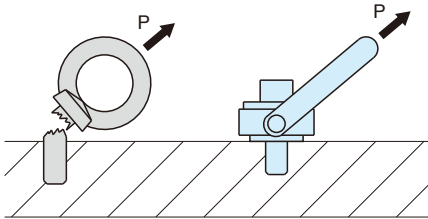
Features:

The U-bar allows lifting a weight safely with full swivel (360°) and pivot (180°) action.

Eye Bolt



Hoist Ring



Stated load capacity applies to lifting in all directions.

U-bar, bolt, pins, base, washer and bushing are magnetic particle inspected.

Rated load capacity and proper screw torque are stamped on each Hoist Ring.

HRB type is over 10 times as corrosion-proof as HR type.

Important!

In multipoint lift applications, the applied load changes with sling angles. The applied load on each Hoist Ring must be less than the stated load capacity.

How To Calculate

$$P = \frac{\frac{W}{N}}{\sin \theta}$$

P : Applied load on each Hoist Ring(N)

W : Weight to be lifted(N)

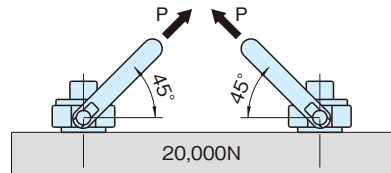
N : Number of Hoist Rings

θ : Sling angle(°)

Sample Calculation:

W : 20,000N, N : 2, θ : 45°

$$P = \frac{\frac{20,000}{2}}{\sin 45^\circ} = 14,142\text{N}$$



Installation Instructions

Ensure that a hoist ring swivels and pivots freely in all directions.

The allowable load capacity value and tightening torque are stamped on the body top.

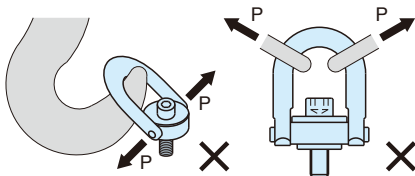
Never use a hook or other lifting device that will pry or tend to open the U-bar on Hoist Rings.

The workpiece surface must be flat, providing complete contact for the hoist ring bushing.

Do not use spacers between the hoist ring bushing and the workpiece surface.

When installing in soft metal such as aluminum, the minimum effective thread engagement should be 2 times the thread diameter. When installing in steel, thread engagement should be 1-1/2 times the thread diameter.

Do not apply shock loads.



The side of the U-bar must not contact anything!

