Another

New Product

HR-1200
Side Pull Hoist Rings

Member Of AWRF Est. 1976

CERTIFIED QUALITY MANAGEMENT SYSTEM ISO 9001:2000 ANAB DNV AN ISO 9001 CERTIFIED COMPANY

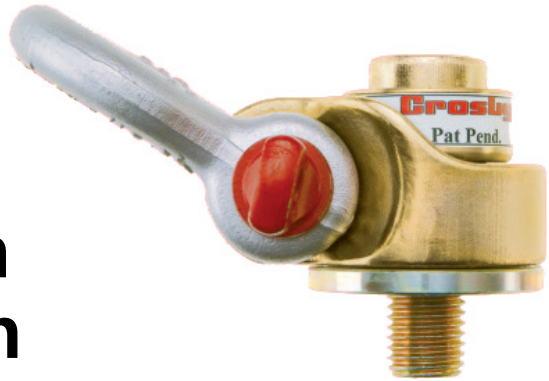
www.thecrosbygroup.com

the Crosby group, inc.

Crosby® HR-1200 Side Pull Hoist Ring

Purpose

To provide suitable alternative to hardware used for fixture, die and mold flipping applications (As well as other similar processes).



The versatile design allows the product to be used with webbing, wire rope or chain slings.

the Crosby group, inc.

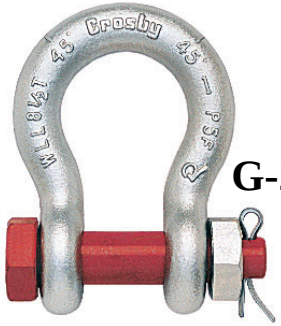
Crosby® HR-1200 Side Pull Hoist Ring

Product Information

☑ **Utilizes standard Crosby® Red Pin® Shackles to connect to wire rope, chain or synthetic slings (Sold Separately).**

G-209 Screw Pin Shackle

S-281 Web Sling Shackle



G-2130 Bolt Type Shackle

the Crosby group, inc.

Crosby® HR-1200 Side Pull Hoist Ring

Product Information

☑ RFID EQUIPPED

- **Each hoist ring comes “factory equipped” with an RFID chip for immediate utilization with various inspection and asset management software.**

the Crosby® group, inc.

Crosby® HR-1200 Side Pull Hoist Ring

Product Information

- ☑ **Wide range of capacities available**
  - **UNC Threads - 650 lbs. to 29,000 lbs.**
  - **Metric sizes - 300 kg. to 13,000 kg.**

- ☑ **Body components are Alloy steel - Quenched and Tempered**

"QT" QUENCHED & TEMPERED

the Crosby® group, inc.

Crosby® HR-1200 Side Pull Hoist Ring

Product Information

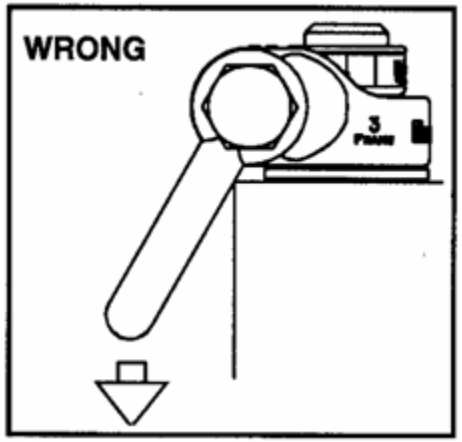
- ☑ **Design Factor of 5 to 1**
- ☑ **Rated at 100% of Working Load Limit at 90° angle**
- ☑ **Individually Proof Tested to 2-1/2 times the Working Load Limit with certification.**

the Crosby® group, inc.

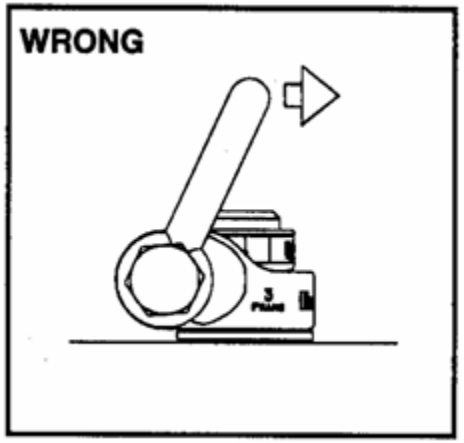
Crosby® HR-1200 Side Pull Hoist Ring

Product Information

- ☑ **Rated at 100% of Working Load Limit when used properly.**



Any angle between



the Crosby® group, inc.

Crosby® HR-1200 Side Pull Hoist Ring

Product Information

- **Hoist Ring body is furnished with Yellow Chromate finish for improved corrosion resistance.**

- **Each product has a Product Identification Code (PIC) for material traceability along with a Working Load Limit and the name Crosby or "CG" stamped into "load bearing components".**

the Crosby group, inc.

Crosby® HR-1200 Side Pull Hoist Ring

Product Information

- ☑ **Multiple bolt lengths are available to meet specific application requirements.**

the Crosby group, inc.

Crosby® HR-1200 Side Pull Hoist Ring

Product Application

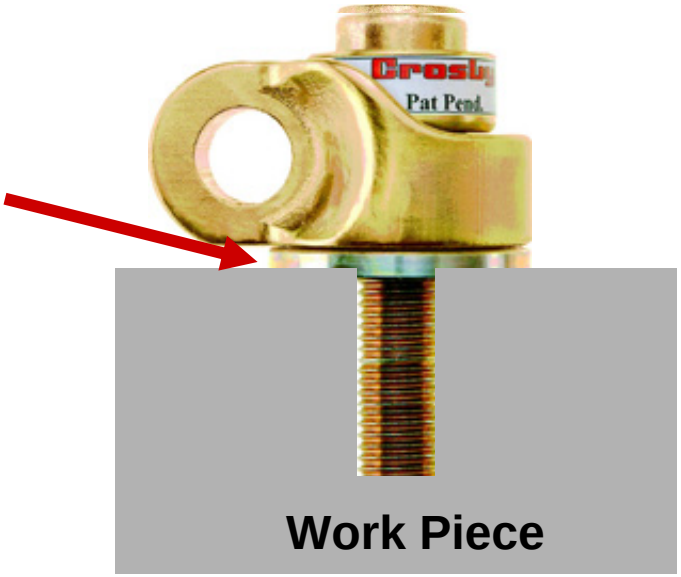
- **Like our HR-125 Hoist Rings, the bolts shown as a part of our standard product offering are designed to be used with various work pieces.**

- ***Longer bolts*** **are designed for use with Soft metal work pieces (i.e., aluminum). They may also be used for Ferrous Metal work pieces (i.e., steel & iron).**
- ***Shorter bolts*** **are designed for Ferrous Metal work pieces only (i.e., steel & iron).**

Crosby® HR-1200 Side Pull Hoist Ring

Product Application

- **Like standard Crosby hoist rings, the HR-1200 must be installed to recommended torque with torque wrench making sure bushing flange meets the load (work piece) surface.**



the Crosby group, inc.

Crosby® HR-1200 Side Pull Hoist Ring

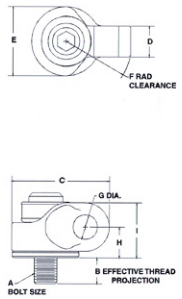
Product Application

- ☑ **Detailed table on proper shackle selection is available.**

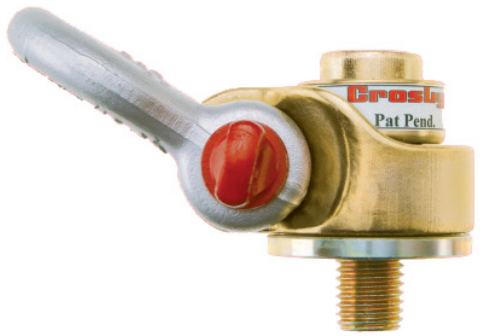
Crosby® HR-1200 Side Pull Hoist Ring

The HR-1200 Side Pull Hoist Ring is designed to utilize various Crosby Red Pin® Shackles

Frame Size	Weight Each (lbs.)	Working Load Limit (lbs.)	Stock No.	Hoist Ring Bolt Torque (Ft.Lbs.)	(A) Bolt Size (in.)	(B) Effective Thread Projection Length (in.)	Dimensions (in.) C	D	E	F	G	H	I	Recommended Shackles: Red Pin® Shackles 209, 210, 213, 215, 2130, 2150 Nominal Size (in.)	WLL (t)	Red Pin® Web Shackles S-281 Webbing Size (in.)	WLL (tons)
1	.35 .36	650 800	1067700 1067704	7 12	5/16 - 18 x 1.50 3/8 - 16 x 1.50	.59 .59	1.93 1.93	.72 .72	1.00 1.00	1.56 1.56	.80 .80	.85 .85	1.43 1.43	1/2" 5/8"	2	2"	3-1/4
2	1.4 1.4 1.5 1.5	2000 2000 3000 3000	1067708 1067712 1067716 1067720	28 28 60 60	1/2 - 13 x 2.00 1/2 - 13 x 2.50 5/8 - 11 x 2.00 5/8 - 11 x 2.75	.71 1.21 .71 1.46	2.97 2.97 2.97 2.97	.97 .97 .97 .97	2.00 2.00 2.00 2.00	2.13 2.13 2.13 2.13	.93 .93 .93 .93	1.07 1.07 1.07 1.07	1.79 1.79 1.79 1.79	5/8" 3/4"	3-1/4 4-3/4	2" 1.5"	3-1/4 4-1/2
3	4.5 4.6 4.6 4.8 4.8 5.0	5000 5000 6500 6500 8000 8000	1067724 1067728 1067732 1067736 1067740 1067744	100 100 160 160 230 230	3/4 - 10 x 2.75 3/4 - 10 x 3.50 7/8 - 9 x 2.75 7/8 - 9 x 3.50 1 - 8 x 3.00 1 - 8 x 4.00	.90 1.65 .90 1.65 1.15 2.15	4.32 4.32 4.32 4.32 4.32 4.32	1.34 1.34 1.34 1.34 1.34 1.34	3.00 3.00 3.00 3.00 3.00 3.00	3.00 3.00 3.00 3.00 3.00 3.00	1.07 1.07 1.07 1.07 1.07 1.07	1.35 1.35 1.35 1.35 1.35 1.35	2.42 2.42 2.42 2.42 2.42 2.42	7/8"	6-1/2	2"	6-1/4
4	10.2	14000	1067748	470	1-1/4 - 7 x 4.50	2.22	5.59	1.57	3.75	3.91	1.47	1.92	3.42	1" 1-1/8" 1-1/4"	8-1/2 9-1/2 12	3"	8-1/2
5	23.5 25.3	17200 29000	1067756 1067764	800 1100	1-1/2 - 6 x 6.50 2 - 4.5 x 6.50	2.98 2.98	7.31 7.31	2.06 2.06	4.75 4.75	5.19 5.19	2.11 2.11	2.41 2.41	4.29 4.29	1-3/8" 1-1/2" 1-3/4"	13-1/2 17 25	—	—



Frame Size	Weight Each (lbs.)	Weight Each (kg)	Working Load Limit (kg)	Stock No.	Hoist Ring Bolt Torque (Nm)	(A) Bolt Size (mm)	(B) Effective Thread Projection Length (mm)	Dimensions (mm) C	D	E	F	G	H	I	Recommended Shackles: Red Pin® Shackles 209, 210, 213, 215, 2130, 2150 Nominal Size (in.)	WLL (t)	Red Pin® Web Shackles S-281 Webbing Size (in.)	WLL (tons)
1	.4 .4	.18 .18	300 400	1067803 1067807	10 16	M 8 X 1.25 X 40 M 10 X 1.50 X 40	16.9 16.9	49.0 49.0	18.3 18.3	25.4 25.4	39.6 39.6	20.3 20.3	21.7 21.7	36.3 36.3	1/2" 5/8"	2 3-1/4	2"	3-1/4
2	1.4 1.5	.63 .68	1000 1400	1067811 1067815	38 81	M 12 X 1.75 X 50 M 16 X 2.00 X 60	17.2 27.2	75.4 75.4	24.6 24.6	50.8 50.8	54.1 54.1	23.6 23.6	27.1 27.1	45.3 45.3	5/8" 3/4"	3-1/4	2" 1.5"	3-1/4 4-1/2
3	4.5 4.8	2.0 2.2	2250 3500	1067823 1067827	136 312	M 20 X 2.50 X 75 M 24 X 3.00 X 80	28.1 33.1	110 110	34.0 34.0	76.2 76.2	76.2 76.2	27.2 27.2	34.4 34.4	61.6 61.6	7/8"	6-1/2	2"	6-1/4
4	10.0	4.5	6250	1067831	637	M 30 X 3.50 X 120	65.1	142	39.9	95.3	99.3	37.3	48.8	86.9	1" 1-1/8" 1-1/4"	8-1/2 9-1/2 12	3"	8-1/2
5	23.0 23.5 24.3	10.4 10.7 11.0	7750 10000 13000	1067835 1067839 1067843	1005 1005 1350	M 36 X 4.00 X 150 M 42 X 4.50 X 160 M 48 X 5.00 X 160	60.6 70.6 70.6	186 186 186	52.3 52.3 52.3	120.7 120.7 120.7	131.8 131.8 131.8	53.6 53.6 53.6	61.2 61.2 61.2	109.0 109.0 109.0	1-3/8" 1-1/2" 1-3/4"	13-1/2 17 25	—	—



the Crosby group, inc.®

Crosby® HR-1200 Side Pull Hoist Ring

Product Application

- ☑ **The HR-1200 side pull hoist ring is designed as a component that:**
  - **Accepts standard Crosby fittings**
  - **Facilitates wider slings and quicker attachment than competitive product.**
- ☑ **In many cases, the load rating on the shackle may be greater than the hoist ring frame.**

Important: Never exceed the Working Load Limit of the Hoist Ring Frame.

the Crosby® group, inc.

Crosby® HR-1200 Side Pull Hoist Ring

Product Application

WARNING AND APPLICATION INSTRUCTIONS HR-1200

the Crosby group inc.

P.O. Box 3128
Tulsa, Oklahoma 74101
(918) 834-4611
Fax (918) 832-0940
www.thecrosbygroup.com

WARNING AND APPLICATION INSTRUCTIONS

HR-1200

Hoist Ring Application / Assembly Instructions

- The Crosby side pull swivel hoist ring is designed to accept standard Crosby fittings to facilitate wider slings and quick attachment. In order to use the larger fittings, the load rating on the (shackle) fitting may be greater than the hoist ring frame. **Never exceed the Working Load Limit of the hoist ring frame.**
- Use swivel hoist ring only with a ferrous metal (steel, iron) or non-ferrous (i.e., aluminum) loads. (work piece). Do not leave threaded end of hoist ring in aluminum loads for long time periods due to corrosion.
- After determining the loads on each hoist ring, select the proper size hoist ring using the working Load Limit ratings in Table 1 for UNC threads and Table 2 for Metric threads.
- Drill and tap the work piece to the correct size to a minimum depth of one half the threaded shank diameter plus the threaded shank length.
- Install hoist ring to recommended torque with a torque wrench making sure the bushing flange is fully supported by the load (work piece) surface. See rated load limit and bolt torque requirements imprinted on hoist ring body (See Table 1 or Table 2).
- Never use spacers between bushing flange and mounting surface.
- Always select proper lifting device for use with Swivel Hoist Ring. (See Tables 1 & 2).
- Attach lifting device ensuring free fit to hoist shackle. (See Figure 3).
- Apply partial load and check proper rotation and alignment of shackle. There should be no interference between load (work piece) and hoist shackle (See Figure 1 and Figure 3).
- The Hoist ring should rotate into normal operating position, with shackle aligned with load as shown in Figure 3. If shackle is oriented as shown in Figure 4, **DO NOT LIFT.**
- **Special Note:** when a Hoist Ring is installed with a retention nut, the nut must have full thread engagement and must meet one of the following standards to develop the Working Load Limit (WLL):
  1. ASTM A-563 (A) Grade D Hex Thick (B) Grade DH Standard Hex
  2. SAE Grade 8 – Standard Hex

Hoist Ring Inspection / Maintenance

- Always inspect hoist ring before use.
- Regularly inspect hoist ring parts (Figure 2).
- For hoist rings used in frequent load cycles or on pulsating loads, the bolt threads should be periodically inspected by magnetic particle or dye penetrant.
- Always inspect hoist ring before use.
- Regularly inspect hoist ring parts (Figure 2).

WARNING

- Loads may slip or fall if proper Hoist Ring assembly and lifting procedures are not followed.
- A falling load may cause serious injury or death.
- Install hoist ring bolt to torque requirements listed in tables.
- The side pull hoist ring frame will be only one part of a lifting system with several components (i.e., shackles and slings). Never exceed the Working Load Limit of the hoist ring frame.
- Do not use damaged slings or chain. For inspection criteria, see ASME B30.9.
- Read and understand these instructions before using hoist ring.
- Use only genuine Crosby parts as replacements.

WRONG — Figure 1

External Inspection Points — Figure 2

RIGHT 90° Pivot — Figure 3

WRONG — Figure 4

- For hoist rings used in frequent load cycles or on pulsating loads, the bolt threads should be periodically inspected by magnetic particle or dye penetrant.
- Do not use part showing cracks, nicks or gouges.
- Repair minor nicks or gouges to hoist frame by lightly grinding until surfaces are smooth. Do not reduce original dimension more than 10%. Do not repair by welding.
- Never use hoist ring that shows signs of corrosion, wear or damage.
- Never use hoist ring if components are bent or elongated.
- Always be sure threads on bolt and receiving tapped holes are clean, undamaged, and fit properly.
- Always check with torque wrench before using an already installed hoist ring.
- Always make sure there are no spacers (washers) used between bushing flange and the mounting surface. Remove any spacers (washers) and reinspect before use.
- Always ensure free movement of shackle. The shackle should pivot 90° and the hoist ring should swivel 360°. (See Figure 3).
- Always be sure total work piece surface is in contact with hoist ring bushing mating surface. Drilled and tapped hole must be 90° to load (work piece) surface.

☑ **Detailed warning and application instructions are included with each hoist ring.**

the Crosby group inc.