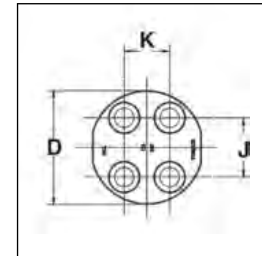
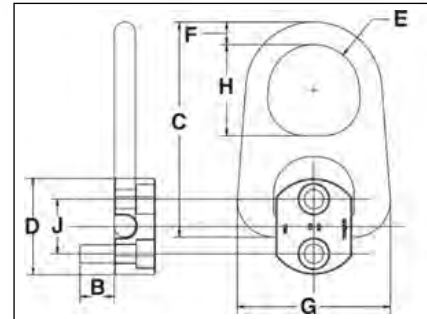


# Pivot Hoist Rings



**HR-100 UNC**  
**HR-100M METRIC**

- Forged bail provides the following:
  - Easily readable raised lettering showing the name Crosby or "CG" and PIC code for material traceability.
  - More durability provides the increased "Toughness" desired in potentially abusive field conditions.
  - Larger opening than standard Hoist Ring bails.
- 180 degree pivot action at full capacity.
- Bolts included as part of assembly.
- Design Factor of 5 to 1.
- Individually Proof Tested to 2-1/2 times Working Load Limit.
- UNC Bolt specification is a Grade 8 Alloy socket head cap screw to ASTM A 574.
- Metric Bolt specification is a Grade 12.9 Alloy socket head cap screw to DIN 912.
- Frame 2 and larger are RFID EQUIPPED.



**Load Rated**



## HR-100 Pivot Hoist Rings Coil Threads

Frame Size No.	HR-100 Stock No.	Working Load Limit (lbs.)*	Torque in Ft-Lbs.	No. of Bolts	Weight Each (lbs.)	Dimensions (in.)									
						Bolt Size A	Effective Thread Projection Length B	C	Diameter D	Radius E	F	G	H	J	K
1	1067408	2000	7	2	.6	5/16-18 x 1.25	.82	3.43	2.00	.62	.44	2.27	1.38	1.00	-
2	1067417	2500	12	2	3.1	3/8-16 x 1.25	.65	6.03	2.25	1.25	.75	4.20	2.50	1.13	-
2	1067426	5000	28	2	3.3	1/2-13 x 2.00	1.40	6.03	2.63	1.25	.75	4.20	2.50	1.50	-
3	1067435	12000	28	4	10.5	1/2-13 x 2.75	1.65	8.27	3.13	1.63	1.00	6.25	3.25	1.63	1.25
4	1067444	20000	60	4	22.0	5/8-11 x 3.25	1.65	10.63	4.47	2.00	1.25	7.82	4.00	2.06	1.25

\*Ultimate Load is 5 times the Working Load Limit.

## HR-100M Pivot Hoist Rings Metric Threads

Frame Size No.	HR-100M Stock No.	Working Load Limit (kg)*	Torque in Nm	No. of Bolts	Weight Each (kg)	Dimensions (mm)									
						Bolt Size A	Effective Thread Projection Length B	C	Diameter D	Radius E	F	G	H	J	K
1	1067905	900	10	2	.3	M8-1.25 x 30	19.1	87.1	51.0	15.8	11.2	57.7	35.1	25.4	-
2	1067914	1150	16	2	1.4	M10-1.50 x 30	14.8	153	57.2	31.8	19.1	107	63.5	28.6	-
2	1067923	2150	38	2	1.5	M12-1.75 x 50	34.8	153	66.8	31.8	19.1	107	63.5	38.1	-
3	1067932	5100	38	4	4.8	M12-1.75 x 70	42.1	210	79.5	41.4	25.4	159	82.6	41.3	31.8
4	1067941	9000	81	4	10.0	M16-2.00 x 80	39.4	270	114	51.0	31.8	199	102	52.4	31.8

\*Ultimate Load is 5 times the Working Load Limit.

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# CROSBY® PIVOT HOIST RING

## WARNINGS & APPLICATION INSTRUCTIONS



HR-100 & HR-100M

### Pivot Hoist Ring Application / Assembly Instructions

- Use pivot hoist ring only with ferrous metal (steel, iron) workpiece.
- After determining the loads on each pivot hoist ring, select the proper size using the Working Load Limit (WLL) ratings in Table 1 for UNC threads or Table 2 for Metric threads (on next page).
- Drill and tap the workpiece to the correct size to a minimum depth of one-half the threaded bolt diameter plus the effective thread projection length (see Table 1 or Table 2, on next page). To select proper bolt and thread sizes see Table 1 or Table 2, on next page.
- Install the pivot hoist ring to recommended torque with a torque wrench making sure the pivot hoist ring body meets the load (workpiece) surface. See rated load limit and bolt torque requirements imprinted on top of the pivot hoist ring body (see Table 1 or Table 2 on next page).
- Never use spacers between the pivot hoist ring body and workpiece surface.
- Always select proper load rated lifting device for use with pivot hoist ring.
- Attach lifting device ensuring free fit to pivot hoist ring bail (lifting ring) (Figure 1).
- Apply partial load and check proper pivot. Ensure load alignment is in the direction of pivot (Figure 4). There should be no interference between load (workpiece) and pivot hoist ring bail (Figure 2).

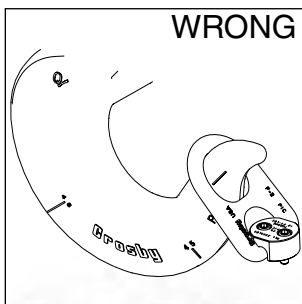


Figure 1

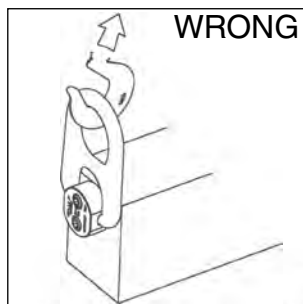


Figure 2

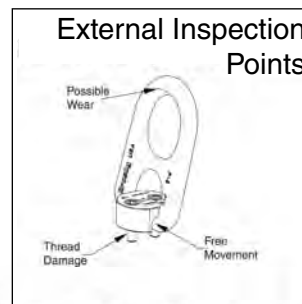


Figure 3

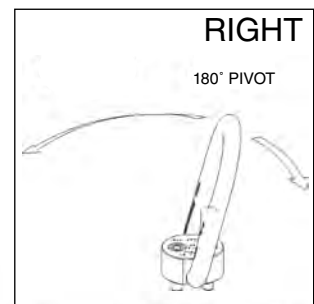


Figure 4

### ⚠ WARNING

- Load may slip or fall if proper Hoist Ring assembly and lifting procedures are not used.
- A falling load can seriously injure or kill.
- Do not use with damaged slings or chain. For inspection criteria see ASME B30.9.
- Never apply load except in line with the pivot direction.
- Use only genuine Crosby bolts as replacements.
- Read and understand these warnings and application instructions

### Pivot Hoist Ring Inspection / Maintenance

- Always inspect pivot hoist ring before use.
- Regularly inspect pivot hoist ring parts (Figure 3).
- Never use pivot hoist ring that shows signs of corrosion, wear or damage.
- Never use pivot hoist ring if bail is bent or elongated.
- Do not use parts showing cracks, nicks or gouges.
- Always be sure threads on bolts and receiving holes are clean, not damaged or worn, and fit properly.
- Always check with torque wrench before using an already installed pivot hoist ring.
- Always make sure there are no spacers (washers) used between pivot hoist ring body and the workpiece surface. Remove any spacers (washers) and retorquer before use.
- Always ensure free movement of the bail. The bail should pivot 180 degrees (Figure 4).
- Always be sure total workpiece surface is in contact with the pivot hoist ring body mating surface. Drilled and tapped holes must be 90 degrees to load (workpiece) surface.
- Always make sure that the load is applied in the direction of pivot.

## Operating Safety

- Never exceed the capacity (WLL) of the pivot hoist ring, See Table 1 for UNC threads or Table 2 for Metric threads.
- When using lifting slings of two or more legs, make sure the forces in the legs are calculated using the angle from the horizontal sling angle to the leg and select the proper size pivot hoist ring. When using a multi-leg lifting sling, the pivot hoist ring must be mounted so that the pivot direction is in line with the load applied.

Table 1 HR-100 Pivot Hoist Rings**				
Working Load Limit* (lbs.)	Torque in Ft. Lbs.†	No. of Bolts	Dimensions (in.)	
			Bolt Size††	Effective Thread Projection Length
2,000	7	2	5/16 - 18	0.82
2,500	12	2	3/8 - 16	0.65
5,000	28	2	1/2 - 13	1.40
12,000	28	4	1/2 - 13	1.65
20,000	60	4	5/8 - 11	1.65

Table 2 HR-100M Pivot Hoist Rings**				
Working Load Limit* (kg)	Torque in Nm†	No. of Bolts	Dimensions (mm)	
			Bolt Size††	Effective Thread Projection Length
900	10	2	M8 - 1.25	19.08
1,150	16	2	M10 - 1.50	14.76
2,150	38	2	M12 - 1.75	34.76
5,100	38	4	M12 - 1.75	42.06
9,000	81	4	M16 - 2.0	39.36

\* Ultimate load is 5 times the working load limit. Individually proof tested to 2-1/2 times the working load limit.

† Tightening torque values shown are based upon threads being clean, dry and free of lubrication.

\*\* Designed to be used with ferrous workpiece only.

†† Only use Crosby high strength replacement bolts. Do not use any other bolts.

