

## HOIST RINGS

### Hoist Rings Make Lifting Easy

Hoist rings provide the safest method of attaching pickup points to loads. Eye bolts, when lifted at an angle, tend to deform and fracture. Hoist rings are designed to eliminate this weakness.

### Features, Advantages and Benefits

#### Promotes Safety

- Magnetic particle or X-ray inspection of components - assures highest quality
- Predetermines proper hook-up - discourages unauthorized rigging methods
- Designed for lifting at angles - safer than rigid eye bolts
- Fixed lift points prevent load and sling from slipping
- Every hoist ring stamped with rated capacity

#### Saves Money

- Hooks and slings are not in contact with load - reduces load and sling damage
- Alloy steel material - increases strength, reduces wear
- Black oxide finish - resists corrosion
- Highest industry quality for durability and longest life

#### Saves Time

- Easy hook-up and disconnect of load
- Full swivel and pivot action of Side-Pull Hoist Rings allows turning and flipping without unhooking
- Easy to Inspect

### How To Order

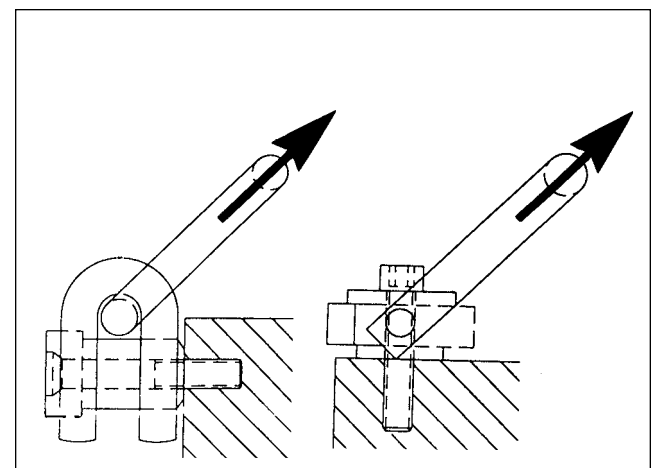
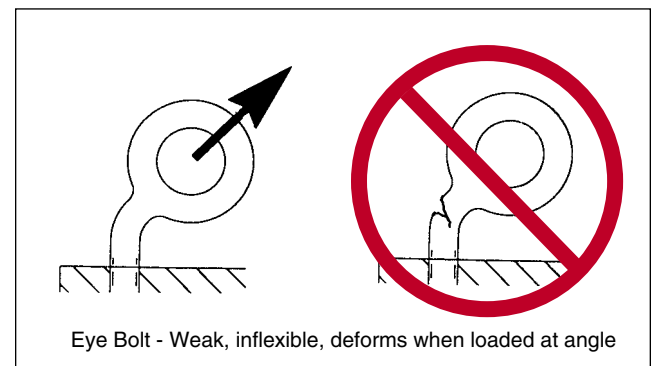
Specify stock number.

### Safe Operating Practices

Read and understand instruction sheet supplied with each hoist ring prior to use.

- Do not use a damaged or defective hoist ring - inspect before each use
- Do not overload
- Full thread length must be engaged and torqued according to tables-periodic retorquing may be required.

Hoist ring ratings apply to use at any angle. Be sure that sling tension does not exceed the rating of the hoist ring. Refer to "Effect of Angle of Lift", page 12, to determine sling tension.



**Side - Pull Hoist Ring**

Strong, flexible, allows full 360° swiveling and pivoting.

**Center - Pull Hoist Ring**

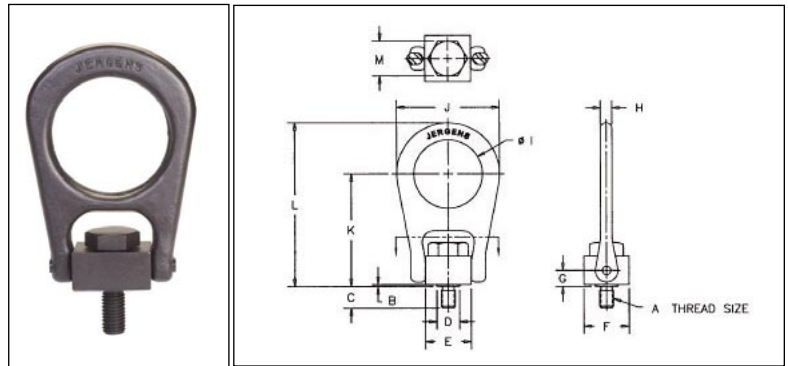
Designed for top of load mounting. The industry standard.

## HOIST RINGS

### Forged Center - Pull Hoist Rings

Forged Center Pull Hoist Ring features a solid center brace lift bail to eliminate the possibility of spreading the lift ring in misapplications. Forged hoist rings are ideal for OEM and industrial use.

- Full (over center) 360° swivel and 180° pivot action
- Capacities up to 30,000 lbs.
- 5:1 strength factor-alloy steel
- Available in 17-4PH Stainless Steel (up to 5,000lbs/2,150kgs)
- Made in U.S.A.
- Proof tested to 200% of Rated Load Capacity



### Center-Pull Hoist Rings (Dimensions in inches)

Part Number	Load Capacity* (lbs.)	Thread Size A	B	C	D	E	F	G	H	I	J	K	L	M	Torque** (ft. lbs.)	Weight (lbs.)
23906	800	5/16-18	3/64	15/32	1/2	1	1	11/32	1/4	1 1/2	2 1/4	2 15/32	3 19/32	3/4	7	0.6
23907	800	5/16-18	3/64	5/8	1/2	1	1	11/32	1/4	1 1/2	2 1/4	2 15/32	3 19/32	3/4	7	0.6
23908	1,000	3/8-16	3/64	9/16	1/2	1	1	11/32	1/4	1 1/2	2 1/4	2 15/32	3 19/32	3/4	12	0.6
23909	1,000	3/8-16	3/64	3/4	1/2	1	1	11/32	1/4	1 1/2	2 1/4	2 15/32	3 19/32	3/4	12	0.6
23910	2,500	1/2-13	1/16	11/16	1	2	1 1/2	9/16	3/4	3	4 7/16	4	6 3/8	1 1/4	28	3.6
23911	2,500	1/2-13	1/16	1	1	2	1 1/2	9/16	3/4	3	4 7/16	4	6 3/8	1 1/4	28	3.6
23914	4,000	5/8-11	1/16	15/16	1	2	1 1/2	9/16	3/4	3	4 7/16	4	6 3/8	1 1/4	60	3.6
23915	4,000	5/8-11	1/16	1 1/4	1	2	1 1/2	9/16	3/4	3	4 7/16	4	6 3/8	1 1/4	60	3.6
23917	5,000	3/4-10	1/16	1 1/8	1	2	1 1/2	9/16	3/4	3	4 7/16	4	6 3/8	1 1/4	100	3.6
23918	5,000	3/4-10	1/16	1 1/2	1	2	1 1/2	9/16	3/4	3	4 7/16	4	6 3/8	1 1/4	100	3.6
23926	10,000	1-8	1/16	1 1/2	1 7/8	3 25/32	3	1 1/16	1 1/4	3 19/32	5 13/16	8 5/32	9 21/32	2 1/2	230	15.7
23927	10,000	1-8	1/16	2	1 7/8	3 25/32	3	1 1/16	1 1/4	3 19/32	5 13/16	8 5/32	9 21/32	2 1/2	230	15.9
23929	15,000	1 1/4-7	1/16	1 7/8	1 7/8	3 25/32	3	1 1/16	1 1/4	3 19/32	5 13/16	8 5/32	9 21/32	2 1/2	470	16.0
23930	15,000	1 1/4-7	1/16	2 1/2	1 7/8	3 25/32	3	1 1/16	1 1/4	3 19/32	5 13/16	8 5/32	9 21/32	2 1/2	470	16.2
23933	24,000	1 1/2-6	7/64	2 1/4	2 1/2	4 7/8	4 1/2	1 7/16	1 3/4	4 1/2	7 23/32	11 7/16	13 27/32	3 1/4	800	42.3
23934	24,000	1 1/2-6	7/64	3	2 1/2	4 7/8	4 1/2	1 7/16	1 3/4	4 1/2	7 23/32	11 7/16	13 27/32	3 1/4	800	42.7
23935	30,000	2-4 1/2	7/64	3	2 1/2	4 7/8	4 1/2	1 7/16	1 3/4	4 1/2	7 23/32	11 7/16	13 27/32	3 1/4	800	43.8
23936	30,000	2-4 1/2	7/64	4	2 1/2	4 7/8	4 1/2	1 7/16	1 3/4	4 1/2	7 23/32	11 7/16	13 27/32	3 1/4	800	44.7

### Metric Center-Pull Hoist Rings (Dimensions in millimeters)

Part Number	Load Capacity* (kgs.)	Thread Size A	B	C	D	E	F	G	H	I	J	K	L	M	Torque** (kg.m.)	Weight (kgs.)
23956	400	M8 x 1.25	1.2	12	12.7	25.4	25.4	8.7	6.3	38.1	57.2	62.7	91.3	19	10	0.27
23958	450	M10 x 1.50	1.2	15	12.7	25.4	25.4	8.7	6.3	38.1	57.2	62.7	91.3	19	17	0.27
23962	1,050	M12 x 1.75	1.6	18	25.4	50.8	38.1	14.3	19	76.2	112.7	101.6	161.9	32	37	1.64
23965	1,900	M16 x 2.0	1.6	24	25.4	50.8	38.1	14.3	19	76.2	112.7	101.6	161.9	32	80	1.64
23968	2,150	M20 x 2.5	1.6	30	25.4	50.8	38.1	14.3	19	76.2	112.7	101.6	161.9	32	134	1.7
23974	4,200	M24 x 3.0	1.6	35.7	47.6	96.0	76.2	27.0	31.7	91.3	147.6	207.2	245.3	63.5	305	7.1
23975	4,200	M24 x 3.0	1.6	47.6	47.6	96.0	76.2	27.0	31.7	91.3	147.6	207.2	245.3	63.5	305	7.2
23978	7,000	M30 x 3.5	1.6	44.8	47.6	96.0	76.2	27.0	31.7	91.3	147.6	207.2	245.3	63.5	590	7.3
23979	7,000	M30 x 3.5	1.6	60.0	47.6	96.0	76.2	27.0	31.7	91.3	147.6	207.2	245.3	63.5	590	7.4
23982	11,000	M36 x 4.0	2.8	53.6	63.5	123.8	114.3	36.5	44.5	114.3	196.1	290.5	351.6	82.55	960	19.1
23983	11,000	M36 x 4.0	2.8	71.4	63.5	123.8	114.3	36.5	44.5	114.3	196.1	290.5	351.6	82.55	960	19.3
23984	12,500	M42 x 4.5	2.8	62.7	63.5	123.8	114.3	36.5	44.5	114.3	196.1	290.5	351.6	82.55	980	19.4
23985	12,500	M42 x 4.5	2.8	83.3	63.5	123.8	114.3	36.5	44.5	114.3	196.1	290.5	351.6	82.55	980	19.6
23986	13,500	M48 x 5.0	2.8	71.4	63.5	123.8	114.3	36.5	44.5	114.3	196.1	290.5	351.6	82.55	980	19.7
23987	13,500	M48 x 5.0	2.8	95.3	63.5	123.8	114.3	36.5	44.5	114.3	196.1	290.5	351.6	82.55	980	20.0

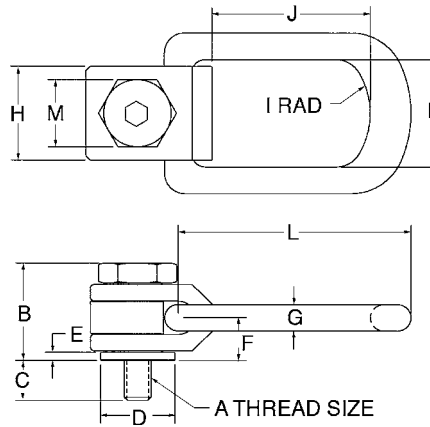
\*\* Stated load capacity based on specific thread torques as shown in chart.

## HOIST RINGS

### Side - Pull Hoist Rings

This most versatile style of hoist ring is particularly suited for turning and flipping loads, but works equally well for top lifts. Used extensively in automotive stamping plants and injection molding operations for die changing.

- Full swivel & Pivot Action
- Alloy Steel, Black Oxide Finish
- Proof Tested to 200% of Rated Load Capacity



### Side-Pull Hoist Rings (Dimensions in inches)

Part No.	Load Capacity (lbs.)	Thread Size A	B	C	D	E	F	G	H	I	J	K	L	M	Torque** (ft.lbs.)	Hex Size	Weight (lbs.)
10253	650	5/16 - 18	1 9/32	15/32	13/16	1/8	9/16	5/16	1	1	1 1/4	1 3/4	3	3/4	4	-	.5
10254	800	3/8 - 16	1 9/32	5/8	13/16	1/8	9/16	5/16	1	1	1 1/4	1 3/4	3	3/4	5	-	.5
10255	1,800	1/2 - 13	1 7/8	3/4	1 3/8	5/32	13/16	1/2	1 3/4	1 1/2	2 3/8	2	4 5/16	1 1/4	15	1/4	2
10256	2,500	5/8 - 11	1 7/8	15/16	1 3/8	5/32	13/16	1/2	1 3/4	1 1/2	2 3/8	2	4 5/16	1 1/4	25	5/16	2
10257	4,100	3/4 - 10	2 5/16	1 1/8	1 7/8	1/4	1 1/32	5/8	2 1/4	2	2 1/4	2 5/8	5 11/16	1 3/4	50	3/8	4
10258	7,100	1 - 8	2 5/16	1 1/2	1 7/8	1/4	1 1/32	5/8	2 1/4	2	2 1/4	2 5/8	5 11/16	1 3/4	130	1/2	4.5
10259	14,000	1 1/4 - 7	4 9/16	1 7/8	3 1/4	23/64	1 21/32	1 1/16	3 3/4	3	2 1/8	4 3/8	8 13/16	3	150	3/4	24.5
10260	17,200	1 1/2 - 6	4 9/16	2 1/4	3 1/4	23/64	1 21/32	1 1/16	3 3/4	3	2 1/8	4 3/8	8 13/16	3	250	3/4	30
10261	29,000	2 - 4 1/2	4 9/16	3	3 1/4	23/64	1 21/32	1 1/16	3 3/4	3	2 15/16	4 3/8	8 13/16	3	300	3/4	26.5

### Metric Side-Pull Hoist Rings (Dimensions in millimeters)

Bushing is zinc plated silver.

Part No.	Load Capacity (kgs.)	Thread Size A	B	C	D	E	F	G	H	I	J	K	L	M	Torque** (kg.m.)	Hex Size	Weight (kgs.)
10262	325	M8 x 1.25	33	16	21	3	14	8	25	25	52	44	76	19	.51	-	.25
10263	500	M10 x 1.5	33	20	21	3	14	8	25	25	52	44	76	19	1.1	-	.25
10264	725	M12 x 1.75	48	24	35	4	21	13	44	38	75	51	110	32	1.9	6	1
10265	1,400	M16 x 2.0	48	32	35	4	21	13	44	38	75	51	110	32	4.1	8	1
10266	2,290	M20 x 2.5	59	40	48	6	26	16	57	51	102	67	145	44	6.9	10	2
10267	3,050	M24 x 3	59	48	48	6	26	16	57	51	102	67	145	44	14	12	2
10268	4,850	M30 x 3.5	117	60	83	9	42	27	95	76	154	111	224	76	35	19	24.5
10269	7,500	M36 x 4	117	72	83	9	42	27	95	76	154	111	224	76	55	19	25
10270	8,700	M42 x 4.5	117	84	83	9	40	25	95	76	152	111	221	76	83	19	27.5
10271	10,000	M48 x 5	117	96	83	9	40	27	95	76	154	111	224	76	118	19	26

\* **WARNING** Do not exceed rated capacities. Be sure that sling tension does not exceed hoist ring capacity. Follow Instructions for Effect of Angle on page 12.

\*\* It is recommended that these torques be used when installing hoist rings.