

## 63200

LIFTING POINTS & SHACKLES

### Material

High tensile stainless steel (316L), strength class >8.  
Supplied with CE certificate.

### Technical Notes

Double articulation.  
Very low overhang for improved safety.  
Large support surface.  
For use in temperatures from -20°C to +200°C. Can be used in lower or higher temperatures but this affects the load rating - please ask for more information.  
Longer or shorter thread lengths can be

supplied but please consult our technical department for this information if required.  
Please refer to our technical information pages when specifying and/or using.

### Tips

Double articulation allows perfect alignment with the sling.  
With „automatic“ position recovery system for best orientation to sling direction.  
Tighten by hex. key or spanner.

### Important Notes

The thread diameter and depth must be appropriate to the material into which it will be installed:  
Steel (min. ST37) - 1 x thread dia.  
Cast iron - 1.25 x thread dia.  
Aluminium - 2 x thread dia.  
Other light metals - 2.5 x thread dia.  
Tolerance of female thread to be 6H (metric) or UNC-2B (inch). **Please refer to the safety documentation before using this part.**  
**Supplied with certificate and operating**

Order No.	Load tonnes (t) max.	d <sub>1</sub> tol. 6g (tol. 2A)	h <sub>1</sub>	w <sub>1</sub>	h <sub>2</sub>	h <sub>3</sub>	h <sub>4</sub>	h <sub>5</sub>	d <sub>2</sub>	l <sub>1</sub>	w <sub>2</sub>	A/F <sub>1</sub>	A/F <sub>2</sub>	Safety factor	Torque to Nm	Weight kg
63200.W0008	0.3	M 8x 1,25	32	53	9.5	30	39	13	30	16	28	8	16	4	6	0.3
63200.W0010	0.5	M10x1,50	32	53	9.5	30	39	13	30	16	28	8	16	4	10	0.3
63200.W0012	0.8	M12x1,75	32	53	9.5	30	39	13	30	19	28	8	16	4	15	0.3
63200.W0014	1.0	M14x2,00	44	76	13.0	40	53	17	45	29	38	8	20	4	30	0.9
63200.W0016	1.5	M16x2,00	44	76	13.0	40	53	17	45	26	38	8	20	4	50	0.9
63200.W0018	1.5	M18x2,50	44	76	13.0	40	53	17	45	30	38	8	20	4	70	1.0
63200.W0020	1.6	M20x2,50	44	76	13.0	40	53	17	45	30	38	8	20	4	100	1.0
63200.W0022	2.2	M22x2,50	62	115	19.0	55	83	25	58	42	56	14	24	4	120	2.5
63200.W0024	2.7	M24x3,00	62	115	19.0	55	83	25	58	42	56	14	24	4	160	2.6
63200.W0027	2.9	M27x3,00	62	115	19.0	55	83	25	58	42	56	14	24	4	200	2.7
63200.W0030	3.5	M30x3,50	62	115	19.0	55	83	25	58	47	56	14	24	4	250	2.8

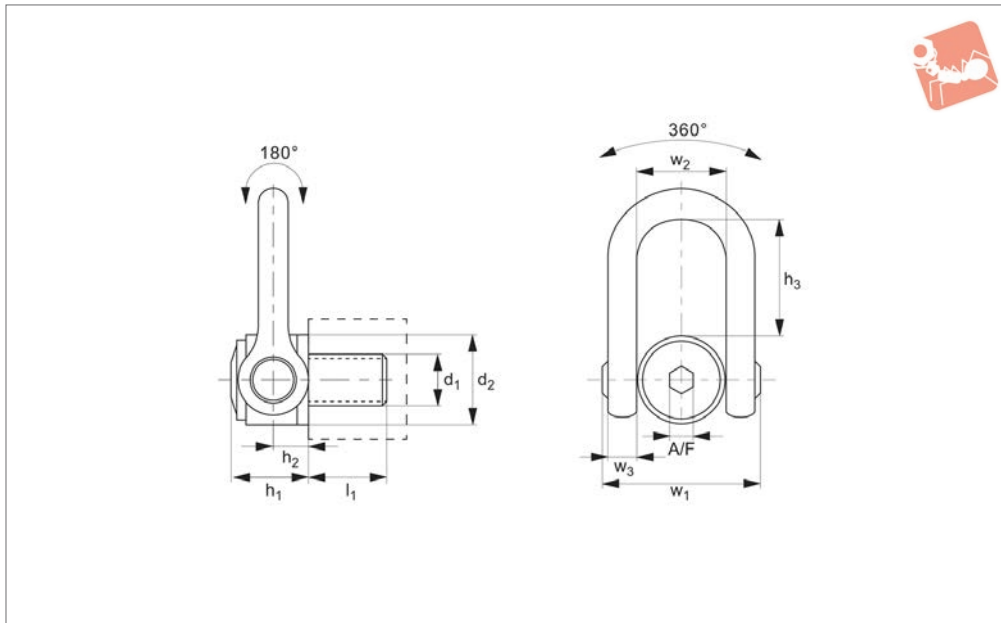


63200 Male

Lifting configuration																
	No. of rings	Lifting angle	1	2	1	2	2	2	2	2	4	4	4	4		
<b>Thread</b>	<b>Maximum load rating for given lifting configuration</b>															
M8	tons	0,30	0,60	0,30	0,60	0,40	0,30	0,60	0,30	0,60	0,30	0,60	0,30			
M8*	tons	0,30	0,60	0,30	0,60	0,40	0,30	0,60	0,30	0,60	0,30	0,60	0,30			
M10	tons	0,50	1,00	0,50	1,00	0,70	0,50	1,10	0,50	1,10	0,50	1,10	0,50			
M10*	tons	0,50	1,00	0,50	1,00	0,70	0,50	1,10	0,50	1,10	0,50	1,10	0,50			
M12	tons	0,80	1,60	0,80	1,60	1,10	0,80	1,70	0,80	1,70	0,80	1,70	0,80			
M12*	tons	0,80	1,60	0,80	1,60	1,10	0,80	1,70	0,80	1,70	0,80	1,70	0,80			
M14	tons	1,00	2,00	1,00	2,00	1,40	1,00	2,10	1,00	2,10	1,00	2,10	1,00			
M16	tons	1,50	3,00	1,50	3,00	2,10	1,50	3,20	1,50	3,20	1,50	3,20	1,50			
M18	tons	1,50	3,00	1,50	3,00	2,10	1,50	3,20	1,50	3,20	1,50	3,20	1,50			
M20	tons	1,60	3,20	1,60	3,20	2,20	1,60	3,40	1,60	3,40	1,60	3,40	1,60			
M22	tons	2,00	4,00	2,00	4,00	2,80	2,00	4,20	2,00	4,20	2,00	4,20	2,00			
M24	tons	2,70	5,40	2,70	5,40	3,80	2,70	5,70	2,70	5,70	2,70	5,70	2,70			
M27	tons	2,80	5,60	2,80	5,60	3,90	2,80	5,90	2,80	5,90	2,80	5,90	2,80			
M30	tons	3,00	6,00	3,00	6,00	4,20	3,00	6,30	3,00	6,30	3,00	6,30	3,00			

\*Fine Thread.

**Important Note: Table shows the maximum load rating for a given lifting configuration (NOT maximum load rating per individual lifting ring).**



## 63210

LIFTING POINTS & SHACKLES

### Material

High tensile stainless steel (316L), strength class >8.  
Supplied with CE certificate.

### Technical Notes

Double articulation, very low overhang for improved safety, large support surface. For use in temperatures from -20°C to +200°C. Can be used in lower or higher temperatures, but this affects the load rating - please ask for more information. \*=non standard thread pitch.  
Longer or shorter thread lengths can be

supplied but please consult our technical department for this information if required.  
Please refer to our technical information pages when specifying and/or using.

### Tips

Double articulation allows perfect alignment with the sling.  
With „automatic“ position recovery system for best orientation to sling direction.  
Tighten by hex. key or spanner.

### Important Notes

The thread diameter and depth must be

appropriate to the material into which it will be installed:

Steel (min. ST37) - 1 x thread dia.

Cast iron - 1.25 x thread dia.

Aluminium - 2 x thread dia.

Other light metals - 2.5 x thread dia.

Tolerance of female thread to be 6H (metric) or UNC-2B (inch).

**Please refer to the safety documentation before using this part.**

**Supplied with certificate and operating instructions.**

Order No.	Load tons (t) max.	d <sub>1</sub> tol. 6g (tol. 2A)	h <sub>1</sub>	w <sub>1</sub>	h <sub>2</sub>	h <sub>3</sub>	d <sub>2</sub>	l <sub>1</sub>	w <sub>2</sub>	w <sub>3</sub>	A/F	Safety factor	Torque to Nm (ft-lb)	Weight kg
63210.W0030	3.5	M30x3,5	61	149	31	98	70	45	73	30	19	4	250	5.2
63210.W0033	3.5	M33x3,5	61	149	31	98	70	50	73	30	19	4	250	5.2
63210.W0036	5.0	M36x4,0	61	149	31	98	70	54	73	30	19	4	320	5.2
63210.W0037	5.0	M36x3,0*	61	149	31	98	70	54	73	30	19	4	320	5.2
63210.W0039	5.0	M39x4,0	61	149	31	98	70	54	73	30	19	4	320	5.4
63210.W0042	6.0	M42x4,5	61	149	31	98	70	63	73	30	19	4	400	5.4
63210.W0043	6.0	M42x3,0*	61	149	31	98	70	63	73	30	19	4	400	5.4
63210.W0045	6.0	M45x4,5	61	149	31	98	70	63	73	30	19	4	400	5.7
63210.W0100	(6000)	(UNC 1"-8)	61	149	31	98	70	40	73	30	3/4"	4	(125)	5.2
63210.W0125	(7500)	(UNC 1 1/4"-7)	61	149	31	98	70	45	73	30	3/4"	4	(200)	5.2
63210.W0137	(7500)	(UNC 1 3/8"-6)	61	149	31	98	70	54	73	30	3/4"	4	(240)	5.2
63210.W0150	(11000)	(UNC 1 1/2"-6)	61	149	31	98	70	61	73	30	3/4"	4	(240)	5.4



63210 Male

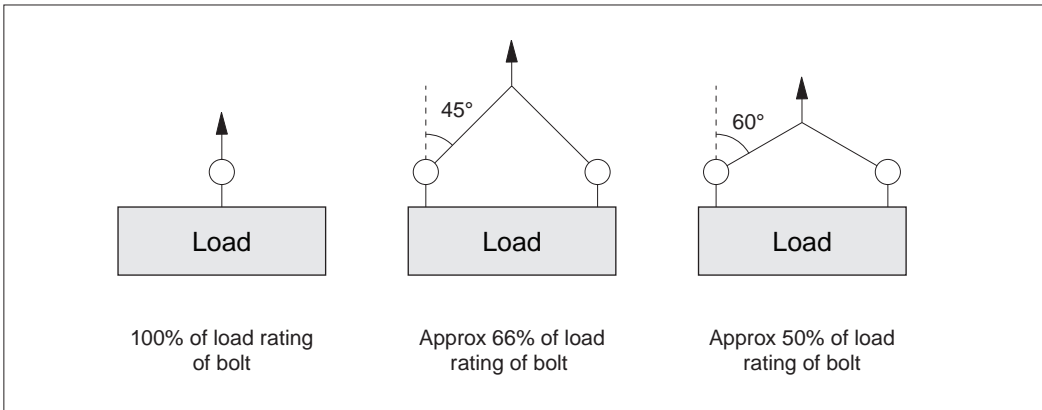
Lifting configuration								
<b>No. of rings</b>	1	2	1	2	2	2	4	4
<b>Lifting angle</b>	0°	0°	90°	90°	45°	60°	45°	60°
<b>Thread</b>	<b>Maximum load rating for given lifting configuration</b>							
M24 tons	2,70	5,40	2,70	5,40	3,80	2,70	5,70	2,70
M27 tons	2,80	5,60	2,80	5,60	3,90	2,80	5,90	2,80
M30 tons	3,50	7,00	3,50	7,00	4,90	3,50	7,30	3,50
M33 tons	3,50	7,00	3,50	7,00	4,90	3,50	7,30	3,50
M36 tons	5,00	10,00	5,00	10,00	7,00	5,00	10,50	5,00
M36* tons	5,00	10,00	5,00	10,00	7,00	5,00	10,50	5,00
M39 tons	5,00	10,00	5,00	10,00	7,00	5,00	10,50	5,00
M42 tons	6,00	12,00	6,00	12,00	8,40	6,00	12,60	6,00
M42* tons	6,00	12,00	6,00	12,00	8,40	6,00	12,60	6,00
M45 tons	6,00	12,00	6,00	12,00	8,40	6,00	12,60	6,00
(UNC 1"-8) lbs	6,000	12,000	6,000	12,000	8,400	6,000	12,600	6,000
(UNC 1 1/4"-7) lbs	7,500	15,000	7,500	15,000	10,500	7,500	15,750	7,500
(UNC 1 3/8"-6) lbs	7,500	15,000	7,500	15,000	10,500	7,500	15,750	7,500
(UNC 1 1/2"-6) lbs	11,000	22,000	11,000	22,000	15,400	11,000	23,100	11,000

\*Fine Thread

**Important Note: Table shows the maximum load rating for a given lifting configuration (NOT maximum load rating per individual lifting ring).**



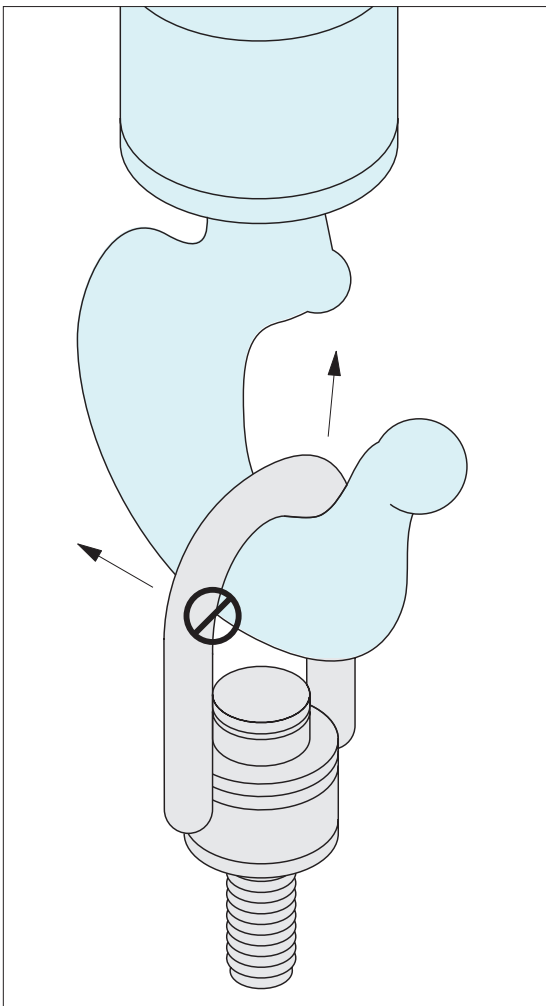
### General product information



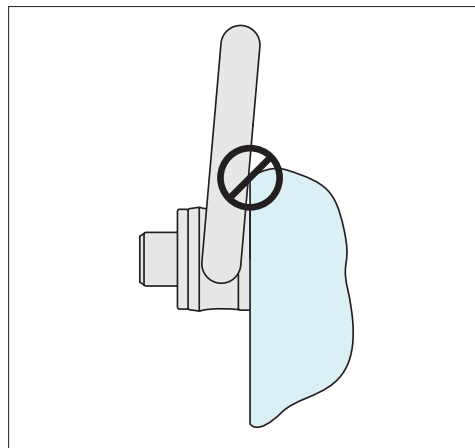
### Lifting angles

For full information on lifting arrangements see technical pages

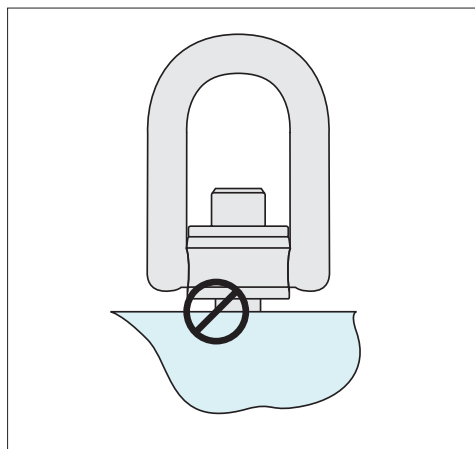
### Installation information



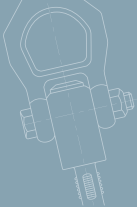
Never use an oversized hook or other lifting device which will pry or tend to open the "U" shaped bar on centre pull hoists rings.



After installation, check the hoist ring to be sure it swivels and pivots freely in all directions. The side of the ring must not contact anything.



Always ensure full thread engagement when installing hoist rings.



## Instructional Overview

### Operating instructions

Note: The full thread must be engaged. Longer thread lengths can be supplied on request or a bolt and washer/nut combination can be used.

- Ensure all lifting bolts are CE marked.
- Ensure they are handled by qualified personnel.
- Refer to the operating instructions particularly with regards to product selection, any possibility of the load swivelling, the effect of lifting angles on the load capacity (see relevant tables), etc.
- Never allow any personnel underneath a suspended load.
- Always heed the load rating of the lifting bolt.
- Always perform a visual inspection of the lifting rings prior to use. Checking for any damage to thread and/or swivelling system. Check for wear or corrosion, signs of stress or bending.
- Ensure a yearly full service inspection is performed.
- Always ensure the full bottom face of the lifting bolts is in contact with a smooth, square surface.
- Ensure bolt is tightened to the correct torque.
- Ensure full and unrestricted movement of the lifting ring in all directions.
- Before each lift ensure the correct orientation of the shackle in the lift direction.
- Avoid using our standard steel lifting rings in corrosive environments eg. sandy, chemical, acid, moisture etc. In this case consider using our stainless steel lifting rings.
- Note the thread length requirements:
  - 1 x thread diameter for steel (ST37 min.).
  - 1.25 x thread diameter for cast iron.
  - 2 x thread diameter for aluminium.
  - 2.5 x thread diameter for other light metals.
  - If fixing into low resistance material it is better to allow for a bigger diameter thread to compensate for the lower material resistance.

### Temperature extremes

-40°C to -20°C	Load rating reduces by 20%.
+200°C to +300°C	Load rating reduces by 10%.
+300°C to +400°C	Load rating reduces by 25%.

### Rugged environments



Certificate of Conformity

For harsh environments we recommend the use of our stainless steel lifting rings.



**63200** - Threads M8 – M30  
Loads 0,3 tons – 3 tons.

**63210** - Threads M30 – M45  
Loads 3,5 tons – 6 tons.

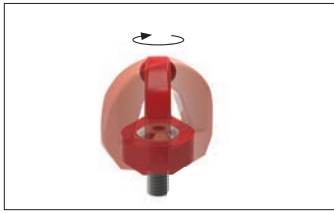


# Benefits of Swivel Lifting Rings Over Lifting Rings

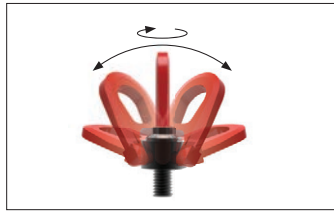


## Materials Handling

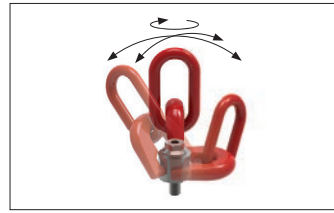
LIFTING POINTS & SHACKLES



**Single swivel** - threads M8 – M48  
loads 0,3 tons – 15 tons



**Double swivel** - threads M4 – M100  
loads 0,05 tons – 50 tons



**Triple swivel** - threads M8 – M56  
loads 0,3 tons – 22 tons

### Pros

- ✓ Individual CE certification
- ✓ CE marked
- ✓ 100% physical check
- ✓ Proof load test of 2.5 x load limit
- ✓ Safety factor 5x stated load
- ✓ 100% traceability with individual marking
- ✓ Complies with 2006/42/CE
- ✓ Axial load
- ✓ Max. load bearing 90°
- ✓ Max. lateral load 90°
- ✓ Swivel loads
- ✓ Forces across lifting ring plane (double and triple swivel type)

### Cons

### Swivel lifting rings

Our swivel lifting rings fully comply with the EC directive 2006/42/EC. They are CE marked and are supplied with a Certificate of Conformity. There is a 100% check on anti-cracking, a proof load test of 2.5 x load limit and a safety factor of 5 on most parts. Each ring is individually marked to ensure full product traceability.

The Swivel Lifting Rings come in three main forms – depending on the number of axis required to swivel. The most popular type is the double swivel rings.

### High tensile lifting rings

The High-tensile lifting bolts are similar to the standard lifting bolts but are rated at higher loads and can lift loads at up to 90° from the thread. They are not meant for loads that might swivel.

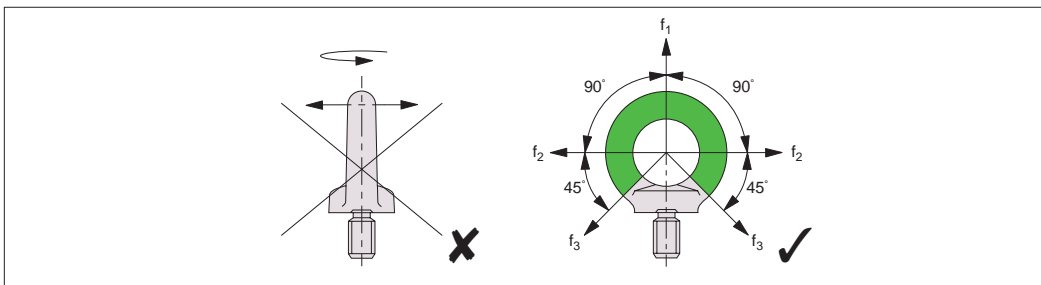
#### Important Note:

**Forces must act in the direction of the lifting ring plane.**

### Standard lifting rings DIN580 and DIN582

These are CE marked and are available with male or female threads in either steel or stainless steel (A4 AISI 316). They are meant only for axial loads, or load bearing or lateral loads at a maximum of 45° from the thread. They are not for use under shear tension or loads (across the thread), nor for loads likely to swivel.

Applied forces must act in the direction of the eye bolt plane, do not apply forces across the eye bolt plane.

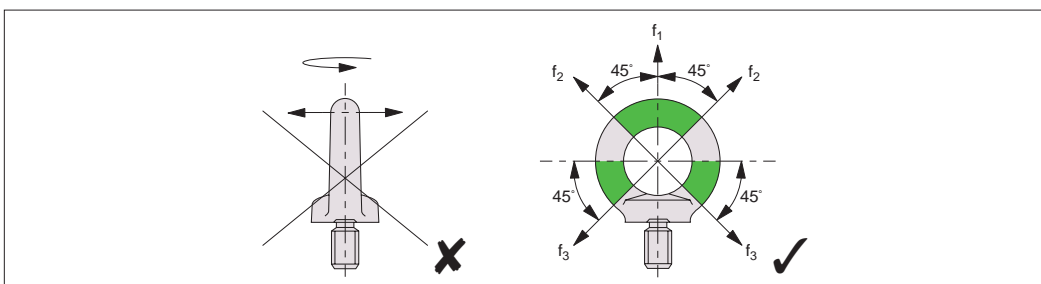


### Pros

- ✓ CE marked
- ✓ Axial load
- ✓ Max. load bearing 90°
- ✓ Max. lateral load 90°

### Cons

- ✗ Individual CE certification
- ✗ Shear tension
- ✗ Swivel loads
- ✗ Forces across lifting ring plane



### Pros

- ✓ CE marked
- ✓ Axial load
- ✓ Max. load bearing 45°
- ✓ Max. lateral load 45°

### Cons

- ✗ Individual CE certification
- ✗ Shear tension
- ✗ Swivel loads
- ✗ Forces across lifting ring plane

**Important Note: Forces must act in the direction of the lifting ring plane.**



63020 Male

Lifting configuration								
	$\alpha$ max. = 60°		$\alpha$ max. = 60°					
No. of rings	1	2	1	2	2	2	4	4
Lifting angle	0°	0°	90°	90°	45°	60°	45°	60°
Thread	Maximum load rating for given lifting configuration							
M8 tons	0,30	0,60	0,30	0,60	0,40	0,30	0,60	0,30
M10 tons	0,60	1,20	0,60	1,20	0,80	0,60	1,30	0,60
M12 tons	1,00	2,00	1,00	2,00	1,40	1,00	2,10	1,00
M16 tons	1,60	3,20	1,60	3,20	2,20	1,60	3,40	1,60
M20 tons	2,50	5,00	2,50	5,00	3,50	2,50	5,30	2,50
M24 tons	4,00	8,00	4,00	8,00	5,60	4,00	8,40	4,00
M30 tons	6,30	12,60	6,30	12,60	8,80	6,30	13,20	6,30
M36 tons	10,00	20,00	10,00	20,00	14,00	10,00	21,00	10,00
M42 tons	12,50	25,00	12,50	25,00	17,50	12,50	26,30	12,50
M48 tons	15,00	30,00	15,00	30,00	21,00	15,00	31,50	15,00

**Important Note:** Table shows the maximum load rating for a given lifting configuration (NOT maximum load rating per individual lifting ring).

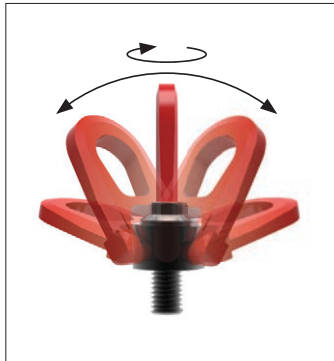




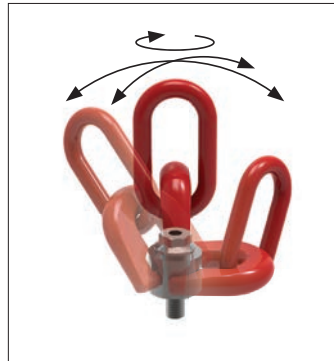
### Swivel lifting rings



**Single swivel** - threads M8 – M48  
loads 0,3 tons – 15 tons



**Double swivel** - threads M4 – M100  
loads 0,05 tons – 50 tons



**Triple swivel** - threads M8 – M56  
loads 0,3 tons – 22 tons

Our swivel lifting rings fully comply with the EC directive 2006/42/EC. They are CE marked and are supplied with a Certificate of Conformity. There is a 100% check on anti-cracking, a proof load test of 2.5 x load limit and a safety factor of 5 on most parts. Each ring is individually marked to ensure full product traceability. The Swivel Lifting Rings come in three main forms – depending on the number of axis required to swivel. The most popular type is the double swivel rings.

LIFTING POINTS & SHACKLES

### Steel and stainless steel (316) versions



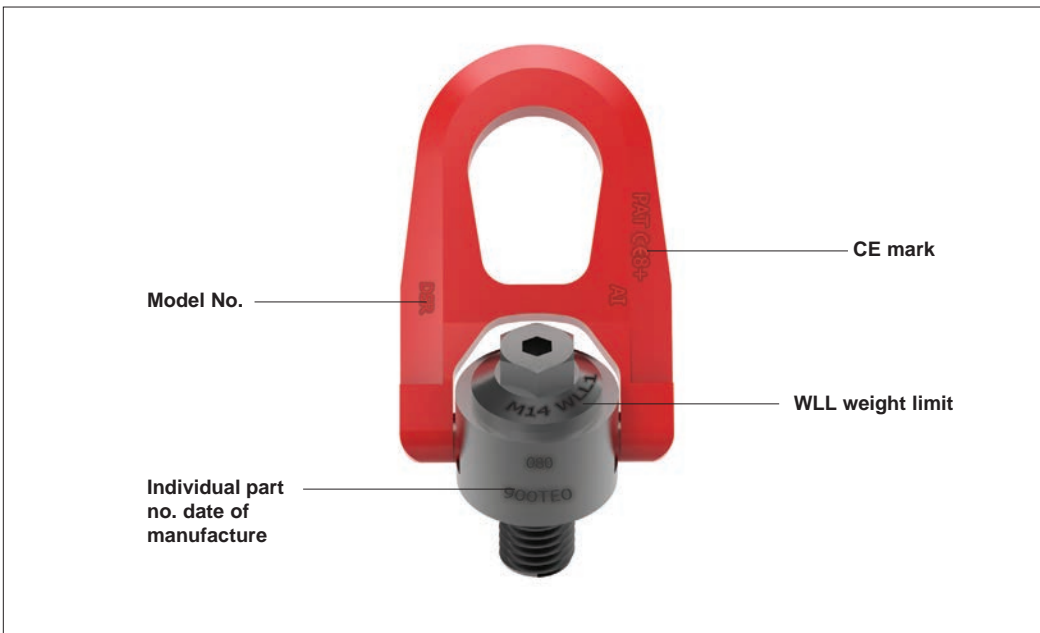
Steel



Stainless (316L)

Compliant with 2006/42/EC, and with individual date of manufacture and batch number.

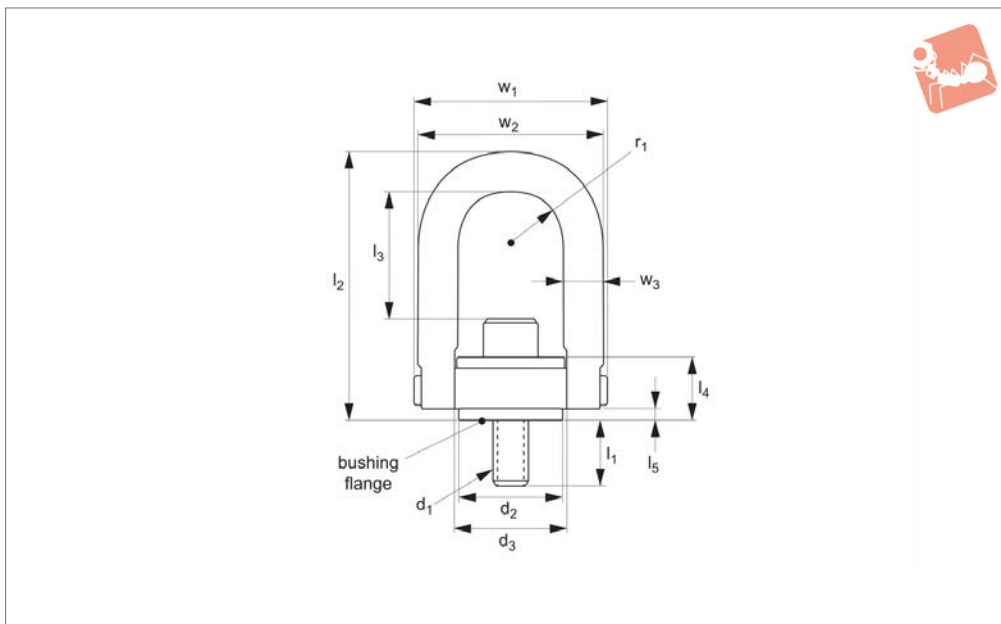
### Product marking



A swivel lifting rings that complies with 2006/42/CE



## 63571



### Material

Stainless steel, 300 series.

Each part individually numbered.

tl= recommended torque load (Nm.)

ASTM-A967.

### Technical Notes

Min. design safety factor 5:1. 360° swivel and 180° pivot under load.

### Tips

Liquid penetrant tested as ASTM-E1417. Purification process, clean and passivate as

### Important Notes

Always follow safety instructions.

Order No.	Rated load tonnes (t)	d <sub>1</sub>	l <sub>1</sub>	w <sub>1</sub>	d <sub>2</sub>	d <sub>3</sub>	l <sub>2</sub>	Weight kg
63571.W0081	0.200	M 8x1,25	17	46.7	19.1	25.4	67.8	0.14
63571.W0101	0.225	M10x1,50	17	46.7	19.1	25.4	67.8	0.14
63571.W0121	0.525	M12x1,75	19	89.4	38.0	50.5	121.4	1.05
63571.W0161	0.950	M16x2,00	24	89.4	38.0	50.5	121.4	1.11
63571.W0201	1.100	M20x2,50	30	89.4	38.0	50.5	121.4	1.16
63571.W0202	1.500	M20x2,50	29	130.5	58.7	76.2	165.8	3.06
63571.W0241	2.100	M24x3,00	34	130.5	58.7	76.2	165.8	3.18
63571.W0301	3.500	M30x3,50	46	165.1	81.3	95.5	221.7	3.36
63571.W0302	3.500	M30x3,50	66	165.1	81.3	95.5	221.7	6.70
63571.W0362	5.500	M36x4,00	69	217.2	106.7	123.7	316.7	15.34
63571.W0421	6.250	M42x4,50	79	217.2	106.7	123.7	316.7	15.91
63571.W0481	7.250	M48x5,00	79	217.2	106.7	123.7	316.7	16.36
63571.W0641	11.000	M64x6,00	102	269.4	146.1	165.6	428.5	39.77

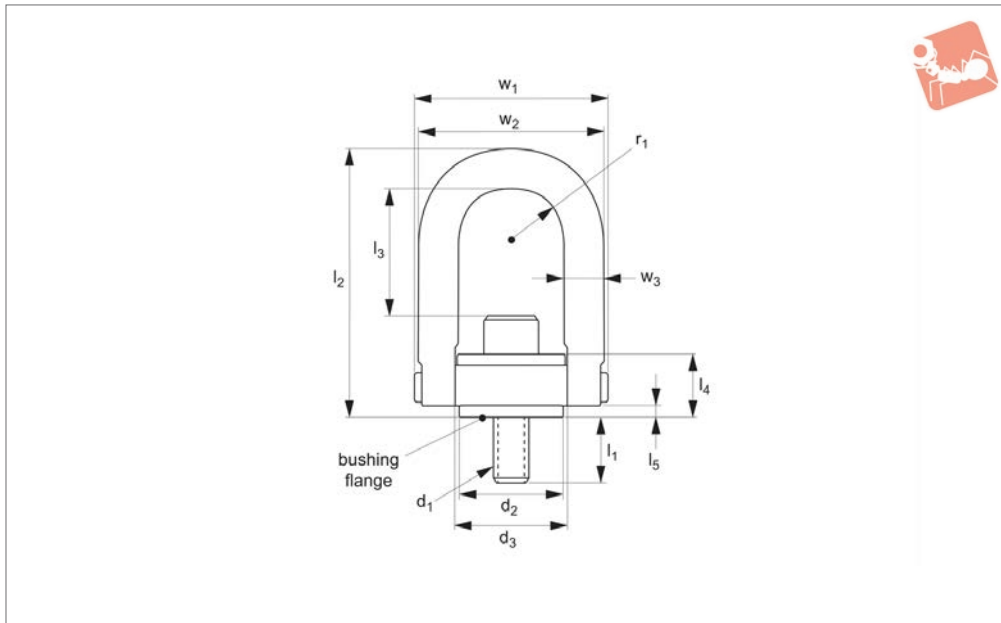
Order No.	l <sub>3</sub>	l <sub>4</sub>	l <sub>5</sub>	r <sub>1</sub>	w <sub>2</sub>	w <sub>3</sub>	tl Nm
63571.W0081	32.1	18.0	4.3	10.9	40.9	9.5	4.75
63571.W0101	30.2	18.0	4.3	10.9	40.9	9.5	8.00
63571.W0121	59.4	31.0	4.1	24.4	82.5	19.0	18.50
63571.W0161	55.4	31.0	4.1	24.4	82.5	19.0	40.00
63571.W0201	51.4	31.0	4.1	24.4	82.5	19.0	67.50
63571.W0202	77.0	43.4	6.1	35.6	121.2	25.4	67.50
63571.W0241	73.0	43.4	6.1	35.6	121.2	25.4	155.50
63571.W0301	106.3	53.6	8.9	44.5	52.4	31.8	318.60
63571.W0302	106.3	53.6	8.9	44.5	52.4	31.8	318.60
63571.W0362	164.8	71.4	11.9	57.2	203.2	44.5	542.70
63571.W0421	158.8	71.4	11.9	57.2	203.2	44.5	542.70
63571.W0481	152.8	71.4	11.9	57.2	203.2	44.5	542.70
63571.W0641	203.3	104.0	28.4	76.2	266.7	57.2	1423.70



# Lifting Points - Double Swivel - Male

long bar - metric - coarse - stainless steel

## Lifting Points & Shackles



**63572**

LIFTING POINTS & SHACKLES

### Material

Stainless steel, 300 series.

### Technical Notes

Min. design safety factor 5:1. 360° swivel and 180° pivot under load.

Each part individually numbered.

tl = recommended torque load (Nm.)

### Tips

Liquid penetrant tested as ASTM-E1417.

Purification process, clean and passivate as

ASTM-A967.

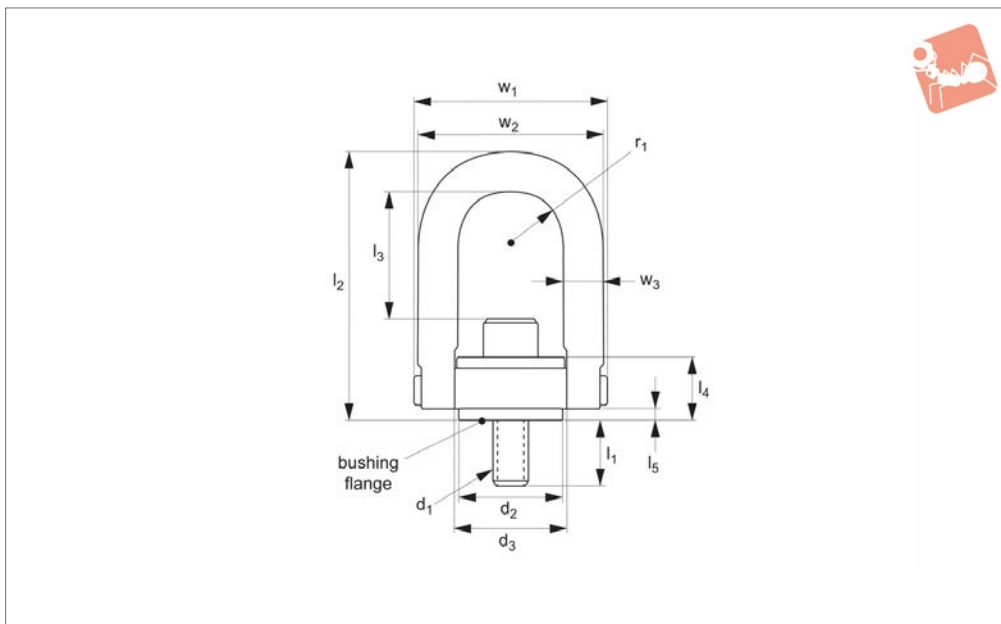
### Important Notes

Always follow safety instructions.

Order No.	Rated load tonnes (t)	d <sub>1</sub>	l <sub>1</sub>	w <sub>1</sub>	d <sub>2</sub>	d <sub>3</sub>	l <sub>2</sub>	l <sub>3</sub>	l <sub>4</sub>	l <sub>5</sub>	r <sub>1</sub>	w <sub>2</sub>	tl Nm	Weight kg
<b>63572.W0121</b>	0.525	M12x1,75	19	89.4	38.0	50.5	121.4	108.6	31.0	4.1	22.4	82.5	18.5	1.27
<b>63572.W0161</b>	0.950	M16x2,00	24	89.4	38.0	50.5	121.4	104.6	31.0	4.1	22.4	82.5	40.0	1.33
<b>63572.W0201</b>	1.100	M20x2,50	30	89.4	38.0	50.5	121.4	100.6	31.0	4.1	22.4	82.5	67.5	1.38
<b>63572.W0202</b>	1.500	M20x2,50	29	130.5	58.7	76.2	165.8	117.9	43.4	5.1	35.6	121.2	67.5	3.77
<b>63572.W0241</b>	2.100	M24x3,00	34	130.5	58.7	76.2	165.8	113.9	43.4	6.1	35.6	121.2	155.5	3.89
<b>63572.W0301</b>	2.250	M30x3,50	54	130.5	58.7	76.2	165.8	109.0	43.4	6.1	35.6	121.2	155.5	4.01



## 63581



### Material

Stainless steel, 300 series.

### Technical Notes

Min. design safety factor 5:1. 360° swivel and 180° pivot under load.

Each part individually numbered.

tl = recommended torque load (ft - lbs)

### Tips

Liquid penetrant tested as ASTM-E1417.

Purification process, clean and passivate as

ASTM-A967.

### Important Notes

All dimensions in imperial.

Always follow safety instructions.

Order No.	Rated load lb	d <sub>1</sub>	l <sub>1</sub>	w <sub>1</sub>	d <sub>2</sub>	d <sub>3</sub>	l <sub>2</sub>	l <sub>3</sub>	Weight lb
63581.W0251I	275	1/4-20	0.54	1.84	0.75	1.00	2.67	1.33	0.31
63581.W0311I	400	5/16-18	0.29	1.84	0.75	1.00	2.67	1.27	0.31
63581.W0312I	400	5/16-18	0.54	1.84	0.75	1.00	2.67	1.27	0.31
63581.W0371I	500	3/8-16	0.54	1.84	0.75	1.00	2.67	1.21	0.31
63581.W0501I	1250	1/2-13	1.07	2.58	1.25	1.49	3.77	1.84	1.00
63581.W0502I	1250	1/2-13	0.78	3.52	1.50	1.99	4.78	2.31	2.31
63581.W0503I	1250	1/2-13	1.03	3.52	1.50	1.99	4.78	2.31	2.31
63581.W0504I	1250	1/2-13	1.28	3.52	1.50	1.99	4.78	2.31	2.31
63581.W0631I	2000	5/8-11	0.78	3.52	1.50	1.99	4.78	2.18	2.43
63581.W0632I	2000	5/8-11	1.03	3.52	1.50	1.99	6.72	2.18	2.43
63581.W0634I	2000	5/8-11	1.28	3.52	1.50	1.99	6.72	2.18	2.43
63581.W0751I	2500	3/4-10	1.03	3.52	1.50	1.99	6.72	2.06	2.56
63581.W0752I	2500	3/4-10	1.53	3.52	1.50	1.99	6.72	2.06	2.56
63581.W0753I	3500	3/4-10	1.04	5.14	2.37	3.00	6.52	3.06	6.62
63581.W0754I	3500	3/4-10	1.54	5.14	2.37	3.00	6.52	3.06	6.62
63581.W0881I	4000	7/8-9	1.04	5.14	2.37	3.00	6.52	2.93	6.75
63581.W1001I	5000	1-8	1.29	5.14	2.37	3.00	6.52	2.81	7.00
63581.W1002I	5000	1-8	1.54	5.14	2.37	3.00	6.52	2.81	7.00
63581.W1003I	5000	1-8	2.29	5.14	2.37	3.00	6.52	2.81	7.00
63581.W1251I	7500	1-1/4-7	1.89	6.50	3.20	3.76	8.73	4.12	14.00
63581.W1501I	12000	1-1/2-6	2.70	8.55	4.20	4.87	12.47	6.41	33.75
63581.W2001I	15000	2-4-1/4	2.96	8.55	4.20	4.87	12.47	5.41	36.00
63581.W2501I	25000	2-1/2-8	4.00	11.67	5.75	6.52	16.87	8.03	87.50
63581.W2502I	25000	2-1/2-4	4.00	11.67	5.75	6.52	16.87	8.03	87.50
63581.W3001I	37500	3-4	5.20	14.15	7.25	8.10	19.50	8.48	166.00
63581.W3501I	50000	3-1/2-4	7.00	15.90	7.75	8.60	22.09	9.28	240.00

Order No.	l <sub>4</sub>	l <sub>5</sub>	r <sub>1</sub>	w <sub>2</sub>	w <sub>3</sub>	tl ft-lb
63581.W0251I	0.71	0.17	0.43	1.61	3/8	2.5
63581.W0311I	0.71	0.17	0.43	1.61	3/8	3.5
63581.W0312I	0.71	0.17	0.43	1.61	3/8	3.5



# Lifting Points - Double Swivel - Male

standard bar - UNC thread - stainless steel

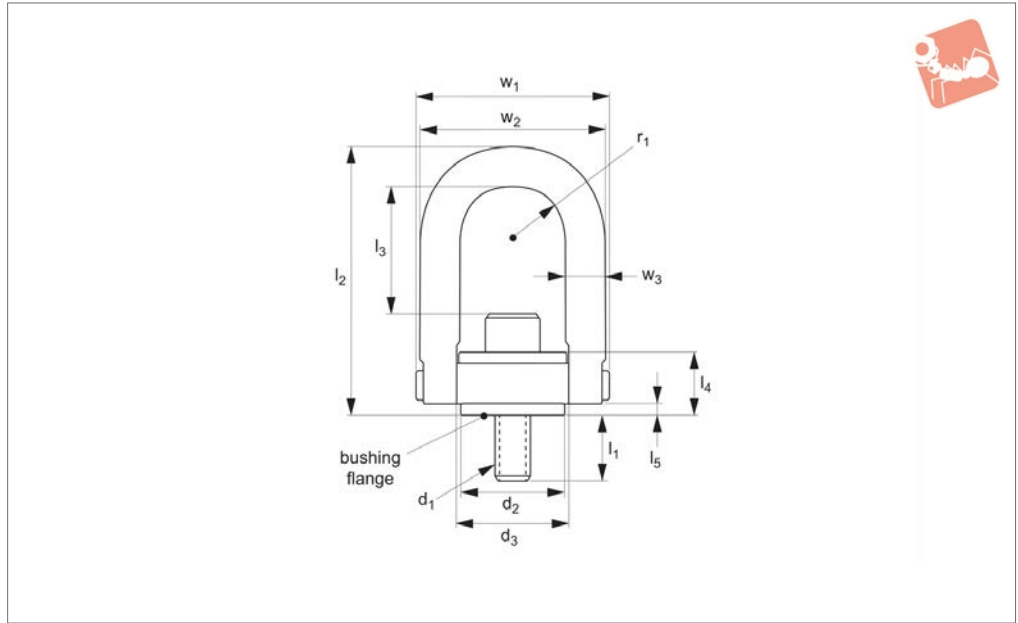
## Lifting Points & Shackles

Order No.	$l_4$	$l_5$	$r_1$	$w_2$	$w_3$	$r_1$	$t_l$ ft·lb
63581.W0371I	0.71	0.17	0.43	1.61	3/8		6.0
63581.W0501I	0.93	0.20	0.70	2.40	1/2		14.0
63581.W0502I	1.22	0.16	0.88	3.25	3/4		14.0
63581.W0503I	1.22	0.16	0.88	3.25	3/4		14.0
63581.W0504I	1.22	0.16	0.88	3.25	3/4		14.0
63581.W0631I	1.22	0.16	0.88	3.25	3/4		30.0
63581.W0632I	1.22	0.16	0.88	3.25	3/4		30.0
63581.W0634I	1.22	0.16	0.88	3.25	3/4		30.0
63581.W0751I	1.22	0.16	0.88	3.25	3/4		50.0
63581.W0752I	1.22	0.16	0.88	3.25	3/4		50.0
63581.W0753I	1.71	0.24	1.40	4.80	1		50.0
63581.W0754I	1.71	0.24	1.40	4.80	1		50.0
63581.W0881I	1.71	0.24	1.40	4.80	1		80.0
63581.W1001I	1.71	0.24	1.40	4.80	1		115.0
63581.W1002I	1.71	0.24	1.40	4.80	1		115.0
63581.W1003I	1.71	0.24	1.40	4.80	1		115.0
63581.W1251I	2.11	0.35	1.75	6.00	1-1/4		235.0
63581.W1501I	2.81	0.47	2.25	8.00	1-3/4		400.0
63581.W2001I	2.81	0.47	2.25	8.00	1-3/4		400.0
63581.W2501I	4.09	1.12	3.00	10.50	2-1/4		1050.0
63581.W2502I	4.09	1.12	3.00	10.50	2-1/4		1050.0
63581.W3001I	5.27	1.00	3.75	13.00	2-3/4		2150.0
63581.W3501I	6.06	1.09	4.00	14.50	3-1/4		3300.0

LIFTING POINTS & SHACKLES



## 63582



### Material

Stainless steel, 300 series.

### Technical Notes

Min. design safety factor 5:1. 360° swivel and 180° pivot under load.

Each part individually numbered.

tl = recommended torque load (ft - lbs).

### Tips

Liquid penetrant tested as ASTM-E1417.

Purification process, clean and passivate as

ASTM-A967.

### Important Notes

**All dimensions in imperial.**

Always follow safety instructions.

Order No.	Rated load lb	d <sub>1</sub> UNC	l <sub>1</sub>	w <sub>1</sub>	d <sub>2</sub>	d <sub>3</sub>	l <sub>2</sub>	Weight lb
63582.W0501I	1250	1/2-13	0.78	3.52	1.50	1.99	6.72	2.75
63582.W0502I	1250	1/2-13	1.03	3.52	1.50	1.99	6.72	2.00
63582.W0503I	1250	1/2-13	1.28	3.52	1.50	1.99	6.72	2.75
63582.W0631I	2000	5/8-11	1.03	3.52	1.50	1.99	4.38	2.87
63582.W0632I	2000	5/8-11	1.28	3.52	1.50	1.99	4.38	2.75
63582.W0751I	2500	3/4-10	1.03	3.52	1.50	1.99	4.38	3.00
63582.W0752I	2500	3/4-10	1.53	3.52	2.37	1.99	4.38	3.00
63582.W0753I	3500	3/4-10	1.04	5.14	2.37	3.00	8.11	7.25
63582.W0754I	3500	3/4-10	1.54	5.14	2.37	3.00	8.11	6.62
63582.W0881I	4000	7/9-9	1.04	5.14	2.37	3.00	8.11	6.75
63582.W1001I	5000	1-8	1.29	5.14	2.37	3.00	8.11	7.00
63582.W1002I	5000	1-8	1.54	5.14	2.37	3.00	8.11	7.00
63582.W1003I	5000	1-8	2.29	5.14	2.37	3.00	8.11	7.00

Order No.	l <sub>3</sub>	l <sub>4</sub>	l <sub>5</sub>	r <sub>1</sub>	w <sub>2</sub>	w <sub>3</sub>	tl ft-lb
63582.W0501I	4.25	1.22	0.16	0.88	3.25	3/4	14
63582.W0502I	4.25	1.22	0.16	0.88	3.25	3/4	14
63582.W0503I	4.25	1.22	0.16	0.88	3.25	3/4	14
63582.W0631I	4.12	1.22	0.16	0.88	3.25	3/4	30
63582.W0632I	4.12	1.22	0.16	0.88	3.25	3/4	30
63582.W0751I	4.00	1.22	0.16	0.88	3.25	3/4	50
63582.W0752I	4.00	1.22	0.16	0.88	3.25	3/4	50
63582.W0753I	4.65	1.71	0.24	1.40	4.80	1	50
63582.W0754I	4.65	1.71	0.24	1.40	4.80	1	50
63582.W0881I	4.52	1.71	0.24	1.40	4.80	1	80
63582.W1001I	4.40	1.71	0.24	1.40	4.80	1	115
63582.W1002I	4.40	1.71	0.24	1.40	4.80	1	115
63582.W1003I	4.40	1.71	0.24	1.40	4.80	1	115



Heavy duty safety hoist rings are stronger than competitive lifting devices, providing better value while delivering the quality and safety only the best design and manufacture can achieve.

- Manufactured from high strength alloy steel.
- One piece body and shouldered d-ring element.
- Just 6 component parts for increased safety.

The patented shoulder pin used in our heavy duty safety hoist rings allows for rotation of the pin, without shearing of any retaining dowel pin which is so often used in the construction of other competitive hoist rings. This unique design element enables disassembly of our hoist rings for inspection, compliance testing and reassembly.

## General maintenance and care

Improper maintenance and inspection of your hoist ring could result in damaged equipment, personal injury or even death. In order to ensure maximum safety please read, understand and follow these maintenance and inspection guidelines prior to using any lifting hoist ring.

- When not in use, store hoist rings carefully to prevent corrosion or accidental damage.
- Do not remove the installation and safety tag from the lifting device. Ensure the identification tag remains legible during the life to the lifting device.

### Maintenance

Visually inspect the lifting device prior to any use. Frequency of inspection should increase with the frequency of use, severity of service conditions and the more safety critical the use of the device. Discontinue use of any lifting device if inspection identifies any of the following:

- Missing identification tags.
- Indications of heat damage.
- Excessive corrosion or pitting.
- Damaged or missing load bearing components.
- Excessive nicks or gouges.
- Excessive thread damage.
- Evidence of unauthorised welding or modification.
- Lack of ability to swivel 360° or pivot 180°.

### Inspection

## Important installation and operation instructions

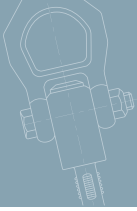
### Installation

- Ensure thread has been tapped perpendicular to the mounting surface. Mounting surface should be flat to provide full 360° flush seating for the hoist ring.
- For installation in ferrous metal ensure bolt is tightened to the full torque load +0-20% (as specified on the product data sheet).
- To ensure the 5:1 design safety factor we recommend the ultimate tensile strength of the mating material to be min. 80,000 psi.
- For weaker mating material consider using longer bolts or through hole mounting with a nut and washer on the back side. To prevent stripping the mating thread, lower torque values (down to half the stated value) may be considered in temporary installations.
- On completion of installation check the lifting ring can swivel and pivot freely in all directions.
- Use at temperatures between -30°C and +200°C

### Safety notes

- Never exceed the working load limit.
- Visually inspect the hoist ring for damage before each use.
- Loosening of the a bolt may develop after prolonged service, it is advisable to periodically retighten to the specified torque value.
- Apply lifting loads gradually to avoid shock loads.
- Use of free fit spacers between the lifting ring bush flange and the mounting surface is not recommended.
- Do not over size hooks nor use attachment methods which spread the ring.
- It is important to align the lifting ring with ~the direction of the load.
- Do not attach guidelines to hoist rings.
- Do not leave a gap between lifting ring bushing and mounting surface.
- Never allow personnel to walk underneath a suspended load.

It is very important for you to read and comply with these installation and safety notes prior to use or any lifting device.



### Formula to calculate the load per lifting ring

$$F = \frac{W}{N \sin A}$$

F = force on each hoist ring  
 N = number of hoist rings  
 A = lifting angle  
 W = total weight

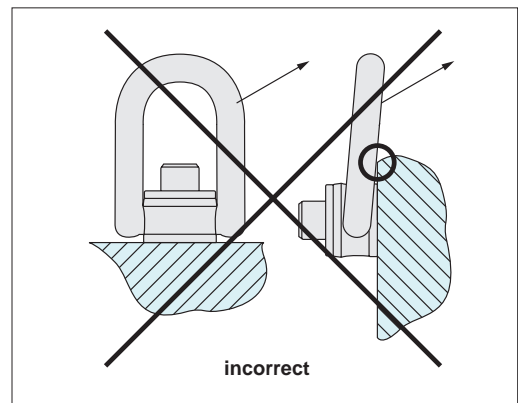
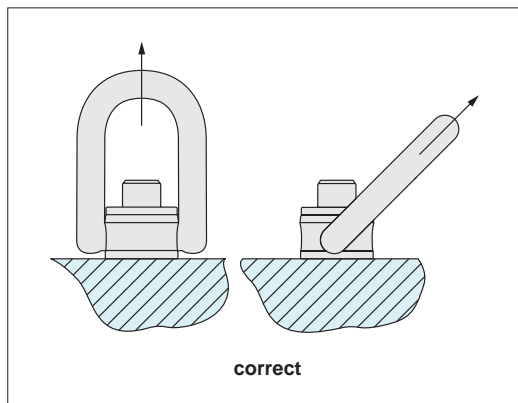
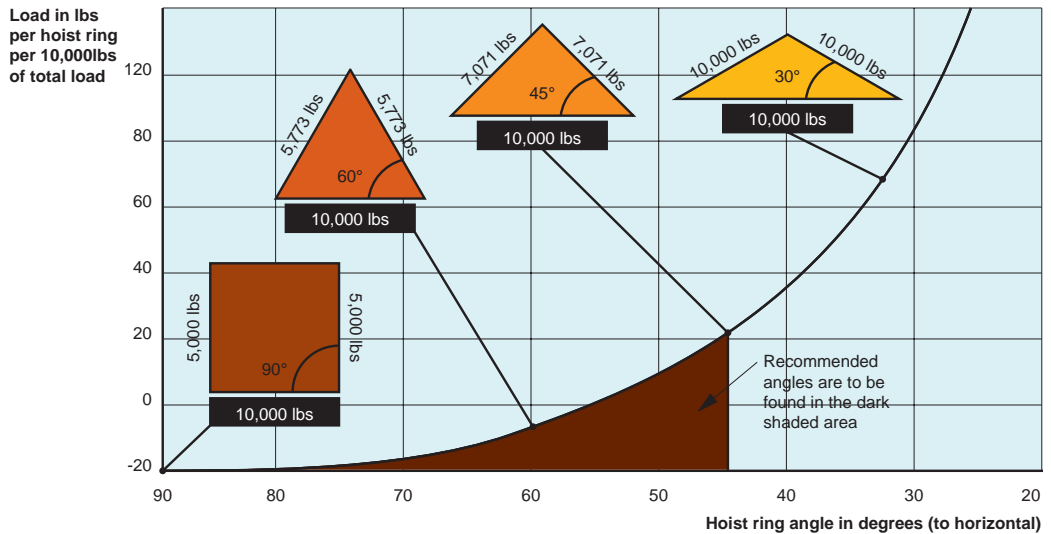
For example:

If A = 65°  $F = \frac{4000}{4 \sin 65^\circ} = 1103 \text{ lbs.}$

If A = 14°  $F = \frac{4000}{4 \sin 14^\circ} = 4134 \text{ lbs.}$

**Important note: The force exerted on each hoist ring is not simply a function of the total weight divided by the number of hoist rings, but is critically reliant upon the lifting angle, greater forces are present the lower the lifting angle. See example below.**

### Angular lifting



Do not allow the lifting ring to bind/stick and hence apply side loads to the bail. Ensure loads applied are in the same direction of the bail. If necessary use a spreader bar to avoid binding.

