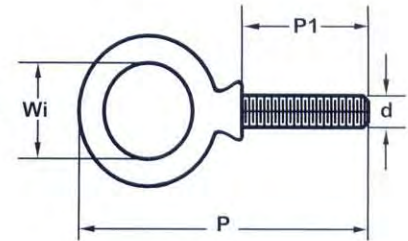


## Shoulder Eyebolts 環眼螺栓



- Forged Steel
- Heat treated, quenched & tempered
- Meets IFI standards, ASTM A 489, ANSI/ASME, B18.5



Shank Diameter	Product Code	Working Load Limit	Dimensions				A Thread (UNC-2A)	Weight
			Wi	P1	P			
<b>Imperial</b>								
in.			in.	in.	in.	in.	lb.	
1/4	456920	500	0.750	1.000	2.39	1/4 to 20	0.06	
5/16	456921	900	0.870	1.120	2.80	5/16 to 18	0.11	
3/8	456922	1,300	1.000	1.250	3.22	3/8 to 16	0.18	
7/16	496933	1,800	1.094	1.375	3.59	7/16 to 14	0.22	
1/2	456923	2,400	1.188	1.500	3.96	1/2 to 13	0.35	
5/8	456924	4,000	1.375	1.750	4.69	5/8 to 11	0.70	
3/4	456925	5,000	1.500	2.000	5.28	3/4 to 10	1.10	
7/8	456926	7,000	1.690	2.500	6.04	7/8 to 9	1.70	
1	456927	9,000	1.810	2.500	6.67	1 to 8	2.36	
1-1/8	456930	12,000	2.000	2.750	7.44	1-1/8 to 7	3.98	
1-1/4	456928	15,000	2.180	3.000	8.12	1-1/4 to 7	4.68	
1-1/5	456929	21,000	2.500	3.500	9.49	1-1/2 to 6	7.77	

### Note:

- Do not exceed the working load limit - reduce the working load limit according to the adjacent table if loading other than true vertical. Inspect eyebolts before use. Do not use if bent more than 15° or if wear of more than 10% of original dimension is evident.
- Install with shoulder at 90° to axis of hole to assure total contact of shoulder. Torque nut/eyebolt to assure proper seating. Check seating after initial loading.
- If installing in tapped hole, make sure depth of thread engagement is at least 1-1/2 times bolt diameter. Thread fit must also be good-tight, not loose-sloppy.
- Where eyebolts must be aligned, a washer or shim may be placed under the shoulder to permit alignment when tightened.
- To minimize the bending movement, always apply load in the direction of the plane of eye. Reduce working load limit according to table if loading other than true vertical
- Never insert a hook tip in an eyebolt to load.
- Do not use a sling reeved through an eyebolt or a pair of eyebolts using a shackle.

### Shoulder Eyebolt Working Load Limit Angle of Loading

True Vertical	75°	65°	45°	Less than 45°
Full working load limit	55% of full WLL	35% of full WLL	25% of full WLL	DO NOT USE

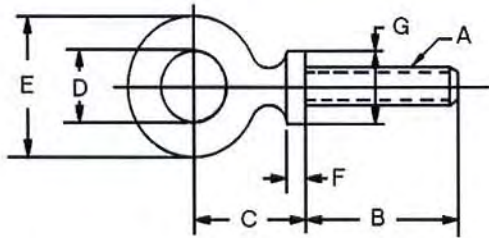
Refer to Full Specifications for Full Working Load Limits

**If in doubt, consult a rigging handbook or discuss with a qualified person**

# LIFTING PRODUCTS

# 吊舉產品

## Shoulder Eye Bolts Inch 吊眼英制



For other than vertical loads, general practice is to use 60% of the working load capacity for a load 30° from vertical; 33% of vertical load for load 45° from vertical; and 20% of vertical load for load 90° from vertical.

NOTE: 2 1/2 threads runout on threaded portion.



- Material: C-1030 Forge
- Finish: Mill
- Thread: 2A

PART NUMBER	A	B	C (REF.)	D	E	F (REF.)	G	WT (lbs)	LOAD CAPACITY (lbs)
18501	1/4-20	1	11/16	3/4	1 3/16	3/16	1/2	.05	500
18502	5/16-18	1 1/8	7/8	7/8	1 7/16	3/16	5/8	.10	900
18503	3/8-16	1 1/4	1 1/16	1	1 21/32	3/16	1 1/16	.16	1300
18504	1/2-13	1 1/2	1 5/16	1 3/16	2 1/16	1/4	7/8	.36	2400
18505	5/8-11	1 3/4	1 19/32	1 3/8	2 1/2	1/4	1 1/8	.65	4000
18506	3/4-10	2	1 23/32	1 1/2	2 13/16	5/16	1 1/4	1.00	5000
18507	7/8-9	2 1/4	2 3/16	1 11/16	3 1/4	3/8	1 7/16	1.70	7000
18508	1-8	2 1/2	2 13/32	1 13/16	3 9/16	13/32	1 9/16	2.36	9000
18509	1 1/8-7	2 3/4	2 23/32	2	4	15/32	1 11/16	3.41	12000
18510	1 1/4-7	3	2 15/16	2 3/16	4 7/16	1/2	1 7/8	4.68	15000
18511	1 1/2-6	3 1/2	3 7/16	2 1/2	5 3/16	9/16	2 3/16	7.77	21000
18512	1 3/4-5	3 3/4	3 31/32	2 7/8	6 1/16	5/8	2 1/2	11.35	28000
18513	2-4 1/2	4	4 1/2	3 1/4	6 7/8	3/4	2 7/8	16.70	38000

## Metric - Short 公制-短

Loads given ensure a strength factor of four against deformation of any kind and strength factor of five against fracture.

- Material: C-15 Annealed (AISI 1015)
- Finish: Mill
- Thread: 6g

PART NUMBER	A	B	C (REF.)	D	E	G	WT. (Kg)
18551	M6 X 1	13.0	17.5	19.1	36.5	20.0	.023
18552	M8 X 1.25	13.0	22.2	22.2	36.5	20.0	.045
18554	M12 X 1.75	20.5	33.3	30.2	52.4	30.0	.163
18555	M16 X 2	27.0	40.5	34.9	63.5	35.0	.295

Maximum permissible loads in lbs.	
For one bolt firmly tightened	For two bolts total
150	100
300	200
700	500
1500	1100

All Dimensions in Millimeters.

## Metric - Standard 公制-標準型

- Material: C-1030 Forge
- Finish: Mill
- Thread: 6g

PART NUMBER	A	B	C (REF.)	D	E	F (REF.)	G	WT (lbs)	LOAD CAPACITY (Kg)	LOAD CAPACITY (lbs)
18561	M6 X 1.0	25.4	20.6	19	30.0	3.9	13.5	.06	210	462
18562	M8 X 1.25	31.7	29.4	25	43.0	4.8	17.5	.17	500	1110
18563	M10 X 1.5	35.0	33.3	27	46.0	5.2	19.8	.24	740	1628
18564	M12 X 1.75	38.0	36.5	30	54.0	5.6	22.2	.36	1030	2266
18565	M16 X 2.0	44.5	43.6	35	65.0	6.3	27.0	.69	1600	3520
18566	M20 X 2.5	57.0	55.6	41	81.0	9.5	36.5	1.51	2860	6292
18567	M24 X 3.0	63.5	61.1	44	90.4	10.3	39.7	2.36	3850	8470
18568	M30 X 3.5	76.0	74.6	55	112.7	12.7	47.6	4.68	6400	14080
18569	M36 X 4.0	89.0	87.3	63	131.8	14.3	55.6	7.77	8970	19734
18570	M42 X 4.5	95.0	93.6	73	152.4	15.1	60.3	11.10	11960	26312
18571	M48 X 5.0	101.6	107.9	82	174.6	17.5	69.8	15.90	16400	36080