THE NUTTY COMPANY INC
FASTENER SPECIALISTS SINCE 1977

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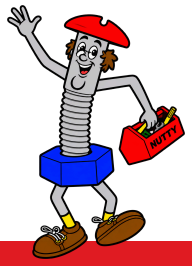
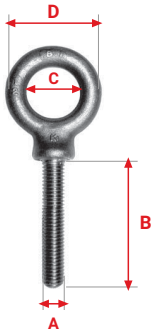


PRODUCT DATA SHEET

Metric Shouldered Lifting Eyes

MADE IN THE U.S.A.

1.0 Dimensions & Rated Capacities – Regular Shank (mm)



- **Shoulder pattern** forged lifting eyes with **metric coarse** threads, M6 through M64.
- **Forged carbon steel,** self-colored (plain). Made in the U.S.A.
- **Shoulder** seats flush against the work – required for any angular lift.

Nutty Stock No.	A Thread Size	B Shank Length (mm)	C Eye I.D. (mm)	D Eye O.D. (mm)	Rated Capacity 0° (lbs.)*
MLES6	M6 x 1.00	25.4	19.0	30.0	462
MLES7	M7 x 1.00	28.5	22.0	36.5	814
MLES8	M8 x 1.25	31.7	25.0	43.0	1,110
MLES10	M10 x 1.50	35.0	27.0	46.0	1,628
MLES12	M12 x 1.75	38.0	30.0	54.0	2,266
MLES14	M14 x 2.00	41.1	33.0	58.0	3,520
MLES16	M16 x 2.00	44.5	35.0	65.0	3,520
MLES18	M18 x 2.50	51.0	38.0	71.5	4,708
MLES20	M20 x 2.50	57.0	41.0	81.0	6,292
MLES22	M22 x 2.50	63.5	46.0	90.4	6,292
MLES24	M24 x 3.00	63.5	46.0	90.4	8,470
MLES27	M27 x 3.00	70.0	51.0	103.0	11,440
MLES30	M30 x 3.50	76.0	55.0	112.7	14,080
MLES36	M36 x 4.00	89.0	63.0	131.8	19,734
MLES42	M42 x 4.50	95.0	73.0	152.4	26,312
MLES45	M45 x 4.50	95.0	73.0	152.4	27,984
MLES48	M48 x 5.00	101.6	82.0	174.6	36,080
MLES52	M52 x 5.00	101.6	82.0	174.6	38,060
MLES64	M64 x 6.00	127.0	102.0	217.5	53,931

*Rated capacity is for 0° vertical (in-line) pulls. Angular lifts reduce capacity – see Rated Capacities.

2.0 Dimensions & Rated Capacities – Short Shank (mm)

Short shank lifting eyes are for shallow tapped holes, where a regular shank eye cannot seat its shoulder against the work. Eye dimensions and rated capacities match the regular shank eye of the same thread.

Nutty Stock No.	A Thread Size	B Shank Length (mm)	C Eye I.D. (mm)	D Eye O.D. (mm)	Rated Capacity 0° (lbs.)*
MLESS6	M6 x 1.00	12.0	19.0	30.0	462
MLESS8	M8 x 1.25	16.0	25.0	43.0	1,110
MLESS10	M10 x 1.50	20.0	27.0	46.0	1,628
MLESS12	M12 x 1.75	25.4	30.0	54.0	2,266

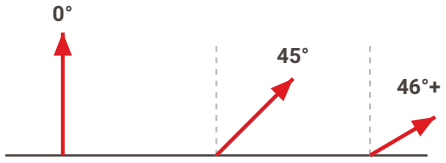
*Rated capacity is for 0° vertical (in-line) pulls. Angular lifts reduce capacity – see Rated Capacities.

3.0 Material Data

Property	Metric Shouldered Lifting Eyes
Material	Forged carbon steel
Style	Shoulder pattern
Thread	Metric coarse (ISO)
Shank lengths	Regular and short shank
Finish	Self-colored (plain)
Origin	Made in the U.S.A.

4.0 Rated Capacities

Angle of pull	Capacity
0° (in-line)	100% of rated capacity
45°	About 25% of rated capacity
46°+	Not rated – use swivel hoist rings



Angle of pull is measured from the axis of the shank. Beyond 45° eyebolts are not rated – use safety swivel hoist rings.

5.0 Application & Installation

- The receiving hole should be counter-sunk and be free and clear of any debris to assure proper seating.
- LOADS SHOULD ALWAYS BE ALIGNED TO THE PLANE OF THE EYE, not at an angle to the plane. A steel washer or spacer may be used in conjunction with Shoulder Eyebolts to attain proper load alignment. The thickness of the steel washer or spacer must not exceed one thread pitch.
- Angular lifting should be avoided. Angular lifts significantly reduce rated capacities (see Rated Capacities table).
- Check seating after applying an angular lift since the initial lift may cause the bolt to back away from the load. If such occurs, the Eyebolt should be unloaded & properly reseated.
- For applications with untapped through-holes, longer length Shoulder Eyebolts are recommended, using a steel washer and nut for the required thread length of engagement.
- Shoulder Eyebolt tapped holes are to have a threaded length which allows for full length of shank engagement and clearance for the unthreaded portion of shank.
- Shoulder Eyebolts must be firmly seated and flush against the mating surface; otherwise, the rated capacity is reduced significantly. The use of a steel washer or spacer is permissible and may be required; however, the thickness must not exceed one thread pitch.

6.0 Inspection & Maintenance

- Eyebolts should be inspected and installed by a competent person who is knowledgeable about the application and installation of Eyebolts.
- Each Eyebolt must be completely inspected BEFORE each use for possible defects such as: distortion, bent shank/threads, or incomplete/incorrectly formed threads. Periodic inspection of Eyebolts is highly recommended.
- Eyebolts should not be painted or otherwise coated when used for lifting; such coatings make it difficult to inspect for defects or wear indicators.
- Eyebolts should not be left where they can incur mechanical damage or corrosion.
- Destroy Eyebolts when signs of bend, elongation, wear or damage are visible. Such signs indicate that the Eyebolt has been stressed (overloaded) beyond rated capacity. Never attempt to repair a stressed Eyebolt.
- Destroy Eyebolts when they show any signs of alteration. Signs include: gouging, undercutting, welding, etc.
- Proper destruction of an Eyebolt: crushing or cutting clear across the eye of the Eyebolt.

7.0 Safety Precautions

- DO NOT work, stand or crawl around the load of the Eyebolt. Ensure a safe distance from the load.
- DO NOT use wrenches, crowbars, etc. to tighten Eyebolts. Hand tightening is recommended.
- DO NOT use a single Eyebolt to lift a load that can rotate. Safety Swivel Hoist Rings are recommended for such loads.
- DO NOT force hooks or any other fittings into the eye; they must fit freely.
- DO NOT exceed the Rated Capacity.
- DO NOT SHOCK LOAD EYEBOLTS. Gradually increase lifting of the load to minimize load-shock.
- DO NOT weld Eyebolts, or perform any weld-repair on Eyebolts.
- DO NOT machine Eyebolts on the shank or shoulder to achieve proper seating.
- DO NOT expose Eyebolts to extreme environmental conditions, as they may adversely affect the Rated Capacity.

Disclaimer: The above is a compilation of data from various industry standards. The Nutty Company, Inc. has made every effort to present the data accurately. However, The Nutty Company, Inc. cannot be held liable for any claim traceable to any errors, typographical or otherwise, contained herein.



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