

EYEBOLT MANUAL

GENERAL

- The eyebolt/eye nut is used for lifting machinery or equipment which cannot be lifted by hand or by forklift.
- Eyebolts are produced according to KS B 1033 and DIN 580 while eye nuts are produced according to KS B 1034 and DIN 582.
- The service load of the eyebolt and eye nut means the maximum allowable load against the linear load. If the load direction is away from the vertical line from the section surface, the service load is also reduced in proportion to the rate.
- Forged steel eyebolt/eyenut is produced by machined after forging.
- Supplying electric plate or self color.
- Stainless steel eyebolt/eyenut produced by machined after forging or casting.
- The eyebolt/eye nut should be inspected for any deformation, wearing or defect within at least 6 months.
- The products which exceed the limit of 5% in deformation or wearing should be relieved of their load and replaced with new ones.

CAUTION

Before Use

- Be sure to use personal protection equipment. (Such as footwear, gloves, crash helmet, etc.)
- The work place must always be well lit.
- Remove dangerous articles from the area before work.
- The specification, use condition and use method of the product should be checked and the products should be used in a proper way.
- Check the products for any defect, wearing or deformation. Use only the product whose safety is assured.
- Damaged or worn eyebolt/eye nut must not be used.
- Threaded part of eyebolt/eye nut should be clean and also the combined objects.

Using

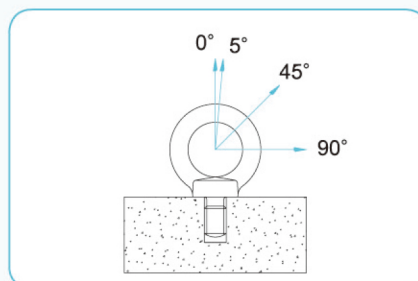
- Always follow the rules carefully. (Overloading & Improper use can result in injury.)
- Products over the 15kg weight must be used with an appliance tool. (Forklift, cranes, hoists, etc.)
- Where applicable, it is important to locate out of the danger zones. (A falling load may cause serious injury or even death.)
- Never repair, alter, rework, or reshape a hook by welding, heating, burning, bending or grinding.
- Side loading or shocking may cause product's deformation or breakage.
- Tighten eye bolt/eye nut securely against load and the pulling should be same as tightening direction.

After Used

- After used products, should be inspected with elongation, wear and defect. If they are founded something wrong, must disucard immediately.
- In case of founding something wrong from products, should be checked of the load, working condition, and over-load.

■ Installation for Angular Loading

From in-line	Adjusted Working Load
~ 5°	100% of SWL
6 ~ 45°	30% of SWL
46 ~ 90°	25% of SWL
91° ~	WRONG

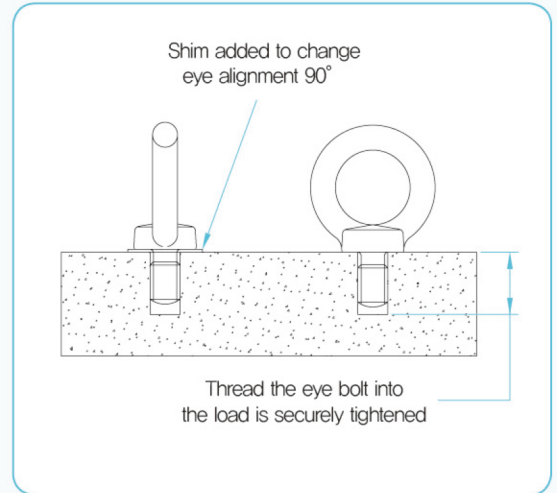


- It is better to use avoiding side loading, it should be followed the above table in case of angular lifts.

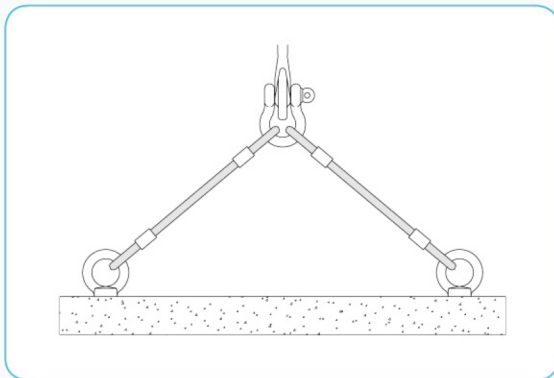
■ Adjustment of change rotation

Add shims(washers) of proper thickness to adjust the angle of the plane of the eye to match the sling line.
Required washer thickness for the amount of unthreading rotation required.

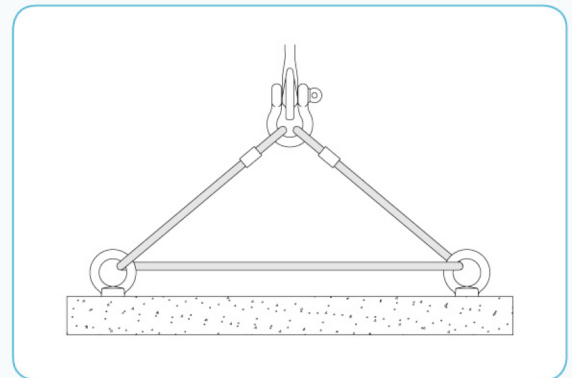
Size(mm)/ Thickness of washer(mm)		Size(inch)/ Thickness of washer(mm)	
M8	0.313	5/16"	0.353
M10	0.375	3/8"	0.397
M12	0.438	1/2"	0.488
M16	0.500	5/8"	0.577
M20	0.625	3/4"	0.635
M24	0.750	1"	0.794
M30	0.875	1-1/4"	0.907
M36	1.000	1-1/2"	1.058
M42	1.125	1-3/4"	1.270
M48	1.250	2"	1.411
M64	1.500	2-1/2"	1.588
M80	1.500	3-1/2"	1.588
M100	1.500	4"	1.588



■ In case of more than two slings



RIGHT

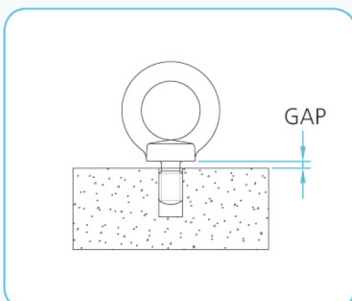


WRONG

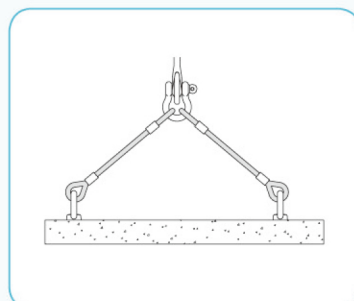
- Attached properly between eye bolts and load, apply force slowly and watch the load carefully and be prepared stop applying force if the load starts bucking.

- Do not reeve slings from one eye bolt to another. It will alter the load angle of loading.

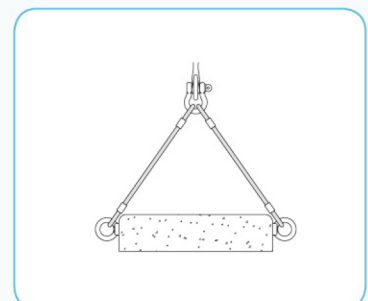
■ Safety Use



WRONG



WRONG(Direction)



WRONG(Angle)