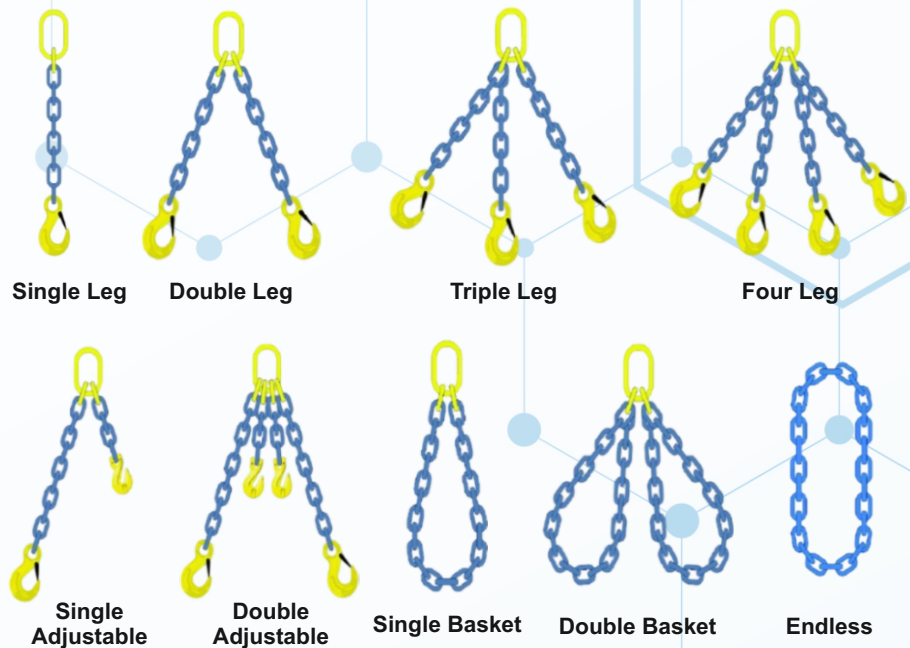


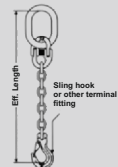
Chain Slings are the most versatile lifting tackle; the versatile nature of chains slings accrues from the ease of attaching a plethora of hardware fittings like hooks, shackles, swivels, plate clamps, etc. for various applications and the flexibility which comes from interlocking links that make up its length. Lifting Slings can be either: Chain Slings, Wire Ropes sling, Polyester slings.

In this section we discuss Chain Slings and specifications regarding the planning of a lifting operation, environmental conditions for storage and use, and of removal from service and replacement. All of these need to be studied and adhered to for the safe and effective use of this hardware.

1. Weight and Strength of the Load
2. Sling Flexibility
3. Temperature Limits - Heat areas/
Exposure to chemically active
environment reduce capacity of sling
4. Sling Ratings
5. Wear and Tear Resistance
6. Lifting Points - Type of Hook



Capacity Types Of Chain Slings:

	Single Leg	Endless	Multi - leg Slings at 90° Angle		
Grade.80			2 Legs 	3 Legs 	4 Legs 
8	2.0	2.0	2.8	4.2	4.2
9	2.5	2.5	3.5	5.2	5.2
10	3.2	3.2	4.5	6.7	6.7
12	5	5	7	10.5	10.5
16	8	8	11.2	16.8	16.8
20	12.5	12.5	17.5	26.2	26.2
22	16				33.6
25	20	20	28	42	42
28	25				52.5
32	32	32	44.8	67.2	67.2

Types of Hooks & Clamps:



Eye Hook



Clevis Hook



Foundry Hook



Swivel Hook



Self Locking Hook



Connecting Link



Chain Shortener
(Reduce Chain Length)



Master Link



Master Link Assembly

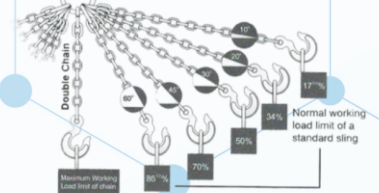


Vertical Plate
Lifting Clamp



Horizontal Plate
Lifting Clamp

How lifting angles reduce Working Load Limits?



Varying lifting angles
Percentages shown are of the maximum
Working Load Limit of chain

The Occupational Safety and Health Administration (OSHA) is a body in the United States that plays a critical role in enhancing workplace safety around the country. If you operate a manufacturing company, you must be OSHA compliant so that you can avoid being on the wrong side of the law and so that your employees will be protected from harm. One of the main safety issues that you need to prevent in your manufacturing entity is injuries associated with falls.

Several fall protection measures, which have been in place since 1971, govern workplace safety practices. To prevent falls and associated injuries, you must use the right types of lifting slings in your lifting operations. Given that there are that several types of lifting slings, some people find it hard to select the best chain sling. This article highlights some of the factors you need to consider when it comes time to buy chain slings for your application.

Effect of Temperature on chain slings Slings used at elevated temperatures Sometimes Grade 80 slings may have to be used in conditions where the chain is subjected to higher temperature. The table below gives a general guideline of reduction in working load limit at elevated temperature. We do not recommend the use of chain slings above 400 C.

Important instructions Do's

- Select correct size of sling for the load, taking into account the included angle & possibility of unequal loading in case of multi- leg slings
- Ensure that chain slings are not twisted
- Ensure the load is fully supported in the bowl of the hook. not on tip
- Avoid snatch or sudden loads
- Get your slings inspected by competent person at regular intervals
- Keep register for all slings in use

Don't's

- Leave slings on the floor when not in use Hang them on hook
- Use sling over sharp corners without protective padding
- Trap the sling under a load
- Use slings which are torn, bent, corroded, locked, stretched or damaged
- Knot a chain
- Heat treat grade 80 slings. This is unnecessary & could be dangerous

