

**UNIFORCE**

**STEEL WIRE ROPE  
SLINGS**



**MADRAS HARDTOOLS PVT LTD**

**WE MAKES THINGS LIGHTER FOR YOU**

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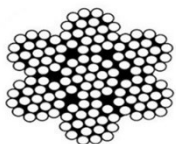
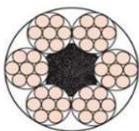


A wire rope sling is only as good as its end termination. To produce a safe and reliable wire rope sling involves more than just 'having a press', a length of wire rope and fittings. Since 1972 'MHT' has manufactured wire rope lifting slings and we are proud to have an impeccable safety record.





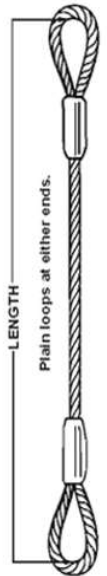
Our testing equipment is approved by the Inspector of Factories, Director General and Chief Inspector Dock Safety for conduction load tests by a certified competent person.

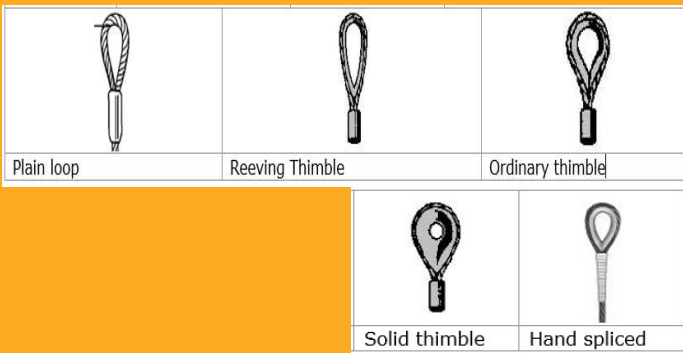
Our slings meet local and international performance standards, and we can custom and design a sling to suite your applications with professionals having a sound technical expertise. Our engineers can visit your locations and suggest the right sling for your applications

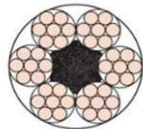


**We Can Design Various Type Of Steel Wire Rope Sling as With Hooks, Single Legged, Two Legged, Four Legged, Endless, Endless Grommet, Cable Laid, Hand Spliced etc as Per Your Safe Working Load Requirement.**

Safe working load of Steel Wire rope sling = Breaking load of rope / Factor of safety.  
Generally, the factor of safety is considered as 6 times. Proof load = Safe working load x 2 times

HARDTOOLS	Dia of the Steel Wire Rope	SWL (FOS 1:6) Tons Using 6x19 Fibre, core / 6x36 Fibre core Straight Pull	Dia of the Steel Wire Rope	SWL (FOS 1:6) Tons Using 6x19 Fibre, core / 6x36 Fibre core Straight Pull	If used as basket hitch multiply by 2.00  If used as Choker hitch multiply by 0.75  If used as <u>two legged</u> sling with angle 30° Multiply by 1.5  Steel Core the safe working load increases by 8 percent
	6MM	0.30	36MM	12.80	
	8MM	0.60	40MM	15.80	
	10MM	0.90	44MM	19.00	
	12MM	1.40	48MM	23.00	
	14MM	1.90	50MM	25.00	
	16MM	2.50	52MM	27.00	
	18MM	3.20	54MM	30.00	
	20MM	4.00	56MM	32.00	
	22MM	4.80	60MM	36.00	
	24MM	5.70	64MM	41.00	
	26MM	6.70	70MM	49.00	
	28MM	7.70	77MM	60.00	
	32MM	10.00	90MM	90.00	

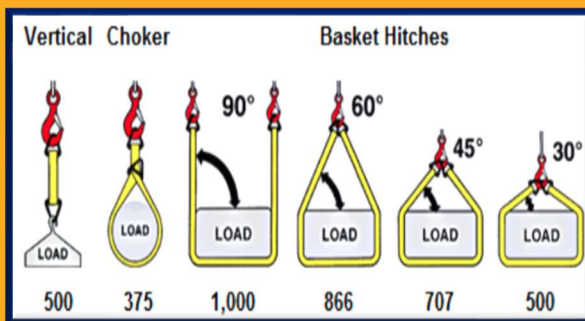




## Basic sling hitches and their effect on working load limits

This illustration shows the basic sling hitches. It also shows capacities for a single sample sling, rigged with each hitch. The sample sling's Working Load Limit in a vertical hitch is 500 kgs.

This sling has a Working Load Limit of 500 kgs in a vertical hitch. Used in a choker hitch, it would have a capacity of 375 kgs. Used in a basket hitch with the legs at a 90° angle to the load, it would have a working load limit of 1,000 kgs. Used in a basket hitch with the legs at a 60° angle to the load, it would have a working load limit of 866 kgs, etc. - Why? The angle at which a sling is used, and the number of legs lifting the load can significantly effect its capacity.



**Vertical** - When a sling is used in a vertical hitch, the full lifting capacity of the sling material can be utilized

**Choker** - Due to the stress created at the choke point, slings rigged with this hitch achieve only about 75% of their potential capacity. Always pull a choker hitch tight before a lift is made - never during the lift

**Basket Hitch (90°)** - The cradle configuration of this hitch allows the two extending ends (legs) of the sling to function as if they were two separate slings. The capacity of the sling in this hitch is twice that of the same sling in a vertical hitch, but only if the sling angle of each leg is 90°. Lifting with both legs at 90° would normally require two lifting devices or a spreader bar

**Basket Hitch (less than 90°)** - When slings or sling legs are used at an angle during a lift, the sling capacity is reduced. How much it is reduced depends on the sling angle. Note that the rated capacity of a 30° Basket is only one half that of a 90° Basket. Sling angles below 30° are strongly discouraged. A sling angle of 60° or more is preferred



Types of Wire Rope Slings



Single Leg



Two legged with shackle



Two legged with Hook



Three Legged With Hook



Four legged With Shackle



Four legged With Hook



Braided Sling



Endless Hand Spliced



Endless Mechanical









Endless Sling Using Rope



Cable laid



### MHT'S WLL chart for Wire rope slings in angles

SWL Wire Rope Slings, Steel Core, 6/19 Const or 6/36 Const., Fibre Core 8% less FOS 5 Times, Approx						
Angle to Vertical	One Leg	Two Leg		Three and Four Leg Sling		Endless Sling
	0°	0° - 45°	>45° - 60°	0° - 45°	>45° - 60°	0°
Factor	1	1.4	1	2.1	1.5	1.6
Rope Dia						
8.00	0.75	1.00	0.75	2.00	1.00	1.00
9.00	0.95	1.00	0.95	2.00	1.00	2.00
10.00	1.15	2.00	1.15	2.00	2.00	2.00
11.00	1.40	2.00	1.40	3.00	2.00	2.00
12.00	1.70	2.00	1.70	4.00	3.00	3.00
13.00	2.00	3.00	2.00	4.00	3.00	3.00
14.00	2.25	3.00	2.25	5.00	3.00	4.00
16.00	3.00	4.00	3.00	6.00	5.00	5.00
18.00	3.70	5.00	3.70	8.00	6.00	6.00
20.00	4.60	6.00	4.60	10.00	7.00	7.00
22.00	5.65	8.00	5.65	12.00	8.00	9.00
24.00	6.70	9.00	6.70	14.00	10.00	11.00
26.00	7.80	11.00	7.80	16.00	12.00	12.00
28.00	9.00	13.00	9.00	19.00	14.00	14.00
32.00	11.80	17.00	11.80	25.00	18.00	19.00
36.00	15.00	21.00	15.00	32.00	23.00	24.00
40.00	18.50	26.00	18.50	39.00	28.00	30.00
44.00	22.50	32.00	22.50	47.00	34.00	36.00
48.00	26.00	36.00	26.00	55.00	39.00	42.00
52.00	31.50	44.00	31.50	66.00	47.00	50.00

