



Manufacturer of

**Lifting Slings and
Cargo Lashing Belts**



Company Profile

Classic Safety Solution is a collective enterprise engaged in the manufacturing & Supply of Polyester Webbing Slings & Cargo Ratchet Lashing in Mumbai, India. With modern fully equipped facilities, we have established ourselves as a well-known Sling-manufacturer which merges production, operation, management and sales into an organic whole. Initially formed to served the requirement for a Specialist Material Lifting Equipment Company, steady expansion resulted in us increasing the products range we offer, in order to meet the demands of an increased customer base across India.

Classic Safety Solution is most distinctive attribute, however, is its approach to the business. It follows a unique homegrown philosophy of providing customers a customized solution to their lifting & lashing constraints.

Our technology expertise brings to customers a range of products that enhance performances and competitiveness.

MISSION



Philosophy Aspires to seize the opportunities of tomorrow and create a future that will make us a market leader, the most admired company in our industry and be competitive through,

Quality Product

Delivery on Commitments

Delighted Customers

Helping them achieve their lifting Solutions.

VISION



Management has given people the authority to set their own targets, and the freedom to achieve their goals. This simple vision has created an environment where there are no limits to excellence, no limits to efficiency and has proved to be a powerful engine of growth for the company.

At the same time, we believe that the best way to assist any of the communities in which we operate is to build a successful business.

VALUES



We adds value to a diverse range of industries and organizations in India. That's why, as we continue to expand and develop, one thing will never change *"We will always remain built around our customers"*.

Hard work, integrity, compliment, attitude and values. It is Marketing through technical know-how in its purest form. Several hardcore professionals perform with the highest level of integrity and ethical behavior in tandem for the firm with its philosophy of *"Customer comes First"*.



100% Polyester Yarn used to manufacture slings with relative density of 1.38 & melting point 260°C. The safe working temperature for these slings are (-)40°C to (+)180°C. Elasticity is 2.5% elongation at SWL rated capacity & recovery is 95% after 24 hours. Its electrical resistance, in dry state, tends to infinity 15-20% extension at break. It does not lose strength as a result of moisture absorption. Used mainly where acid conditions are present or a minimum stretch is desired, polyester is unaffected by common acids and hot bleaching agents, it is not suitable for use with concentrated sulfuric acids. Oxidizing agents and bleaching treatments ordinarily used by the textile industry also do not degrade polyester fiber. It is light weight, non corrosive, good resistance to heat, excellent electrical insulation properties and good chemical resistance as per specified standard. It will not create sparks in explosive or hazardous environments.

Polyester Slings

Polyester Slings are flexible component for connecting the lifting appliance and the load during handling and lifting. It is a woven webbing with specially re-inforced edges manufactured from High Tenacity Polyester Yarns that has a high wet & dry strength and selective resistance to abrasion. Available with Safety factors from 5:1 to 7:1 with a working load limit ranging from 1 M.T. to 250 M.T. " It is also known as a synthetic products for a professional rigger who knows there is no substitute for quality."

ADVANTAGES VIS-A-VIS WIRE ROPE SLINGS

LIFE

Wire rope slings are made from iron due to which it has got the tendency to corrode over a period of time but polyester slings are made of synthetic polyester due to which if properly stored can be used for a much longer time, longer life effects lower replacement costs.

INTERNAL DAMAGES

In case of wire rope slings it is not possible to physically check for any internal damages which can sometimes be very fatal but in case of Polyester Slings, damages if any, can be detected easily, as such, accidents & wastage are avoided.

WEIGHT

Polyester Slings are much lighter in weight than the traditional wire rope slings due to which it is much easier to handle and store, it also increase productivity as the rigging time is less, hence the process of lifting materials becomes very fast.

LOWER MACHINE DOWNTIME

Replacement of dies and other machinery parts become faster, hence less time is consumed in change of sizes, process and maintenance.

DAMAGE OF THE PRODUCT

As wire ropes are very rigid and hard if may sometimes damage the product, i.e. painted materials, machined objects, soft textured materials etc. while lifting the same but in case of polyester slings there is no such problem as the slings are very soft.

SAFETY FACTOR

In case of wire ropes slings usually the safety factor is in the ration of 5:1 but in case of Polyester Slings the available safety factor is in the ration of 6:1 and 7:1. It can therefore absorb shock loads much better than wire ropes.



COLOUR CODING

Polyester Slings are colour coded according to the load lifting capacity (e.g. yellow colour in case of 3 ton load) while in the case of wire ropes there are no such colour codes to distinguish between the different load lifting capacities.

ELIMINATES COST OF CONSUMABLES

Employee does not require gloves for protection and grease for lubrication, while using polyester slings, hence saves the costs of gloves and grease.

SAFETY OF EMPLOYEE

Using wire ropes may cause injuries but as polyester slings are made of soft material, as such, there are no changes of injuries to employees hence increases the efficiency and morale of the employees.

DEPENDABLE

As it has a wider bearing surface on the load, better grip owing to the polyester material used it is more dependable than wire ropes for usage.

OTHER MISCELLANEOUS ADVANTAGES

No corrosion & mild acid resistant

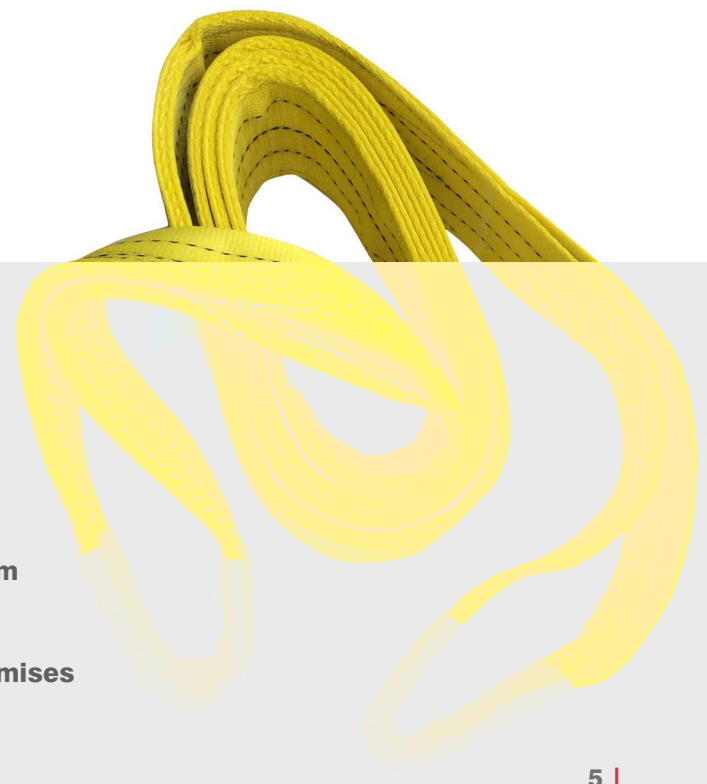
Less pressure at the point of contact on load

Wide choice of lifting modes

Lifts smooth & fragile objects without damaging them

Twist or kink resistant

Low extension, hence can be used at low-height premises



Flat Webbing Sling

The most popular, more versatile Sling, available in different kinds. It is manufactured from polyester webbing in three forms, a strap with and Eye* at each End or an Endless Sling or a Reverse Eye, as per BS3481 (2) and are delivered against a certificate that complies with the specification.

FLAT ENDLESS WEBBING SLINGS



Sling consisting of a webbing either with its end sewn to each other or woven endless without a seam. The most versatile sling as hook and load contact points can be rotated. It is for use in choker, vertical and basket hitches. These are economical & adaptable slings with no fixed wear points. These Slings are available in single and multiply (upto 4 ply) according to requirements in a safety factor from 5:1 to 7:1.

EYE-EYE WEBBING SLINGS













Sling ends are terminated in Re-inforced loops. Eyes are formed as the material is folded back and sewn flat to the sling body. Slings with two eyes are very popular because they are conceptually easier to understand hot to sling. They are also popular because of their flat construction. It is a general purpose sling that can be used in any hitch

*** (An end of a webbing sling in the form of an eye, sewn as to allow reeving or connection to a lifting device)**



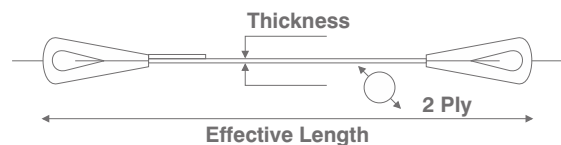
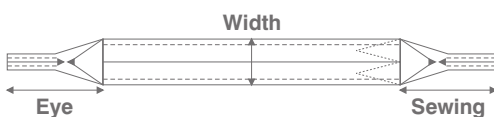
Simplex Eye-Eye Webbing Slings











These slings are stitched with a single layer of webbing throughout of their length and are used where wider bearing surface on the load is required. Simplex Slings are available upto a working load limit of 6 M.T.

COLOUR	WLL (KGS)	WIDTH (MM)	Working Load Limit with 1 Webbing Sling						With 2 Webbing Slings			
			Straight Lift	Choked Lift	β				Straight Lift	Choked Lift	Straight Lift	Choked Lift
					0°-7°	7°-45°	45°-60°	90°				
												
M=1	M=0.8	M=2	M=1.4	M=1	M=1.4	M=1.4	M=1.12	M=1	M=0.8			
VIOLET	500	25	500	400	500	700	500	700	700	560	500	400
GREEN	1000	50	1000	800	2000	1400	1000	1400	1400	1120	1000	800
YELLOW	1500	75	1500	1200	3000	2100	1500	2100	2100	1680	1500	1200
GREY	2000	100	2000	1600	4000	2800	2000	2800	2800	2240	2000	1600
RED	2500	125	2500	2000	5000	3500	2500	3500	3500	2800	2500	2000
BROWN	3000	150	3000	2400	6000	4200	3000	4200	4200	3360	3000	2400
BLUE	4000	200	4000	3200	8000	5600	4000	5600	5600	4480	4000	3200
ORANGE	5000	250	5000	4000	10000	7000	5000	7000	7000	5600	5000	4000
ORANGE	6000	300	6000	4800	12000	8400	6000	8400	8400	6720	6000	4800

Duplex Eye-Eye Webbing Slings

It is the most popular sling stitched with two layers of webbing throughout of their length. Available with a working load limit upto 12 M.T. These two layers of the slings are stitched with the same materials as the webbing.



COLOUR	WLL (KGS)	WIDTH (MM)	Working Load Limit with 1 Webbing Sling						With 2 Webbing Slings			
			Straight Lift	Choked Lift	β				Straight Lift	Choked Lift	Straight Lift	Choked Lift
					0°-7°	7°-45°	45°-60°	90°				
												
M=1	M=0.8	M=2	M=1.4	M=1	M=1.4	M=1.4	M=1.12	M=1	M=0.8			
VIOLET	1000	25	1000	800	2000	1400	1000	1400	1400	1120	1000	800
GREEN	2000	50	2000	1600	4000	2800	2000	2800	2800	2240	2000	1600
YELLOW	3000	75	3000	2400	6000	4200	3000	4200	4200	3360	3000	2400
GREY	4000	100	4000	3200	8000	5600	4000	5600	5600	4480	4000	3200
RED	5000	125	5000	4000	10000	7000	5000	7000	7000	5600	5000	4000
BROWN	6000	150	6000	4800	12000	8400	6000	8400	8400	6720	6000	4800
BLUE	8000	200	8000	6400	16000	11200	8000	11200	11200	8960	8000	6400
ORANGE	10000	250	10000	8000	20000	14000	10000	14000	14000	11200	10000	8000
ORANGE	12000	300	12000	9600	24000	16800	12000	16800	16800	13440	12000	9600

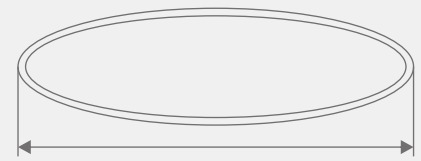
Round Slings

Round Sling is a hank of high denier polyester yarn wound in a continuous endless circle, enclosed in a seamless high abrasion resistant polyester sleeve. The sleeve is so constructed that it protects the internal rows of yarn filament and keeps them in parallel formation at all times. The yarn fibre core is free to spread out into a flat shape where the sling is in contact with its load. This provides a broad support, which cushions the load against damage and reduces slipping. The low stretch characteristics of the polyester yarn prevent 'load bounce' when hoisting very heavy weights. It is manufactured as per BS 6668 (2) and are delivered against a certificate that complies with the specification.

The longitudinal load carrying yarns carry 70% of the load while the remaining strength is derived from the cover (side-to-side) yarns. Due to the tubular design of the protective cover, the sling is made without seams, thus, there is no weakening in the strength of the covering materials and no edges to contend with. The hook and load contact points can continually be rotated further extent, not only the life of the outer cover, but the overall cycle of the sling.

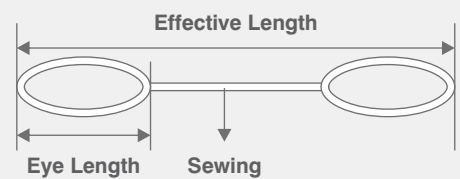


Being endless, wears evenly as there is no single point use.

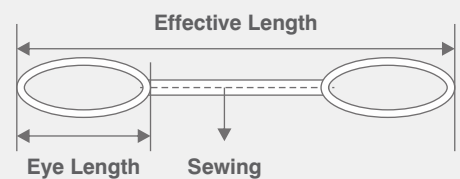


Effective Length (1/2 Circumference length)

(A) ROUND SLING



(B) EYE-EYE ROUND SLING



(C) TWIN ROUND SLING

HOW TO MEASURE

Effective Length



Effective Length = 1/2 Circumference Length



Endless Round Polyester Slings

COLOUR	WLL (KGS)	WIDTH (MM)	Working Load Limit with 1 Webbing Sling								With 2 Webbing Slings					
			Straight Lift	Choked Lift	β								Straight Lift	Choked Lift	Straight Lift	Choked Lift
					7°-45°	45°-60°	45°-60°	90°	0°-45°	0°-45°	45°-60°	45°-60°				
			M=1	M=0.8	M=2	M=1.4	M=1	M=0.5	M=0.7	M=1.4	M=1.4	M=1.12	M=1	M=0.8		
VIOLET	1000	18	1000	800	2000	1400	1000	500	700	1400	1400	1120	1000	800		
GREEN	2000	20	2000	1600	4000	2800	2000	1000	1400	2800	2800	2240	2000	1600		
YELLOW	3000	22	3000	2400	6000	4200	3000	1500	2100	4200	4200	3360	3000	2400		
GREY	4000	25	4000	3200	8000	5600	4000	2000	2800	5600	5600	4480	4000	3200		
RED	5000	27	5000	4000	10000	7000	5000	2500	3500	7000	7000	5600	5000	4000		
BROWN	6000	32	6000	4800	12000	8400	6000	3000	4200	8400	8400	6720	6000	4800		
BLUE	8000	38	8000	6400	16000	11200	8000	4000	5600	11200	11200	8960	8000	6400		
ORANGE	10000	46	10000	8000	20000	14000	10000	5000	7000	14000	14000	11200	10000	8000		
ORANGE	12000	54	12000	9600	24000	16800	12000	6000	8400	16800	16800	13440	12000	9600		
ORANGE	15000	68	15000	12000	30000	21000	15000	7500	10500	21000	21000	16800	15000	12000		
ORANGE	20000	78	20000	16000	40000	28000	20000	10000	14000	28000	28000	22400	20000	16000		
ORANGE	25000	90	25000	20000	50000	35000	25000	12500	17500	35000	35000	28000	25000	20000		
ORANGE	30000	100	30000	24000	60000	42000	30000	15000	21000	42000	42000	33600	30000	24000		

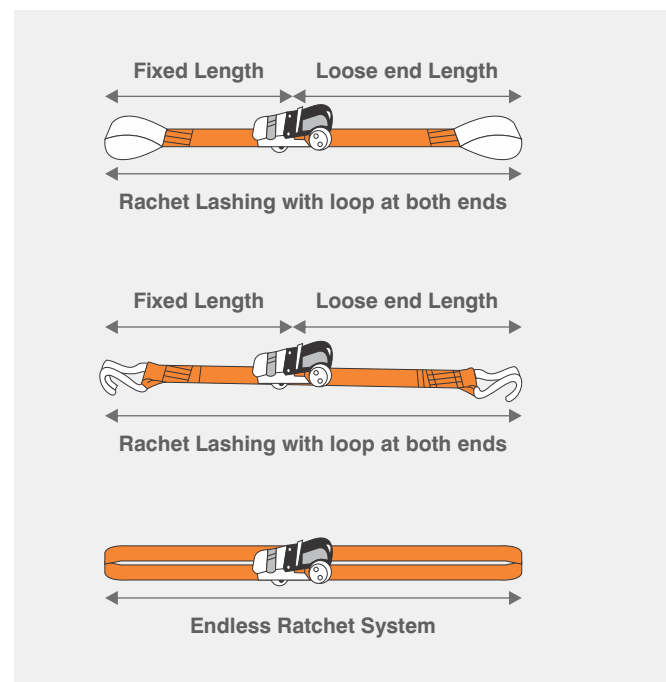
Ratchet Lashing

Ratchet Lashing are used for fixation of cargo while transporting, shifting or moving storage. It is a modern, light weight, and thoroughly reliable method of securing all types of load across an entire spectrum of requirements. It offers significant advantages over steel banding and also provides superior level of cargo control through high pre-tensioning. They have replaced traditional jute ropes, chains and wires used for transportation.

25m.M, 30m.M., 35m.M., 50m.M., & 75m.M. Webbing widths are available depending upon the loading requirements of the selected lashing system. Within the range are many different types of ratchet systems, all carefully designed and engineered to exert the right amount of pre-tensioning of the lashing. These are prepared as per BS 5759 and are delivered against a certificate that complies with the specification.

THE MAIN ADVANTAGE OF RATCHET LASHINGS ARE:

- Load restraint using a tensioning device (ratchet).
- Effective and safe control of loads whilst transportation.
- Extremely quick and efficient tie down and release of load thus saving time.
- No damage to the load being tied down.
- Lower weight also means lower transportation costs.
- Suppleness of polyester accommodates irregularities of the load. Chain may damage the load or grip in the wrong place.
- After locking, no relax during transportation, safety, saving, light, easy to use and no damage for cargo.



SPECIFICATIONS REQ. DURING ENQUIRY

Pipe outer diameter (OD)

Effective length (EL)

Weight of Pipe in tons

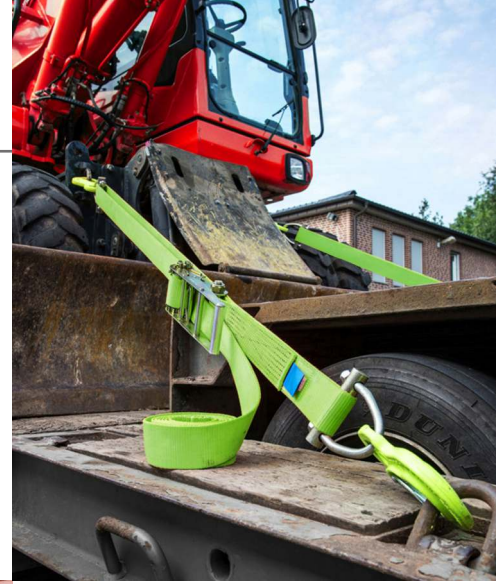
Drawing of End Terminal

No. of End Terminals required to lift the pipe


Technical Information



Short Double J Hook
Hook and Keeper
Triangle hook with Safety Latch
Hook and Keeper
Long Double J Hook



WITH HOOKS OR LOOP

Webbing Width	M.B.S.	Fixed Length (m)	 Lashing Capacity (kg)
25mm	1200	0.5	600
35mm	3000	0.5	1500
50mm	5000	0.5	2500
75mm	8000	0.5	4000

ENDLESS TYPE

Webbing Width	M.B.S.	Fixed Length (m)	 Lashing Capacity (kg)
25mm	2400	0.5	1200
35mm	6000	0.5	3000
50mm	10000	0.5	5000
75mm	16000	0.5	8000

WITH HOOKS OR LOOP

Breaking Load (kg)	Width (mm)	A (mm)	B (mm)	C (mm)	D (mm)	N.W. (kg)
1000	25	27	130	53	58	0.35
5000	50	53	230	90	101	1.10
8000	75	78	300	148	1.54	3.10
8000	75	78	300	148	1.54	3.10

Care & Storage of Slings

When slings are not in use, we recommend that you store them in a proper location.

Make sure that the locations is:

COOL To prevent damage due to exposure to excessive temperature

DRY To prevent the growth of bacteria, which can degrade synthetic fibers.

DARK To prevent the deleterious effects of prolonged exposure to sources of ultraviolet light.

Slings should also be kept clean and free of dirt, grime and foreign material, mild soap and water can be used for this purpose. After cleaning, make sure that the slings are allowed to dry properly before they are put back into storage. A clean sling, free of dirt and grim is much easier to inspect for damage.





Environmental

Temperature: Conventional synthetic products can not be used in application where temperature exceed 180°C (82°C) or go below -40°F (-40°C). Application outside those parameters can be addressed by consulting us for specific recommendations.

Chemical: Chemically active environment can affect the strength of synthetic products in varying degrees from moderate to total degradation. The material used in construction of the sling system must be compatible with the mechanical and environmental requirements-imposed. Fumes, spray, mists, vapours and liquids of acids or alkalies can degrade synthetic products. The chemical agents must be identified.

Mechanical

Slings that are damaged or defective should not be used.

Sling missing tags or with illegible tag information should not be used.

Twisting and kinking the sling legs (Leggedes) should be avoided. Slings should not be tied into knots or joined by knotting.

Sling used in a choker hitch should not be forced to tighten around the load by pounding with hammers or other objects. Choker hitches are the least efficient way to use a sling based on work load limit. Tow slings should be used to balance the load as one sling used in a choker hitch may create an unbalanced situation which could lead to an accident.

Keep the sling tags and labels away from the load, the hook and the choke action of the sling.

Do not place the load carrying splice in a connection point to the load or in the lifting mechanism.

Slings should not be dragged on the floor or over abrasive surfaces.

Slings should not be pulled from under load when the load is resting on the sling. All hooks, shackle and other fittings must be free of sharp edges that could damage the sling.

Slings should be permanently marked with the work load limit for each type of hitch and the material used is the construction of the sling.

Slings should never be used to pull an object in a snagged or constrained condition. Synthetic Slings are designed to stretch; the recoil caused by any sudden release of a lifting constraint could result in a dangerous projection of the load.



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