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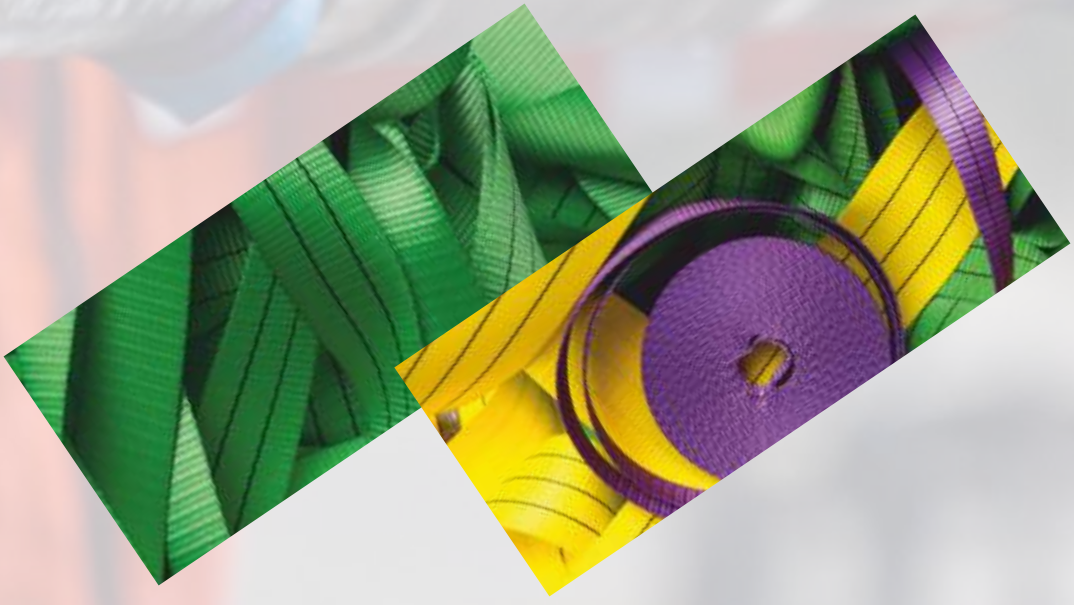
Lifting Slings and Cargo Lashing Belts



COMPANY PROFILE

KVJ Impex LLP is a collaborative venture dedicated to the production and supply of Polyester Webbing Slings and Cargo Ratchet Lashing in Mumbai, India. Operating from modern, fully equipped facilities, we have positioned ourselves as a reputable sling manufacturer that seamlessly integrates production, operations, management, and sales. Originally established to cater to the needs of a specialized material lifting equipment company, our steady growth has led us to expand our product range to meet the increasing demands of a broader customer base across India.

What sets KVJ Impex LLP apart is its distinctive business approach. We adhere to a unique in-house philosophy that focuses on providing customers with tailor-made solutions for their lifting and lashing requirements. Our technological expertise enables us to offer a range of products that not only enhance performance but also contribute to competitiveness in the market.

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MISSION

Our philosophy strives to embrace the possibilities of the future, aiming to forge a path that positions us as a market leader and the most esteemed company in our industry. We aim to maintain competitiveness by delivering:

- Quality Products
- Fulfilling Commitments for Timely Delivery
- Ensuring Customer Satisfaction
- Assisting customers in achieving their lifting solutions.

VISION

Management has empowered individuals with the autonomy to establish their own objectives and the liberty to attain their goals. This straightforward vision has fostered an environment where excellence and efficiency have no bounds, serving as a formidable driver of growth for the company. Simultaneously, we hold the belief that the most effective way to support the communities in which we operate is by establishing a thriving and successful business.

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VALUES

We contribute value to a broad spectrum of industries and organizations in India. As we persist in our expansion and growth, one constant remains unchanged - our foundation will always revolve around our customers. Our ethos encompasses hard work, integrity, collaboration, positive attitude, and steadfast values. It epitomizes marketing through technical expertise in its purest essence. A team of dedicated professionals operates with the utmost integrity and ethical conduct, aligning with the firm's core philosophy of prioritizing the customer above all else.

Slings manufactured using 100% Polyester Yarn exhibit a relative density of 1.38 and a melting point of 260°C. These slings are designed for a safe working temperature ranging from -40°C to +180°C. With an elasticity of 2.5% elongation at the Safe Working Load (SWL) rated capacity and a 95% recovery after 24 hours, these slings demonstrate reliable performance. The electrical resistance, in a dry state, tends towards infinity with a 15-20% extension at the break. Notably, these slings maintain their strength even in the presence of moisture, making them suitable for use in acidic conditions or where minimal stretch is desired. Polyester remains unaffected by common acids and hot bleaching agents, although it is not recommended for use with concentrated sulfuric acids. Additionally, it resists degradation from oxidizing agents and bleaching treatments commonly employed by the textile industry. Polyester slings are characterized by their lightweight nature, non-corrosiveness, good heat resistance, excellent electrical insulation properties, and chemical resistance in accordance with specified standards. Importantly, they do not generate sparks in explosive or hazardous environments.

Polyester Slings

Polyester Slings serve as a flexible component for establishing a connection between the lifting appliance and the load during handling and lifting operations. Constructed from High Tenacity Polyester Yarns, these slings feature specially reinforced edges, offering elevated wet and dry strength along with targeted resistance to abrasion. They are accessible with Safety factors ranging from 5:1 to 7:1, and their working load limits span from 1 M.T. to 250 M.T. Recognized as a synthetic solution, they are favored by professional riggers who understand that there is no substitute for quality.

Advantages Vis-à-vis Wire Rope Slings

1. **Lightweight:**
   - **Polyester Sling:** Polyester slings are significantly lighter than wire rope slings, making them easier to handle and transport. This characteristic is especially beneficial in applications where weight is a critical factor.
   - **Wire Rope Sling:** Wire rope slings are generally heavier, which can be a limitation in situations where minimizing weight is important.
2. **Flexibility:**
   - **Polyester Sling:** Polyester slings are more flexible, allowing them to conform to the shape of the load. This flexibility is advantageous when dealing with irregularly shaped or fragile loads.
   - **Wire Rope Sling:** Wire rope slings have less flexibility compared to polyester slings and may not adapt as well to loads with odd shapes.
3. **Resistance to Corrosion:**
   - **Polyester Sling:** Polyester slings are corrosion-resistant, making them suitable for use in corrosive environments or when exposed to chemicals. They do not rust or corrode.
   - **Wire Rope Sling:** Wire rope slings, especially those made of steel, are susceptible to corrosion, which can impact their longevity and strength over time.

4. **Soft on Loads:**
   - Polyester Sling: Polyester slings are softer on loads, reducing the risk of damage to sensitive materials. This makes them ideal for applications where protecting the load's surface is critical.
   - Wire Rope Sling: Wire rope slings, being less pliable, may pose a higher risk of causing damage to delicate loads due to their harder surface.
5. **Safety:**
   - **Polyester Sling:** Polyester slings are less likely to cause injury during handling due to their lightweight and softer construction.
   - **Wire Rope Sling:** Wire rope slings, being heavier and potentially harder, may pose a higher risk of injury during handling.
6. **Cost-Effectiveness:**
   - Polyester Sling: Polyester slings are often more cost-effective than wire rope slings, making them a preferred choice for budget-conscious applications.
   - Wire Rope Sling: Wire rope slings, especially those with special coatings or materials, can be more expensive.

In summary, polyester slings offer advantages in terms of weight, flexibility, corrosion resistance, load protection, safety, and cost-effectiveness compared to wire rope slings.

Flat Webbing Slings

The widely favored and highly adaptable sling, offered in various variations. Crafted from polyester webbing, it is available in three configurations: a strap with an eye at each end, an endless sling, or a reverse eye, in accordance with BS3481 (2). Each sling is accompanied by a certificate that aligns with the specified standards.

Flat Endless Webbing Slings

A sling comprising webbing, either sewn together at its ends or woven endlessly without a seam. Renowned for its versatility, this sling allows for the rotation of hook and load contact points. Designed for application in choker, vertical, and basket hitches, these slings offer an economical and adaptable solution with no fixed wear points. Available in single and multiply configurations (up to 4 ply), they can be tailored to specific requirements with a safety factor ranging from 5:1 to 7:1.

Eye-Eye Webbing Slings

The terminations of the sling ends consist of reinforced loops, and the eyes are created by folding the material back and sewing it flat onto the sling body. Slings with two eyes are widely favored due to their conceptual simplicity in understanding how to use them for slinging. Additionally, their flat construction contributes to their popularity. These slings, designed with versatility in mind, serve as a general-purpose solution suitable for use in any hitch.

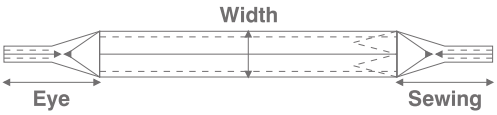
Simplex Eye-Eye Webbing Slings

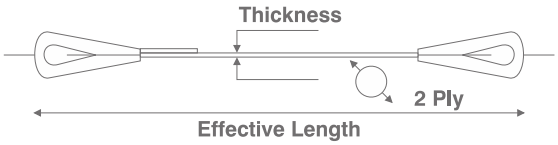
These slings are stitched with a single layer of webbing throughout of their length and are used where wider bearing surface on the load is required. Simplex Slings are available upto a working load limit of 6 M.T

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°	0°-45 °	0°-45 °	45°-60 °	45°-60 °
			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.





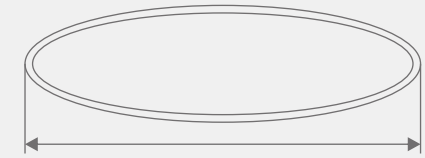
COLOUR	WLL (KGS)	WIDTH (MM)	Working Load Limit with 1 Webbing Sling						With 2 Webbing Slings			
			Straight Lift	Choked Lift	β				Straight Lift	Choked Lift	Straight Lift	Choked Lift
					0°-7°	7°-45°	45°-60°	90°	0°-45°	0°-45°	45°-60°	45°-60°
			M=1	M=0.8	M=2	M=1.4	M=1	M=1.4	M=1.4	M=1.12	M=1	M=0.8
VIOLET	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 continuos 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.

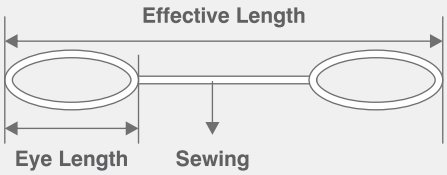
The longitudinal load carrying yarns carry 70% of the load while the remaining strength is derived from the cover (side-to-side) yarns. Due to the tubular design of the protective cover, the sling is made without seams, thus, there is no weakening in the strength of the covering materials and no edges 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 overalls cycle of the sling.

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

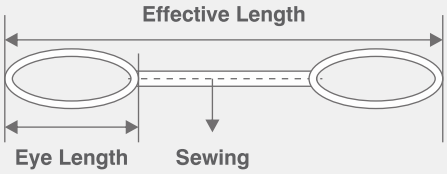


Effective Length (1/2 Circumference length)

(A) ROUND SLING



(B) EYE-EYE ROUND SLING



(C) TWIN ROUND SLING

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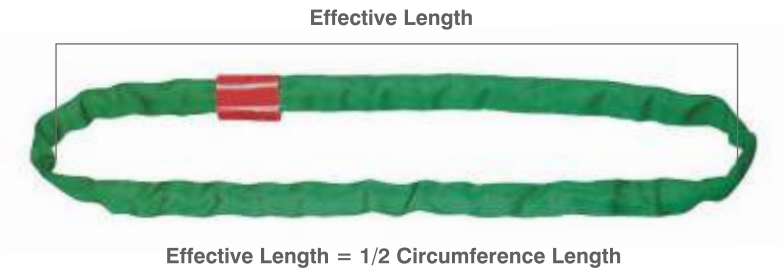
HOW TO MEASURE



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

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.

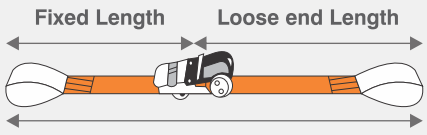
Rachet Lashing

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.

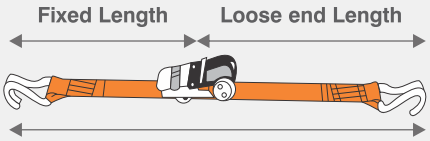
25m.M, 30m.M., 35m.M., 50m.M., & 75m.M. Webbing widths are available depending upon the loading requirements of the selected lashing system. Within the range are many different types of ratchet systems, all carefully designed and engineered to exert the right amount of pre-tensioning of the lashing. 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.



Rachet Lashing with loop at both ends



Rachet Lashing with loop at both ends


Endless Ratchet System

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

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precaution

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 tegs (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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Get in touch

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