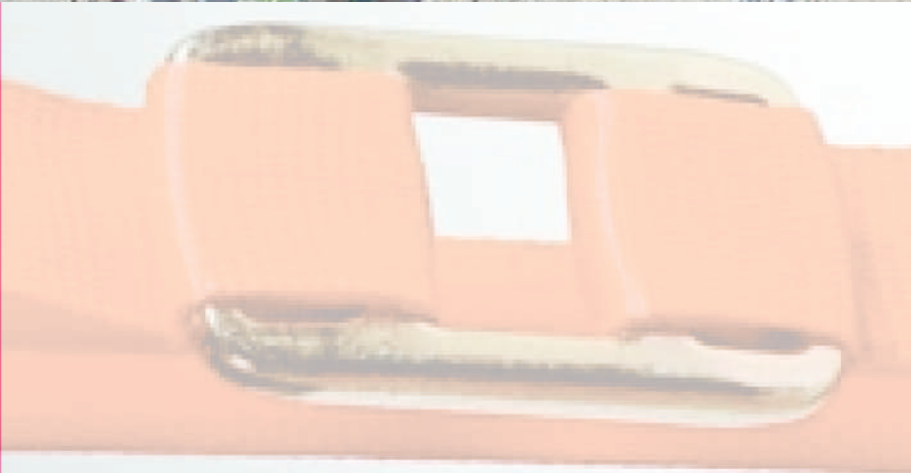




# LIFT AND LASH (P) LTD

Manufacturers of Synthetic Slings, Lashings & Allied Products



An ISO 9001 : 2008 Certified Company



## LIFT AND LASH (P) LTD

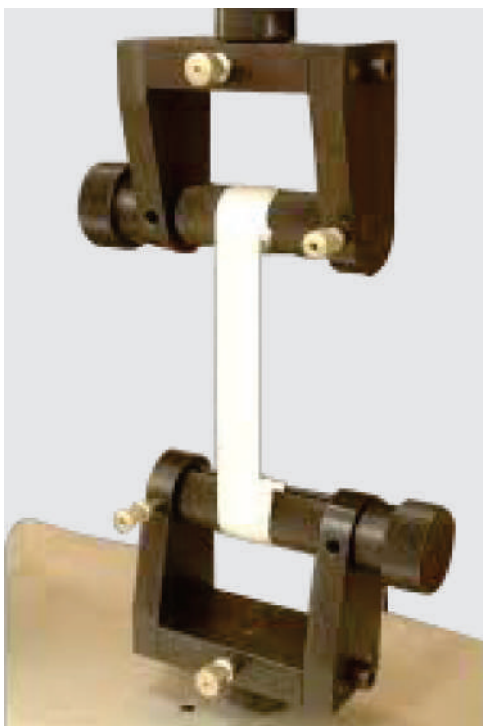
We at **LIFT AND LASH PLTD** are a leading manufacturers for Synthetic lashings and lifting slings in India, Our range encompasses Synthetic Webbing slings , Round Slings, Multileg Slings, ratchets & cargo lashings, one way lashing straps, lashing buckles,Dunnage air bags and customised lifting and lashing products.

We specialize in synthetic lashings and slings namely Polyester woven lashings ranging from 25mm – 100mm in width and of various breaking strengths(from 250kg to 20000 kg),polyester flat webbing slings Ranging from 25mm – 300 mm in width and in capacity upto 84 Tons, Round endless and Round eye and eye slings up to 300 Tons in capacity,multileg slings,bag slings, lowering belts, Ratchets & cargo lashings ,woven lashing etc..

We Normally produce Woven lashings as per EN 12195-2 having width and breaking strength as per requirement of customers(Regular sizes are 25mm/1000 & 1500kgs, 32mm/1500 & 3000kgs, 40mm/2500 & 5000kgs, 50mm/3500 & 5000kgs, 75mm/10000kgs and 100mm/10000kgs). Our Webbing slings are manufactured as per different standards which includes ASME B30.9,IS 15041,EN 1492-1 The width of webbings are in the range of 25 – 300 mm and the Safe working load ranges from 500 kg to 84000 kg.We manufacture Round Slings as per EN 1492-2 and ASME B 30.9,Lashing Buckles manufactured by us are made of quality steel with required heat treatment.

Being a customer centric organization, we lay emphasis on quality of our products. Our entire range is inspected on various parameters to ensure that we are delivering only the best to our clients. Furthermore, we provide customized solutions as per the unique requirements of our esteemed clients.

Under the able guidance of our CEO Mr. Narayan Swain who is having a degree in mechanical engineering & Experience of more than 15 years in the field of Cargo securing, today we have carved a niche for ourselves in the market and flourishing our business in various industries, catering to diverse needs of our numerous clients. We are a trusted name in the industry across India .we promise you to pay proper attention to all your inquiries and request you to send the same to us at [info@liftandlash.com](mailto:info@liftandlash.com) or [sales1@liftandlash.com](mailto:sales1@liftandlash.com)





LIFT AND LASH (P) LTD

## Polyester Eye And Eye Webbing Slings



Our web slings are generally constructed of polyester material and offer several attractive features which promote their popularity among rigging products. They are often selected when expensive, highly polished, fragile or delicate loads must be lifted. The softness of the web will not mar, deface or scratch loads, while its flexibility assures a firm, secure grip around the item being lifted. The light weight of the material, combined with superb flexibility allow the slings to be quickly and safely handled by riggers.

Web slings have the ability to elongate, absorbing and minimizing the effects of heavy shock loads. polyester slings limit stretch to approximately 3% at rated capacity. Long life cycles may be experienced since synthetic web is unaffected by moisture, mildew, rot and certain chemicals. Polyester should be used in the presence of acids and nylon should be used where alkalis exist.

Polyester web slings are manufactured from light or heavy duty material that may be surface "treated" to improve abrasion resistance, seal out moisture, and prevent grit from penetrating the web and causing internal wear. Slings can be fabricated from single or multiple plies, may include accessories such as edgeguard, wear pads or sleeves, and are available in several configurations.

### Type of Polyester webbing slings

**Simplex Eye & Eye webbing slings :** These are made of single layer of webbing with reinforced eye loops at both ends. These are preferred for their wider load bearing surface

**Duplex Eye & Eye Webbing slings :** These are made of two layers of webbing with reinforced eye loops at both ends. These are the widely used slings for normal load lifting applications

**Triplex/Quadraplex Eye & Eye webbing slings :** These are made of Three/Four Layers of webbing with reinforced eye loops at both Ends. These are meant for lifting heavier loads.

**Multi Layer Eye & Eye webbing slings :** These are made of Six/Eight/Ten Layers of webbing with reinforced flat eye loops at both Ends. These are meant for lifting very heavy loads.

A Safety Bulletin is included with every web sling manufactured by us. The bulletin lists inspection information and operating practices applying to synthetic web slings.



Sling can fail or be damaged due to misuse or overload, Inspect the sling before each use. Damaged sling should be taken out of service. Use the sling in presence of trained personnel only. Do not exceed the rated capacity. Protect the sling from being cut by load edges, sharp corners, protrusions,abrasive surfaces and ultraviolet rays. Avoid exposure to acid, alkali & temperature over 180 deg. F. Improper use may lead to severe personal injury or death.



## LIFT AND LASH (P) LTD







Vertical Straight lift	Colour	Width	Choker	Basket	Basket 45	Basket90
1 Ton	violet	25 mm 2 ply	800 kg	2000 kg	1800 kg	1400 kg
2 Ton	Green	50 mm 2 ply	1600 kg	4000 kg	3600 kg	2800 kg
3 Ton	Yellow	75 mm 2 ply	2400 kg	6000 kg	5400 kg	4200 kg
4 Ton	grey	100 mm 2 ply	3200 kg	8000 kg	7200 kg	5600 kg
5 Ton	Red	125 mm 2 ply	4000 kg	10000 kg	9000 kg	7000 kg
6 Ton	Brown	150 mm 2 ply	4800 kg	12000 kg	10800 kg	8400 kg
8 Ton	Blue	200 mm 2 ply	6400 kg	16000 kg	14400 kg	11200 kg
10 Ton	Orange	250 mm 2 ply	8000 kg	20000 kg	18000 kg	14000 kg
12 Ton	Orange	300 mm 2 ply	9600 kg	24000 kg	21600 kg	16800 kg
15 Ton	Orange	250 mm 3 ply	12000 kg	30000 kg	27000 kg	21000 kg
16 Ton	Blue	200 mm 4ply	12800 kg	32000 kg	28800 kg	22400 kg
20 Ton	Orange	250 mm 4ply	16000 kg	40000 kg	36000 kg	28000 kg
24 Ton	Orange	300 mm 4ply	19200 kg	48000 kg	43200 kg	33600 kg

Polyester webbing slings are manufactured as per ASME B30.9 ,IS - 15041 & EN 1492-1 Standards with rated capacity up to 84 Tons

How to order polyester webbing slings : Width X Capacity X Effective length in Mtrs

For example 50 MM X 2 T X 3 Mtr Means 50 MM Width , 2 T Cap , 3 Mtr long.

We Also Provide Various Types Of Anti Abrasive And Cut Resistant Sleeves Which Improves The Life Of Polyester Webbing Slings By Many Times, Please Reffer Our Sleeves/protectors Calalogue For The Same

EYE LOOP TYPE OF WEBBING SLING					
					
FLAT EYE WEBBING WIDTH	TWISTED EYE WEBBING WIDTH	TWISTED EYE 1/2 WEBBING WIDTH	FOLDED EYE 1/2 WEBBING WIDTH	ONE SIDE FOLDED EYE 1/2 WEBBING WIDTH	TWO SIDE FOLDED EYE 1/2 WEBBING WIDTH

## Synthetic Sling Inspection

All of our synthetic slings products are designed for long life under punishing conditions, but they will eventually wear out after extended use. The key is to knowing when to replace them, and that's why it's very important to inspect your slings on a regular basis

### Type of inspection :

**1. Initial Inspection :** Before any new or repaired sling is placed in services, it shall be inspected by a designated person to ensure that the correct sling is being used, as well as to determine that the sling meets applicable specifications and has not been damaged in shipment.

**2. Frequent Inspection :** This inspection shall be made by the user handling the slings each time it is used.

**3. Periodic Inspection :** The frequency of inspection depends on three important factors:

- Sling usage - the more you use a sling, the more you need to inspect it.
- The working environment - the harsher the conditions, the more often you need to inspect.
- Sling service life - based on your experience in using slings.



**L&L**

**Swadeshi**

**LIFT AND LASH (P) LTD**

## Sling Removal Criteria

It is always better to visually inspect all slings before each lift. OSHA specifies, "Each day before being used, the sling and all fastenings and attachments shall be inspected for damage or defects by a competent person designated by the employer. Additional inspections shall be performed during sling use, where service conditions warrant." In other words, you should visually inspect your sling before each lift.

### Removal Criteria For Webbing Slings

- Acid or caustic burns.
- Missing or illegible tag.
- Melting or charring of any part of the sling.
- Holes, tears, cuts or snags.
- Broken or worn stitching in load-bearing splices.
- Excessive abrasive wear.
- Knots in any part of the sling.
- Distortion of the sling.
- Excessive pitting or corrosion, or cracked, distorted or broken fittings.
- Other visible damage that causes doubt as to the strength of the sling.

Damaged or Pitted Fittings



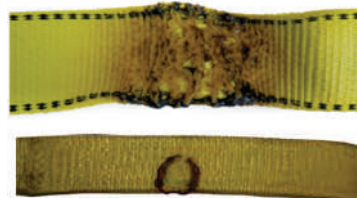
Sling Knot



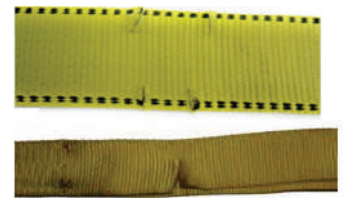
Sling Weld Splatters and Charring/Melting



Sling Acid Burns



Sling Cuts



Sling Abrasion



Sling Frays & Pulls



Discoloration and brittle or Stiff area due to Chemical or Ultraviolet sunlight damage



Missing Tag



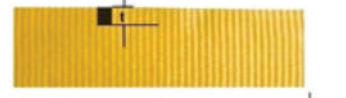
Broken or Worn Stitches in Load Bearing Spliced Area



**A synthetic fibre web sling must be removed from service when any of the following circumstances occurs:**

- The length of an edge cut exceeds the web thickness;
- The penetration of abrasion exceeds 15% of the webbing thickness taken as a proportion of all plies;
- Abrasion occurs on both sides of the webbing and the sum of the abrasion on both sides exceeds 15% of the webbing thickness taken as a proportion of all plies;
- Warp thread damage up to 50% of the sling thickness extends to within 1/4 of the sling width of the edge or exceeds 1/4 the width of the sling;
- Warp thread damage to the full depth of the sling thickness extends to within 1/4 of the sling width of the edge or the width of damage exceeds 1/8 the width of the sling;
- Weft thread damage allows warp thread separation exceeding 1/4 the width of the sling and extends in length more than twice the sling width;
- A combination of the above types of damage or approximately equal total effects are present.

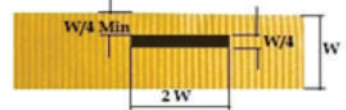
Edge Damage



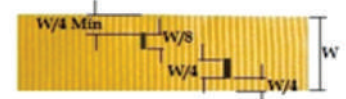
Abrasion



Weft Damage



Wrap Damage



W = WIDTH  
t = THICKNESS



**LIFT AND LASH (P) LTD**

## Polyester Roundendless Slings



The polyester round endless slings are manufactured by using finest quality high tenacity polyester yarn that is hank wound continuously in the form of endless & is enclosed in a protective cover. These are manufactured as per EN 1492-2 and ASME standards and are available in the lifting capacity up to 300 tons. These round endless slings are available in color coded form for easy identification.

- Features:**
- 1. Adaptable slings with no fixed wear points
  - 2. Higher safety factor
  - 3. Light in weight
  - 4. Non corrosive
  - 5. Economical
  - 6. Better balance of load

### Working Load Table

Colour	W.L.L Straight Lift M=1	S.W.L Choked Lift M=0.8	S.W.L 45 lift M=1.8	S.W.L 90 Lift M=1.4
Violet	1000 kg	800 kg	1800 kg	1400 kg
Green	2000 kg	1600 kg	3600 kg	2800 kg
Yellow	3000 kg	2400 kg	5400 kg	4200 kg
Red	5000 kg	4000 kg	9000 kg	7000 kg
Blue	8000 kg	6400 kg	14400 kg	11200 kg
Orange	12000 kg	9600 kg	21600 kg	16800 kg
Orange	20000 kg	16000 kg	36000 kg	28000 kg
Orange	30000 kg	24000 kg	54000 kg	42000 kg

**We manufacture Round slings As per EN and ASME standards up to rated capacity of 300 Tons**

### Environmental Considerations

Polyester roundslings should be stored in a cool, dry, and dark place to prevent loss of strength when not in use through exposure to ultraviolet rays. Polyester roundslings shall not be stored in chemically active areas. Chemically active environments can affect the strength of polyester roundslings in varying degrees ranging from little to total degradation. The polyester roundsling manufacturer, or qualified person, should be consulted before roundslings are used in a chemically active environment.

**Acids :** Polyester is resistant to many acids, but is subject to degradation, ranging from little to moderate in some acids.

Each application shall be evaluated, taking into consideration the following :

- a. Type of acid
- b. Exposure conditions
- c. Concentration
- d. Temperature

**Alkalis :** Polyester is subject to degradation in alkalis, ranging from little to total degradation. Each application shall be evaluated, taking into consideration the following:

- a. Type of alkali
- b. Exposure conditions
- c. Concentration
- d. Temperature

Polyester roundslings shall not be used at temperatures in excess of 194° F (90° C), or at temperatures below minus 40° F (-40° C).

Polyester roundslings incorporating aluminum fittings shall not be used where fumes, vapors, sprays, mists or liquids of alkalis and/or acids are present, unless the compatibility of these materials is verified.



## **Inspection of Polyester Round Slings**

Polyester roundslings shall be visually inspected by a designated person handling the polyester roundsling before each use. These visual observations shall be concerned with the identification tag and discovering damage.

Polyester roundslings shall be removed from service if there is any doubt as to the condition of the roundsling.

### **Type of Inspection**

- a. Initial Inspection — Before any polyester roundsling is placed into service it shall be inspected by a designated person to ensure that the correct roundsling is being used as well as to determine that the roundsling meets the requirements of this specification.
- b. Frequent Inspection — This inspection shall be made by the user or other designated personnel each time the roundsling is used. (Records not required).
- c. Periodic Inspection — This inspection shall be conducted by a designated person. Frequency of inspection should be based on: 1. Frequency of use 2. Severity of service conditions 3. Experience gained on service life of polyester round slings used in similar applications. 4. Periodic inspections should be conducted at least Monthly

## **Recommended Operating Practices for Polyester Roundslings**

- Determine weight of the load. The weight of the load shall be within the rated capacity of the polyester roundsling(s).
- Select a polyester roundsling having suitable characteristics for the type of load, hitch and environment.
- Polyester roundslings shall not be loaded in excess of the rated capacity. Consideration shall be given to the roundsling to load angle which affects rated capacities.
- Polyester roundslings with fittings, which are used in a choke hitch, shall be of sufficient length to assure that the choking action is on the roundsling and never on the fitting.
- Polyester roundslings used in a basket hitch shall have the load balanced to prevent slippage.
- The openings in fittings shall be the proper shape and size to ensure that the fittings will seat properly on the polyester roundsling, crane hook, or other attachments.
- Polyester roundslings shall always be protected from being cut by sharp corners, sharp edges, protrusions, or abrasive surfaces.
- Polyester roundslings shall not be dragged on the floor or over an abrasive surface.
- Polyester roundslings shall not be twisted, shortened, lengthened, tied into knots, or joined by knotting.
- Polyester roundslings shall not be pulled from under loads when the load is resting on the polyester roundsling.
- Do not drop polyester roundslings equipped with metal fittings.
- Polyester roundslings that appear to be damaged shall not be used unless inspected and accepted as usable.
- The polyester roundsling shall be hitched in a manner providing control of the load.
- Personnel, including all portions of the human body, shall be kept away from between the polyester roundsling and the load, and from between the polyester roundsling and the crane hook or hoist hook.
- Personnel shall stand clear of the suspended load.
- Personnel shall not ride the polyester roundsling. Shock loading shall be avoided.
- Twisting the legs (branches) shall be avoided. Load applied to a hook shall be centered in the bowl of the hook to prevent point loading.
- During lifting, personnel shall be alert for possible snagging of the polyester roundsling.
- The polyester roundslings legs (branches) shall contain or support the load from the sides above the center of gravity when using a basket hitch.
- Polyester roundslings shall be long enough so the rated capacity is adequate when the sling to load angle is taken into consideration.
- Only polyester roundslings with legible identification tags shall be used.
- Tags and labels should be kept away from the load, hook and point of choke.
- Polyester roundslings should not be constricted or bunched between the ears of a clevis or shackle, or in a hook. When a polyester roundsling is used with a shackle, it is recommended that it be used (rigged) in the bow of the shackle.
- Place blocks under load prior to setting down the load, to allow removal of the polyester roundsling, if applicable.



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## Inspection Records

Written inspection records, utilizing the identification for each polyester roundsling as established by the user, should be kept on file. These records should show a description of the new polyester roundsling and its condition on each periodic inspection.

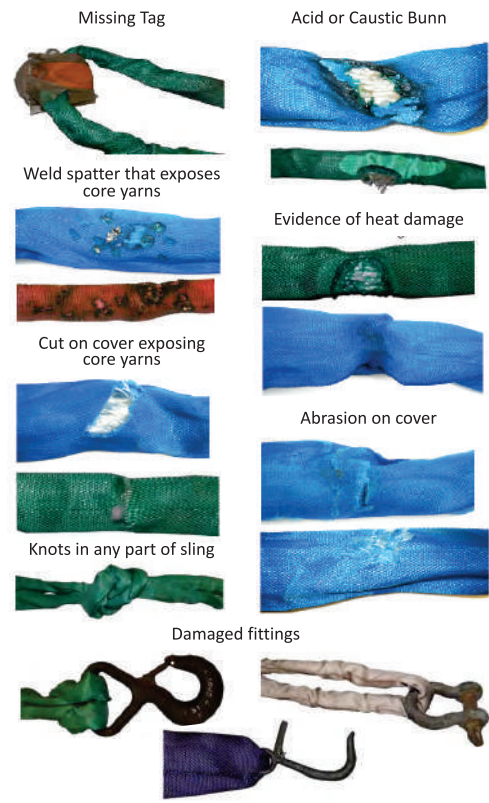
## Repair of Round Slings

There shall be no repairs of load bearing fibers. Repairs to the protective covers shall be done only by the original manufacturer or their appointed agent. Only polyester roundslings, which can be identified from the information on the identification tag, shall be repaired.

All repaired polyester roundslings shall be proof tested to a minimum of two (2) times the rated capacity before being put back into service. Certification of proof test should be provided.

## Removal Criteria For Round Slings

- Acid or caustic burns.
- Missing or illegible tag
- Evidence of heat damage, Melting or charring of any part of the sling.
- Holes, tears, cuts, snag or embedded articles.
- Broken or worn stitching in cover exposing core yarn
- Excessive abrasive wear, broken or damaged core yarns.
- Knots in any part of the sling.
- Distortion, brittle or stiff area on any part of the sling which may indicate chemical, heat or ultraviolet/sunlight damages.
- Excessive pitting or corrosion, or cracked, distorted or broken fittings.
- Other visible damage that causes doubt as to the strength of the sling.



A Safety Bulletin is included with every round sling manufactured by us. The bulletin lists inspection information and operating practices applying to synthetic round slings.

**WARNING**  
Sling can fail or be damaged due to misuse or overload, Inspect the sling before each use. Damaged sling should be taken out of service. Use the sling in presence of trained personnel only. Do not exceed the rated capacity. Protect the sling from being cut by load edges, sharp corners, protrusions, abrasive surfaces and ultraviolet rays. Avoid exposure to acid, alkali & temperature over 180 deg. F. Improper use may lead to severe personal injury or death.



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## Polyester Flat Endless Slings:

Endless slings are the most versatile of all the web sling configurations. They can be used in all three types of hitches and the wear points can be adjusted around the circumference of the sling to increase sling life. When used in a choker or basket hitch the legs can be spread for improved load control and balance. These slings are especially used in lifting pipe bundles and used in exports. These slings can be put in the product, machines, bundles etc and go along with the product till destination, giving the most economical, safe and efficient lifting to the products



These slings can be made of any capacity , multiple ply and with fittings if required.

	Factor	Width (mm)	WLL in Kg with one webbing sling					WLL in Kg with two webbing sling			
			Straight Lift	Choker Hitch	Basket	Basket Inclination Angle		Straight Inclination Angle		Choke Inclination Angle	
			1.0	0.8	Upto 7	7-45	45-60	7-45	45-60	7-45	45-60
Violet	1000	25.50	1000	800	2000	1400	1000	1400	1000	1120	800
Green	2000	50	2000	1600	4000	2800	2000	2800	2000	2240	1600
Yellow	3000	75	3000	2400	6000	4200	3000	4200	3000	3360	2400
Grey	4000	100	4000	3200	8000	5600	4000	5600	4000	4480	3200
Red	5000	125	5000	4000	10000	7000	5000	7000	5000	5600	4000
Brown	6000	150	6000	4800	12000	8400	6000	8400	6000	6720	4800
Blue	8000	200	8000	6400	16000	11200	8000	11200	8000	8960	6400
Orange	10000	250	10000	8000	20000	14000	10000	14000	10000	11200	8000
Orange	12000	300	12000	9600	24000	16800	12000	16800	12000	13440	9600

**Inspection criteria, Environmental considerations and removal criteria for flat endless slings is similar to webbing slings**

A Safety Bulletin is included with every flat endless sling manufactured by us. The bulletin lists inspection information and operating practices applying to synthetic round slings.





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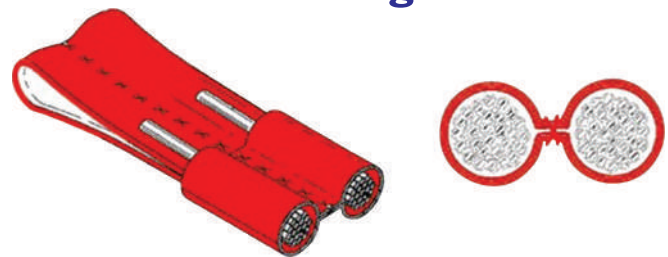
## Polyester Eye And Eye Round Slings



- Easy to use • Works well for confined space • Extra sleeves can be added to body easily
- All advantages of Flat web sling and round sling • Eye length can be made as per order

Factor	Width (mm)	WLL in Kg with one webbing sling				WLL in Kg with two webbing sling				
		Straight Lift	Choker Hitch	Basket	Basket Inclination Angle		Straight Inclination Angle		Choke Inclination Angle	
		1.0	0.8	Upto 7	7-45	45-60	7-45	45-60	7-45	45-60
1000	Violet	1000	800	2000	1400	1000	1400	1000	1120	800
2000	Green	2000	1600	4000	2800	2000	2800	2000	2240	1600
3000	Yellow	3000	2400	6000	4200	3000	4200	3000	3360	2400
4000	Grey	4000	3200	8000	5600	4000	5600	4000	4480	3200
5000	Red	5000	4000	10000	7000	5000	7000	5000	5600	4000
6000	Brown	6000	4800	12000	8400	6000	8400	6000	6720	4800
8000	Blue	8000	6400	16000	11200	8000	11200	8000	8960	6400
10000	Orange	10000	8000	20000	14000	10000	14000	10000	11200	8000
12000	Orange	12000	9600	24000	16800	12000	16800	12000	13440	9600
15000	Orange	15000	12000	30000	21000	15000	21000	15000	16800	12000
20000	Orange	20000	16000	40000	28000	20000	28000	20000	22400	16000
25000	Orange	25000	20000	50000	35000	25000	35000	25000	28000	20000
30000	Orange	30000	24000	60000	42000	30000	42000	30000	33600	24000
36000	Orange	36000	28800	72000	50400	36000	50400	36000	40320	28800
50000	Orange	50000	40000	100000	70000	50000	70000	50000	56000	40000

## Two Path Round Slings:



### Features:

- Sling with polyester core yarn or other high performance yarn as required
- Two path outer cover with superior abrasion resistance
- Repairable
- Proof tested to 2 X Safe working load
- Design factor of 5:1 AND 7:1 As per requirement
- Over load indicator and optical fibre can be added.



## LIFT AND LASH (P) LTD

### Ratchet Lashing:

Our Ratchet Lashing system is the most effective way of securing cargo while transporting, shifting or storage. It is a easy, light weight and thoroughly reliable method of securing all types of cargo. It has many advantages over any other traditional cargo securing system.

Ratchet Lashing is a Reusable, Cost effective tie-down system using polyester webbing & Ratchet Buckle and has replaced ropes, chains and wires used for transportation.. The Ratchet Buckle provides the tensioning force. The tension is uniform and locking mechanism ensures that the tension is retained till it is unlocked.

This Ensures complete locking of strap in position and also provides unlocking mechanism which is safe and fast. Polyester Webbing has the least of elongation (less than 7%) and is soft and safe to use.

#### Advantages of Our Ratchet Lashing Systems

- Meets the performance requirements of EN 12195 Part 2.
- Produced from 100% polyester materials in 25mm width up to 75mm width.
- Available in rated assemblies of 800kgs MBL to 10,000 kgs MBL.
- Complete lashing assembly lengths from 2 metres up to 100 metres.
- Can be supplied with J Hooks, double J Hooks, Triangular Links, Claw Hooks, D Links and Flat Hooks.
- Custom made lashing systems can be produced.
- Attractive prices over all sizes.
- Ratchets can be supplied as separate items.
- Each part of the lashing assembly marked with manufacturers mark, size, length and ID mark.
- Individual certification can be supplied.

#### Safe Precautions for use with Truck Transportation

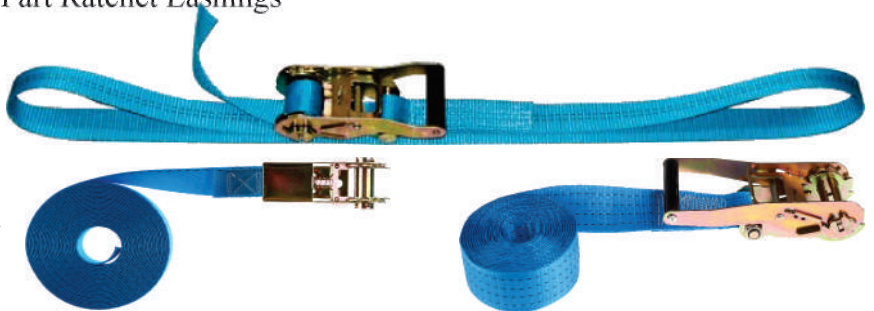
- Tighten enough within belt strength to fix freight to truck.
- Tighten belt according to manufacturer's instruction if any material is used to prevent freight moving.
- Attach protective cloth when use for corner of freight to prevent wear or cut.
- At any instance, do not tie knot in lashing belt.
- Do not try to attempt increasing tensile strength with any tools such as lever, etc
- Do not try to repair and use without advise from manufacturer.
- Use only for tie purpose, not for lifting purpose.
- Lubricant at gear at proper intervals for smooth use of buckle.
- Do not use old part for repair, it is against safety measure.
- Do not throw or drag buckle on the ground. This may cause buckle not operative.
- Refrain from direct sunlight, hot weather, heavy rain during storage.
- Do not use belt at higher than 100° C

### Ratchet Lashing Is Broadly Classified Into Two Groups

1. Endless Type Ratchet Lashings
2. Two Part Ratchet Lashings

#### 1. Endless Ratchet Lashings:

Endless type Ratchet lashing (Single part system) comprises of a tensioning device which is attached to the webbing. It is used for bundling purpose. This system can be provided in widths of 25mm,35mm,50mm and 75mm



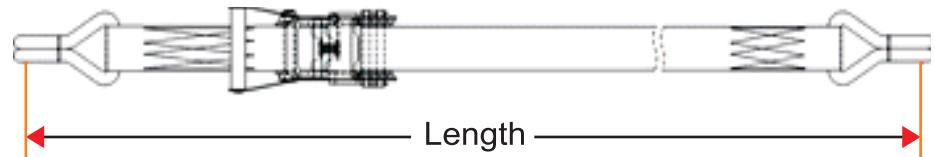
#### 2. Two Part Ratchet Lashing (Assembly Type)

The assembly type ratchet lashing system is used for securing cargo while transporting, shifting or 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 any other securing system.





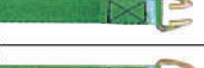


**LIFT AND LASH (P) LTD**





**25MM/800KG RATCHET TIE DOWN**



	Length	End Fittings	LC	M.B.S.
	Any Length	S Hook	267KG	800KG
	Any Length	Double J Hook	267KG	800KG
	Any Length	Claw Hook	267KG	800KG
	Any Length	Triangle	267KG	800KG




**28MM/1.5T RATCHET TIE DOWN**



	Length	End Fittings	LC	M.B.S.
	Any Length	Double J Hook	500KG	1,500KG
	Any Length	Claw Hook	500KG	1,500KG
	Any Length	Triangle	500KG	1,500KG


**35MM/2T RATCHET TIE DOWN**



	Length	End Fittings	LC	M.B.S.
	Any Length	Double J Hook	667KG	2,000KG
	Any Length	Single J Hook	667KG	2,000KG
	Any Length	Claw Hook	667KG	2,000KG
	Any Length	Triangle	667KG	2,000KG

**35MM/2.5T RATCHET TIE DOWN**



	Length	End Fittings	LC	M.B.S.
			833KG	2,500KG
Any Length	Double J Hook	1,000KG	3,000KG	
		833KG	2,500KG	
Any Length	Single J Hook	1,000KG	3,000KG	
		833KG	2,500KG	
Any Length	Claw Hook	1,000KG	3,000KG	
		833KG	2,500KG	
Any Length	Triangle	1,000KG	3,000KG	
		833KG	2,500KG	



**LIFT AND LASH (P) LTD**

**50MM/4T/5T RATCHET TIE DOWN**

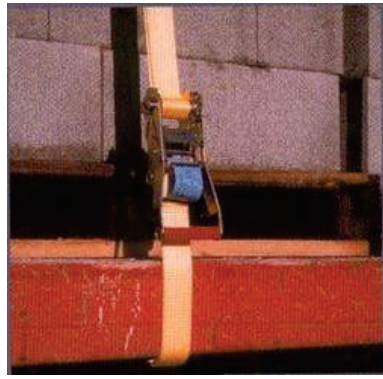


	Length	End Fittings	LC	M.B.S.
	Any Length	Double J Hook	1,333KG	4,000KG
			1,667KG	5,000KG
	Any Length	Claw Hook	1,333KG	4,000KG
			1,667KG	5,000KG
	Any Length	Triangle Snap Hook	1,333KG	4,000KG
			1,667KG	5,000KG
	Any Length	Flat Snap Hook	1,333KG	4,000KG
			1,667KG	5,000KG
	Any Length	Double J Hook With Keeper	1,333KG	4,000KG
			1,667KG	5,000KG
	Any Length	Single J Hook	1,333KG	4,000KG
			1,667KG	5,000KG
	Any Length	Forged Hook With Triangle	1,333KG	4,000KG
			1,667KG	5,000KG
	Any Length	Triangle	1,333KG	4,000KG
			1,667KG	5,000KG

**75MM/10T RATCHET TIE DOWN**



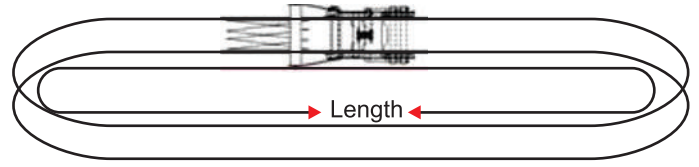
	Length	End Fittings	LC	M.B.S.
	Any Length	Double J Hook	3,333KG	10,000KG
			3,333KG	10,000KG
	Any Length	Claw Hook	3,333KG	10,000KG
			3,333KG	10,000KG



Customized ratchet lashings can be manufactured as per costumers requirement and also we can provide Customized end fittings as per requirement



**LIFT AND LASH (P) LTD**



**● ENDLESS TYPE RATCHET ASSEMBLY**

	Length	End Fittings	LC	M.B.S.
	Any Length	Ratchet	533	1600
	Any Length	Ratchet	1000	3000
	Any Length	Ratchet	1,333	4000
			2,000	6000
	Any Length	Ratchet	2,667	8000
			3,333	10000
	Any Length	Ratchet	6,667	20000

**Ratchet Buckles :**



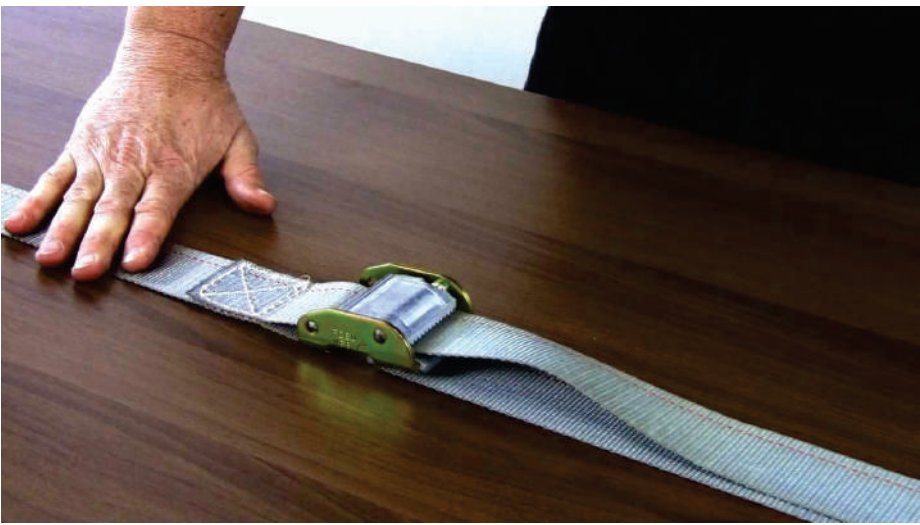
**End Fittings :**





LIFT AND LASH (P) LTD

**Cam Buckle Assembly :**



- We manufacture cam buckle assemblies in 25mm and 50mm varieties.
- These are used for quick and light duty operations
- Available in various end fittings



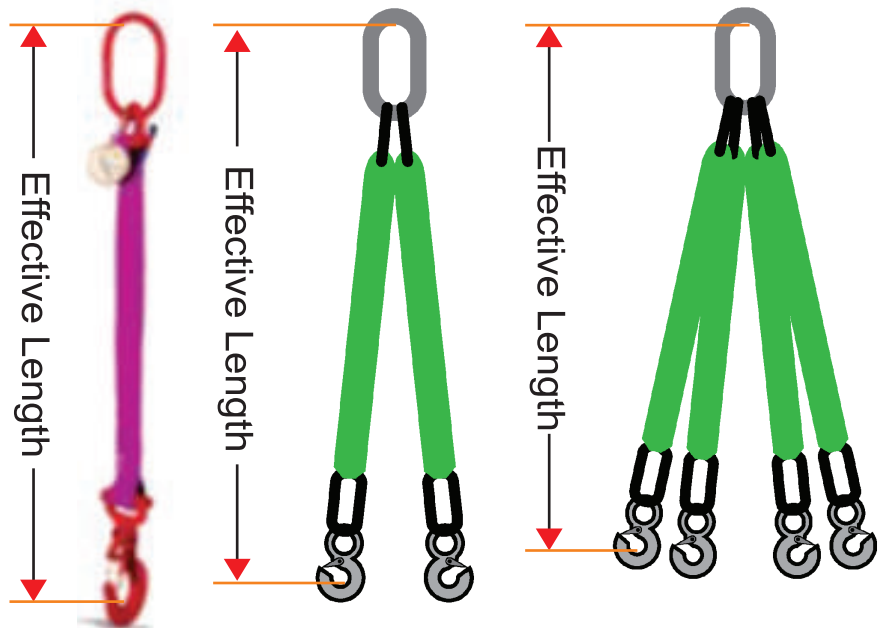
## POLYESTER MULTILEG SLINGS

Our multi-leg slings are manufactured with either flat webbing slings or with round slings in combination with high quality steel components like master link assemblies, bow shackles and different variety of eye hooks. They are manufactured according to EN1492-1 OR ASME B30.9 if the textile part is a webbing sling or according to EN1492-2 if the textile part is a round sling. The textile part of the multi-leg sling has a safety factor of 7:1 OR 5:1 and the metal part has a safety factor of 4:1.

Multi-leg slings can be manufactured in different assemblies having two legged, three legged or four legged slings. They can have different combination of hooks like, eye hook, self locking hook, hook with latches, etc. at the lower end of the sling to suit different lifting applications. Textile Multi-leg slings are easy to use and provide many advantages over other multi-leg slings:

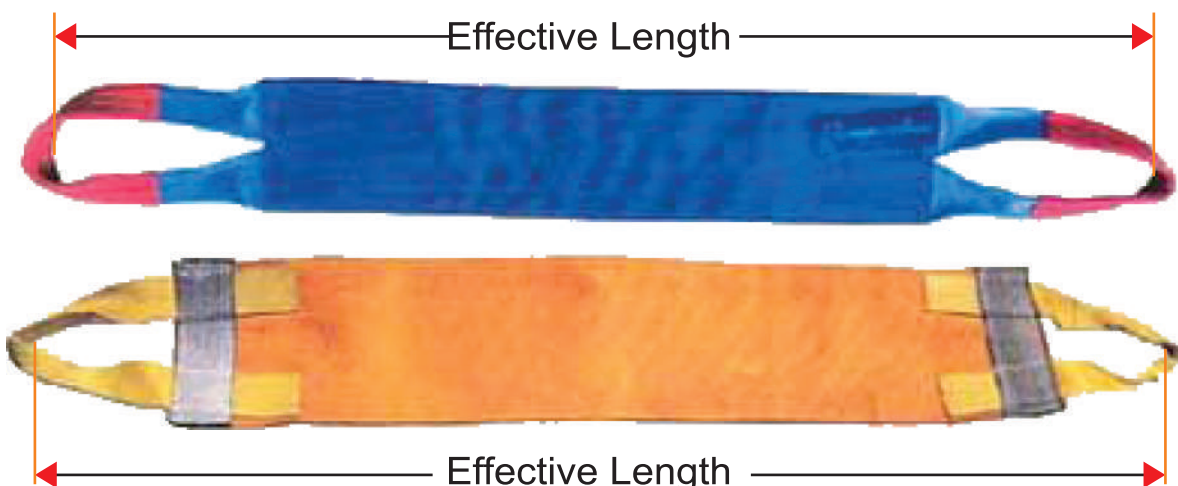
- Easier to handle as compared to wire rope or chain
- The total weight of the assembly is less
- Master link creates sufficient space on the crane hook
- Round slings can be rotated to have different bearing points thus resulting in uniform wear
- Proper and even distribution of load

**Customised multileg slings can also be manufactured upon request.**



## BAG/ZOLA TYPE SLINGS:

We manufacture Bag Slings in any length as per customers requirement. These are special type of slings used for lifting products requiring wider support / holding while lifting. These slings provide wide contact to surface area of the product for minimum slippage and even distribution of load on to sling while lifting.



**Customised bag slings can also be manufactured upon request.**



LIFT AND LASH (P) LTD

## Drum Lifting Belts



Vertical Drum Lifting Belt



Horizontal Drum Lifting Belt



## Tow Straps:

- Very small in size. Can be kept easily anywhere.
- Does not damage vehicle like chain or wire ropes.
- Helps removing vehicle immediately.
- Very low in prices as compared to tow charges.
- Peace of mind as backup is always there.
- Anyone stuck is always ready to pull vehicle to side off road.
- Manufactured as per strict EN standards.
- Good solution for vehicles stuck in Traffic jams.
- No need to wait for crane or recovery vehicle.
- Easy to carry in glove box.
- Can be used to tow any vehicle like Cars, Autos, Buses, Trucks, Tempos, Motor cycle, Even heavy trailers.
- Special size and length for Rally vehicles and Earthmovers also made on special request.

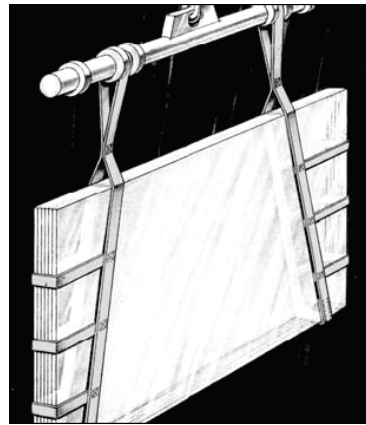
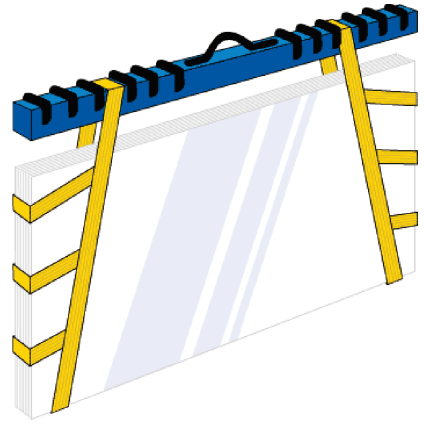




**LIFT AND LASH (P) LTD**

**Glass Lifting Slings :**

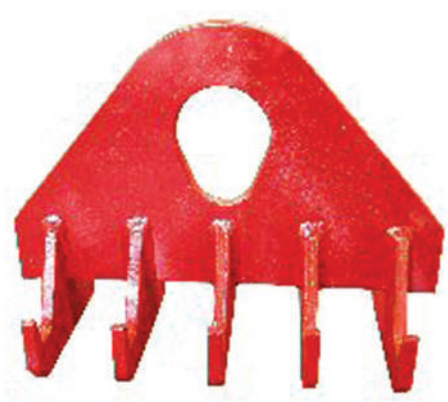
We manufacture Customized Glass lifting slings with different types of protective sleeves to handle float glass sheets and bundles . The basket size can be customized to handle the float glass safely



We also manufacture Glass bundling belts which can be used many times repeatedly unlike steel strapping

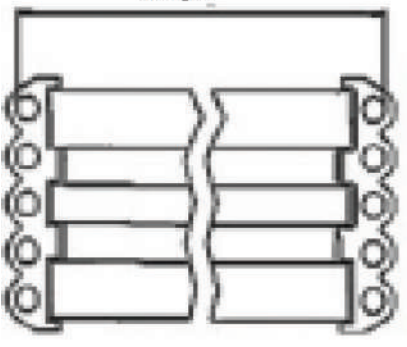
**Lowering Belt:**

We offer a wide range of lowering belts . The belt consists of two parts namely steel head iron and sling fabric. The sling fabric is woven from high tenacity polyester yarn. These belts provide easy and quick coupling and uncoupling. The lowering belt sling system is designed for long and durable life.

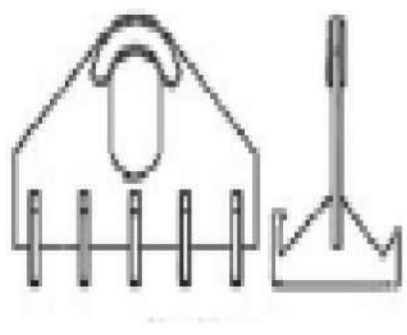


**Iron Head**

Length



Iron Head





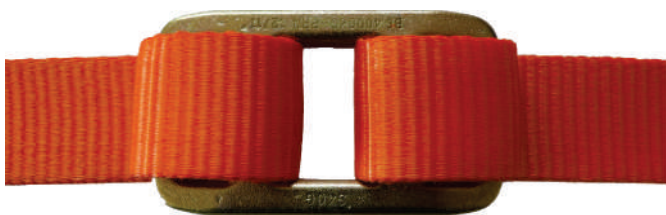
**L&L**

**Swadeshi**

**LIFT AND LASH (P) LTD**

**ONE WAY LASHING SOLUTIONS :**

**Polyester Woven Lashing :**



Polyester Woven Lashing (Pwl) Is Used To Secure Cargo. These Are offered In Form Of Webbing From Very High Tenacity Polyester Yarn, They Replace Conventional Load Restraint Products Like Steel Strapping, Wire Ropes, Chains, Ratchet Straps Etc.. & Also Reduces The Use Of Dunnage Woods. The Webbing Structure Of Woven Lashing Makes It Easy To Use & Hence Enhances The Performance Of Users.

We offer a wide range of polyester woven lashing, buckles and strapping tools for lashing container, flat rack, truck, ship, car etc.. Our lashing solutions are recognized all over india for their reliability and resistance to stress of all modes of transport. Our lashing webbings are having high tensile strength, UV and weather unalterable. With Our new printing technology, we offer the option to print lashing straps with logo and your company name according to your choice.

**Features :**

- As Strong As Steel
- Lighter In Weight
- Absorbs Shock
- No Corrosion
- High Cross Directional Strength
- Retensionable
- Resistant To All Weather Condition
- Does Not Damage The Finished Surface Of Goods.

Available Sizes	Linear Strength
25mm	1000kgs
25mm	1500kgs
32mm	1500kgs
32mm	2000kgs
32mm	2500kgs
32mm	3000kgs
40mm	2500kgs
40mm	4000kgs
40mm	5000kgs
50mm	3500kgs
50mm	5000kgs

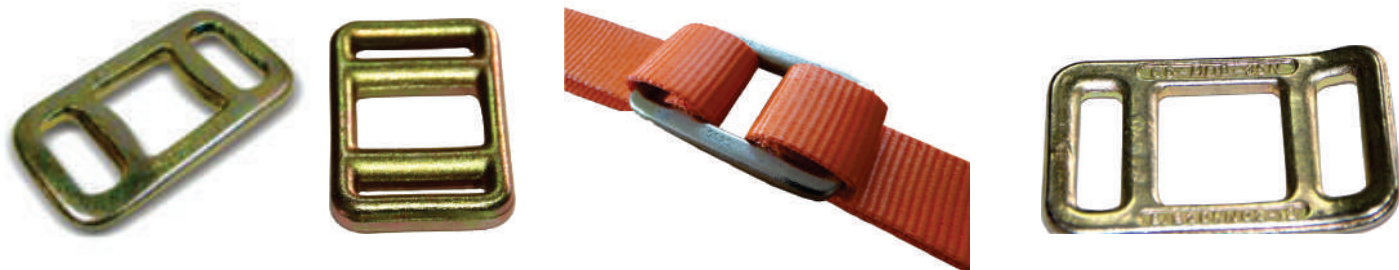


**LIFT AND LASH (P) LTD**

**One Way Lashing Buckles :**

We manufacture high quality buckles to close woven lashing which is tensioned with manually or battery operated tensioner. These buckles are made form high quality raw materials and passes through rigorous inspection to eliminate any defects

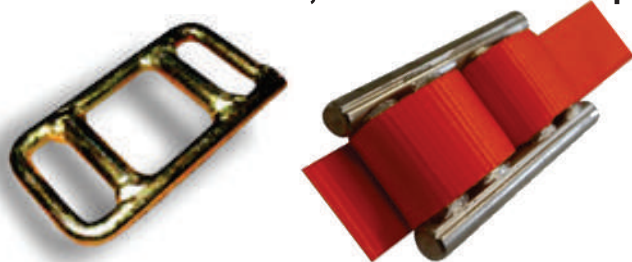
**Alloy Steel Forged Buckle for 35mm, 40mm and 50mm Straps**



**Phosphotised Wire Buckles For 16mm, 19mm, 25mm And 32mm Straps**



**Welded Buckles For 32mm, 40mm And 50mm Straps**



**Sheet Metal Buckle For 32mm Straps**



**End Fittings :**



**Tensioner :**





**LIFT AND LASH (P) LTD**

**Dunnage Air Bags:**

In spite of using the best packaging materials to pack your valuable products, they do not reach your customer the same way you want.



**Reason :** voids and space inside container and between pallets allow the cargo to bang between themselves and the damage is done.

**Solution :** proper selection and use of cargo securing bags or dunnage air bags to secure your cargo.

**Other names of dunnage air bags are..** - dunnage bags, - inflatable bags, - kraft paper bags, - void fillers, - air cushion

**What are dunnage air bags?**

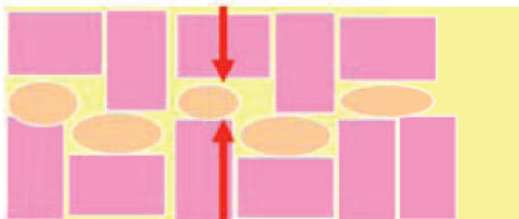
A dunnage bag consists of a closed chamber made from a plastic bag filled with air, covered by one or more layers of Kraft paper and/or Kraft paper laminated with woven polypropylene and/or woven polypropylene. Dunnage air bags secure and stabilize your cargo in sea-containers, closed railcars, trucks and (ocean going-) vessels

**How do dunnage bags work?**

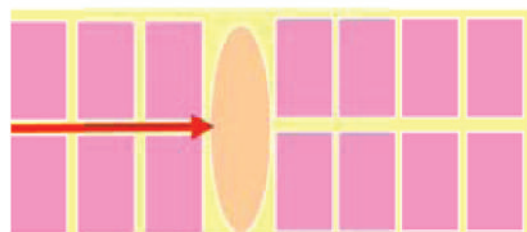
A dunnage bag is placed in the void between cargos (hence their name “void fillers”). Upon inflation, cargo is being 'pushed' to the sides of a compartment (e.g. container walls). It is extremely important to determine the size of the bag by the void that needs to be filled. Simply said, the bigger the void the wider the bag has to be to be able to fill the gap without looking like a football lost between two goalposts! If this does not match, your dunnage bag can and will not do a proper job. This can result in cargo movement during transport and can cause damage to cargo and people.

**Benefits of Dunnage bag:**

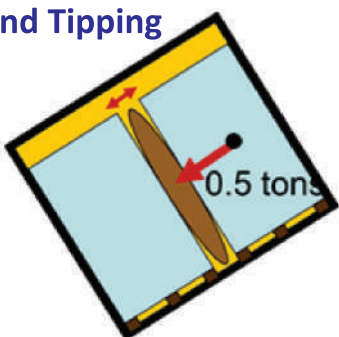
**1. Absorb Lateral Forces**



**2. Absorb Longitudinal Forces**



**3. Prevent Sideway Sliding And Tipping**



**4. Prevent Longitudinal Tipping**



**5. Prevent Vertical Movement And Acts As A Void Filler**





## LIFT AND LASH (P) LTD

### How do you choose the right dunnage bag for you?

Several factors need to be taken into consideration upon selecting the best bag for your cargo securing job, such as:

- Application; e.g. truck or reefer container,
- Reusability; is the bag going to be reused
- Recycling; does the bag have to be recycled
- Performance required; criteria could be:
  - a. Moisture resistance
  - b. Durability (wear and tear)
  - c. Puncture resistance
  - d. Rigidity
  - e. Strength
  - f. Slippage/friction bag and cargo
  - g. Filling technology
  - h. Deflation and time to deflate
  - i. Cost

### How do you determine the right size of bag you need?

Dunnage bags are available in a huge amount of sizes, how do you know which one fits your requirements? Let's briefly touch that subject. Besides the right type of dunnage bag, the size of the bag is equally important and can be determined in three easy steps.

#### 1. Measure the void between the cargos

Rule of thumb for calculating the required width of a dunnage bag; measure the void and multiply this number by 2 and add 5 on top of the outcome, then look for the nearest wider bag. This means:

- Void of 25 cm requires a 60 cm bag ( $25 \times 2 + 5 = 55$ . Next nearest wider bag = 60 cm)
- Void of 40 cm requires a 90 cm bag ( $40 \times 2 + 5 = 85$ . Next nearest wider bag = 90cm)
- Void of 45 cm requires a 100 cm bag ( $45 \times 2 + 5 = 95$ . Next nearest wider bag = 100cm)
- Void of 55 cm requires a 120 cm bag ( $55 \times 2 + 5 = 115$ . Next nearest wider bag = 120cm)

#### 2. Measure distance from the floor to top of the load

#### 3. Measure length of pallets or any other type of cargo you are securing

The dunnage bag should cover as near as possible the full height and length of the pallets or cargo units being secured. Any dunnage bag expert will now be able to tell you what size your dunnage bag should be. If you want some information from our experts just contact us and fill out a contact form.

### How To Install The Bag?



Step 1: Choose the right size for maximum contact



Step 2: Protect the bag from sharp objects



Step 3: Position the bag correctly



Step 4: Inflate the bag till the cargo is properly secured

### Industries Using Our Dunnage Bags

- Electronics • Refrigeration • Shipping • Wine Industry • Food Processing • Paper Industry
- Container Transport • Bricks / Plasterboard • Chemicals • Furniture • Cargo Handling • Ceramic/Tiles
- Pharmaceuticals • Machinery Manufacturers • Edible Oil • Glass Industry • Packaging Industry



**LIFT AND LASH (P) LTD**

We manufacture two types of dunnage air bags: the Kraft paper&woven pp laminated dunnage bag and the PP woven dunnage bag. Each is available in a large variety of sizes and strengths. They fill up every space in every form up to 55 cm, so there is almost always a dunnage bag to suit your freight. And while other dunnage material can damage your cargo, all dunnage air bags are completely safe for goods and users. Securing cargo has never been so simple and effective to do. In addition, our dunnage bags are also attractively priced.

**Kraft paper&pp laminated dunnage air bags:**

Our extraordinarily strong and durable Kraft paper&pp laminated dunnage bags consist of a special airtight inner bag of polyethylene with one or more outer layers of moisture-resistant quality Kraft paper laminated with woven pp fabric.



**PP woven dunnage bags:**

Our PP woven dunnage bags have a unique airtight inner bag of polyethylene just like the Kraft paper&pp laminated dunnage bags. However, the outside is made of woven polypropylene (PP). A very strong, durable and water-resistant material. Perfect for transport by sea, but the dunnage air bags can also be used at other locations.



**Available Sizes In Both The Category**

**Dimension in MM**

- 800 X 800 MM
- 800 X 1000 MM
- 800 X 1200 MM
- 800 X 1500 MM

- 900 X 1200 MM
- 900 X 1500 MM
- 900 X 1800 MM
- 900 X 2100 MM

- 1000 X 1000 MM
- 1000 X 1200 MM
- 1000 X 1800 MM
- 1000 X 2200 MM



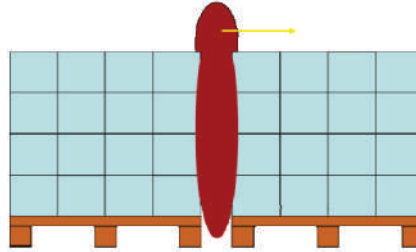
**LIFT AND LASH (P) LTD**

**Does And Do Not In Application Of Dunnage Bags:**

1. Use dunnage bags as far as possible between cargos as shown in the picture below



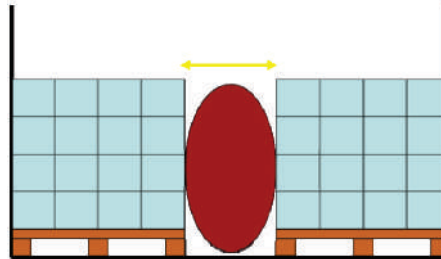
6. Avoid what we call “ballooning” effect



2. Make sure you use the correct filling tool and make sure that it is equipped with the right connector to make it fit your compressor



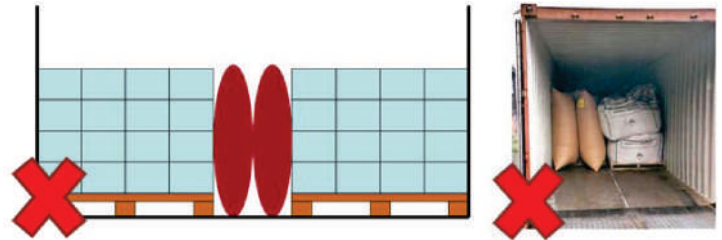
7. Never exceed the maximum void of the dunnage bags



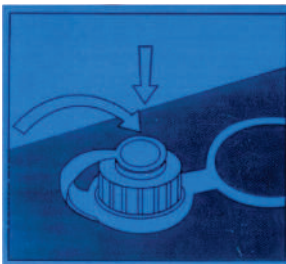
3. Always read and follow the instructions on the label/printed on the bag



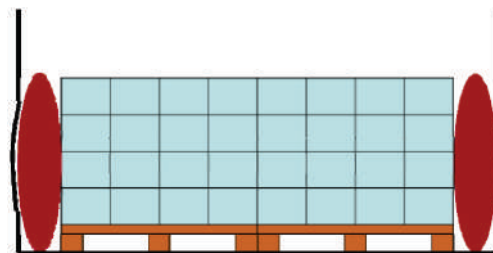
8. Never use 2 dunnage bags next to each other or fold bags



4. Always insert safety pin after inflation if your dunnage bag is equipped with one



9. Avoid using bags next to container wall and roof if possible



5. Avoid sharp edges, because they can damage the dunnage bag



10. Avoid using bags in front of doors

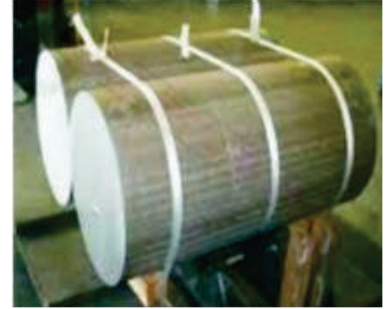




**LIFT AND LASH (P) LTD**

## **POLYESTER COMPOSITE STRAP**

Polyester Corded Composite Strap is manufactured from co-extruded high tenacity polyester yarns embedded in a polymer coating. It is called polyester corded composite strap due its composite structure. Due to its superior properties, composite strapping is preferred for loads demanding higher strapping strength and loads carried under difficult conditions.



### **Polyester Composite Strap's features are**

- As Strong as Steel
- Shock absorbent
- Does not get loose (high tension retaining properties)
- Highly elastic and flexible
- No sharp edges which could damage your products
- Does not damage cargo
- Resistant to severe weather conditions and UV
- Cost-effective
- Light-weight
- Non Corrosive
- Resistant to chemicals
- Fast and easy to use
- Safe to use

Composite strapping is a stiff but flexible product that can be easily used on various packaging applications. They are highly resistant to severe weather conditions

Composite strapping should be used with our galvanized wire buckles. When used this way it has a considerably higher system breaking strength, it does not get loose during transportation. It allows your cargo to reach its destination without incurring any damages.

Composite strapping can be re-tensioned if necessary. Especially for goods packed in rows on the pallet the strap will not get loose due to its high elasticity.

Composite strapping comes in a wide range of dimensions. We have products that can be used, depending on the type of application and the weight of the pallet, in different widths (from 13mm up to 32mm) and in various breaking strengths (from 250 kgs up to 2600 kgs)

For any further informations please e mail at below mentioned e mail id.



**LIFT AND LASH (P) LTD**

## STRAPPING BUCKLES

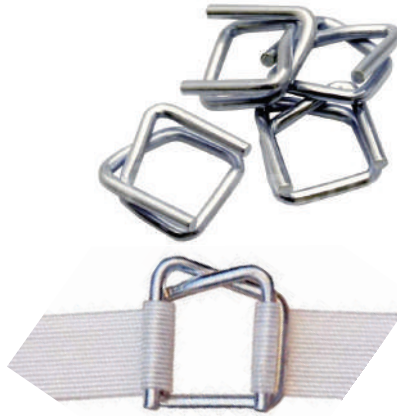
We manufacture high quality galvanised wire buckles used to close strapping by giving enough tension through a manual or battery operated tensioning tool, These Buckles are produced by an automatic machine and passes through strict quality control.

When used with composite straps it gives its best performance,

### WIRE BUCKLES AVAILBLE FOR FOLLOWING COMSITE STRAP WIDTH



- 13MM,
- 16MM,
- 19MM,
- 25MM
- 32MM



### SHEET METAL BUCKLE FOR 32MM STRAPS



## OTHER PRODUCTS

### STRAPPING DISPENSIOR



### STRAPPING TENSIONER





**LIFT AND LASH (P) LTD**

**ONE WAY LASHING SOLUTIONS :**

**Polyester Woven Lashing :**



Polyester Woven Lashing (Pwl) Is Used To Secure Cargo. These Are Offered In Form Of Webbing From Very High Tenacity Polyester Yarn, They Replace Conventional Load Restraint Products Like Steel Strapping, Wire Ropes, Chains, Ratchet Straps Etc.. & Also Reduces The Use Of Dunnage Woods. The Webbing Structure Of Woven Lashing Makes It Easy To Use & Hence Enhances The Performance Of Users.

We offer a wide range of polyester woven lashing, buckles and strapping tools for lashing container, flat rack, truck, ship, car etc.. Our lashing solutions are recognized all over india for their reliability and resistance to stress of all modes of transport. Our lashing webbings are having high tensile strength, UV and weather unalterable. With Our new printing technology, we offer the option to print lashing straps with logo and your company name according to your choice.

**Features :**

- As Strong As Steel
- Lighter In Weight
- Absorbs Shock
- No Corrosion
- High Cross Directional Strength
- Retensionable
- Resistant To All Weather Condition
- Does Not Damage The Finished Surface Of Goods.

Available Sizes	Linear Strength
25mm	1000kgs
25mm	1500kgs
32mm	1500kgs
32mm	2000kgs
32mm	2500kgs
32mm	3000kgs
40mm	2500kgs
40mm	4000kgs
40mm	5000kgs
50mm	3500kgs
50mm	5000kgs

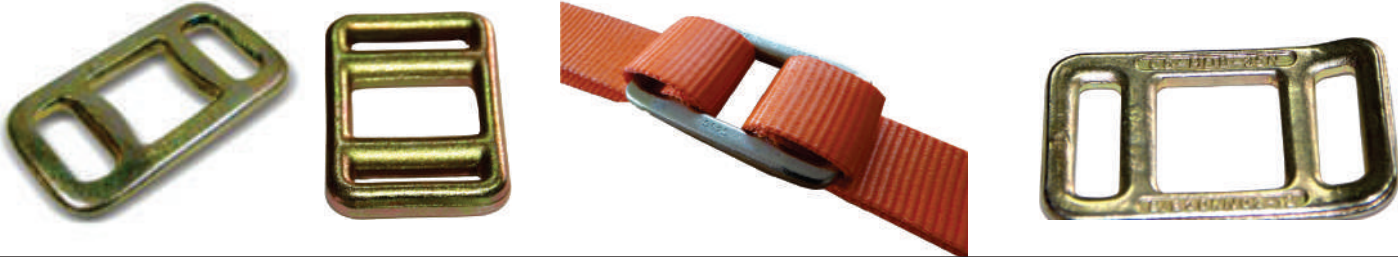


**LIFT AND LASH (P) LTD**

## **POLYESTER WOVEN LASHING BUCKLES**

We manufacture high quality buckles to close woven lashing which is tensioned with manually or battery operated tensioner. These buckles are made form high quality raw materials and passes through rigorous inspection to eliminate any defects

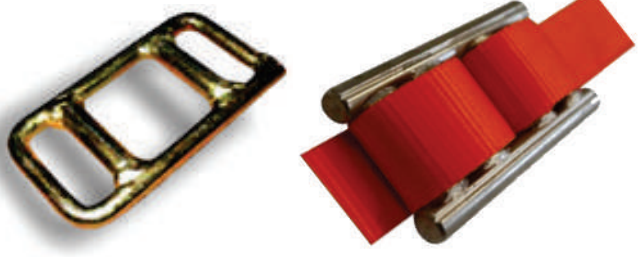
### **Alloy Steel Forged Buckle for 35mm, 40mm and 50mm Straps**



### **Phosphotised Wire Buckles For 16mm, 19mm, 25mm And 32mm Straps**



### **Welded Buckles For 32mm, 40mm And 50mm Straps**



### **Sheet Metal Buckle For 32mm Straps**



### **End Fittings :**



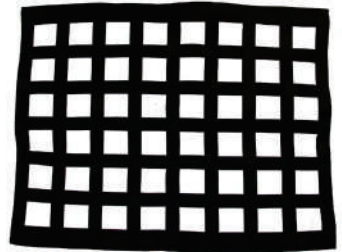
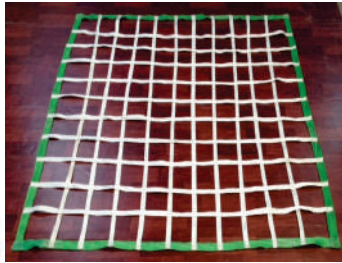
### **Tensioner :**





**LIFT AND LASH (P) LTD**

**Cargo Nets:**



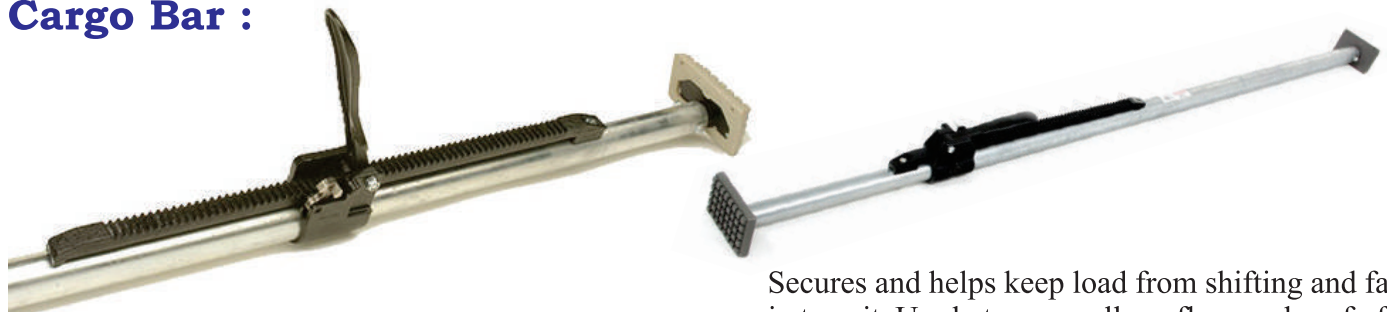
Our Web Cargo Nets are considerably more flexible, lightweight and compact than wire or manila rope nets and have a mesh opening size of approximately 6.25 inches square. Commercially produced Cargo Nets and non-standard sized nets are also readily available.

Cargo Nets must be square to function properly. Rectangular nets used for cargo handling will not properly encapsulate the load or distribute it over vertical and horizontal strength members within the net body.

**REMOVAL FROM SERVICE CRITERIA**

- a) Missing or illegible sling identification:
- b) Acid or caustic burns.
- c) Melting or charring of any part of the wheel net.
- d) Holes, tears, cuts or snags.
- e) Broken or worn stitching in the load bearing splices.
- f) Excessive abrasive wear.
- g) Knots in any part of the wheel net.
- h) Discoloration and brittle or stiff areas on any part of the net, which may mean chemical or ultraviolet or sunlight damage.
- I) Fittings that are pitted, corroded, cracked, bent, twisted, gouged or broken.
- j) For hooks, removal criteria as stated in ASME B30.10.
- k) For other applicable hardware, removal criteria as stated in ASME B30.26.
- l) Other conditions, including visible damage, that cause doubt as to the continued use of Wheel Nets.

**Cargo Bar :**



Secures and helps keep load from shifting and falling in transit. Use between walls or floor and roof of van, truck or trailer. For best results use in pairs. Telescopic tube adjusts from 89" to 105"....

Our Cargo bars feature 2" x 4" bolt-on padded feet for no-slip traction once they are extended to appropriate pressure. Also known as trailer load locks, these adjustable round steel tube load bars are made of high-quality steel.



**LIFT AND LASH (P) LTD**

## Car Lashing Products

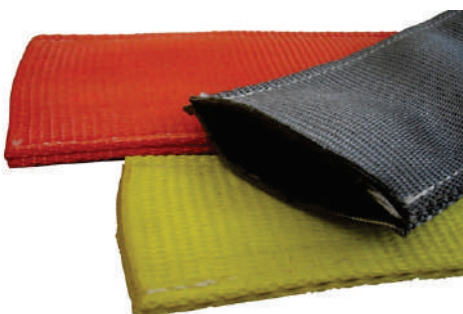
We manufacture premium quality car lashing products as per EN standards. Our Automobile lashing systems come with internationally approved sleeves, tire protectors and low elongation for longest haulage. We make the same for Car carrying containers, Trailers, shipping containers and RORO ships.



## Sleeves And Corner Protectors:

We are offering a wide range of Sleeves For Lifting Slings. Our products are also available with Anti Cut & Anti Abrasive protection sleeves used to protect against any cutting/shearing of the belts due to sharp edge on the load and frictional wear & tear.

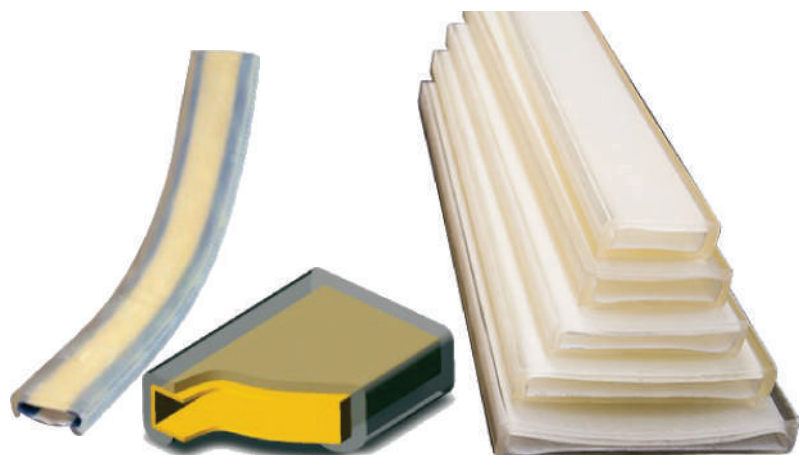
### Anti Abrasive Sleeves



### Cut Resistant Thin Pu Sleeves



### Pu Moulded Heavy Duty Cut Resistant Sleeves





**LIFT AND LASH (P) LTD**

## **CHAIN & CHAIN SLINGS :**

### **Single Legged Chain Sling:**

As the name implies, there is only one chainleg to this type of sling. It consists of a master link, a length of alloy chain, and a hook (there are three types of hooks — eye hooks, Single Legged: any of which can be selected depending on the application). The total weight of the load is carried by the single chain sling. The angle of lift is 90 degrees, and the weight of the load can equal the full working load limit of the chain. As per standard IS 2760/1980,



### **Two legged chain slings:**

Consisting of two chain legs both connected to a master link at one end and each leg attached to a hook at the other end, the double chain sling is generally used for more applications than any other type. As per standard IS 2760/1980





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### Two legged chain slings:

The three legged chain sling is often used to improve stability of the load when lifting (load control). As per standard IS 2760/1980



### Four legged/Quadruple chain slings:

A four-legged chain sling has the same rating as a triple since the load is seldom evenly distributed on a quadruple sling. The fourth leg is frequently needed to stabilize a load during the lifting operation. As per standard IS 2760/1980



We offer premium quality chains made from grade 80 alloy steel for lifting application & grade 30 chains to be used as hand chains.

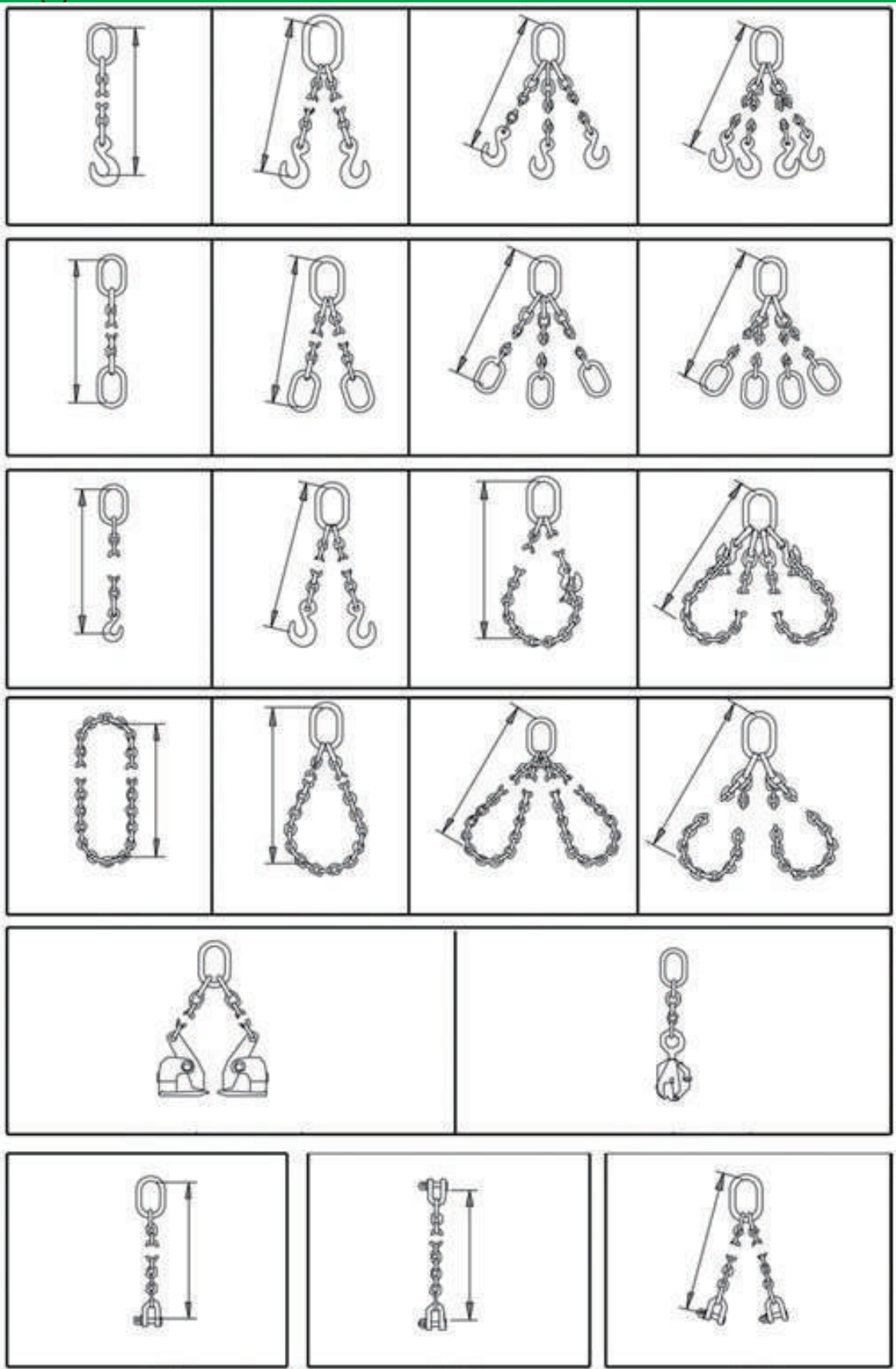
We offer our clients with a high quality range of chain slings. These are manufactured using permanent, welded coupling links, mechanical coupling links and others. These chain slings are used in various industries.



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**Specifications :**

- Available in different sizes
- Manufactured as per IS specifications and grade 30/63/80 & above
- Various end fittings possible



## LIFT AND LASH (P) LTD

### Features:

- Abrasion and cut resistant
- Average elongation and shock resistant

We also offer higher grade chains and chain slings made from grade 100 and 120 alloy which are having more SWL compared to a same dimension chain of grade 80, and can withstand a temperature up to 380 degree centigrade

### Knowledge

Lifting equipment is everything used to connect a load to the crane hook, i.e. wire rope slings, chain slings, round slings, webbing slings, lifting beams etc.

**WLL (Working Load Limit)** is the maximum mass that the lifting equipment is authorized to sustain in general lifting service.

**BF (Breaking Force)** is the maximum force reached during the static tensile test.

**SF (Safety Factor)** is the relationship between breaking force and WLL. Note! The safety factors for chain, steel wire rope and soft slings differ.

**MPF (Manufacturing Proof Force)** is the force to which lifting equipment or components are tested prior to delivery, by the manufacturer.

### DOS AND DON'TS FOR CHAIN SLINGS

#### DOs

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



**LIFT AND LASH (P) LTD**

**WIRE ROPE SLINGS :**

Our Steel Wire Rope Slings are widely appreciated for dimensional accuracy and high strength. Manufactured in accordance with BIS standards, these are spliced using:



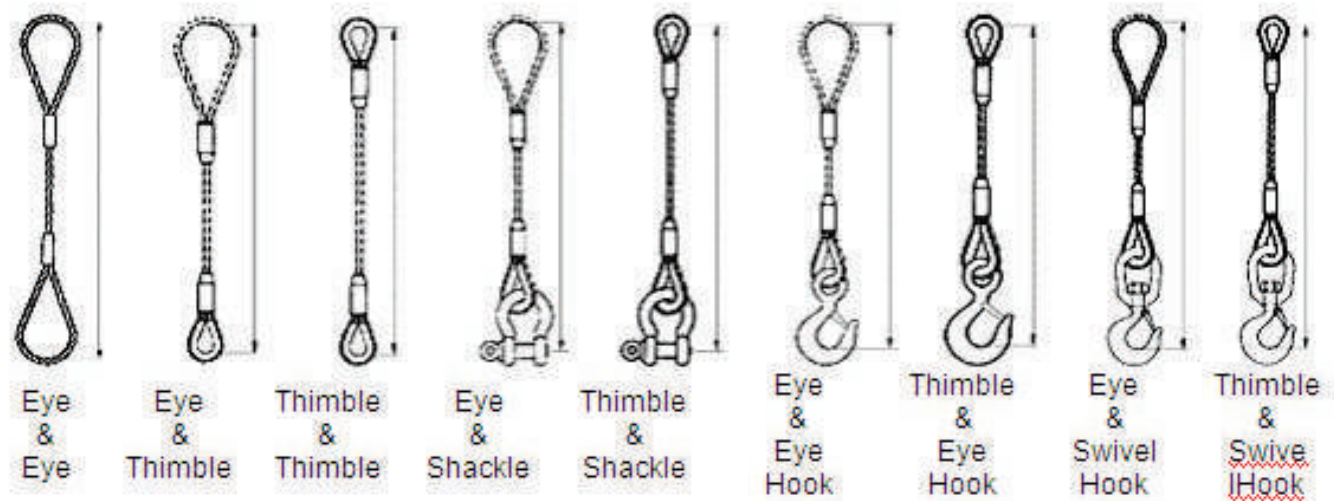
Mechanical Splicing / Hydraulic Pressing - Steel Wire Rope is formed into both ended looped sling and locked using an aluminum compound Ferrule which is further subjected to load under a hydraulic press of suitable capacity exerting exactly the desired load according to the rope Dia. This results in a permanent locked ferrule thereby forming the loop. This procedure is in adherence to IS 5245 Party II.

**Manual Splicing / Hand Splicing**

A sling is locked manually using its own strands interlocked to form a permanent loop. This procedure is in adherence to IS 5245 Party I.



**TYPES OF SINGLE PART SLINGS**



**MULTILEG WIRE ROPE SLINGS**

These are also called load balancing slings available in two legged, three legged and four legged combination with different types of end fittings.



**TESTING OF WIRE ROPE SLINGS:**

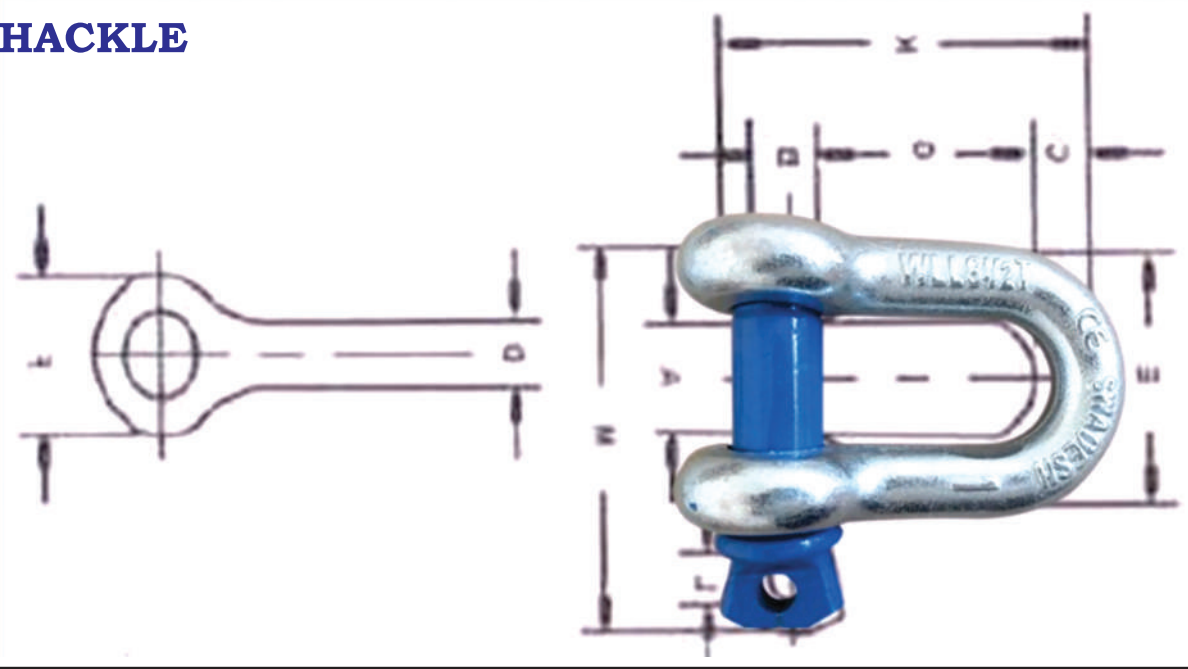
All the wire rope slings supplied by us are tested to proof load on a horizontal test bed and is certified by a competent person.





**LIFT AND LASH (P) LTD**

**D-SHACKLE**



**Specification of D Shackles**

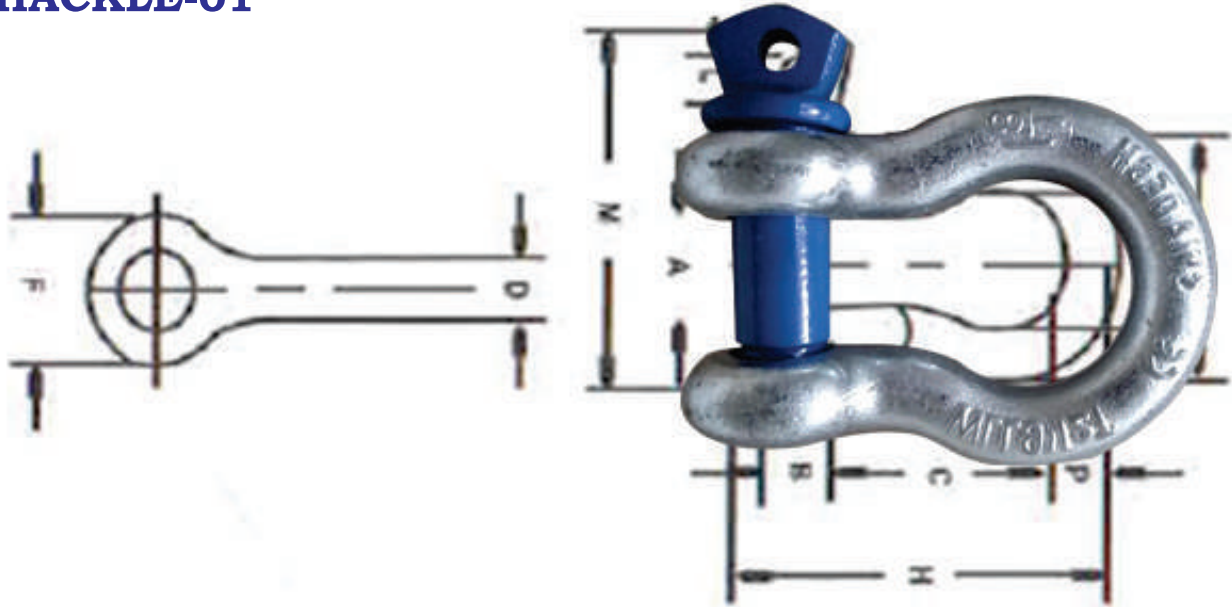
B = PIN DIA		D = BODY DIA		A = WIDTH		Dimensions (mm)							Tolerance +/-	
Normal Size (In.)	Working Load (T)	Weight Each (KG)	A	B	C	D	E	F	G	K	L	M	G	A
1/4	1/2	0.05	11.9	7.9	6.4	6.4	24.6	15.5	22.4	40.4	4.9	35.1	1.50	1.50
5/16	3/4	0.08	13.5	9.7	7.9	7.9	29.5	19.1	26.2	48.5	5.6	42.2	1.50	1.50
3/8	1	0.13	16.8	11.2	9.7	9.7	35.8	23.1	31.8	58.5	6.4	51.5	3.30	1.50
7/16	1-1/2	0.20	19.1	12.7	11.2	11.2	41.4	26.9	36.6	67.5	7.9	60.5	3.30	1.50
1/2	2	0.27	20.6	16.0	12.7	12.7	46.0	30.2	41.4	77.0	9.7	68.5	3.30	1.50
5/8	3-1/4	0.57	26.9	19.1	15.7	16.0	58.5	38.1	41.0	95.5	11.2	85.0	3.30	1.50
3/4	4-3/4	1.20	31.8	22.4	20.6	19.1	70.0	46.0	60.5	115.0	12.7	101.0	6.35	1.50
7/8	6-1/2	1.43	36.6	25.4	24.6	22.4	80.0	53.0	71.5	135.0	12.7	114.0	6.35	1.50
1	8-1/2	2.15	42.9	28.7	25.4	25.4	93.5	60.5	81.0	151.0	14.2	129.0	6.35	1.50
1-1/8	9-1/2	3.06	46.0	31.8	31.8	28.7	103.0	68.5	91.0	172.0	16.0	142.0	6.35	1.50
1-1/4	12	4.11	51.5	35.1	35.1	31.8	115.0	76.0	100.0	191.0	17.5	156.0	6.35	3.30
1-3/8	13-1/2	5.28	57.0	38.1	38.1	35.1	127.0	84.0	111.0	210.0	19.1	174.0	6.35	3.30
1-1/2	17	7.23	60.5	41.4	41.1	38.1	137.0	92.0	122.0	230.0	20.6	187.0	6.35	3.30
1-3/4	25	12.10	73.0	51.0	54.0	44.5	162.0	106.0	146.0	279.0	25.4	231.0	6.35	3.30
2	35	19.20	82.5	57.0	60.0	51.0	184.0	122.0	172.0	312.0	31.0	263.0	6.35	3.30
2-1/2	55	32.50	105.0	70.0	66.5	66.5	238.0	145.0	203.0	377.0	35.1	330.0	6.35	6.35

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## D-SHACKLE-01



### Specification of D Shackles

Normal Size (In.)	Working Load (T)	Weight Each (KG)	Dimensions (mm)											Tolerance +/-	
			A	B	C	D	E	F	G	H	L	M	P	G	A
3/16	1/3	0.03	9.65	6.35	22.4	4.85	15.2	14.2	24.9	37.3	4.06	28.4	4.85	1.50	1.50
1/4	1/2	0.05	11.9	7.85	28.7	6.35	19.8	15.5	32.5	46.7	4.85	35.1	6.35	1.50	1.50
5/16	3/4	0.09	13.5	9.65	31.0	7.85	21.3	19.1	37.3	53.0	5.60	42.2	7.85	3.30	1.50
3/8	1	0.14	16.8	11.2	36.6	9.65	26.2	23.1	45.2	63.0	6.35	51.5	9.65	3.30	1.50
7/16	1-1/2	0.17	19.1	12.7	42.9	11.2	29.5	26.9	51.5	74.0	7.85	60.5	11.2	3.30	1.50
1/2	2	0.33	20.6	16.0	47.8	12.7	33.3	30.2	58.5	83.5	9.65	68.5	12.7	3.30	1.50
5/8	3-1/4	0.62	26.9	19.1	60.5	16.0	42.9	38.1	74.5	106	11.2	85.0	17.5	6.35	1.50
3/4	4-3/4	1.07	31.8	22.4	71.5	19.1	51.0	46.0	89.0	126	12.7	101	20.6	6.35	1.50
7/8	6-1/2	1.64	36.6	25.4	84.0	22.4	58.0	53.0	102	148	12.7	114	24.6	6.35	1.50
1	8-1/2	2.28	42.9	28.7	95.5	25.4	68.5	60.5	119	167	14.2	129	26.9	6.35	1.50
1-1/8	9-1/2	3.36	46.0	31.8	108	29.5	74.0	68.5	131	190	16.0	142	31.8	6.35	1.50
1-1/4	12	4.31	51.5	35.1	119	32.8	82.5	76.0	146	210	17.5	156	35.1	6.35	1.50
1-3/8	13-1/2	6.14	57.0	38.1	133	36.1	92.0	84.0	162	233	19.1	174	38.1	6.35	3.30
1-1/2	17	7.80	60.5	41.4	146	39.1	98.5	92.0	175	254	20.6	187	41.1	6.35	3.30
1-3/4	25	12.6	73.0	51.0	178	46.7	127	106	225	313	25.4	231	57.0	6.35	3.30
2	35	20.4	82.5	57.0	197	53.0	146	122	253	348	31.0	263	61.0	6.35	3.30
2-1/2	55	38.9	105.0	70.0	267	69.0	184	145	327	453	35.1	330	79.5	6.35	6.35

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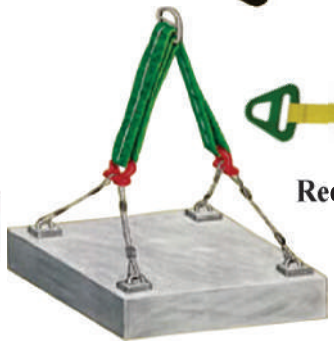
**Swadeshi**

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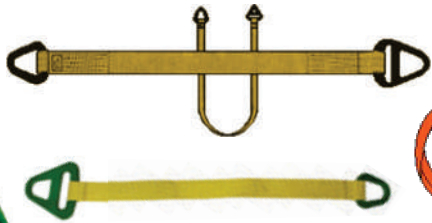
**Comming soon.....**



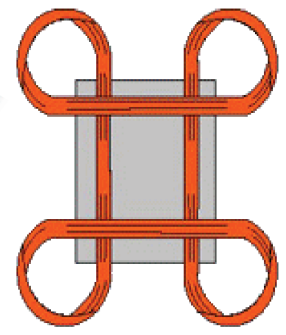
Heat Resistant Sleeve



Adjustable Bridle Slings



Reeving Choker Slings

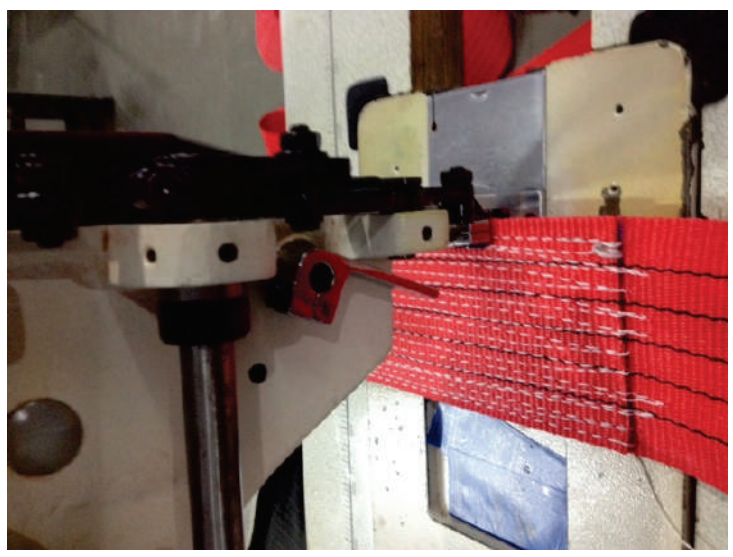
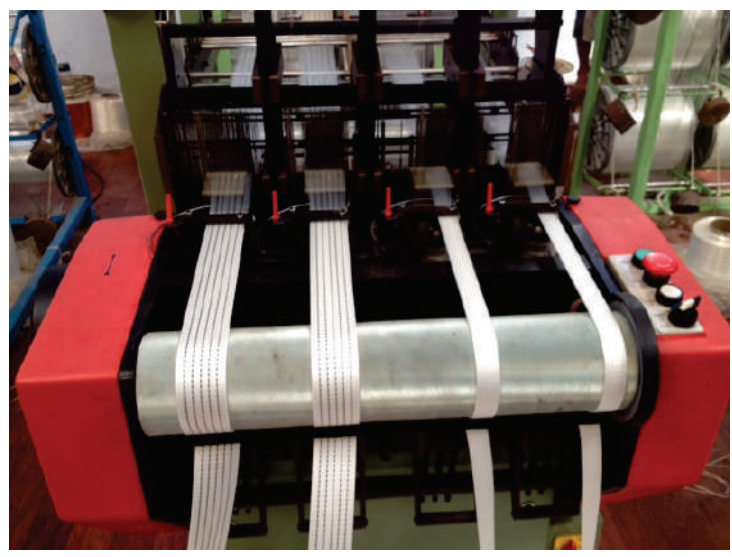
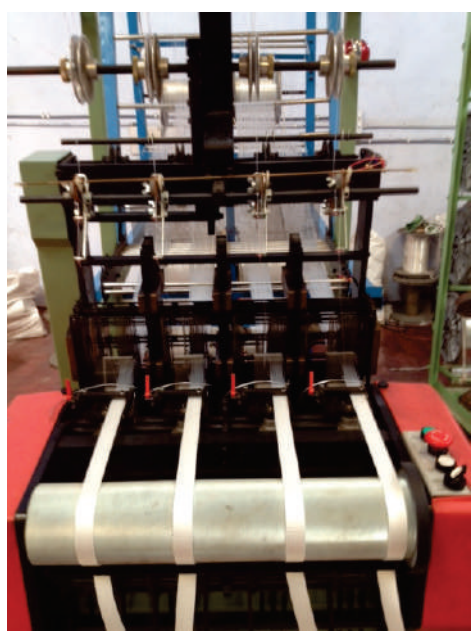


Clover Leaf Slings



Rotomax Slings

**Factory Images :**



Swadeshi<sup>TM</sup>

Swadeshi<sup>TM</sup>

Swadeshi<sup>TM</sup>

TM

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TM

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Swadeshi<sup>TM</sup>

# LIFT AND LASH (P) LTD

Manufacturers of Synthetic Slings, Lashings & Allied Products

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Authorised Sales Channel Partner :

