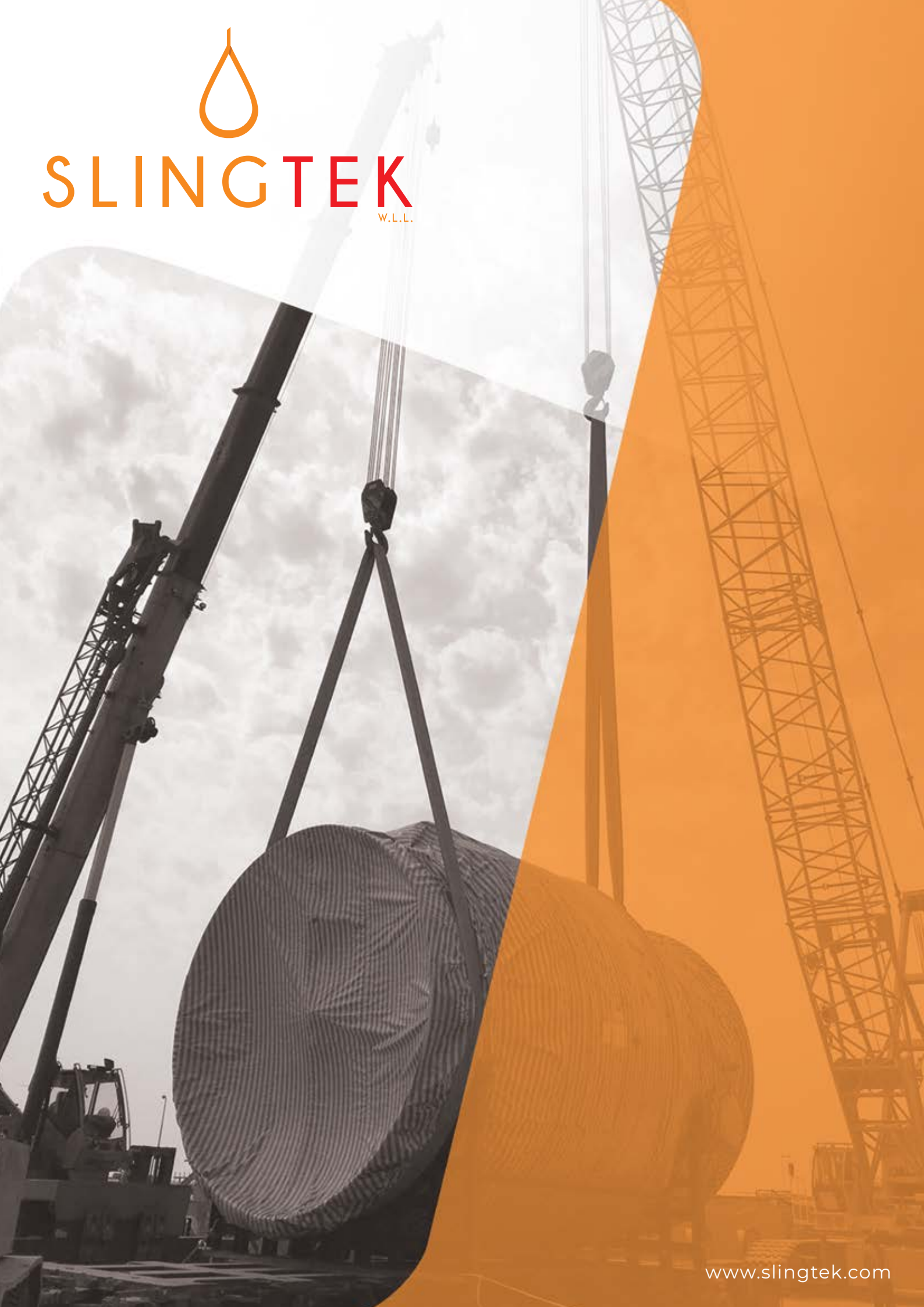




SLINGTEK  
W.L.L.





# INTRODUCTION

We have immense pleasure to bring to you the latest edition of our catalog showcasing the products we manufacture for the lifting and the rigging industry.

Slingtek WLL forms a part of a family owned business group having diversified interests in the field of investments, industrial trading, mechanical engineering and manufacturing over the past four decades in the Kingdom of Bahrain.

With emphasis on manufacturing high quality products and meeting stringent safety standards, we are the first of its kind manufacturing facility in the Kingdom of Bahrain, serving various sectors such as oil and gas, construction, industrial, shipping, steel and offshore.

We provide customized solutions to our clients in the field of lifting and rigging.

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# QUALITY CONTROL

The lifting and the rigging industry is a very diversified work environment that demands highest safety during lifting operations due to high risks involved. That is exactly why we have maximum focus on safety and quality on every product that we manufacture. All products manufactured by Slingtek are certified, and meet all international standards.

Being an ISO 9001:2015 certified company, all manufacturing processes are carefully monitored by stringent quality checks and controls and every batch of raw material is inspected and tested for any defects before being issued to production.

## Accreditations

L.E.E.A: - The Lifting Equipment Engineers Association is established across the globe as the leading representative body for all those involved in the lifting industry worldwide. We are Full Members of the association.



We are proud to have upgraded our certification to the new ISO 9001:2015 which falls in line with our quality management systems and processes. Through this certification, Slingtek ensures its focus on Quality Awareness throughout its management and operations department



## Third Party Testing and Certifications

Although all our products meet the required international standards and follow strict quality control, we provide our clients an option of Third Party Inspections and Certifications. These can be arranged prior to shipments by any third party inspection agency chosen by client or us.

## **RESOURCES** Information for Safe Use of Lifting Slings

Quality and Safety are utmost priority at Slingtek and therefore we strive to ensure that you are properly informed and carry sufficient knowledge about the lifting slings you use at your workplace.

Following resources are used regarding safety and safe use of lifting slings, but are not limited to:

1. **BS EN 818-4:** Short Link Chain For Lifting Purposes, Chain Sling, Grade 8
2. **BS EN 1492-1:** Textile Slings: Flat Woven Webbing Slings for General Purpose
3. **BS EN 13414-1:** Steel Wire Rope Slings, Slings for General Lifting Service
4. **BS EN 12195-2:** Load Restraint Assemblies on Road Vehicles, Web Lashings
5. **BS ASME B30.9:** Synthetic Web Slings, selection, use and maintenance

## **Quality Policy**

**SLINGTEK W.L.L** is committed to manufacture and supply high quality textile slings, wire rope slings, chain slings and cargo lashing belts in the Kingdom of Bahrain and provide value added industrial inspection and training services.

**We commit ourselves to achieve this by:**

- ▶ Compliance to applicable legal and regulatory requirements of Kingdom of Bahrain
- ▶ Enhancing customer satisfaction by clearly understanding their needs and requirements
- ▶ Continually improving our processes, products and services to suit customer needs.
- ▶ Helping all staff to achieve growth: both personally and professionally.
- ▶ Creating a work culture with trust and respect among all

## **Slingtek Warranty Information**

Slingtek WLL issues a “**Declaration of Conformity**” and warrants that its lifting slings are free from defects in material and workmanship normal consumer usage for the period of first twelve ( 12 ) months of said product’s purchase. However, this warranty applies only to new products; and does not apply to any defects caused by normal wear and tear, accident, and / or products that have been modified, repaired or misused. Any repairs or alterations to the product will cease the validity of warranty.

# INSTRUCTIONS FOR SAFE USE

## General Instruction for Safe Use of Lifting Sling

The following information is based on Section 1 - Appendix 1.5 - of the LEEA Code of Practice for the safe use of Lifting Equipment. It should be read in conjunction with the instructions for the safe use, give overload, of which it forms an integral part and with any specific instructions issued by the supplier.

This information is of a general nature only covering the main points for the safe use of various types of slings for general lifting purposes

### ALWAYS

- Plan the lift, establish the weight of the load and prepare the landing and ensuring that it will take the weight.
- Check slings and equipment are free of damage, use slings/slinging methods suitable for the load and protect slings from sharp edges and corners.
- Attach the sling securely to the load and appliance and position hooks to face outwards.
- Ensure the load is balanced and will not tilt or fall.
- Keep fingers, toes etc clear when tensioning slings and when landing loads.
- Ensure that the load is free to be lifted.
- Make a trial lift and trial lower.

### NEVER

- Use damaged slings or accessories.
- Twist, Knot or tie slings.
- Hammer slings into position.
- Overload slings due to the weight of the load or the mode of use.
- Trap slings when landing the load.
- Drag slings over floors etc or attempts to pull trapped slings from under loads.
- Allow personnel to ride on loads

### Sling Configurations and Rating

Slings are available in single, two, three and four leg or endless form. In practice it will be found that chain, wire rope and fiber rope slings are available in any of these configurations but that flat woven webbing is limited to single leg and endless whilst roundslings are only supplied in endless form. The maximum load that a sling may lift in use will be governed by the slinging arrangement (mode of use) and may vary from the marked SWL in the case of textile slings the SWL for the various modes of use is usually given on the information label. In other cases, it is necessary to multiply the marked SWL by a mode factor.

The following three simple rules will ensure that the sling is not overloaded. In some cases, this will mean that the sling will be under utilised although this is unlikely to hinder the user unduly. Where the maximum utilisation is required reference should be made to a competent person who understands the factors involved and who can perform the necessary calculations.

- 1) For straight lift never exceed the marked SWL and in the case of multi leg slings the specified angle or range of angles.
- 2) When using slings in choke hitch multiply the marked SWL by the 0.8 to obtain the reduced maximum load the sling may lift i.e. reduce the safe working load by 20%.
- 3) With multi-leg slings, when using less than the full number of legs, reduce the maximum load in proportion to the number of legs in use. Simply multiply the marked SWL by the number of legs in use expressed as a fraction of the total thus: one leg of a two leg sling =  $1/2$ , marked SWL, three legs of a four leg sling =  $3/4$ , marked SWL and so on.

### Operative Training

Slings should only be used by trained operatives who understand the methods or rating and application of mode factor.\*\*\*

### Safe use of Slings

- Good slinging practice must ensure that the load is as safe and secure in the air as it was on the ground and that no harm is done to the load, lifting equipment other property or persons.

- Establish the weight of the load, ensure the lifting method is suitable and inspect the sling and attachments for obvious defects. Prepare the landing area making sure the floor is strong enough to take the load. Follow any specific instructions from the supplier.

- Ensure the lifting points over the center of gravity. Any loose parts of the load should be removed or secured. Secure the sling firmly to the load by hooks onto lifting points or shackles etc. The sling must not be twisted, knotted or kinked in anyway.

- Use packing to prevent damage to the sling from corners or edges and to protect the load.

- Do not exceed the SWL or rated angle. Any choke angle must not exceed 120° and any basketed 90°.

- Do not hammer, force or wedge slings or accessories into position; they must fit freely.

- When attaching more than one sling to the hook of the appliance use a shackle to join the slings and avoid overcrowding the hook.

- Use an established code of signals to instruct the crane driver.



# General Instructions for Safe Use of Web Lashings

This document is issued in accordance with the requirements of Section 6 of the Health and Safety at Work etc Act 1974, amended March 1988. This information is of a general nature only covering the main points for the safe use of Web Lashings made from man-made fiber. It may be necessary to supplement this information for specific applications. See also the general guidance on load restraint, given overleaf.



## ALWAYS

- Inspect web lashings before use.
- Calculate the lashing force(s) required for the chosen method of load restraint
- Select the capacity and number of web lashings to provide at least the calculated lashing force(s)
- Ensure the lashing points on the vehicle and/or load are of adequate strength.
- Position the web lashing so that the load is uniformly spread over its width and protect the web lashing from small radii, especially sharp edges
- Exercise care when releasing web lashings in case the load has become unstable since the lashings were applied.



## NEVER

- Use web lashing to lift a load.
- Knot or tie web lashings.
- Overload web lashings.
- Use web lashings over a sharp edge without edge protection
- Expose web lashings to direct heat or flames.
- Expose web lashings to chemicals without consulting the supplier.
- Use web lashings which are cut, have loose or damaged stitching, a damaged tension or terminal fittings.

## Selecting the Correct Web Lashing

The standard for web lashings is BS EN 12195-2: 2001. Web lashing are available in a range of capacities and lengths and in various configurations. Some are general purpose. Others are intended for specific applications such as securing cars by their wheels.

Selection should start with an assessment of the forces acting on the load. The lashing force(s) required should be calculated in accordance with BS EN 12195-1: 2010. Next check whether the lashing points on the vehicle and/or load are of adequate strength. If necessary apply a greater number of lashings to spread the force across more lashing points.

Web lashings are marked with their lashing capacity (LC), expressed in daN (deca Newton = 10 Newtons). This is a force approximately equivalent to a weight of 1kg.

## Using Web Lashings Safely

Ensure that the tensioner is free to align and not bent over an edge. Ensure that the webbing is not twisted or knotted and that the terminal fittings engage correctly with the lashing points. Ensure that the webbing is loaded evenly across its width and protected from sharp and small radius edges by suitable sleeves or edge protectors.

Checking the tension after travelling a short distance is recommended. Ensure that the webbing is protected against source of friction, abrasion and heat.

## In-Service Inspection & Storage

Web lashings can easily be damaged by tensioning the webbing across small radius edges or loading the edge of the webbing instead of ensuring the load is spread over its full width. Avoid this by correct placement of the web lashing and the use of protective sleeves and edge protection. However damage may occur accidentally as a result of the load moving in transit hence the need to inspect before each use.

Web lashings may accidentally be exposed to chemicals. Most are manufactured from polyester which is resistant to moderate strength acids but it's damaged by alkalis. Weak chemical solutions will become increasingly stronger by evaporation. If appropriate, the webbing may be cleaned with clear water and allowed to dry naturally. Never force dry web lashings.

Web lashings should be inspected for obvious signs of damage before each use. Do not use the web lashing if any of the following defects are found: illegible markings; damaged; caged or cut webbing; damaged or loose stitching; heat damage; burns; chemical damage; solar degradation; damaged or deformed end fittings.

Web lashings will deteriorate gradually over time due to normal wear. The LEEA recommends that they should be inspected by a competent person at least every 6 months and a record made of the result.

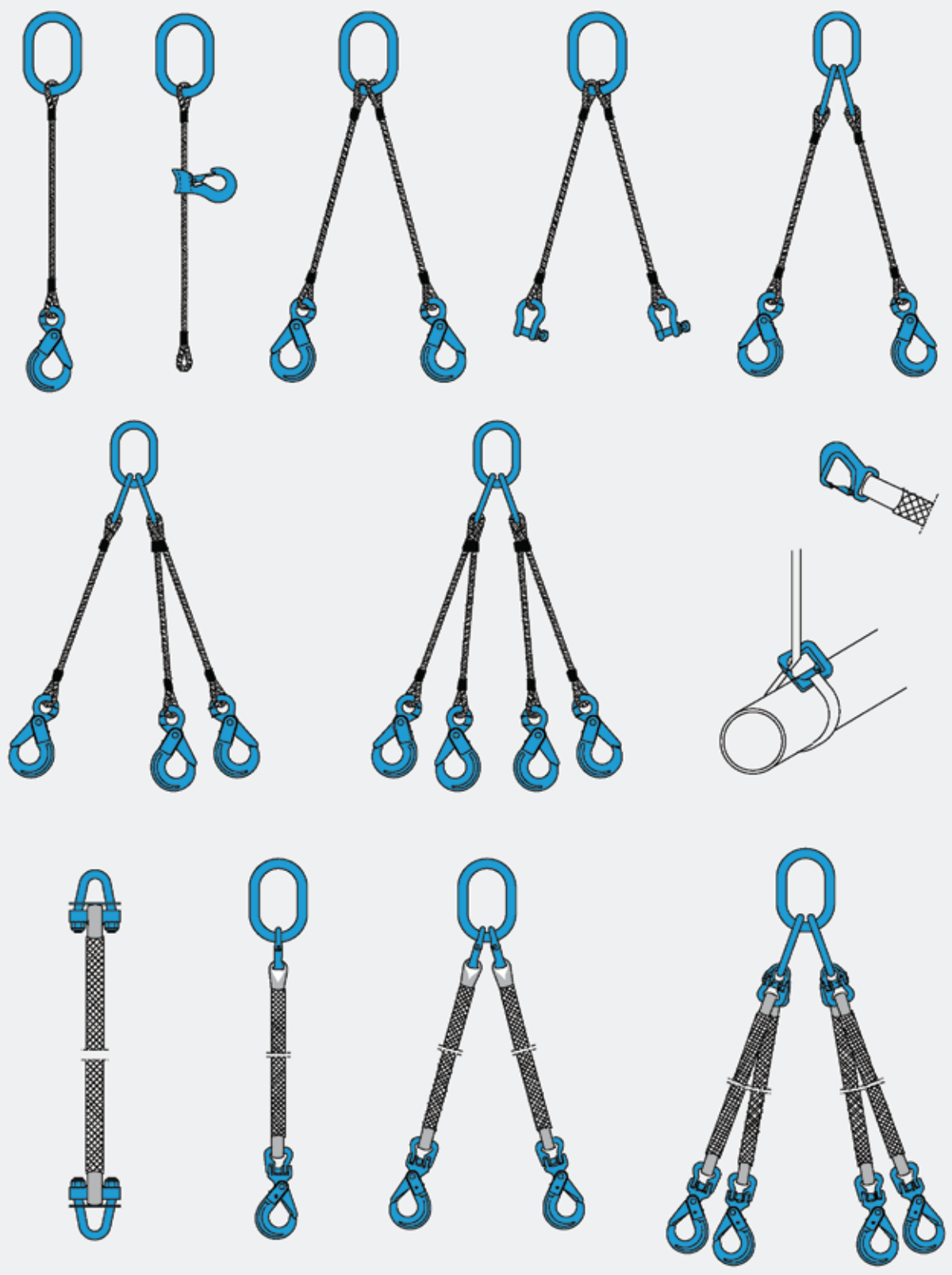
Web lashings should only be repaired by someone competent to do so. For long term storage the storage area should be dry, clean, free of any contaminants and shaded from direct sunlight.

The page features a white background with a large, rounded orange shape on the right side. On the left, there are two vertical lines: a thin orange line at the top and a thicker black line below it. The text 'MANUFACTURING PROGRAM' is centered horizontally in the white area. The background image on the right shows a close-up of a metal chain with orange safety tags.

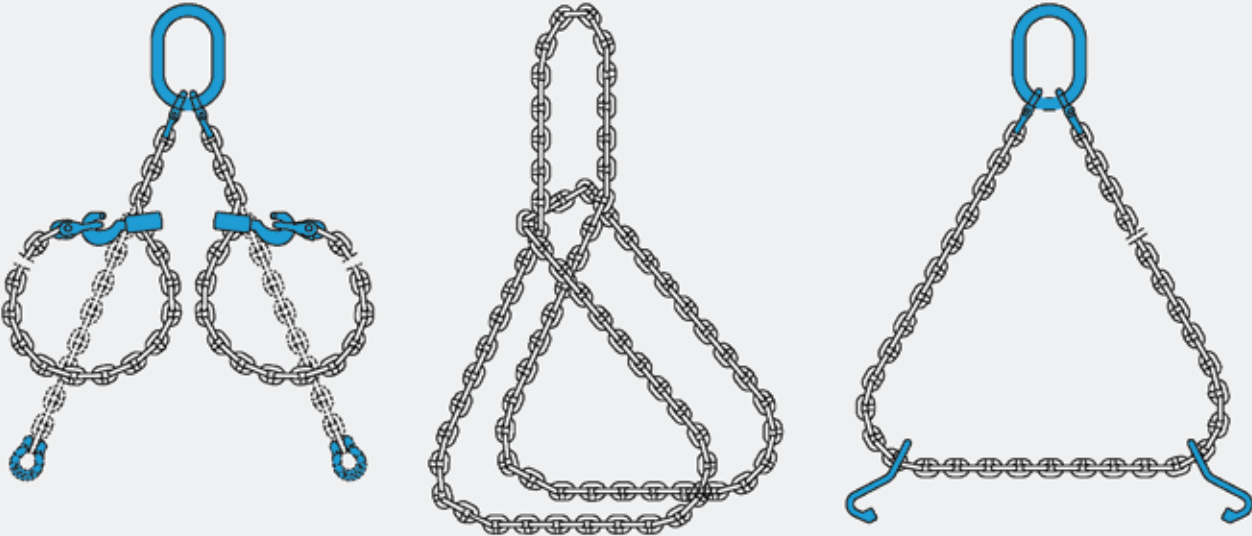
# **MANUFACTURING PROGRAM**



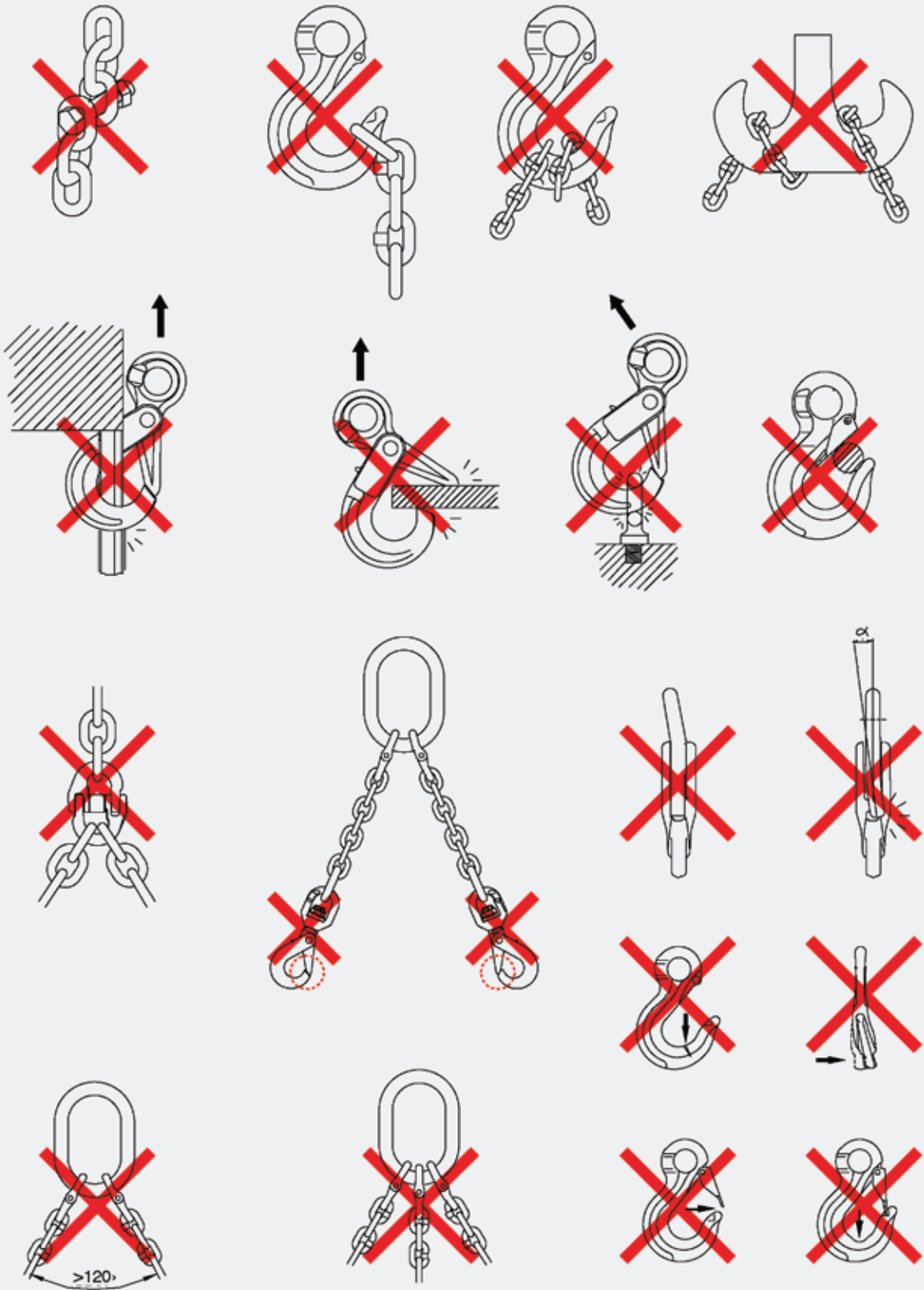
## Examples Of Wire Rope Sling & Web Sling



# Examples Of Chain Slings



# Incorrect Use















# TEXTILE LIFTING SLINGS

## Flat Web Slings

Polyester webbing slings are the best alternative to chain slings. They are lighter in weight and do not harm the job. They are highly flexible and can be used for lifting fragile loads. We manufacture flat webbing slings from high tenacity polyester webbing conforming to EN 1492-1 in two ply.

Various configurations are available ranging from one leg to four leg with use of links and end fitting hooks.

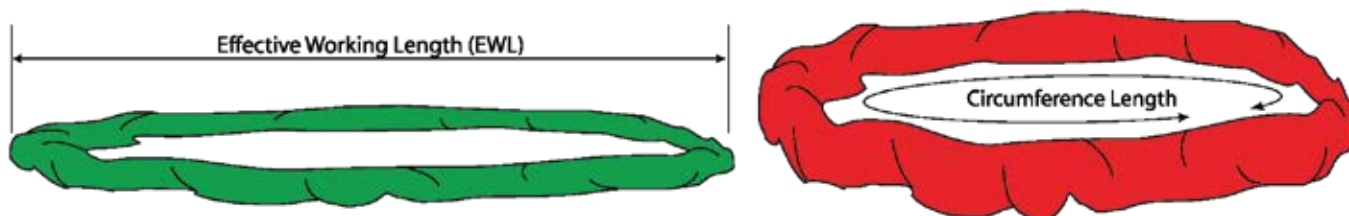
### Web sling load chart - Safety Factor 7:1 as per EN 1492-1







WLL of sewn webbing component	Colour of sewn webbing component	Working Load Limits in tonnes								
		Straight Lift	Choked Lift	Basket Hitch		Two leg sling		Three and four leg slings		
										
										
					$\beta = 0 \text{ to } 45^\circ$	$\beta = 45^\circ \text{ to } 60^\circ$	$\beta = 0 \text{ to } 45^\circ$	$\beta = 45^\circ \text{ to } 60^\circ$	$\beta = 0 \text{ to } 45^\circ$	$\beta = 0 \text{ to } 45^\circ$
		M=1	M=0,8	M=2	M=1,4	M=1	M=1,4	M=1	M=2,1	M=1,5
1,0	VIOLET	1,0	0,8	2,0	1,4	1,0	1,4	1,0	2,1	1,5
2,0	GREEN	2,0	1,6	4,0	2,8	2,0	2,8	2,0	4,2	3,0
3,0	YELLOW	3,0	2,4	6,0	4,2	3,0	4,2	3,0	6,3	4,5
4,0	GREY	4,0	3,2	8,0	5,6	4,0	5,6	4,0	8,4	6,0
5,0	RED	5,0	4,0	10,0	7,0	5,0	7,0	5,0	10,5	7,5
6,0	BROWN	6,0	4,8	12,0	8,4	6,0	8,4	6,0	12,6	9,0
8,0	BLUE	8,0	6,4	16,0	11,2	8,0	14,0	8,0	16,8	12,0
10,0	ORANGE	10,0	8,0	20,0	14,0	10,0	14,0	10,0	21	15,0
OVER 10,0	ORANGE									

# Round Slings

Round slings are endless flexible slings consisting of a load bearing yarn, completely enclosed in a polyester woven cover. These are most basic type of slings and yet they offer great flexibility and versatility.

## Round Sling load chart - Safety Factor 7:1 as per EN 1492-2



WLL of sewn webbing component	Colour of sewn webbing component	Working Load Limits in tonnes								
		Straight Lift	Choked Lift	Basket Hitch		Two leg sling		Three and four leg slings		
										
					$\beta=0$ to $45^\circ$	$\beta=45^\circ$ to $60^\circ$	$\beta=0$ to $45^\circ$	$\beta=45^\circ$ to $60^\circ$	$\beta=0$ to $45^\circ$	$\beta=45^\circ$ to $60^\circ$
		M=1	M=0,8	M=2	M=1,4	M=1	M=1,4	M=1	M=2,1	M=1,5
1,0	VIOLET	1,0	0,8	2,0	1,4	1,0	1,4	1,0	2,1	1,5
2,0	GREEN	2,0	1,6	4,0	2,8	2,0	2,8	2,0	4,2	3,0
3,0	YELLOW	3,0	2,4	6,0	4,2	3,0	4,2	3,0	6,3	4,5
4,0	GREY	4,0	3,2	8,0	5,6	4,0	5,6	4,0	8,4	6,0
5,0	RED	5,0	4,0	10,0	7,0	5,0	7,0	5,0	10,5	7,5
6,0	BROWN	6,0	4,8	12,0	8,4	6,0	8,4	6,0	12,6	9,0
8,0	BLUE	8,0	6,4	16,0	11,2	8,0	11,2	8,0	16,8	12,0
10,0	ORANGE	10,0	8,0	20,0	14,0	10,0	14,0	10,0	21	15,0
OVER 10,0	ORANGE									

## Eye Types For Web Slings

Three different eye types can be made according to customers' requirements



## Specialty Slings

**Drum Handling slings:** These are used to handle and lift drums at various work sites. The sling is designed in a way to make handling of such drums easier and quicker.

**Marine Slings (Boat Lifting Slings):** We specialize in marine slings which can be made to customers requirements and specifications. Customers can choose from different ordering options such as extra support eyes, lifting eye treatments, extra sling protections etc...

**Glass Handling / Lifting Slings:** Glass handling is a delicate and a high risk job, wherein the user is exposed to the risk of a breaking glass. We manufacture safe glass handling slings with extra eyes for sides protection and fully customized based in clients specifications. These also come with extra rubber pads to avoid slings being out.

**Wide body slings:** Extra wide body slings can be made for wide-bodied loads to cover a wider surface area.

## Performance Characteristics

Low elongation

Light weight and extremely flexible

Long life with excellent abrasion resistance

Temperature resistant from -400 C to 1000 C

Excellent resistance against most substances such as: oils, lubricants, sea water, alcohol, soaps etc

International Color coding as per European Norms (EN)

Each sling is individually wrapped with a "Manufacturers Certificate of Conformity"

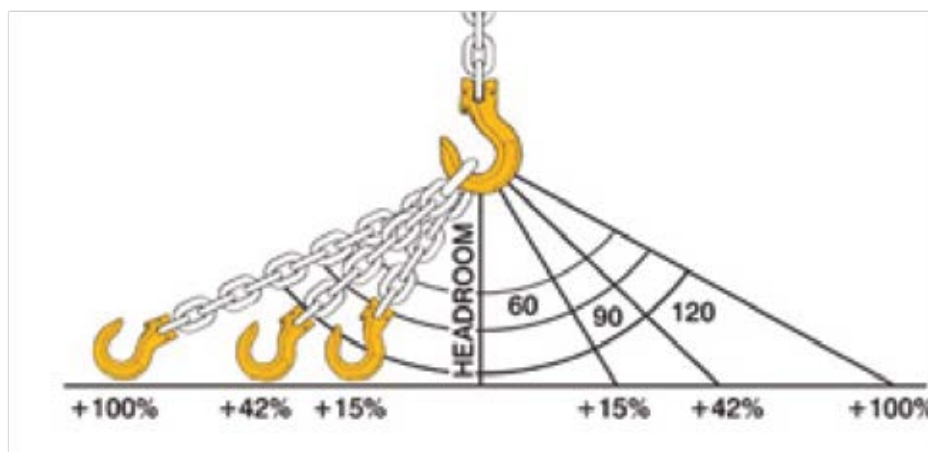
Various Eye types as per requirements.



# CHAIN SLINGS

Alloy Chain Sling is usually the best choice when working under rugged and hot weather conditions such as construction sites. They are durable, long lasting and easy to inspect. The main advantage with chain slings is that they can easily be repaired if any damaged component or link is found during inspection. We manufacture chain slings conforming to **BS EN 818-4**.

The distance between the crane hook and the load is known as the "Head Room". If a specific head room is required, the "Reach" of the chain sling must increase as the angle between the legs increases as shown below.



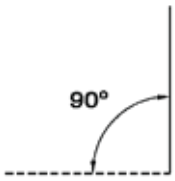
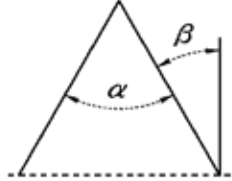
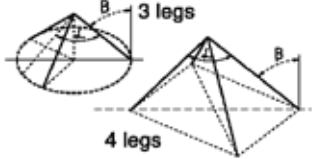

The reach of a chain sling is the distance between bearing points of the upper and lower terminal fittings. This distance, commonly known as the "Bearing to Bearing" should be quoted when ordering slings. Shortening clutches may be fitted with a sling, making the reach adjustable, hence increasing the versatility of the sling.



## Uniform load method of rating BS EN 818-4

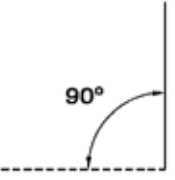
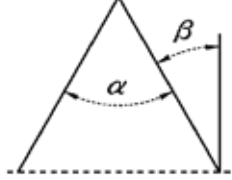
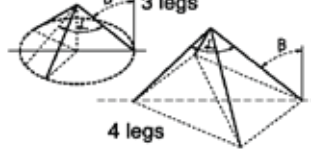

All general purposes slings should be rated by the uniform load method as shown in the table below.

### Grade 80 Chain Sling Components

WORKING LOAD LIMITS IN TONNES acc. to EN 1677						
						
Load Factor	1	1.4	1	2.1	1.5	1.6
For Chain Size mm	Tonnes	$\beta$ 0-45° $\alpha$ 0-90°	45-60° 90-120°	$\beta$ 0-45° $\alpha$ 0-90°	45-60° 90-120°	
7	1.50	2.12	1.50	3.15	2.24	2.50
8	2.00	2.80	2.00	4.25	3.00	3.15
10	3.15	4.25	3.15	6.70	4.75	5.00
13	5.30	7.50	5.30	11.20	8.00	8.50
16	8.00	11.20	8.00	17.00	11.50	12.50
20	12.50	17.00	12.50	26.50	19.00	20.00
22	15.00	21.20	15.00	31.50	22.40	23.60
26	21.20	30.00	21.20	45.00	31.50	33.50
32	31.20	45.00	31.50	67.00	47.50	50.00

All loads shown in tonnes

### Grade 100 Chain Sling Components

WORKING LOAD LIMITS IN TONNES acc. to PAS 1061						
						
Load Factor	1	1.4	1	2.1	1.5	1.6
For Chain Size mm	Tonnes	$\beta$ 0-45° $\alpha$ 0-90°	45-60° 90-120°	$\beta$ 0-45° $\alpha$ 0-90°	45-60° 90-120°	
6	1.4	2.0	1.4	2.9	2.1	2.2
7	1.9	2.7	1.9	4.0	2.9	3.0
8	2.5	3.5	2.5	5.3	3.8	4.0
10	4.0	5.6	4.0	8.4	6.0	6.4
13	6.7	9.4	6.7	14.1	10.1	10.7
16	10.0	14.0	10.0	21.0	15.0	16.0
20	16.0	22.4	16.0	33.6	24.0	25.6
22	19.0	26.5	19.0	39.9	28.5	30.4
26	26.5	37.1	26.5	55.7	39.8	42.4
32	40.0	56.0	40.0	84.0	60.0	64.0

\*\*Safety factor 4:1 above limits are valid for standard use and equally loaded slings. Properly use and maintenance of your chain slings will give long life and enable you to carry out your lifting operations efficiently and safely.

Warning: Never exceed a vertical sling angle of 60°

## Uniform load method of rating BS EN 818-4

Slingtek assembles Gr.100 chain slings which carry a superior advantage over the traditional Gr.80 chain slings. We carry in stock all Gr.100 components which are manufactured in accordance with various international standards such as ASTM, ASME, EN and DIN.

### Advantages of Gr.100 Chain Slings

- Available in capacities up to 84 T
- Blue Powder Coated to differentiate from standard Gr.80 in the market
- 25% stronger than traditional Gr.80 Chain slings
- Gr.100 is more competitive than Gr.80 on similar working load limit (WLL)
- All components are clearly marked with traceability code, CE mark and H91 stamp

### Limitation On Use

Slingtek alloy chain or chain slings should not be used in acid or caustic solutions nor in heavily acidic or caustic laden atmospheres. The high tensile strength of the heat treated alloy material in alloy steel chains and components are susceptible to hydrogen embrittlement when exposed to acids.

Slingtek slings must not be heat-treated, galvanized, plated, coated or subject to any process involving heating or pickling. Each of these processes can have dangerous effects and will invalidate the manufacturer certificate.

Slingtek slings may be used at temperatures between -40°C to 200°C with no reduction in the working load limit . The use of Slingtek chain slings within the permissible temperature range in the table below does not require any permanent reduction in the working load limit when the chain sling is returned to normal temperatures. A sling accidentally exposed to temperatures in excess of the maximum permission should be withdrawn from service immediately and returned to the distributor for thorough examination

When using Slingtek slings in exceptionally hazardous conditions, the degree of hazard should be assessed by a competent person and the Working Load Limit adjusted accordingly. Examples are lifting of potentially dangerous loads such as molten metals, corrosive materials or fissile material and including certain offshore activities.

Sling temperature (F)	Sling temperature (C)	Reduction in Working Load Limit
<b>-40F to 400F</b>	<b>-40C to 200C</b>	<b>None</b>
<b>-400F to 550F</b>	<b>-200C to 300C</b>	<b>10%</b>
<b>-550F to 750F</b>	<b>-300C to 400C</b>	<b>25%</b>
<b>Above 750F</b>	<b>Above 400C</b>	<b>Do not use</b>


# WIRE ROPE SLINGS

## Steel Wire Rope Slings

Wire rope slings are basic material handling tool and are the most frequently used type of sling in industry today. They offer a strong, dependable and economical option for most lifting applications. Their popularity is enhanced by the numerous sling configurations available to support a broad range of applications. These configurations include single and multi leg slings with a wide variety of fittings and attachments.

We manufacture wire rope slings with Flemish eyes secured with steel ferrules and turn-back eyes, secured with aluminum ferrules.

### Steel Wire Rope Slings load chart - Safety Factor 5:1 as per EN 13414-1

Wire Rope Size (mm)	MBL (kN) (of Rope)	One Leg	Two Leg		Three and Four Leg	
			0°-45°	45°-60°	0°-45°	45°-60°
6	25.1	0.50	0.70	0.50	1.05	0.75
8	44.7	0.80	1.10	0.80	1.70	1.20
10	69.8	1.30	1.80	1.30	2.80	1.95
12	100.0	1.80	2.50	1.80	3.80	1.95
13	118.0	2.10	3.00	2.10	4.40	3.10
16	179.0	3.30	4.60	3.30	7.00	5.00
19	252.0	4.60	6.50	4.60	9.70	6.90
20	279.0	5.10	7.20	5.10	10.80	7.60
22	338.0	6.20	8.70	6.20	13.00	9.30
24	405.0	7.40	10.50	7.40	15.50	11.10
26	472.0	8.60	12.10	8.60	18.10	12.9
28	547.0	10.00	14.00	10.00	21.00	15.00
32	715.0	13.10	18.50	13.10	27.50	19.50
36	904.0	16.60	23.20	16.60	34.90	24.9
38	1007.0	18.50	25.90	18.50	38.90	27.80
KL		1.00	1.40	1.00	2.10	1.50

Safe working load for slings based on grade 1960 steel cored rope of classes 6x19 and 6x36, having ferrule secured eye terminations.



These tables are compiled in compliance with EN 13414-1:2003. Uniform load method of calculations is used entirely

Higher capacities and sizes are also available.

## Cable laid Grommet Slings

These are endless wire rope slings made from one continuous length of rope, formed to make a body composed of six ropes around a rope core. These are manufactured BS EN 13414-3.



Diameter of Cable laid Grommet		
	Direct	Choke hitch
	<b>Working Load Limit</b>	
<b>MM</b>	<b>T</b>	<b>T</b>
24	9.0	7.0
27	11.5	9.0
30	14.0	11.0
33	17.0	13.5
36	20.0	16.0
39	23.5	19.0
42	27.0	21.5
48	35.5	28.5
54	45.0	36.0
60	55.5	44.5
66	69.9	55.0
72	84.0	68.0
78	102.0	81.0
84	102.0	97.0
90	144.0	115.0
96	168.0	135.0
102	196.0	157.0
108	227.0	182.0
114	262.0	210.0

*Bigger sizes and capacities are also available*

# RATCHET TIE DOWNS

Our lashing systems are made with high quality polyester yam which is light weight and very easy to use to secure both light and heady loads. Every lashing system is manufactured with a "Short Part" and a "Long Part" using Double J-Hooks and Ratchet Buckles which are yellow zinc plated.

We manufacture ratchet tie downs in various capacities as shown below conforming to EN 12195-2. Any length can be manufactured to customer's requirements.

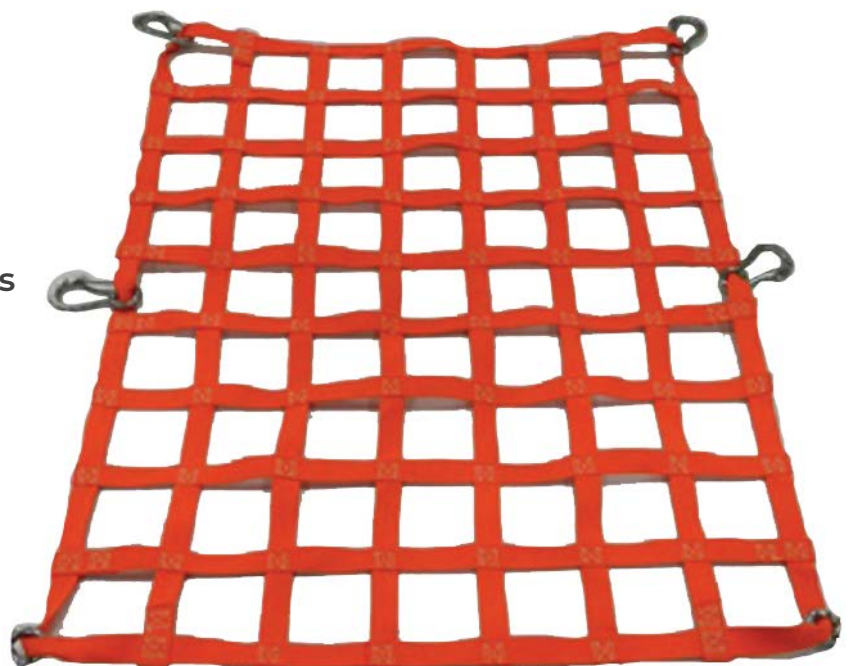
Width (mm)	Lashing Capacity (daN)	Breaking Strength (Full System, Kg.)	Breaking Strength (Webbing, Kg.)
50	2500	5000	7500
75	4000	8000	12000
100	5000	10000	15000



## Safety Cargo Nets

We manufacture special safety cargo nets to customers requirement in any length and width. These are available with the following specifications:

- Colour: Safety Orange
- Safe Working Load: 2T - 10T
- Mesh Size: As per order
- Attachments: Ratchet or Hooks





# FALL PROTECTION SYSTEMS

A personal fall-arrest system is generally required whenever an individual is at risk of falling from working at heights or from an elevated position. Properly designed system should include three components:

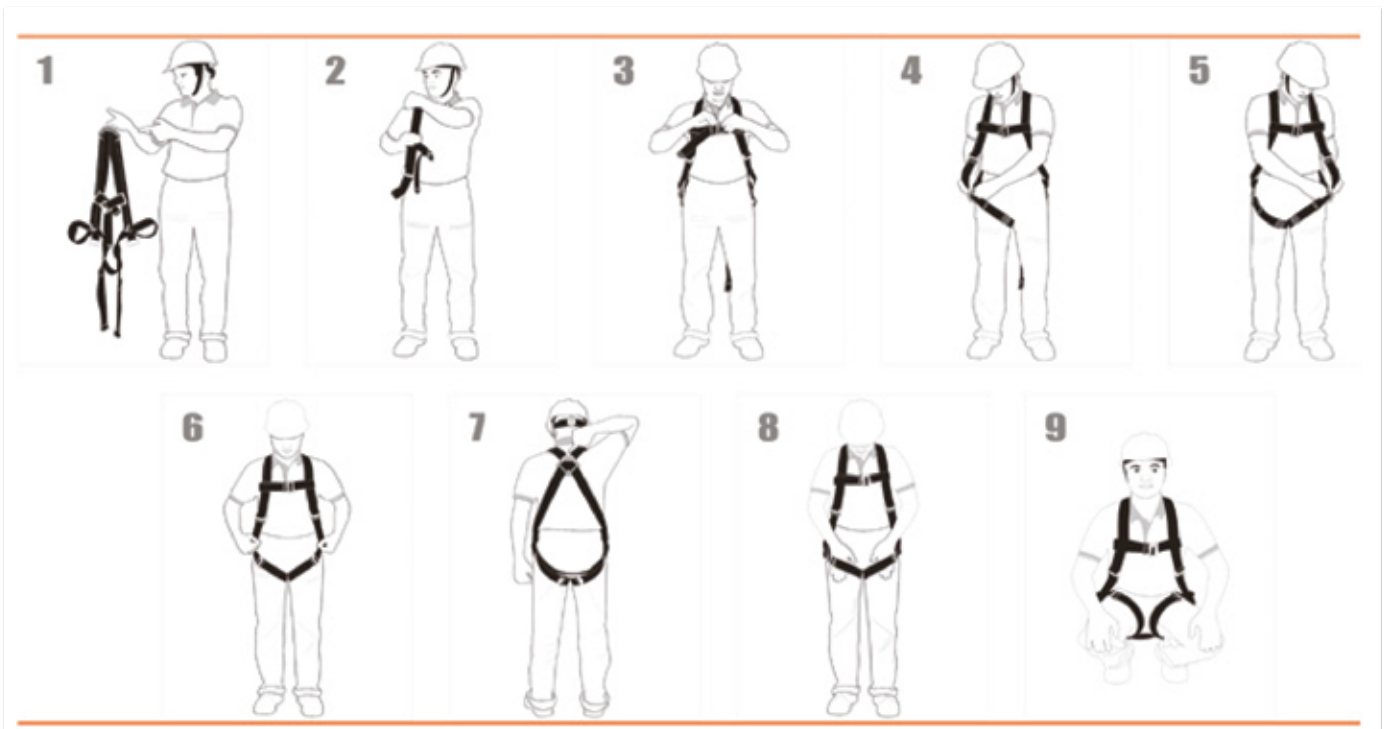
**An anchor point** will serve as a secure connection point for lifelines, lanyards or deceleration devices.

**A full-body harness** designed to distribute the fall-arrest forces over thighs, pelvis, waist, chest and shoulders; if a fall occurs, the ring located in the centre of the back will hold a worker in an upright position until rescued.

**A Connecting device** such as lanyard, deceleration apparatus, lifeline or a combination of these items with locking snap hooks.

## How to wear a harness

The Full Body Harness can be worn following these simple steps



The work positioning belt and lanyard can be worn as per the following easy steps



# Full Body Harness

## ST-110P

- One dorsal attachment D-ring, adjustable chest and thigh straps, ideally positioned sit strap for extended comfort.
- Dual color scheme differentiates shoulder and thigh straps.
- Universal Size.
- Conforms to **EN - 361 2002**



## ST-2050

- 1 Chest attachment and a Dorsal attachment D-ring for Fall Arrest.
- Adjustable Chest, Shoulder and thigh-straps; for easy adjustments.
- Shoulder and thigh-straps differentiated by a dual colour scheme.
- Ideally positioned sit-strap for extended comfort.
- Conforms to **EN 361:2002 & EN 1497.**
- Static Strength: 25kN - Weight: 1700 gms



## ST-4020

- Dorsal attachment D-ring for Fall Arrest & 2 chest attachment textile loop, with 2 Lateral D-Rings for Work Positioning.
- Adjustable Chest, Shoulder and thigh-straps; for easy adjustments.
- Shoulder and thigh-straps differentiated by a dual colour scheme.  
Tool holder loops and rings at the back.
- Ideally positioned sit-strap for extended comfort.
- Conforms to **EN 361:2002 & EN 1497.**
- Static Strength: 25kN - Weight: 1290 gms



## ST-5070

- Dorsal attachment D-ring for Fall Arrest & 2 chest attachment textile loop, with 2 Lateral D-Rings for Work Positioning.
- Adjustable Chest, Shoulder and thigh-straps; for easy adjustments
- Shoulder and thigh-straps differentiated by a dual colour scheme.  
Tool holder loops and rings at the back.
- Ideally positioned sit-strap for extended comfort.
- Conforms to **EN 361:2002**
- Static Strength: 25kN - Weight: 1290 gms



## Work Positioning Belt

These are to be used for Work Positioning only and **MUST NOT** be used as a fall arrest equipment. These should be intergrated with a full body harness and must be used by trained personnel

- Wide comfort pad to provide comfortable support for long hours
- Two Lateral D-rings
- Webbed loops for tool holding
- EN 358



## Retractable Fall Arrestor

Complete freedom of operation as the block can be anchored to the suitable fixture with the wire being connected to the full body harness.

- Automatic breaking system
- Compact & strong weather proof ABS casing
- Galvanized or stainless steel cable
- EN 360

Cable Length	Model
10 m	R-FAB-10
15 m	R-FAB-15
20 m	R-FAB-20
30 m	R-FAB-30
40 m	R-FAB-40



## Connectors / Hooks

Connectors form an important part of fall arrest systems. All our connectors and hooks are yellow zinc rust coated to increase life in hot and humid environments. These conform to EN 362 and are CE approved

### SL - 1011

Steel Karabiner, Screw Gate  
Opening: 18mm  
Strength: >22kN  
EN 362



### SL - 1011A

Aluminium Karabiner,  
Aluminium Alloy  
Opening: 22mm  
Strength: >23kN  
EN 362



### SL - 1021

Alloy steel snap hook  
Opening: 18mm  
Strength: >22kN  
EN 362



### TH - 0001

Alloy steel tower hook  
Opening: 100mm  
Strength: >23kN  
EN 362



### SL - 1031

Alloy steel scaffold hook  
Opening: 58mm  
Strength: >22kN  
EN 362



### SL - 1031A

Aluminium scaffold hook  
Opening: 58-60mm  
Strength: >23kN  
EN 362



## Energy Absorbers

These are used in various combinations and end fittings, and are made with rope lanyards or webbing lanyards conforming to EN 355/354

### SA - 3000

Energy Absorber  
EN 355



### SA - 3061

Twin Webbing Lanyard with  
Energy Absorber.  
Allows easy movement while  
working at heights  
EN 355



### SA - 3051

Twin Rope Lanyard with  
Energy Absorber  
Allows easy movement while  
working at heights.  
EN 355





# **LIFTING EQUIPMENT**



# SHACKLES

Shackles are used in lifting operations and static system as removable links to connect (steel) wire rope, chain and other fittings. Screw pin shackles are used mainly for non-permanent applications. Safety bolt and fixed nut shackles are used for long-term or permanent applications or where the load may slide on the pin causing rotation of the pin. Chain or dee shackles are mainly used on one-leg systems, whereas anchor- or bow shackles are mainly used on multi-leg systems.



## Range

Green Pin® offers a wide range of bow and dee shackles for a variety of applications. The range stretches from WLL 0.33t to 3000t. This provides our customers with a very extensive range to choose a shackle that suits their application best. Most of the shackles are directly available from stock. Furthermore, shackles can be supplied to many standards such as the US Federal Specification RR-C-271, EN 13889, British Standard 3032, DIN 82101 etc. Additionally we offer a wide range of general commercial shackles, which are not suitable for lifting but merely for fixing purposes. Van Beest offers a wide range of other shackles to complement the Green Pin® assortment.

## Design

All Green Pin® shackles have a specific design for a specific application. Some examples are:

- Green Pin Super® Shackles which are made out of grade 8 steel. They are designed to be used in confined spaces. The higher material strength is used to reduce the physical dimensions of the product whilst maintaining its WLL and functionality;
- Green Pin Polar® Shackles are for use in extreme climatic conditions with material properties guaranteed up to temperatures of -60°C;
- Green Pin Power Sling® Shackles are designed to provide a better radius to the sling it lifts. A bigger radius increases the life span of the sling significantly;
- Another example of a functional design is a shackle pin with a square sunken hole.

Because of the flat head there is less risk of the shackle getting caught in a net or a line.

These are all examples of highly functional designs, to optimize the use of the Green Pin® shackles in daily use.

Shackles used for lifting applications are generally marked with:

- **Working Load Limit** - e.g. WLL 25 T
- **Manufacturer's symbol** - e.g. GP
- **Traceability code** - e.g. HA indicating a particular batch
- **Steel grade** - e.g. 4, 6, 8
- **CE conformity code (Conformité Européenne)** - CE

Green Pin® Shackles meet all relevant requirements of the Machinery Directive 2006/42/EC and its latest amendments.

## Finish

Shackles supplied by Green Pin® can be hot dipped galvanized, electro-galvanized, painted or self coloured, depending on the type of shackle and its application. You can find the finish of each type of shackle in the product section further on.



## Instructions for use

Select the correct type and WLL of the shackle for the particular application. If extreme circumstances or shock loading may occur, this must be taken into account when selecting the correct shackle.

Please note that commercial shackles are not to be used for lifting applications.

Shackles should be inspected before use to ensure that:

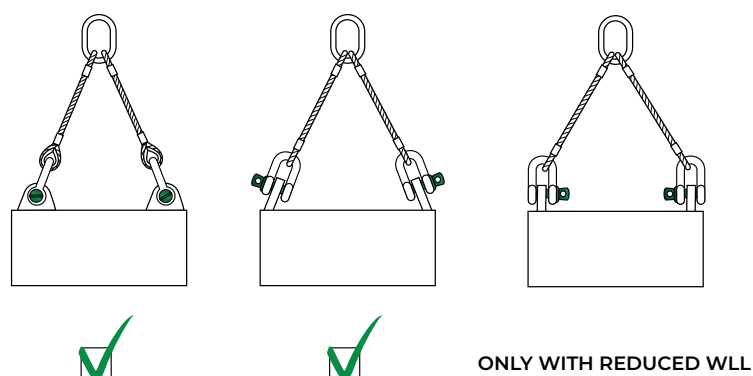
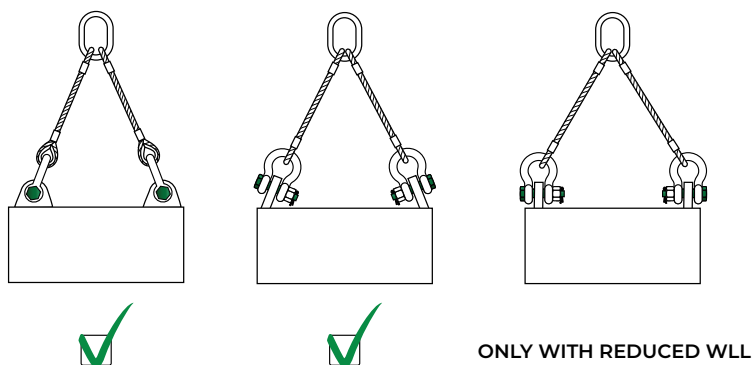
- all markings are legible;
- the body and pin are both of the same brand and type;
- the body and pin are both of the correct size;
- never use a safety bolt type shackle without using a securing pin;
- the pin, nut, cotter pin, or any other locking system cannot vibrate out of position;
- the threads of the pin and the body are undamaged;
- the body and the pin are not distorted or unduly worn;
- the body and pin are free from nicks, gouges, cracks and corrosion;
- shackles may not be heat treated as this may affect their WLL;
- never modify, repair or reshape a shackle by machining, welding, heating or bending as this will affect the WLL.

## Instructions for use

Ensure that the pin is correctly screwed into the shackle eye: tighten it hand-tight, then secure it using a wrench or other suitable tool so that the collar of the pin is fully seated against the shackle eye. Ensure that the pin is of the correct length so that it penetrates the full depth of the threaded eye and the collar of the pin touches the surface of the shackle eye.

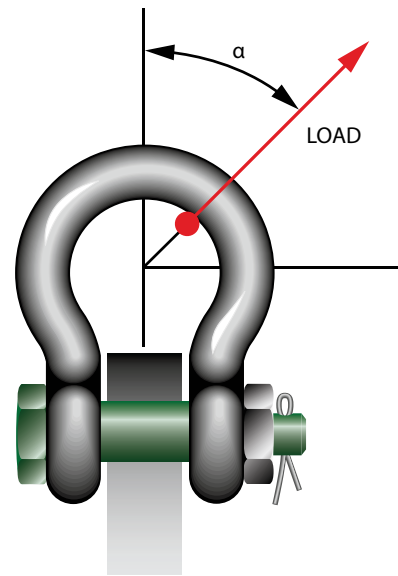
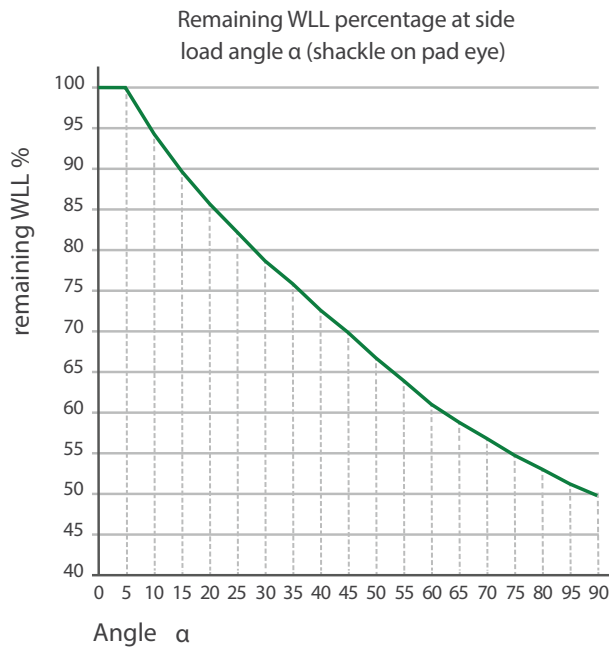
Incorrect positioning of the pin may be caused by a bent pin, too tight fitting thread or misalignment of the pin holes. Do not use the shackle under these circumstances. Never replace a shackle pin except with one of the same brand, type, make and size to ensure the shackle maintains its original WLL.

Make sure that the shackle is supporting the load correctly, i.e. along the axis of the shackle body centerline. Avoid bending loads, unstable loads and overloads.



## Side loads

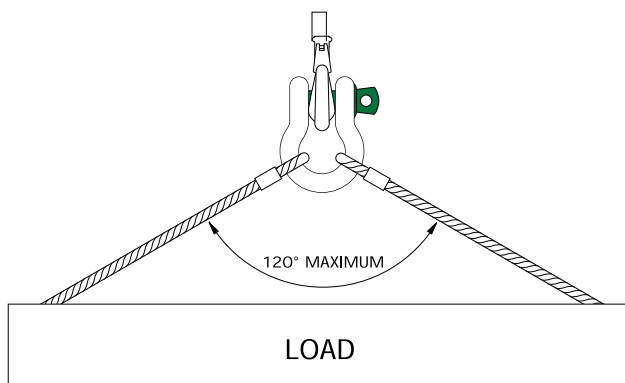
Side loads should be avoided, as the products are not designed for this purpose. If side loads cannot be avoided, the WLL of the shackle must be reduced:



This graph is valid for almost all Green Pin® shackles, except for ROV Shackles (P-5363 and P-5367). These shackles are for in-line use only. The graph is also not valid for Green Pin® Sling Shackles (P-6033 and P-6013) and Green Pin Power Sling® Shackles (P-6043). If you want to apply a side load on a Green Pin® Sling Shackle or a Green Pin Power Sling® Shackle, please contact Van Beest.

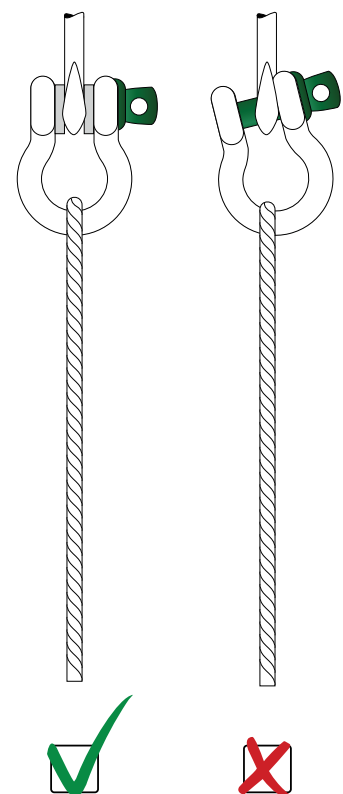
In-line lifting is considered to be a load perpendicular to the pin and in the plane of the bow. The load angles in the graph represent the deviating angles from in-line loading.

When connecting shackles to multi-leg slings, consider the effect of the angle between the legs of the sling. As the angle increases, so does the load in the sling leg and consequently in any shackle attached to that leg.



When a shackle is used to connect two slings to the hook of a lifting device, a bow type shackle must be used. The slings must be connected to the shackle body, and the shackle pin must be placed in the hook. The angle between the slings should not exceed 120°. If symmetrically loaded the shackle may be used to the full WLL.

To avoid eccentric loading of the shackle a loose spacer may be used on either end of the shackle pin. Do not reduce the width between the shackle jaws by welding washers or spacers to the inside of the shackle eyes or by narrowing the jaws, as this will affect the WLL of the shackle.



## Temperature

If extreme temperature situations occur, the following load reductions must be taken into account:

Temperature	Reduction for elevated temperatures New Working Load Limit
up to 200°C	100% of original Working Load Limit
200 - 300°C	90% of original Working Load Limit
300 - 400°C	75% of original Working Load Limit
> 400°C	not allowed

The rating of shackles to EN 13889 assumes the absence of exceptionally hazardous conditions. Exceptionally hazardous conditions include offshore activities, the lifting of persons and the lifting of potentially dangerous loads such as molten metals, corrosive materials or fissile materials. In such cases a competent person should assess the degree of hazard and the WLL should be reduced accordingly.

## Inspection

Shackles must be regularly inspected in accordance with the safety standards given in the country of use. This is required because the products in use may be affected by wear, misuse, overloading etc. which may lead to deformation and alteration of the material structure. Inspection should take place at least every six months and more frequently when the shackles are used in severe operating conditions.



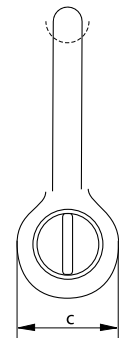
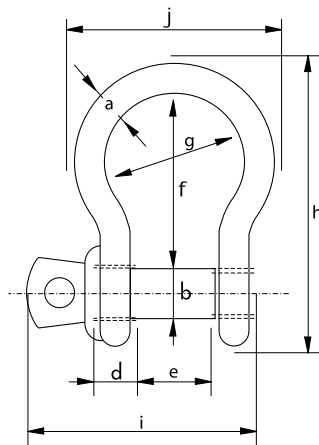
# Green Pin® Bow Shackle SC

## Standard bow shackle with screw collar pin

- **Material:** bow and pin high tensile steel, grade 6, quenched and tempered
- **Safety Factor:** MBL equals 6 x WLL
- **Standard:** EN 13889 and meets performance requirements of US Fed. Spec. RR-C-271 Type IVA Class 2, grade A, from 2 t and upward these shackles comply with ASME B30.26
- **Finish:** hot dipped galvanized
- **Temperature Range:** -40°C up to +200°C
- **Certification:** **2.1 2.2 3.1 MTC<sup>a</sup> DNV GL 0378 CE ABS PDA ABS MA**



**G-4161**



working load limit	diameter bow	diameter pin	diameter eye	width eye	width inside	length inside	width bow	length	length bolt	width	weight each
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	kg
0.33	5	6	12.0	5	9.5	22	16	36.0	29.5	26	0.02
0.50	7	8	16.5	7	12	29	20	48.5	38.0	34	0.05
0.75	9	10	20.0	9	13.5	32	22	56.0	46.5	40	0.10
1.00	10	11	22.5	10	17	36.5	26	63.5	54.0	46	0.14
1.50	11	13	26.5	11	19	43	29	74.0	59.5	51	0.19
2.00	13.5	16	34.0	13	22	51	32	89.0	73.0	58	0.36
3.25	16	19	40.0	16	27	64	43	110.0	89.0	75	0.63
4.75	19	22	46.0	19	31	76	51	129.0	103.0	89	1.01
6.50	22	25	52.0	22	36	83	58	144.0	119.0	102	1.50
8.50	25	28	59.0	25	43	95	68	164.0	137.0	118	2.21
9.50	28	32	66.0	28	47	108	75	185.0	153.0	131	3.16
12.00	32	35	72.0	32	51	115	83	201.0	170.0	147	4.31
13.50	35	38	80.0	35	57	133	92	227.0	186.0	162	5.55
17.00	38	42	88.0	38	60	146	99	249.0	203.0	175	7.43
25.00	45	50	103.0	45	74	178	126	300.0	243.0	216	12.84
35.00	50	57	111.0	50	83	197	138	331.0	272.0	238	18.15
42.50	57	65	130.0	57	95	222	160	377.0	310.0	274	26.29
55.00	65	70	145.0	65	105	260	180	433.0	344.0	310	37.6



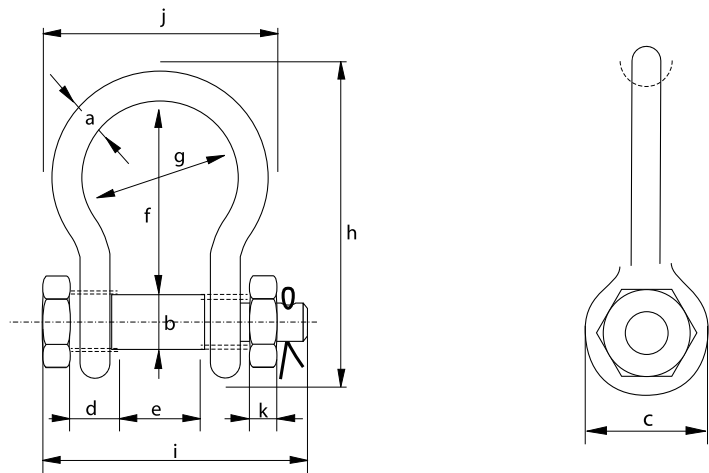
# Green Pin® Bow Shackle BN

## Standard bow shackle with safety bolt

- **Material:** bow and pin high tensile steel, grade 6, quenched and tempered
- **Safety Factor:** MBL equals 6 x WLL
- **Standard:** EN 13889 and meets performance requirements of US Fed. Spec. RR-C-271 Type IVA Class 3, grade A, from 2 t and upward these shackles comply with ASME B30.26
- **Finish:** hot dipped galvanized
- **Temperature Range:** -40°C up to +200°C
- **Certification:** 2.1 2.2 3.1 MTC<sup>a</sup> DNV GL 2.7-1<sup>a</sup>\* DNV GL 2.7-1<sup>b</sup>\* DNV GL 0378 CE ABS PDA ABS MA



G-4163



working load limit	diameter bow	diameter pin	diameter eye	width eye	width inside	length inside	width bow	length	length bolt	width	thickness nut	weight each
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	k mm	kg
0.50	7	8	16.5	7	12	29	20	48.5	42	34	4	0.06
0.75	9	10	20.0	9	13.5	32	22	56	50	40	5	0.11
1.00	10	11	22.5	10	17	36.5	26	63.5	60	46	8	0.16
1.50	11	13	26.5	11	19	43	29	74	67	51	11	0.22
2.00	13.5	16	34.0	13	22	51	32	89	82	58	13	0.42
3.25	16	19	40.0	16	27	64	43	110	98	75	17	0.74
4.75	19	22	46.0	19	31	76	51	129	114	89	19	1.18
6.50	22	25	52.0	22	36	83	58	144	130	102	22	1.77
8.50	25	28	59.0	25	43	95	68	164	150	118	25	2.58
9.50	28	32	66.0	28	47	108	75	185	166	131	27	3.66
12.00	32	35	72.0	32	51	115	83	201	178	147	30	4.91
13.50	35	38	80.0	35	57	133	92	227	197	162	33	6.54
17.00	38	42	88.0	38	60	146	99	249	202	175	19	8.19
25.00	45	50	103.0	45	74	178	126	300	249	216	23	14.22
35.00	50	57	111.0	50	83	197	138	331	269	238	26	19.53
42.50	57	65	130.0	57	95	222	160	377	301	274	29	28.33
55.00	65	70	145.0	65	105	260	180	433	330	310	32	39.59
85.00	75	83	162.0	73	127	329	190	527	380	340	39	62.00



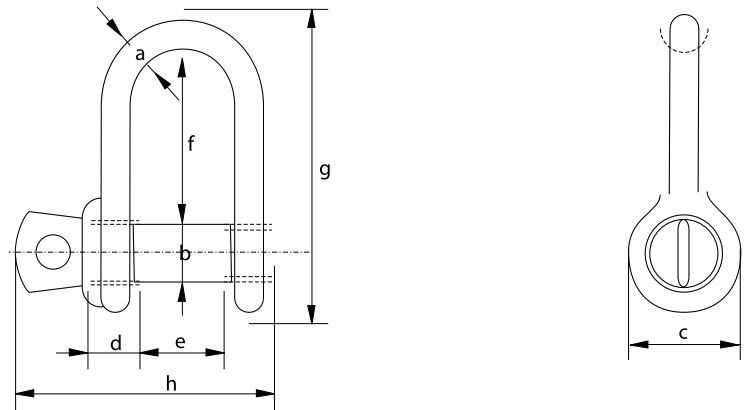
# Green Pin® Dee Shackle SC

## Standard dee shackle with screw collar pin

- **Material:** bow and pin high tensile steel, grade 6, quenched and tempered
- **Safety Factor:** MBL equals 6 x WLL
- **Standard:** EN13889 and meets performance requirements of US Fed. Spec. RR-C-271 Type IVB Class 3, grade A, from 2 t upward these shackles comply with ASME B30.26
- **Finish:** hot dipped galvanized
- **Temperature Range:** -40°C up to +200°C
- **Certification:** 2.1 2.2 3.1 MTC<sup>a</sup> DNV GL 0378 CE ABS PDA ABS MA



G-4151



working load limit	diameter bow	diameter pin	diameter eye	width eye	width inside	length inside	length	length bolt	weight each
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	kg
0.33	5	6	12.0	5	9.5	19	33	29.5	0.02
0.50	7	8	16.5	7	12	22	41.5	38	0.05
0.75	9	10	20.0	9	13.5	26	50	46.5	0.09
1.00	10	11	22.5	10	17	32	59	54	0.14
1.50	11	13	26.5	11	19	37	68	59.5	0.19
2.00	13.5	16	34.0	13	22	43	81	73	0.32
3.25	16	19	40.0	16	27	51	97	89	0.54
4.75	19	22	46.0	19	31	59	112	103	0.87
6.50	22	25	52.0	22	36	73	134	119	1.34
8.50	25	28	59.0	25	43	85	154	137	2.08
9.50	28	32	66.0	28	47	90	167	153	2.77
12.00	32	35	72.0	32	51	94	180	170	3.72
13.50	35	38	80.0	35	57	115	209	186	5.14
17.00	38	42	88.0	38	60	127	230	203	6.85
25.00	45	50	103.0	45	74	149	271	243	11.45
35.00	50	57	111.0	50	83	171	305	272	16.86
42.50	57	65	130.0	57	95	190	345	310	24.61
55.00	65	70	145.0	65	105	203	376	344	32.65





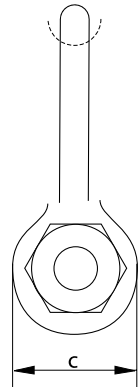
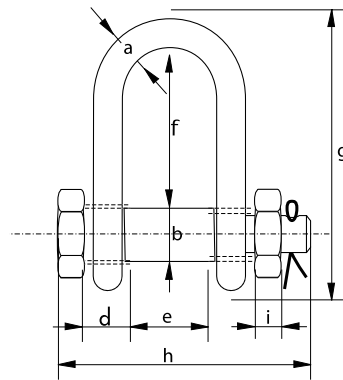
# Green Pin® Dee Shackle BN

## Standard dee shackle with safety bolt

- **Material:** bow and pin high tensile steel, grade 6, quenched and tempered
- **Safety Factor:** MBL equals 6 x WLL
- **Standard:** EN 13889, ASME B30.26 and meets performance requirements of US Fed. Spec. RR-C-271 Type IVB Class 3, grade A
- **Finish:** hot dipped galvanized
- **Temperature Range:** -40°C up to +200°C
- **Certification:** 2.1 2.2 3.1 MTC<sup>a</sup> DNV GL 2.7-1<sup>a</sup>\* DNV GL 2.7-1<sup>b</sup>\* DNV GL 0378 CE ABS PDA ABS MA



G-4153



working load limit	diameter bow	diameter pin	diameter eye	width eye	width inside	length inside	length	length bolt	thickness nut	weight each
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	kg
2.00	13.5	16	34	13	22	43	81	82	13	0.39
3.25	16	19	40	16	27	51	97	98	17	0.67
4.75	19	22	46	19	31	59	112	114	19	1.08
6.50	22	25	52	22	36	73	134	130	22	1.66
8.50	25	28	59	25	43	85	154	150	25	2.46
9.50	28	32	66	28	47	90	167	166	27	3.40
12.00	32	35	72	32	51	94	180	178	30	4.51
13.50	35	38	80	35	57	115	209	197	33	6.10
17.00	38	42	88	38	60	127	230	202	19	7.63
25.00	45	50	103	45	74	149	271	249	23	12.88
35.00	50	57	111	50	83	171	305	269	26	17.35
42.50	57	65	130	57	95	190	345	301	29	25.94
55.00	65	70	145	65	105	203	376	330	32	35.33
85.00	75	83	162	73	127	229	427	380	39	52.97



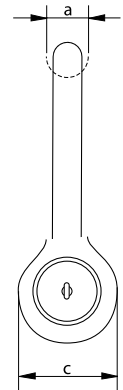
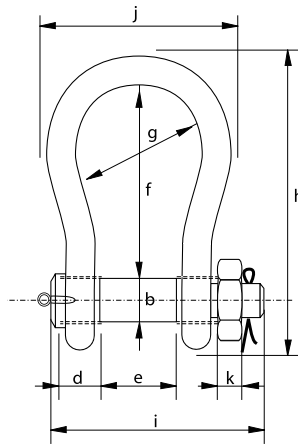
# Green Pin® Heavy Duty Bow Shackle BN

## High load capacity bow shackle with safety bolt

- **Material:** bow and pin alloy steel, grade 8 quenched and tempered
- **Safety Factor:** MBL equals 5 x WLL
- **Standard:** ASME B30.26
- **Finish:** shackle bow painted silver, pin painted green (120 tons shackle is hot dipped galvanized)
- **Certification:** **2.1** **2.2** **3.1** **MTC<sup>a</sup>** **MTC<sup>b</sup>\*** **LROS\*** **MPI<sup>a</sup>** **US<sup>a</sup>** **CE**



P-6036



working load limit	diameter bow	diameter pin	diameter eye	width eye	width inside	length inside	width bow	length	length bolt	width	thickness nut	weight each
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	k mm	kg
120	95	95	208	95	147	400	238	647	453	428	50	110
150	105	108	238	105	169	410	275	688	496	485	50	160
200	120	130	279	120	179	513	290	838	564	530	70	235
250	130	140	299	130	205	554	305	904	614	565	70	295
300	140	150	325	140	205	618	305	996	644	585	80	368
400	170	175	376	164	231	668	325	1114	690	665	70	560
500	180	185	398	164	256	718	350	1190	720	710	70	685
600	200	205	444	189	282	718	375	1243	810	775	70	880
700	210	215	454	204	308	718	400	1263	870	820	70	980
800	210	220	464	204	308	718	400	1270	870	820	70	1100
900	220	230	485	215	328	718	420	1296	920	860	70	1280
1000	240	240	515	215	349	718	420	1336	940	900	70	1460
1250	260	270	585	230	369	768	450	1456	1025	970	70	1990
1500	280	290	625	230	369	818	450	1556	1025	1010	70	2400



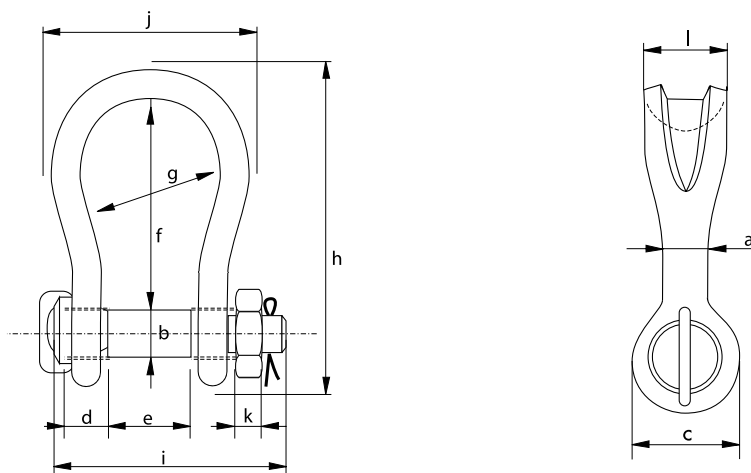
# Green Pin® Sling Shackle BN

## High load capacity bow shackle with safety bolt

- **Material:** bow and pin alloy steel, grade 8, quenched and tempered
- **Safety Factor:** MBL equals 5 x WLL
- **Finish:** shackle bow painted silver, pin painted green (7 up to 55 ton shackles are hot dipped galvanized)
- **Temperature Range:** -20°C up to +200°C
- **Certification:** **2.1 2.2 3.1 MTC<sup>b</sup> LROS<sup>\*</sup> MPI<sup>b</sup> US<sup>b</sup> CE**



P-6033



working load limit	diameter body	diameter pin	diameter eye	width eye	width inside	length inside	width bow	length	length bolt	width	thickness nut	bearing surface	weight each
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	k mm	l mm	kg
7	22	22	46	19	32	96	64	153	115	110	19	41	2
12.5	28	28	61	25	44	121	82	197	151	146	24	54	4
18	35	35	69	30	54	148	102	239	175	180	29	64	7
30	40	42	90	35	69	165	126	279	211	200	34	79	13
40	55	51	109	45	84	199	140	331	252	235	38	97	21
55	60	57	115	55	90	240	160	389	299	270	45	100	30
75	68	70	125	54	110	290	185	473	317	317	40	120	45
125	85	80	154	85	137	366	220	583	413	390	40	150	84
150	94	95	179	89	147	391	253	645	445	434	50	170	117
200	110	105	199	100	158	481	280	759	480	482	50	205	179
250	126	120	227	110	179	542	300	859	535	530	60	240	260
300	135	134	245	122	195	601	350	947	590	620	70	265	350
400	160	160	293	145	231	576	370	985	675	690	80	320	580
500	170	180	328	160	263	681	450	1131	748	790	90	339	780
600	190	200	348	170	289	741	490	1234	809	865	100	370	980
700	200	215	392	190	315	751	540	1284	879	901	100	400	1360
800	218	230	420	200	342	851	554	1426	942	947	110	420	1430
900	242	255	466	220	368	851	580	1488	1023	1023	120	440	1650
1000	260	270	490	240	399	851	614	1532	1103	1107	120	460	2970
1250	285	300	510	260	452	931	650	1666	1227	1182	150	530	3700
1550	285	320	550	280	483	950	680	1710	1300	1253	150	560	4000



# MANUAL CHAIN HOIST

## Description

A range of hoists which utilize a chain lifting method, a generally preferred option over their wire rope counterparts.

## Characteristics

- Capacity ranges from 0.5T to 50T.
- Double brake cover protection.
- Low effort to lift maximum load.
- The hoist is fitted with high grade 80 alloy load chain with T8 mark
- Fully forged hooks are fitted with safety latches as standard.
- Extra thick asbestos free friction discs.
- Automatic double pawl braking system.
- Galvanized hand chain as standard.
- Light weight robust construction.
- Complies with the machinery directive, directive 2006/42/EC.  
BS EN 13157:2004+A1:2009.

## Features

- CE, GS European Quality Certificate
- Heat treated three gears in high quality level
- High strength load sheave in ductile cast iron
- Integral sealed bearing increases mechanical efficiency
- Double pawl mechanism enhances brake safety

## Advantages

- Using Japanese Technology
- Alloy Steel Structural Steel Slate
- Quality gears
- Quenching and refining G80 Chain with T8 Mark

## Technical Parameters

Model	TPMH-010	TPMH-015	TPMH-020	TPMH-030	TPMH-050	TPMH-100	TPMH-200
Capacity(t)	1	1.5	2	3	5	10	10
Test load(t)	1.5	2.25	3	4.5	7.5	15	25
Standard Lift (mm)	3	3	3	3	3	3	3
Falls of load chain	1	1	1	2	2	4	8
Load chain size(mm)	6x18	7.1x21	8x24	7.1x21	10x30	10x30	10x30
Force of full load(N)	284	308	343	343	372	382	382x2
Net weight(kg)	11.3	16	17.7	22.5	37.25	75.5	192
Gross weight(kg)	11.6	16.3	18.1	27.4	38.3	78.5	215.5



# MANUAL LEVER HOIST

## Description

A manual hoist turns a strenuous labor-intensive work process into a highly efficient one to minimize work related musculoskeletal disorders caused by manual handling and awkward or tiring positions.

## Characteristics

- The lever hoist is a universal, manual hoist for tensioning and lashing in any direction.
- The ratchet lever hoist features compact design and robust, deep drawn, stamped steel construction.
- High quality materials ensure light weight without infringing reliability.
- Asbestos free brake, holding load at any desired height.
- Top & Bottom hooks are fitted with safety latches as standard.
- The load chain can be pulled freely and easily through the hoist in both directions to attach the load or to tension the chain.
- Shorthand lever with rubber grip.
- The hand lever operates with little effort due to optimal gear ratio.
- Drop forged steel suspension & load hooks are heat treated.
- The hoist is fitted with high grade 80 alloy load chain with T8 mark.
- Complies with EC Council Directive 2006/42/EC, Machinery.  
BS EN 13157:2004+A1:2009

## Features

- Forged and heat treated load hooks with safety latch.
- Double pawl brake system, enhanced the use security and the reliability.
- Sealed needle bearing, low handle force and more efficient
- Heat treated split load double reduction alloy gears.

## Advantages

- Hooks of easier handling shape
- Rolled-Edge hand wheel cover
- Quenching and refining G80 Load Chain with T8 mark
- Quality gears
- Tough framing

## Technical Parameters

Model	TPLH-080	TPLH-016	TPLH-032	TPLH-063	TPLH-090	
Rated Load(t)	0.8	1.6	3.2	6.3	9	
Std Lift (m)	1.5	1.5	1.5	1.5	1.5	
Test Load (t)	1.2	2.4	4.8	9.45	13.5	
Force of Full Load (N)	284	333	363	372	382	
Load chain diameter (mm)	5.6	7.1	10	10	10	
Falls of Load Chain	1	1	1	2	2	
Net weight (kg)	5.7	8	15	26	40	
Shipping weight(kg)	6	8.3	16	27	42	
Weight for additional/M(kg)	0.7	1.1	23	4.7	7	
Dimensions(mm)	a	144	159	190	190	190
	b	119	126	159	217	304
	c	280	335	395	540	680
	d	245	265	415	415	415
	e	97	100	112	112	112
	g	23.5	32	39	50	72.5
	s	35.5	42.5	50	60	85
t	14	19	24.5	34	41.5	





# SERVICES



# INSPECTION SERVICES

The Lifting Operations and Lifting Regulations 1998 (L.O.L.E.R.) requires all lifting equipment to be “thoroughly examined and inspected by a competent person”. When it comes to overhead lifting, nothing should be left to chance. Faulty, damaged, or badly maintained equipment significantly increases the risk of potentially lethal accidents, and often has serious financial and legal consequences. Regular test, examination and maintenance is critical to ensure that equipment remains fit for purpose.

Slingtek carries out professional inspection and examination services for general lifting accessories and lifting machines. Our services include testing, examination and visual inspection and certification of new or in service equipment.

## Inspection and Testing of Manual lifting Machines

Wide range of lifting equipment such as chain hoists, lever hoists, beam trolleys, winches etc.

## Inspection and Testing of Lifting accessories

Textile slings, chain slings, wire ropes and wire rope slings, shackles, etc...

# TRAINING

We do provide in-house and on-site training on various aspects of safety, lifting and height safety. Topics covered are mainly:

- **Health and Safety — Management**
- **Workplace hazards — analysis and control**
- **Height safety**
- **Basic Lifting & Rigging**

Various other training programs can be customized related to lifting and height safety based on clients needs.



**Horizontal Tension Testing Bench**



**Vertical Test Rig**

Notes: \_\_\_\_\_

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