POWER TEX **Round Slings**

SUHBO

USE AND CARE

SUHBO

Sales office *with Testing & Inspections*

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POWER TEX

Round Slings

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THE BEST QUALITY

We provide the best products through strict quality control and continuous research and development.

EASY HANDLING & LIGHT WEIGHT

It is approximately 10 times lighter than a wire rope sling, so it is easy to handle.

CONVENIENCE

It is convenient because it is easy to install and unload on site with a small nu mber of people.

TYPE OF

POWERTEX ROUNDSLING

1. BASIC TYPE

Powertex roundsling's basic type is made of Core thread(Vectran), sleeves(Polyester) and protection pad (Polyester),

Inspection way is only by visual inspection, if it looks something wrong, It'll bring back to manufacturer and proceed repairing.

TYPE OF

POWERTEX ROUNDSLING

2. POWERTEX MULTI R/S

We have received patent technology transfer
for the Multi Checking System from
Toray International Inc. of Japan.
This patent is a silver-coated yarn, so it is possible t
o check the load-bearing core material.
We place the silver-coated yarn into a round sling
and subject it to the same load
as the core material.
Since it is coated with silver, User can easily check
the condition of the core material numerically
by checking the electrical resistance.

TYPE OF

POWERTEX ROUNDSLING

3. POWERTEX TRANSPARENT R/S

We developed the Powertex transparent round sling, T he first request was received from Hyundai Heavy Industries in Korea.

To develop this, the load-bearing core thread was manufactured by Vectran and HMPE and the sleeve was woven from transparent polyester.

This is the best way to test, but more testing and research is needed.

We are currently continuing testing in the field to check whether it can be used continuously.

TYPE OF

POWERTEX ROUNDSLING

4. POWERTEX HEAT RESISTANCE R/S

For lifting high temperature cargo.
All parts of the round sling (core, sleeve, protective pad, and even sewing thread) are made of aramid fiber.
Aramid fiber is It has a melting point of 500℃.
And the heat-resistant round sling can be used in environments up to 175℃.

TYPE OF

POWERTEX ROUNDSLING

5.1 POWERTEX ANTI CUTTING R/S

Cut-resistant round slings were developed for use in environments with sharp or angled edges and rough surfaces.
It is difficult to use a normal round sling in this environment.
So we developed an anti-cutting round sling for this purpose.
Currently, we are supplying cut-resistant round slings to SeAH Steel, Hyundai Steel, and Dongkuk Steel in Korea.

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TYPE OF

POWERTEX ROUNDSLING

5.2 ANTI CUTTING PROTECTION PADS & SLEEVES

PERFORMANCE TESTING REPORT FOR ANTI CUTTING PROTECTION PADS

ITEM	INSIDE WIDTH (MM)	INSIDE WIDTH (inch)	BREAKING LOAD PER INCH (Tonnes)	ACTUAL TEST BREAKING LOAD (Tonnes)	PROTECTION PAD CUTTING LOAD (Tonnes)	ROUNDSLING W.L.L (Tonne)
* ROUNDSLING WITH TUBE TYPE ANTI CUTTING PROTECTION SLEEVES						
EPS085	85	3.4	13.8ton	46.9ton	45.0ton	15.0ton
EPS115	115	4.6	13.5ton	61.9ton	60.0ton	20.0ton
EPS135	135	5.4	14.8ton	79.7ton	75.0ton	25.0ton
EPS165	165	6.6	15.2ton	100.3ton	90.0ton	30.0ton
EPS200	200	8	22.3ton	178.1ton	135.0ton	45.0ton
EPS230	230	9.2	26.2ton	241.0ton	152.0ton	50.0ton
* ROUNDSLING WITH VELCRO TYPE ANTI CUTTING PROTECTION PAD (SINGLE LAYER)						
EPSV075	75	3	14.0ton	42.0ton	40.0ton	10.0ton
EPSV090	90	3.6	14.2ton	51.0ton	49.0ton	15.0ton
EPSV125	125	5	15.4ton	77.0ton	75.0ton	25.0ton
EPSV175	175	7	17.7ton	124.0ton	110.0ton	35.0ton
EPSV200	200	8	22.3ton	178.1ton	135.0ton	45.0ton
* ROUNDSLING WITH VELCRO TYPE ANTI CUTTING PROTECTION PAD (DOUBLE LAYER)						
EPDV090	90	3.6	17.5ton	63.0ton	60.0ton	20.0ton
EPDV110	110	4.4	17.0ton	75.0ton	78.0ton	25.0ton
EPDV130	130	5.2	18.3ton	95.0ton	90.0ton	30.0ton
* EPDV160	160	6.4	20.3ton	130.0ton	122.0ton	40.0ton
EPDV200	200	8	25.1ton	200.8ton	192.0ton	60.0ton
* EPDV240	240	9.45	29.1ton	275.0ton	265.0ton	85.0ton

EPS TYPE

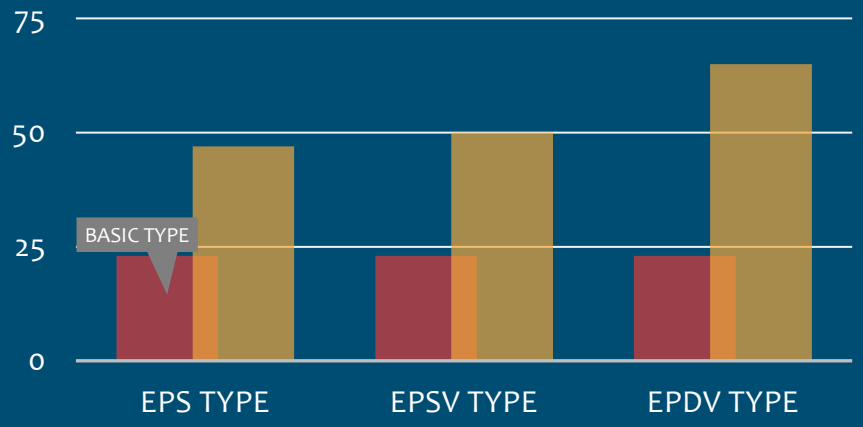
EPSV TYPE

EPDV TYPE

※ ***Warning***

- ***The anti-cutting protector was tested with a round sling that exceeded the anticipated breaking load.***
- ***The load per area in contact with the anti cutting protector should not exceed a maximum of 1,300kgf/cm.***

EDGE PROTECTION EFFICIANCY(%)



ANTI CUTTING SLEEVES & PADS

. When the breaking load was tested on the r=1 corner jig,
the breaking load was 23% for the regular cover,
48% for the anti-cutting sleeves type,
55% for the anti-cutting single layer Velcro type,
and 65% for the anti-cutting double layer Velcro type. Performance is shown in comparison.

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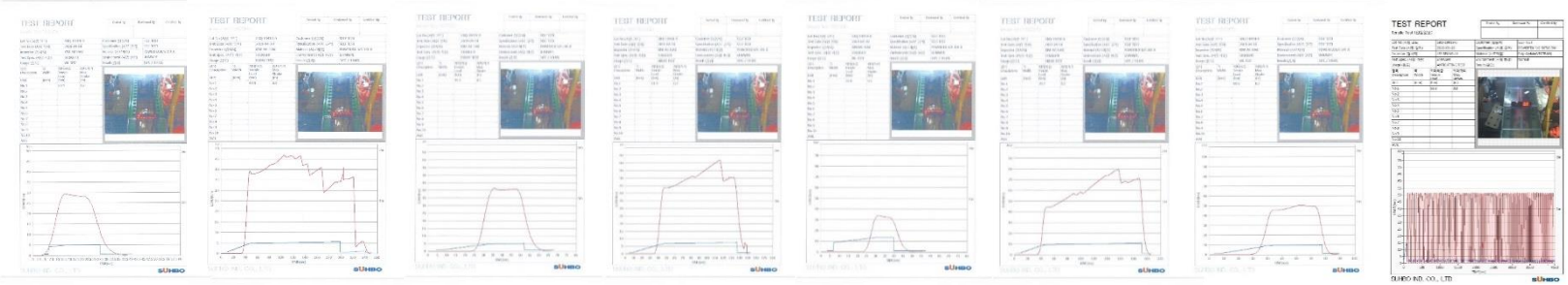
ANTI CUTTING SLEEVE & PAD TESTING







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IDENTIFICATION :

Powertex roundsling marked to show by label:

- The rated load for the types of hitches, and the angle upon which they are based,
- Effective Length(EL) and Safety factor(SF)
- The core material
- The name or trademark of the manufacturer (Suhbo Ind Co.,Ltd),
- The powertex's code or stock number, and
- Operating warning
- Multi checking system if it's powertex-multi roundsling

Rated loads:

Rated loads (capacities) for single-leg vertical, choker, basket hitches, and Horizontal angle degree are as shown in Table 1.

POWER TEX Round Slings

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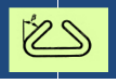
(Table 1)Rated Load for Single-Leg Powertex Multi Roundslings: Endless and Eye-and Eye Type Expressed in Tonnes

W.L.L	WORKING LOAD LIMITS IN TONNES						
	M : 1.0	M : 0.8	M : 2.0	M : 1.4	M : 1.0	M : 1.4	M : 1.0
							
	VERTICAL LIFT	CHOKED LIFT	BASKET HITCH			TWO LEG SLING	
			Parallel	β = 0 to 45°	β = 45° to 60°	β = 0 to 45°	β = 45° to 60°
5.0TON	5.0TON	4.0TON	10.0TON	7.0TON	5.0TON	7.0TON	5.0TON
10.0TON	10.0TON	8.0TON	20.0TON	14.0TON	10.0TON	14.0TON	10.0TON
20.0TON	20.0TON	16.0TON	40.0TON	28.0TON	20.0TON	28.0TON	20.0TON
30.0TON	30.0TON	24.0TON	60.0TON	42.0TON	30.0TON	42.0TON	30.0TON
40.0TON	40.0TON	32.0TON	80.0TON	56.0TON	40.0TON	56.0TON	40.0TON
50.0TON	50.0TON	40.0TON	100.0TON	70.0TON	50.0TON	70.0TON	50.0TON
60.0TON	60.0TON	48.0TON	120.0TON	84.0TON	60.0TON	84.0TON	60.0TON
75.0TON	75.0TON	60.0TON	150.0TON	105.0TON	75.0TON	105.0TON	75.0TON
80.0TON	80.0TON	64.0TON	160.0TON	112.0TON	80.0TON	112.0TON	80.0TON
100.0TON	100.0TON	80.0TON	200.0TON	140.0TON	100.0TON	140.0TON	100.0TON
120.0TON	120.0TON	96.0TON	240.0TON	168.0TON	120.0TON	168.0TON	120.0TON
150.0TON	150.0TON	120.0TON	300.0TON	210.0TON	150.0TON	210.0TON	150.0TON
200.0TON	200.0TON	160.0TON	400.0TON	280.0TON	200.0TON	280.0TON	200.0TON
250.0TON	250.0TON	200.0TON	500.0TON	350.0TON	250.0TON	350.0TON	250.0TON
300.0TON	300.0TON	240.0TON	600.0TON	420.0TON	300.0TON	420.0TON	300.0TON
350.0TON	350.0TON	280.0TON	700.0TON	490.0TON	350.0TON	490.0TON	350.0TON
400.0TON	400.0TON	320.0TON	800.0TON	560.0TON	400.0TON	560.0TON	400.0TON
500.0TON	500.0TON	400.0TON	1000.0TON	700.0TON	500.0TON	700.0TON	500.0TON

GENERAL NOTES:

(a) Roundslings are identified by the vertical rated load shown on the sling identification.

(b) The maximum length we can provide is 50M (Diameter, Cir.Length = 100M).

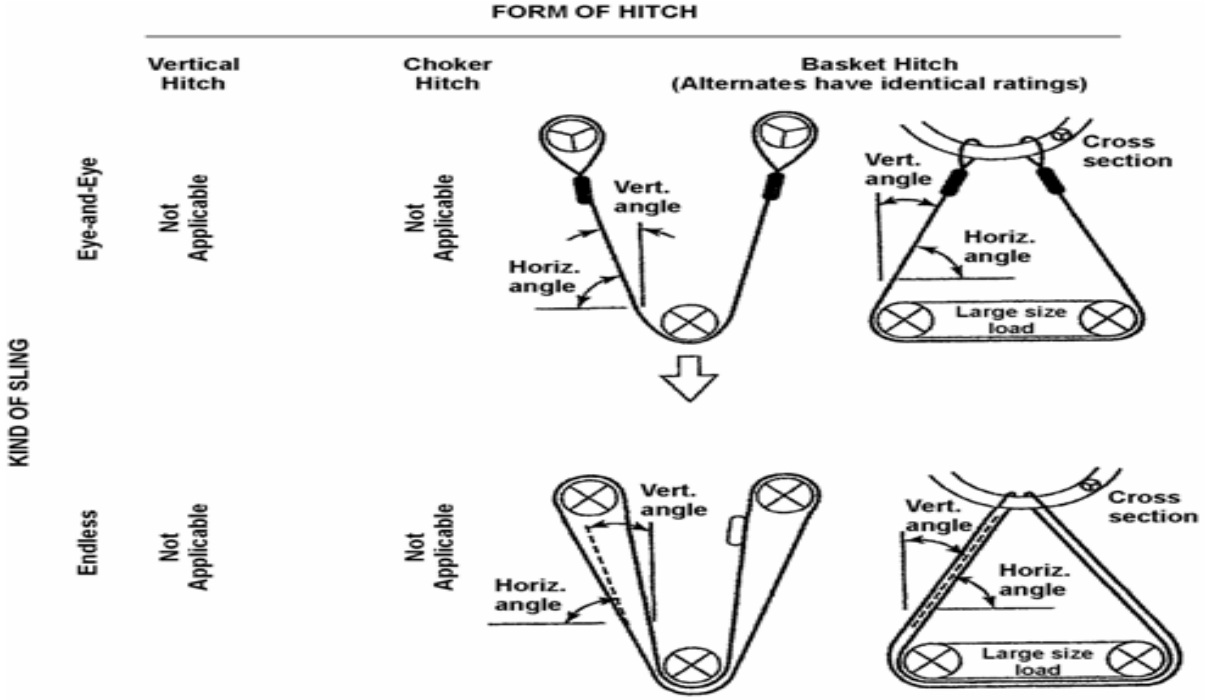
For angles not shown, use the next lower angle or

a qualified person to calculate the rated load.

Rated loads are based on:

- Material strength,
- Design factor,
- Type of hitch,
- Angle of loading (see fig.1), and
- Diameter of curvature over which the sling is used.

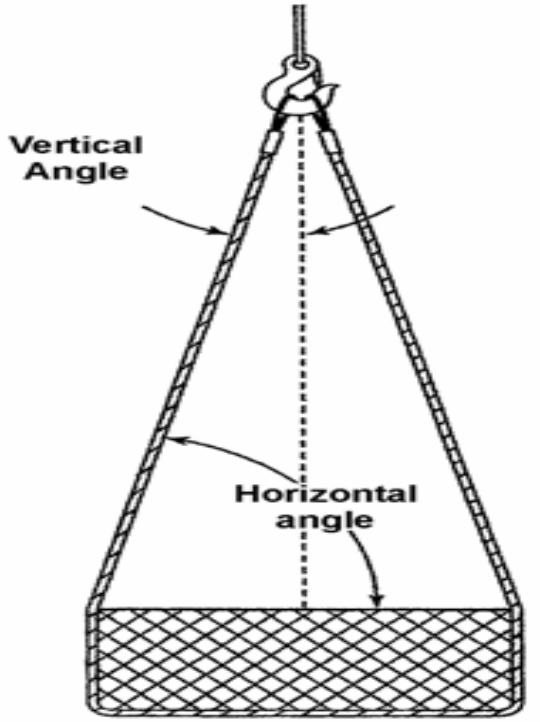
Fig.1) Angle of Loading



Do not use horizontal angles less than 30 degrees except as recommended by the sling manufacturer or a qualified person.

The rated load for a sling in a choker hitch is the value in Table.1 provided that the angle of the choke is 120 degrees or more (see Fig.2).

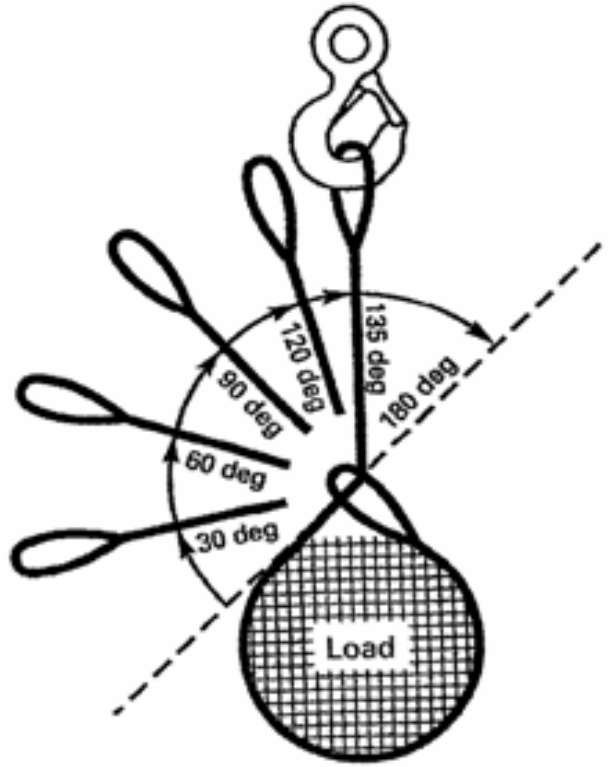
Fig.2) Angle of Choke



For angles of choke less than 120 degrees, use the rated loads provided by Suhbo Ind Co.,Ltd or a qualified person.

For other synthetic round sling materials and for configurations not shown, use the rated loads provided by the sling manufacturer or a qualified person.

Fig.3) Angle of Choke



Refer to the table below for the operating load by angle.

Angle of Choke	S.W.L (%)
Over 120	100
90-120	87
60-89	74
30-59	62
0-29	49

FITTING :

Ensure that mechanical fittings used as

part of a synthetic round sling meet the following:

- Materials are compatible with the mechanical and environmental requirements of the sling,
- Fittings have a rated load at least the same as the round sling,
- Fittings have sufficient strength to sustain twice the rated load of the sling without visible permanent deformation, and
- Surfaces are clean, and sharp edges are removed.

POWER TEX Round Slings

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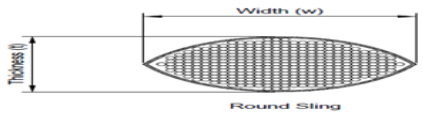
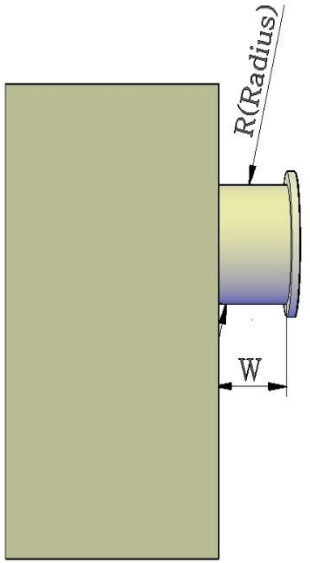
SPEC. & RIGGING INFORMATION

It is difficult to set a regulation for the fitting of round sling. This is because cover sleeve width, core thread type, manufacturing method vary among manufactures. For customers using round sling manufactured by us, We will inform you as follows to fit the lug and shackle according to the size of our round sling.

Specification of Powertex roundsling

W.L.L (Tonnes)	Roundsling Cover sleeve's Width(mm)	Roundsling Normal width(mm)	Roundsling width under load (w)	Thickness of sling under load (t)	Minimum Recommended Lug Width, W	Minimum Recommended Hardware Diameter	Minimum bending radius, R	Roundsling Weight (kg/M)
* Powertex roundsling, SF = 7:1								
10T	85mm	54mm	74mm	8mm	52mm	25mm	12.5mm	1.1kg
15T	85mm	54mm	74mm	11mm	65mm	28mm	14.2mm	1.5kg
20T	95mm	61mm	83mm	14mm	65mm	34mm	17.0mm	1.8kg
25T	113mm	72mm	98mm	16mm	75mm	36mm	18.0mm	2.3kg
30T	113mm	72mm	98mm	19mm	88mm	37mm	18.5mm	2.6kg
35T	128mm	82mm	111mm	20mm	90mm	45mm	22.5mm	3.1kg
40T	128mm	82mm	111mm	23mm	100mm	45mm	22.5mm	3.5kg
50T	135mm	86mm	117mm	25mm	105mm	52mm	26.0mm	4.2kg
60T	145mm	92mm	126mm	28mm	110mm	65mm	32.5mm	5.0kg
70T	155mm	99mm	135mm	31mm	118mm	73mm	36.5mm	5.9kg
80T	175mm	111mm	152mm	33mm	125mm	82mm	41.0mm	6.6kg
100T	200mm	127mm	174mm	38mm	145mm	89mm	44.5mm	8.2kg
120T	230mm	146mm	200mm	39mm	170mm	96mm	48.0mm	9.8kg
150T	270mm	172mm	235mm	41mm	190mm	108mm	54.0mm	12.0kg
200T	270mm	172mm	235mm	49mm	232mm	121mm	60.5mm	16.1kg
250T	300mm	191mm	261mm	54mm	260mm	130mm	65.0mm	19.7kg
280T	300mm	191mm	261mm	60mm	260mm	150mm	75.0mm	21.0kg
300T	300mm	191mm	261mm	68mm	260mm	155mm	77.5mm	26.5kg
350T	360mm	229mm	313mm	75mm	310mm	168mm	84.0mm	30.0kg
400T	400mm	255mm	350mm	90mm	360mm	180mm	90.0mm	33.0kg



POWER TEX Round Slings

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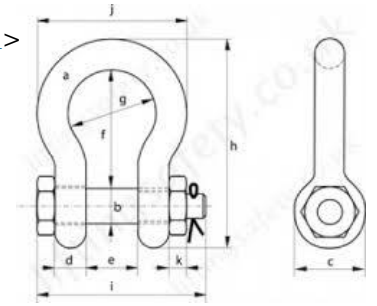
Roundsling for the purpose of engaging a shackles

A) CROSBY G-209 & G-2130, GREENPIN G-4161 & G-4163, Ω TYPE

Material : High Tensile Steel, Effective Width of Curved surface is only 75% of Width

SWL (t)	Norminal Shackle Width (fig.1 : g)	Effective shackle width (75%)	Polyester roundsling SWL (t)	Powertex Roundsling SWL (t)
0.33	15.2mm	11.4mm		
0.5	20.0mm	15.0mm		
0.75	22.0mm	16.5mm		
1	26.0mm	19.5mm		
1.5	29.0mm	21.8mm		
2	32.0mm	24.0mm		
3.25	43.0mm	32.3mm		3.25
4.75	51.0mm	38.3mm	3	4.75
6.5	58.0mm	43.5mm	4	6.5
8.5	68.5mm	51.4mm	6	8.5
9.5	75.0mm	56.3mm	8	9.5
12	83.0mm	62.3mm	8	12
13.5	92.0mm	69.0mm	10	13.5
17	99.0mm	74.3mm	15	17
25	127.0mm	95.3mm	20	25
35	138.0mm	103.5mm	30	35
55	180.0mm	135.0mm	55	55

<fig.1>



<G-209>

<G-4161>

<G-2130>

<G-4163>

POWER TEX Round Slings

SUHBO

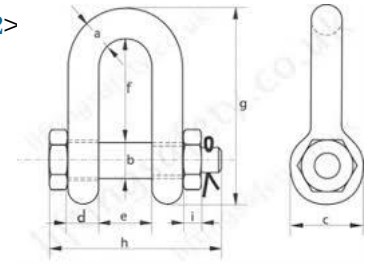
Roundsling for the purpose of engaging a shackles

B) CROSBY G-210 & G-215, GREENPIN G-4151 & 4153, D TYPE

Material : High Tensile Steel, Effective Width of Curved surface is only 75% of Width

SWL (t)	Norminal Shackle Width (fig.2 : g)	Effective shackle width (75%)	Polyester roundsling SWL (t)	Powertex Roundsling SWL (t)
0.33	9.5mm	7.1mm		
0.5	12.0mm	9.0mm		
0.75	13.5mm	10.1mm		
1	17.0mm	12.8mm		
1.5	19.0mm	14.3mm		
2	22.0mm	16.5mm		
3.25	27.0mm	20.3mm		
4.75	31.0mm	23.3mm	3	
6.5	36.0mm	27.0mm	3	
8.5	43.0mm	32.3mm	3	
9.5	47.0mm	35.3mm	3	
12	51.0mm	38.3mm	4	
13.5	57.0mm	42.8mm	4	10
17	60.0mm	45.0mm	6	15
25	74.0mm	55.5mm	8	20
35	83.0mm	62.3mm	8	25
55	105.0mm	78.8mm	20	40

<fig.2>



<G-210>

<G-4151>

<G-215>

<G-4153>

POWER TEX Round Slings

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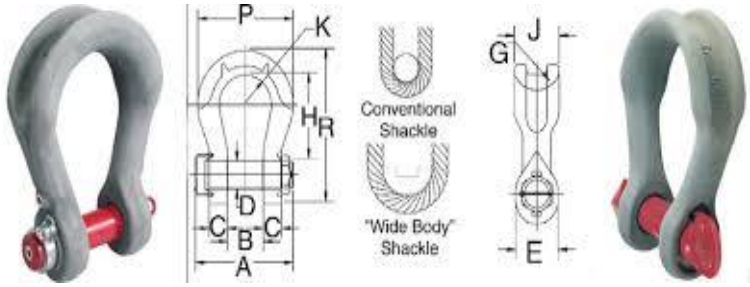
Roundsling for the purpose of engaging a shackles

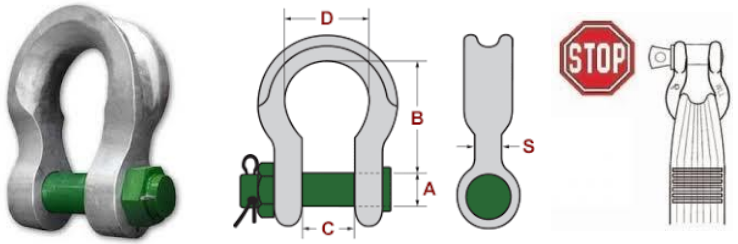
C) CROSBY G-2160, GREENPIN P-6033, WIDE BODY TYPE

Material : ALLOY STEEL, Effective Width of Curved surface is only 75% of Width

SWL (t)	Norminal Shackle Width (fig.3 : g)	Effective shackle width (75%)	Polyester roundsling SWL (t)	Powertex Roundsling SWL (t)
7	64.0mm	48.0mm	5	7
12.5	82.0mm	61.5mm	10	12.5
18	102.0mm	76.5mm	15	18
30	126.0mm	94.5mm	25	30
40	140.0mm	105.0mm	30	40
55	160.0mm	120.0mm	40	55
75	185.0mm	138.8mm		75
125	220.0mm	165.0mm		125
150	253.0mm	189.8mm		150
200	280.0mm	210.0mm		200
250	300.0mm	225.0mm		250
300	350.0mm	262.5mm		300
400	370.0mm	277.5mm		400
500	450.0mm	337.5mm		500
700	540.0mm	405.0mm		700
800	554.0mm	415.5mm		800



<G-2160, CROSBY WIDE BODY SHACKLE>



<fig 3, P-6033, GREENPIN SLING SHACKLE>

POWER TEX Round Slings

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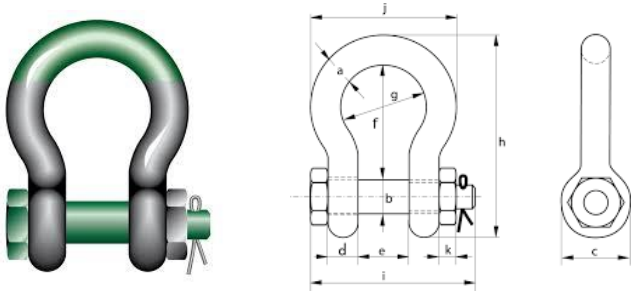
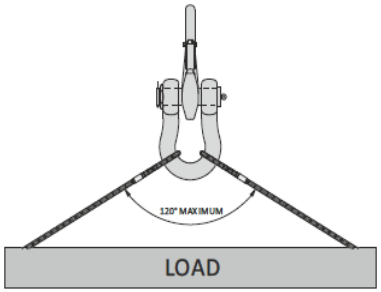
Roundsling for the purpose of engaging a shackles

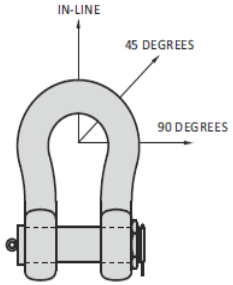
D) CROSBY ANCHOR SHACKLE, G-2140 / GREENPIN SUPER SHACKLES, G-5263
Material : ALLOY STEEL, Effective Width of Curved surface is only 75% of Width

SWL (t)	Norminal Shackle Width (fig.4 : g)	Effective shackle width (75%)	Polyester roundsling SWL (t)	Powertex Roundsling SWL (t)
3.3	32.0mm	24.0mm	1	
5	43.0mm	32.3mm	2	
7	51.0mm	38.3mm	3	
9.5	58.0mm	43.5mm	4	
12.5	68.0mm	51.0mm	6	10
15	75.0mm	56.3mm	8	12
18	83.0mm	62.3mm	8	15
21	92.0mm	69.0mm	10	20
30	99.0mm	74.3mm	15	25
40	126.0mm	94.5mm	20	40
55	138.0mm	103.5mm	30	55
85	180.0mm	135.0mm	40	85
120	190.0mm	142.5mm		100
150	238.0mm	178.5mm		150
175	275.0mm	206.3mm		175



<fig 4, P-5263, GREENPIN SUPER SHACKLE>





Load angle	*Reduction for side loading*
0°	*100% of SWL*
45°	*70% of SWL*
90°	*50% of SWL*

INSPECTION :

Designate a qualified person(or Suhbo) to inspect slings and attachments each day before use for damage or defects.

This qualified person also performs additional periodic inspections where service conditions warrant, as determined on the basis of:

- Frequency of sling use,
- Severity of service conditions,
- Nature of lifts being made, and
- Experience gained during the service life of slings used in similar circumstances.

POWER TEX Round Slings

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Make periodic inspections of synthetic round slings at intervals no greater than 12 months.

A good guide to follow includes:

- Yearly for normal service use,
- Monthly to quarterly for severe service, and
- As recommended by a qualified person for special and infrequent service use.

POWER TEX **Round Slings**

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INSPECTION LIST

Inspection date : (yy,mm,dd)

No	Dept.	Spec.	Serial No	Pollution rate	Damage to cover sleeves	Exposure of core thread	Result
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
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SUHBO

POWER TEX **Round Slings**

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Make a thorough inspection of slings and attachments. Items to look for include:

- Missing or illegible sling identification,

POWER TEX Round Slings

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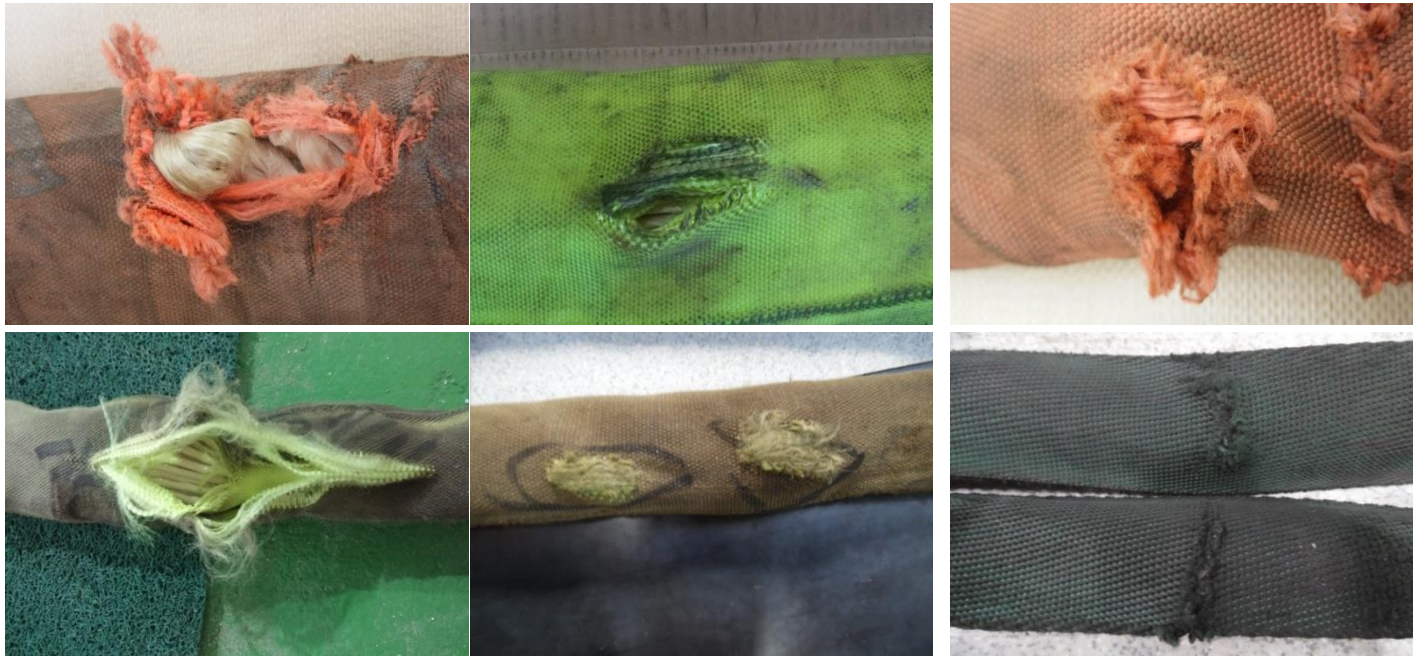
- Acid or caustic burns,
- Evidence of heat damage,
- Holes, tears, cuts, abrasive wear, or snags, that expose the core yarn,



POWER TEX Round Slings

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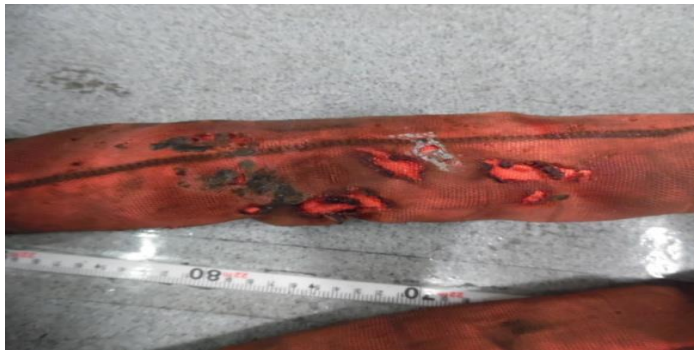
- Broken or damaged core yarns,

- Welding splatter that exposes core yarns,



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- Knots in the round sling body, except for core yarn knots inside the cover,
- Discoloration and brittle or stiff areas on any part of the sling,
- Pitted, corroded, cracked, bent, twisted, gouged, or broken fittings, and
- Other conditions that cause doubt as to the continued use of the sling.

Where any such damage or deterioration is present,
remove the sling or attachment from service immediately.

REPAIR & DISCARD :

Do not use worn or damaged slings or attachments.

Discard or repair them.

Use damaged slings only after they are repaired, reconditioned,

and proof tested by the sling manufacturer or a qualified person using the

following criteria:

POWER TEX **Round Slings**

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- Ensure that the manufacturer or a qualified person performs repairs,
- Do not repair cracked, broken, melted, or damaged fittings or attachments,
- Do not repair melted or damaged internal yarns,
- Do not make any temporary repairs of round slings or fittings, and

Mark repaired slings to identify who made the repairs.

OPERATING PRACTICES :

Ensure that Powertex round slings have suitable characteristics for the type of load, hitch, and environment in which they will be used and that they are not used with loads in excess of the rated load capacities described in the appropriate tables.

Consult the sling manufacturer for slings not included in the table.

Follow other safe operating practices, including:

SLING SELECTION :

- For multiple-leg slings used with nonsymmetrical loads, ensure that an analysis by a qualified person is performed to prevent overloading of any leg,
- Ensure that multiple-leg slings are selected according to Table.1 when used at the specific angles given in the table. Ensure that operations at other angles are limited to rated loads of the next lower angle given in the table or calculated by a qualified person, and
- Ensure that the fitting is the proper shape and size to ensure that it is seated properly in the hook or lifting device.

CAUTION TO PERSONNEL :

- Ensure that all portions of the human body are kept away from the areas between the sling and the load and between the sling and the crane or hoist hook,
- Ensure that personnel never stand in line with or next to the legs of a sling that is under tension,
- Ensure that personnel do not stand or pass under a suspended load,
- Ensure that personnel do not ride the sling or the load, unless the load is specifically designed and tested for carrying personnel, and
- Do not use synthetic round slings as bridles on suspended personnel platforms.

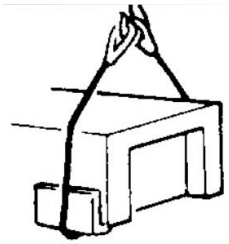
EFFECTS OF ENVIRONMENTS:

- Store slings in an area where they will not be subjected
  to mechanical, chemical, or ultraviolet damage,
  or to extreme temperatures, and
  When slings are exposed to extreme temperatures,

  follow the guidance provided by the sling manufacturer or qualified person.

RIGGING PRACTICES :

- Ensure that slings are hitched in a manner providing control of the load,
- Ensure that sharp edges in contact with slings are padded with material of sufficient strength to protect the sling,



- Ensure that slings are shortened or adjusted only by methods approved by the sling manufacturer or a qualified person,

RIGGING PRACTICES :

- Ensure that, during lifting with or without a load,
  personnel are alert for possible snagging,
- Ensure that, in a basket hitch, the load is balanced to prevent slippage,

- When using a basket hitch, ensure that the legs of the sling contain or support
  the load from the sides, above the center of gravity,
  so that the load remains under control,

RIGGING PRACTICES :

- Ensure that, in a choker hitch, the choke point is only on the sling body, never on a splice or fitting,
- Ensure that, in a choker hitch, an angle of choke less than 120 degrees is not used without reducing the rated load,
- Ensure that slings are not constricted, bunched, or pinched by the load, hook, or any fitting,

RIGGING PRACTICES :

- Ensure that the load applied to the hook is centered in the base (bowl) of the hook to prevent point loading on the hook, unless the hook is designed for point loading,
- Ensure that an object in the eye of a sling is not wider than one-third the length of the eye,
- Do not shorten or lengthen a sling by knotting or twisting,

RIGGING PRACTICES :

- Do not rest loads on the sling,
- Do not pull a sling from under a load when the load is resting on the sling,
- Do not drag slings on the floor or over abrasive surfaces,
- Do not allow shock loading, and
- Avoid twisting and kinking.

PROOF TEST :

Before initial use, ensure that all synthetic round slings incorporating previously used or welded fittings are proof tested by the manufacturer or a qualified person.

Other new synthetic round slings and fittings need not be proof tested, although the employer may require proof testing in purchasing specifications.

ENVIRONMENTAL EFFECTS :

Temperature

Do not allow Powertex round slings to be used in contact with objects or at temperatures in excess of 194 degrees F (90 degrees C), or below minus 40 degrees F (minus 40 degrees C).

Some synthetic yarns do not retain their breaking strength during long-term exposure above 140 degrees (60 degrees C).
Consult the sling manufacturer for the effects of long-term heat exposure.

ENVIRONMENTAL EFFECTS :

Sunlight & Ultraviolet

Long-term exposure to sunlight or ultraviolet radiation can affect the strength of powertex round slings.

Consult the sling manufacturer for proper retirement criteria for powertex round slings subjected to long-term storage or use in sunlight.

ENVIRONMENTAL EFFECTS :

Chemical

Chemically active environments can affect the strength of synthetic round slings.

Consult the manufacturer before using a sling in such environments.

Ensure that in chemically active environments the cover is the same yarn as the load-bearing core.

Gallery

POWER TEX Round Slings

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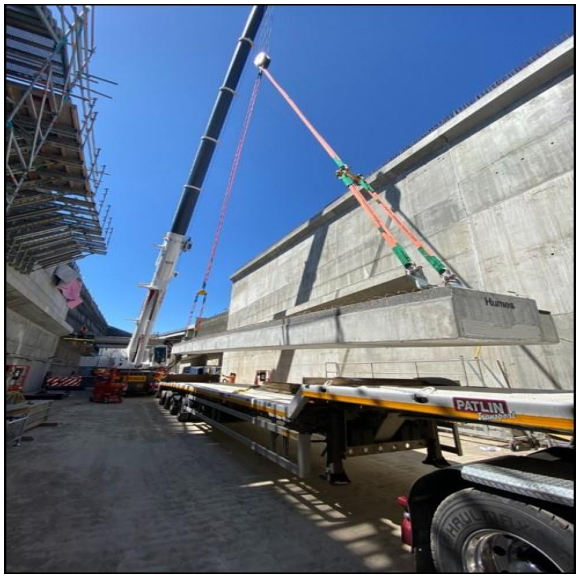

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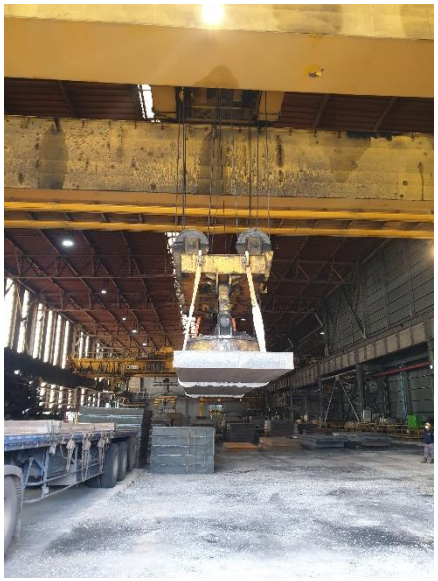
Gallery



Thank you