



SLING SAVER FITTINGS

With Product Warnings and Application Information

Lifting the World into the Future!



Cover protects sling as well as keeps it positioned correctly.

Pin threads into shackle and is secured with locknut. No retaining pin to snag the sling material.

Crosby, a world leader in lifting accessories, has developed the first full line of fittings designed for use with synthetic slings. For a "Systems" approach to rigging hardware for synthetics, Crosby's Sling Saver line is the choice.

Spool reduces sling wear.

Design allows for easy connection to other fittings.



Crosby's new Sling Saver line is designed to eliminate "bunching". The result: The full efficiency of the synthetic sling (Round or Webbing) can be achieved. Conventional hardware can reduce the efficiency of the sling significantly. Available in sizes 1.5" to 3" (35mm - 75mm). Capacity: 3-1/4 Tons to 8-1/2 Tons (2.95t-7.70t) Working Load Limit.

Sling Saver®

Crosby®

WITH CROSBY'S NEW SLING SAVER® LINE OF HARDWARE, YOU WILL GET THE FULL RATED STRENGTH OF THE SLING AND EXTEND ITS LIFE.

RECOMMENDED APPLICATION CHART

RECOMMENDED APPLICATION CHART		
APPLICATION	USE	COMMENTS
Web Slings, connect to Pad Eye, Eye Bolt, or Lifting Lug.	S-281 Sling Saver Web Sling Shackle – page 99	<p>Always Ensure Rated Working Load Limits are Greater than the Load Placed on the Fitting.</p> <p>Designed for use with Type III (Eye & Eye), Class 7, 2 ply webbing & Synthetic Round Slings. Also accommodates single ply and endless slings.</p>
Web Slings or Roundslings, connecting to Pad Eye, Eye Bolt, or Lifting Lug.	S-253 or S-252 Sling Saver Shackle – page 100	
Connect two S-252 or S-253 Sling Saver shackles together.	S-256 Link Plate – page 101	
To keep the load centered on the Pin, thus keeping the sling positioned correctly in the shackle bow.	S-255 Spool – page 101	
Web Slings or Roundslings connecting to Master Links, Rings, or Crosby 320N Eye Hooks.	S-280 Sling Saver Web Connector with spool – page 98	
High Strength, High Capacity Web or Roundslings.	WSL-320A Synthetic Sling Hook – page 102	
Choking with Web Slings or Roundslings.	S-287 Sliding Choker Hook – page 103	
Master Links or Master Link Assembly to be sewn into eye of Web Sling or attached utilizing web connector.	Welded Master Link A-344 and Master Link Assembly A-347 – pages 245 - 246	
Master Links or Master Link Assembly to be sewn into eye of Web Sling or attached utilizing web connector.	Welded Master Link A-342 and Master Link Assembly A-345 – pages 160 - 161	
Connecting High Performance slings to master links or eye hooks and to other High Performance slings.	S-237 or S-238 High Performance Connectors – page 104	
Wide Body Shackles greatly improve wearability of wire rope slings.	S/G-2160 “Wide Body” bolt type Shackles – pages 84 - 85 S/G-2169 “Wide Body” Screw Pin Shackles – page 78	

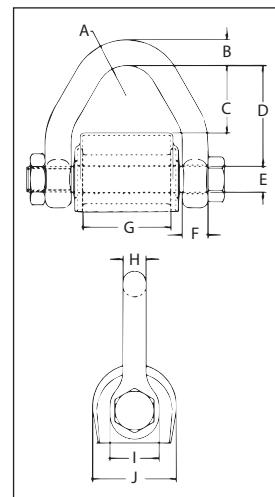
Crosby Sling Saver hardware meets the requirements for minimum stock diameter or thickness and effective contact width shown in the recommended standard specification for synthetic Polyester Round Slings by the Web Sling and Tie Down Association. WSTDA-RS1 (revised 2010).



S-280



- All Alloy construction.
- Durable vinyl cover that:
 - Protects sling at eye
 - Keeps sling positioned correctly on spool.
- Design Factor of 5:1.
- Connects Synthetic Web and Synthetic Round Slings to conventional Crosby hardware.
- Makes a field assembled bridle quick and eas .
- No retaining pin to snag sling material.
- Increased radius of spool gives wider sling bearing surface resulting in an increased area for load distribution, thus:
 - Increasing Synthetic Sling efficiency as compared to standard anchor and chain shackle bows and conventional eye hooks. This allows 100% of the slings rated Working Load Limit to be achieved.
 - Allowing better load distribution on internal fibers.
- Replacement kit for spool and web cover available.
- Designed for use with Type III (Eye & Eye), Class 7, 2 ply webbing & Synthetic Round Slings. Also accommodates single ply and endless slings.



Crosby Sling Saver hardware meets the requirements for minimum stock diameter or thickness, and effective contact width shown in the Recommended Standards Specification for Synthetic Polyester Round Slings by the Web Sling & Tie Down Association. WSTDA-RS1.

S-280 Web Connector

Round Sling Size (No.)	Web Slings*			Working Load Limit (t)†	S-280 Stock No.	Weight Each (kg)	Dimensions (mm)									
	Webbing Width (mm)	Eye Width (mm)	Ply				A	B	C	D	E	F	G	H	I	J
1 & 2	50	50	2	2.95	1021681	.68	19.1	15.7	41.4	62.0	16.0	15.7	68.5	14.2	30.2	51.5
3	75	35	2	4.08	1021690	.86	19.1	17.5	27.9	51.0	19.1	17.5	55.5	15.2	35.1	59.5
4	100	50	2	5.67	1021700	1.32	19.1	20.6	42.2	65.0	22.4	19.1	68.5	17.5	41.1	62.5
5 & 6	150	75	2	7.70	1021709	2.31	25.4	23.9	62.5	89.0	25.4	22.4	93.5	22.4	47.8	72.0

*Designed for use with Type III, (Eye & Eye), Class 7, 2 Ply web slings. For 3" and larger webbing width, tapered eye is required. † Maximum Proof Load is 2 times the Working Load Limit.

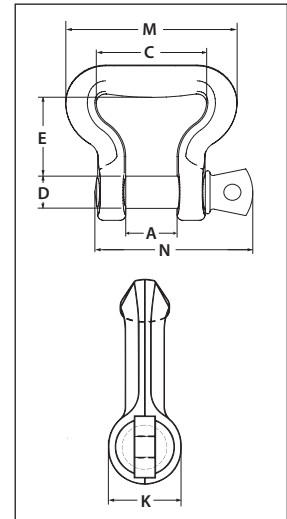
Sling Saver® Web Sling Shackles



S-281

Web Sling Shackle is designed to connect Synthetic Web Slings and Synthetic Round Slings to eyebolts, pad eyes, and lifting lugs.

- All Alloy Construction.
- Design Factor of 5:1.
- Each shackle has a Product Identification Code (PIC) for material traceability along with a Working Load Limit and the name Crosby forged into it.
- Incorporates same ear spread and pin dimensions as conventional Crosby Shackles. Allows easy connection to pad eyes, eye bolts, and lifting lugs.
- Increased radius of bow gives wider sling bearing surface resulting in an increased area for load distribution, thus:
 - Increasing Synthetic Sling efficiency as compared to standard anchor and chain shackle bows and conventional eye hooks. This allows 100% of the sling's rated Working Load Limit to be achieved.
 - Allows better load distribution on internal fibers
- Meets or exceeds all requirements of ASME B30.26 including identification, ductility, design factor, proof load and temperature requirements. Importantly, these shackles meet other critical performance requirements including fatigue life, impact properties and material traceability, not addressed by ASME B30.26.
- Look for the Red Pin® ... The mark of genuine Crosby Quality.



Sling Saver
Fittings



Crosby Sling Saver hardware meets the requirements for minimum stock diameter or thickness, and effective contact width shown in the Recommended Standards Specification for Synthetic Polyester Round Slings by the Web Sling & Tie Down Association. WSTDA-RS1.

S-281 Web Sling Shackle

Round Sling Size (No.)	Web Slings*			Working Load Limit (t)†	S-281 Stock No.	Weight Each (kg)	Dimensions (mm)						
	Webbing Width (mm)	Eye Width (mm)	Ply				A	C	D	E	K	M	N
1 & 2	50	50	2	2.95	1021048	.54	26.9	63.5	19.1	41.1	31.0	97.5	85.0
3	75	35	2	4.08	1021057	.68	31.8	51.0	22.4	38.1	35.8	86.0	101
4	100	50	2	5.67	1021066	1.13	36.6	63.5	25.4	51.0	41.1	107	114
5 & 6	150	75	2	7.70	1021075	1.95	42.9	92.0	28.7	70.0	46.7	143	130

*Designed for use with Type III, (Eye & Eye), Class 7, 2 Ply web slings. For 3" and larger webbing width, tapered eye is required. † Maximum Proof Load is 2 -1/2 times the Working Load Limit.

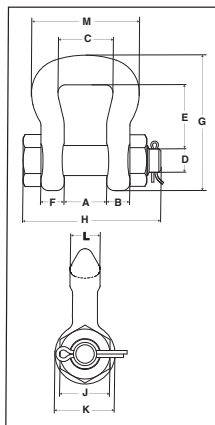
Web Slings vs. Roundslings

Web Slings are flexible, lightweight, and have a flat construction, normally with eyes at both ends. The flexibility of the sling helps to reduce shock loading effects. It is also important to note that the load-bearing yarns of the sling come in direct contact with the load. **Roundslings**, however, are a continuous loop of yarn covered by a woven tubular casing. This casing comes in direct contact with the load, which helps to protect the load-bearing yarns inside. **Whether Web or Round, rest assured that the Crosby Sling Saver® product line offers the fitting you need to get the most out of your slings in the toughest lifting applications and environments.**





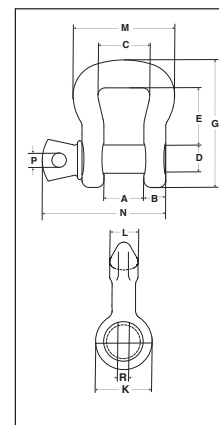
**S-252
BOLT TYPE
SLING SHACKLE**



- Shackles available in size 3-1/4 to 50 metric tons.
- All Alloy construction.
- Design factor of 5:1.
- Each shackle has a Product Identification Code (PIC) for material traceability along with a Working Load Limit and the name Crosby forged into it.
- Increased radius of bow gives wider sling bearing surface resulting in an increased area for load distribution, thus:
 - Increasing Synthetic Sling efficiency as compared to standard anchor and chain shackle bows and conventional hooks. This allows 100% of the sling's rated Working Load Limit to be achieved.
 - Allows better load distribution on internal fibers
- Meets or exceeds all requirements of ASME B30.26 including identification, ductility, design factor, proof load and temperature requirements. Importantly, these shackles meet other critical performance requirements including fatigue life, impact properties and material traceability, not addressed by ASME B30.26.
- Shackles available in both a Screw Pin and Bolt, Nut and Cotter Pin configuration
- Bolt (Pin) has a larger diameter that provides better load distribution.
- Look for the Red Pin®... the mark of Genuine Crosby quality.



**S-253
SCREW PIN
SLING SHACKLE**



Sling Saver®

Fatigue Rated®

Load Rated



Crosby Sling Saver hardware meets the requirements for minimum stock diameter or thickness, and effective contact width shown in the Recommended Standards Specification for Synthetic Polyester Round Slings by the Web Sling & Tie Down Association. WSTDA-RS1.

S-252 Bolt Type Sling Shackle

Web Sling Eye Width (mm)	Round Sling Size (No.)	Working Load Limit (t)*	S-252 Stock No.	Weight Each (kg)	Dimensions (mm)											
					A	B	C	D	E	F	G	H	J	K	L	M
25	1 & 2	3-1/4	1020485	.64	26.9	14.7	35.1	19.1	38.1	11.2	86.0	93.5	28.4	38.1	19.1	68.5
35	3 & 4	6-1/2	1020496	1.09	31.8	19.1	44.5	22.4	47.8	12.7	105	108	33.3	46.0	25.4	86.0
50	5 & 6	8-3/4	1020507	1.86	35.1	22.4	57.0	25.4	71.5	14.2	140	120	38.1	53.0	28.4	106
75	7 & 8	12-1/2	1020518	3.63	41.1	28.4	82.5	31.8	77.5	19.1	161	149	47.8	66.5	35.1	143
100	9 & 10	20-1/2	1020529	7.67	54.0	35.1	114	38.1	133	22.4	240	183	57.0	79.0	44.5	191
125	11 & 12	35	1020540	15.9	63.5	44.5	140	51.0	161	28.4	292	236	76.0	106	57.0	233
150	13	50	1020551	26.1	76.0	54.0	165	57.0	196	31.8	349	264	86.0	121	70.0	279

*Maximum Proof Load is 2.5 times the Working Load Limit.

S-253 Screw Pin Sling Shackle

Web Sling Eye Width (mm)	Round Sling Size (No.)	Working Load Limit (t)*	S-253 Stock No.	Weight Each (kg)	Dimensions (mm)											
					A	B	C	D	E	G	K	L	M	N	P	R
25	1 & 2	3-1/4	1020575	.64	22.4	15.7	35.1	19.1	38.1	86.0	38.1	19.1	68.5	82.0	11.2	25.4
35	3 & 4	6-1/2	1020584	1.00	31.8	19.1	44.5	22.4	47.8	105	46.0	25.4	86.0	102	12.7	30.2
50	5 & 6	8-3/4	1020593	1.72	35.1	22.4	57.0	25.4	71.5	140	53.0	28.4	106	114	12.7	36.6
75	7 & 8	12-1/2	1020602	3.31	41.1	28.4	82.5	31.8	77.5	161	66.5	35.1	143	142	15.7	46.0
100	9 & 10	20-1/2	1020611	6.89	54.0	35.1	114	38.1	133	240	79.0	44.5	191	175	19.1	54.0
125	11 & 12	35	1020620	14.0	63.5	44.5	140	51.0	161	292	106	57.0	233	220	25.4	73.0
150	13	50	1020629	23.6	76.0	54.0	165	57.0	196	349	121	70.0	279	260	31.0	81.0

*Maximum Proof Load is 2.5 times the Working Load Limit.

Sling Saver® Shackles Accessories



S-255
SPOOL

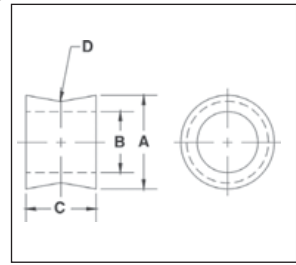


S-255 Spool

- The "Spool" is designed to keep the load centered on the pin, thus keeping the sling positioned correctly in the shackle bow.

Working Load Limit (t)*	S-255 Stock No.	Weight Each (kg)	Dimensions (mm)			
			A	B	C	D
3-1/4	1020903	0.15	31.8	20.6	19.1	4.85
6-1/2	1020912	0.26	38.1	23.9	25.4	6.35
8-3/4	1020921	0.40	44.5	26.7	30.2	7.85
12-1/2	1020930	0.66	51.0	33.3	38.1	9.65
20-1/2	1020939	1.27	63.5	41.4	47.8	11.2
35	1020948	1.09	82.5	54.0	57.0	12.7
50	1020957	1.84	95.5	60.5	70.0	15.7

* Maximum Proof Load is 2.5 times the Working Load Limit. Minimum Ultimate strength is 5 times the Working Load Limit.



Sling Saver
Fittings



S-256
LINK PLATE

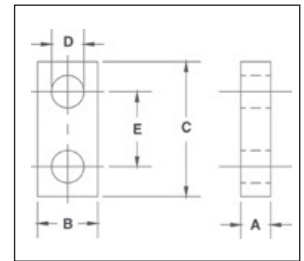


S-256 Link Plate

- The "Link Plate" is designed to connect two (2) S-252 or S-253 "Sling Saver" Shackles together.

Working Load Limit (t)*	S-256 Stock No.	Weight Each (kg)	Dimensions (mm)				
			A	B	C	D	E
3-1/4	1020785	.38	19.1	38.1	86.0	20.6	47.8
6-1/2	1020796	.73	25.4	44.5	105	23.9	57.0
8-3/4	1020807	1.23	31.8	51.0	121	26.9	66.5
12-1/2	1020818	2.35	38.1	63.5	152	33.3	85.6
20-1/2	1020829	3.71	44.5	76.0	178	41.1	95.5
35	1020840	7.80	51.0	102	235	54.0	127
50	1020851	17.0	73.1	127	267	60.5	146

* Maximum Proof Load is 2.5 times the Working Load Limit. Minimum Ultimate strength is 5 times the Working Load Limit.



Sling Saver®



See page 105 for more information on the above products and how these products are integrated into synthetic sling systems.

The Rigging Triangle

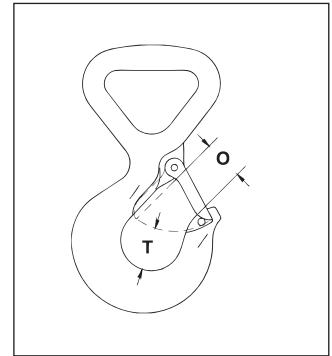
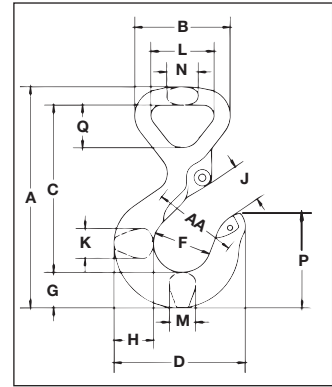
An important aspect of rigging safety is knowing how to form a proper rigging triangle. The rigging triangle is formed any time two or more slings are connected to a load and load hook. It is important to remember that as the rigging triangle becomes flatter, the horizontal sling angles become smaller, which increases sling tension. To avoid this, **a horizontal sling angle of 60 degrees or greater is considered optimal for all hitches.** At a 60 degree angle, the sling tension multiplier is only 1.15, the side or angular loading is limited, and the crushing load is 50 percent of the sling tension, which is considered minimal. **A helpful tip to verify that the slings are rigged at 60 degrees is to remember that a 60-degree sling angle is formed when an equilateral triangle is created.** This means that the sling length will be equal to the distance between pick points.





**WSL-320A
SYNTHETIC
SLING HOOK**

- Hook capacities available: 1-1/2, 3, and 5 metric tons.
- All Alloy construction.
- Design factor of 5:1.
- Each hook has a Product Identification Code (PIC) for material traceability along with a working load limit and the name Crosby forged into it.
- Originally designed for 2-Ply Web slings, the Crosby Web Sling hook can also be used with Round Slings as long as the Working Load Limit ratings are compatible. The new hook incorporates the following features:
 - Eye is designed with a wide beam surface
 - Eliminates bunching effects.
 - Reduces sling tendency to slide.
 - Allows a better load distribution on internal fibers
- All hooks feature Crosby's patented **QUIC-CHECK®** indicators.
- Hook Web Sling Eye width available: 25, 50 and 75mm.
- Fatigue rated to 20,000 cycles at 1-1/2 times the Working Load Limit.
- Includes S-4320 latch.



Fatigue Rated

Load Rated

Sling Saver



Crosby Sling Saver hardware meets the requirements for minimum stock diameter or thickness, and effective contact width shown in the Recommended Standards Specification for Synthetic Polyester Round Slings by the Web Sling & Tie Down Association. WSTDA-RS1.

WSL-320A Synthetic Sling Hook

Web Sling Eye Width (mm)	Round Sling Size (No.)	Working Load Limit (t)*	WSL-320A with Latch	Weight Each (kg)	Hook I.D. Code	S-4320 Rep. Latch
25.0	1	1-1/2	1022706	.50	FA	1096374
50.0	2	3	1022717	1.30	HA	1096468
75.0	3	5	1022728	2.99	IA	1096515

WSL-320A Synthetic Sling Hook

Hook ID Code	Working Load Limit (t)*	Dimensions (mm)																
		A	B	C	D	F	G	H	J	K	L	M	N	O	P	Q	T	AA
FA	1-1/2	133	57.5	101	79.0	35.1	21.3	23.9	23.6	18.0	38.1	16.0	19.1	23.1	57.0	25.7	24.9	51.0
HA	3	181	93.0	135	101	41.4	28.7	33.5	28.7	23.9	63.5	21.6	28.7	27.7	71.5	42.9	29.5	51.0
IA	5	237	130	179	122	51.0	36.6	41.4	37.3	33.3	95.5	28.7	41.4	34.5	89.0	66.0	38.9	63.5

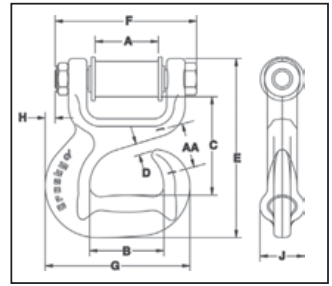
*Maximum Proof Load is 2-1/2 times the Working Load Limit.

Sling Saver® Fittings / Accessories



S-287
CHOKER HOOK

- Available in 2 sizes: 2.95 tonnes (50mm webbing) and 4.08 tonnes (75mm webbing)
- Forged Alloy Steel – Quenched & Tempered
- Design factor of 5:1.
- Each Connector has a Product Identification Code (PIC) for material traceability along with a Working Load Limit and the name Crosby forged into it.
- Special design of hook protects the synthetic sling when dropped or dragged.
- Designed to reduce friction, abrasion, and fraying in choker area.
- Uses same spool and cover as S-280 Web Connector.
 - Replacement Kit for Spool and Web Cover available.
- No retaining pin to snag sling material.



Sling Saver
Fittings



Sling Saver®



Load Rated



Crosby Sling Saver hardware meets the requirements for minimum stock diameter or thickness, and effective contact width shown in the Recommended Standards Specification for Synthetic Polyester Round Slings by the Web Sling & Tie Down Association. WSTDA-RS1 (revised 2010)

S-287 Sliding Choker Hook

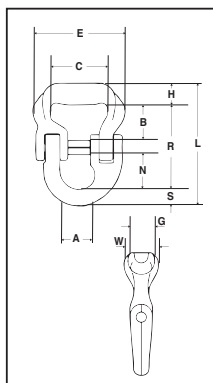
Round Sling Size (No.)	Web Slings*			Working Load Limit (t) †	S-287 Stock No.	Weight Each (kg)	Dimensions (mm)									
	Webbing Width (mm)	Eye Width (mm)	Ply				A	B	C	D	E	F	G	H	J	AA
1 & 2	50	50	2	2.95	1021909	1.68	54.0	63.5	84.5	9.65	153	121	124	8.65	38.1	38.1
3	75	35	2	4.08	1021918	2.77	41.4	89.0	93.0	9.65	179	115	165	34.5	47.8	—

*NOTE: Designed for use with Type III, (Eye & Eye), Class 7, 2 Ply web slings. † Maximum Proof Load is 2 times the Working Load Limit.

Sling Saver® Synthetic Sling Connectors



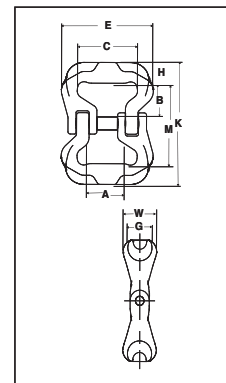
S-237



- High Performance Sling Connector is designed to connect to Slings of all materials.
- Capacities available:
 - Working Load Limit (5:1): 5,000 through 60,000 lbs.
 - Sling Body Widths: 2" through 6".
- Allows easy connection to master links or eye hooks, and is ideal for bridles.
- Increased radius of bow gives wider sling bearing surface resulting in an increased area for load distribution, thus:
 - Increasing Synthetic Sling efficiency as compared to master links, shackle bows and conventional eye hooks. This allows 100% of the sling's rated Working Load Limit to be achieved.
 - Allows better load distribution on internal fibers.
- All Alloy Construction
- Design Factor of 5:1.
- Individually Proof Tested at 2.5 times the Working Load Limit based upon 5:1 design factor.
- Each connector has a Product Identification Code (PIC) for material traceability, along with a frame size, and the name Crosby.



S-238



Sling Saver®

Load Rated



S-237 High Performance Sling Connector

Working Load Limit		S-237 Web to Lok-A-Loy Assy. Stock No.	Frame No.	Nominal Sling Body Width (mm)	Lok-A-Loy Size (mm)	Weight Each (kg)	Dimensions (mm)										
4:1 (kg)*	5:1 (kg)						A	B	C	E	G	H	L	N	R	S	W
2835	2268	1020695	5	51	10	.52	22.4	36.1	50.8	80.8	25.4	20.3	107	26.4	74.2	12.2	35.1
5670	4536	1020704	10	76	16	1.34	36.1	38.6	69.9	105	31.8	24.9	144	43.4	100	19.0	44.5
8505	6804	1020713	15	76	20	2.15	41.4	40.1	69.9	111	35.1	27.9	165	51.8	113	23.6	47.8
14175	11340	1020722	25	102	22	3.90	50.8	59.2	95.3	152	44.5	35.8	202	57.7	140	26.9	57.2
17010	13607	1020731	30	102	22	4.19	50.8	55.9	95.3	157	44.5	35.8	199	57.7	137	26.9	60.5
22680	18145	1020740	40	127	25	7.1	57.2	73.9	121	184	57.2	45.2	240	62.0	164	31.0	78.5
34020	27215	1020759	60	152	32	11.8	65.0	85.3	146	232	58.7	47.2	281	78.0	196	38.1	80.3

*Maximum allowable Proof Load is 2 times the Working Load Limit when used at 4:1 design factor.

S-238 High Performance Sling Connector

Working Load Limit (kg)	S-238 Web to Web Assembly Stock No.	Frame No.	Nominal Sling Body Width (mm)	Weight Each (kg)	Dimensions (mm)								
					A	B	C	E	G	H	K	M	W
2268	1020415	5	50.8	.73	22.4	36.1	50.8	80.8	25.4	20.3	124	83.8	35.1
4536	1020423	10	76.2	1.50	36.1	38.6	69.9	105	31.8	24.9	145	95.5	44.5
6804	1020432	15	76.2	2.22	41.4	40.1	69.9	111	35.1	27.9	156	101	47.8
11340	1020441	25	102	4.58	50.8	59.2	95.3	152	44.5	35.8	213	142	57.2
13608	1020450	30	102	5.17	50.8	55.9	95.3	157	44.5	35.8	207	135	60.5
18144	1020469	40	127	9.39	57.2	73.9	121	184	57.2	45.2	266	176	78.5
27216	1020478	60	152	14.5	65.0	85.3	146	232	58.7	47.2	298	203	80.3

*Maximum allowable Proof Load is 2.5 times the Working Load Limit. Minimum Ultimate strength is 5 times the Working Load Limit.

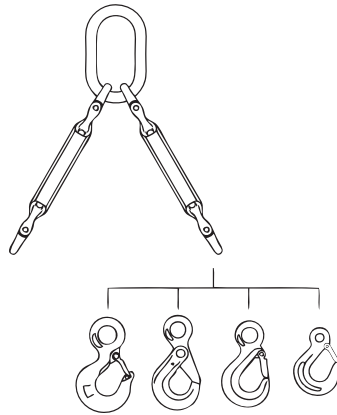


Crosby Sling Saver hardware meets the requirements for minimum stock diameter or thickness, and effective contact width shown in the Recommended Standards Specification for Synthetic Polyester Round Slings by the Web Sling & Tie Down Association. WSTDA-RS1.

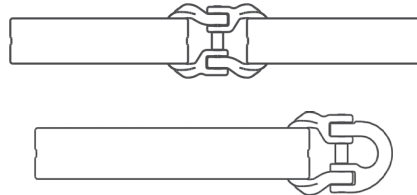
Sling Saver® High Performance Sling System

Typical Application

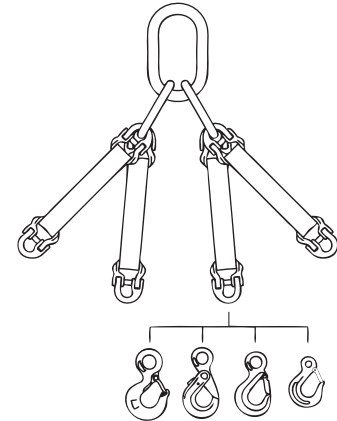
The S-237 and S-238 connectors have been designed to easily adapt to other Crosby fittings to develop complete systems for high performance Synthetic Slings.



Join two slings










Connect to other hardware

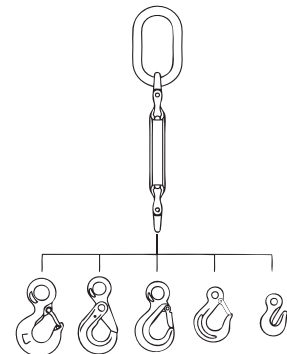


These easy-to-use charts are designed to allow you to quickly determine the Crosby Fitting required for your high performance sling.








Single Leg Sling

S-237 Frame	Working Load Limit									
			A-1337 Lok-A-Loy (mm)	A-342 (mm)	A-344 (mm)	L-320A L-320AN†		S-1316 (mm)	S-315A (mm)	L-1327 (mm)
	(t)	Frame								
5	2834	2268	10	25	22	†7	JA	16	16	16
10	5670	4536	16	25	22	†7	JA	16	16	16
15	8505	6804	20	32	25	†11	KA	19	–	19
25	14175	11340	22	38	32	†15	LA	22	–	22
30	17010	13607	22	38	32	†15	LA	22	–	22
40	22680	18145	25	44	–	†22	NA	25	–	–
60	34020	27215	32	51	–	30	OA	–	–	–

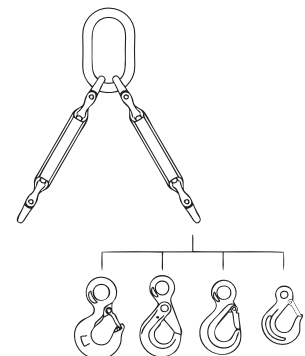
* Ultimate load is 5 times the Working Load Limit. † S-320AN Style Hook.



Double Leg Sling

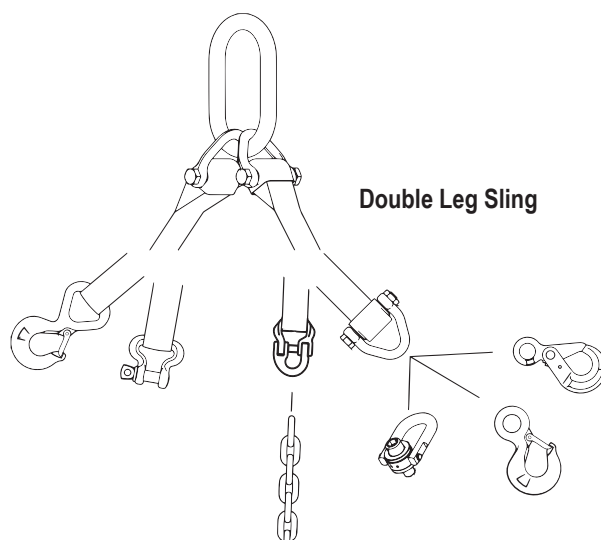
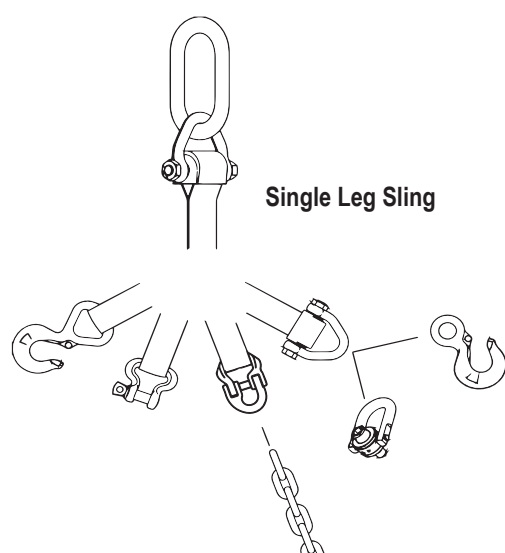
S-237 Frame	Working Load Limit									
			A-1337 Lok-A-Loy (mm)	A-342 (mm)	A-344 (mm)	L-320A L-320AN†		S-1316 (mm)	S-315A (mm)	L-1327 (mm)
	(t)	Frame								
5	2834	2268	10	32	32	†7	JA	16	16	16
10	5670	4536	16	32	32	†7	JA	16	16	16
15	8505	6804	20	38	—	†11	KA	19	—	19
25	14175	11340	22	44	—	†15	LA	22	—	22
30	17010	13607	22	44	—	†15	LA	22	—	22
40	22680	18145	25	51	—	†22	NA	25	—	—
60	34020	27215	32	57	—	30	OA	—	—	—

* Ultimate load is 5 times the Working Load Limit. † S-320AN Style Hook.



For Triple and Quad leg slings, contact Crosby Engineering at (918) 834-4611

Sling Saver® Web Sling Systems



These easy-to-use charts are designed to allow you to quickly determine the fitting required to create the Web Sling or Round Sling you need.

Single and Double Leg Slings Component Recommendations based on Type III, (Eye & Eye), Class 7, 2 Ply web slings.

S-280 Web Connector S-281 Web Sling Shackle					S-280 Web Connector						
Web Sling											
Round Sling Size (No.)	Web Width (mm)	Eye Width (mm)	Ply.	S-280 S-281 Working Load Limit (t)	Web Sling Hook WSL-320 (t)	Spectrum 8® Chain Size (in) – (mm)	Eye Hoist Hook L-320AN (t)	Eye SHUR-LOC® S-1316 (mm)	Swivel Hoist Ring HR-125 (kg)	Master Link A-342 Single Leg (mm)	Master Link A-342 Double Leg (mm)
1 & 2	50	50	2	2.95	3	3/8 - 10	3.2	13	3000	16	19
3	75	35	2	4.08	5	1/2 - 13	5.4	16	4200	19	25
4	100	50	2	5.67	—	5/8 - 16	8	16	7000	25	25
5 & 6	150	75	2	7.70	—	—	11.5	—	11000	25	32

Triple and Quad Leg Slings Component Recommendations based on Type III, (Eye & Eye), Class 7, 2 Ply web slings.

S-280 Web Connector S-281 Web Sling Shackle					S-280 Web Connector						
Web Sling											
Round Sling Size (No.)	Web Width (mm)	Eye Width (mm)	Ply.	S-280 S-281 Working Load Limit (t)	Web Sling Hook WSL-320 (t)	Spectrum 8® Chain Size (in) – (mm)	Eye Hoist Hook L-320AN (t)	Eye SHUR-LOC® S-1316 (mm)	Swivel Hoist Ring HR-125 (kg)	Master Link A-342 Triple Leg (mm)	Master Link A-342 Quad Leg (mm)
1 & 2	50	50	2	2.95	3	3/8 - 10	3.2	13	3000	25	25
3	75	35	2	4.08	5	1/2 - 13	5.4	16	4200	25	32
4	100	50	2	5.67	—	5/8 - 16	8	16	7000	32	38
5 & 6	150	75	2	7.70	—	—	11.5	—	11000	38	44

Easily Integrated into “Synthetic Sling System”

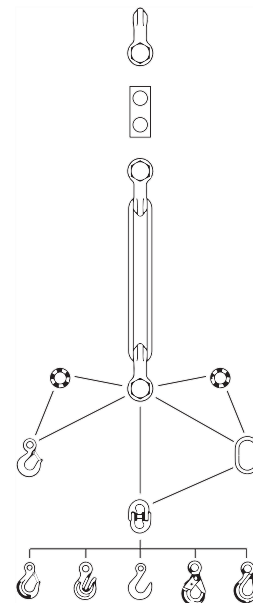


The “Synthetic Sling Saver” shackles line has been designed to easily adapt Crosby Sling fittings in the development of complete systems for synthetic slings.

Single Leg Slings

Sling Saver Shackle		LOK-A-LOY® Link* A-1337									
Web Sling Eye Width (mm)	Working Load Limit (t)	Sling Saver Shackle Spool S-255 (mm)	Sling Saver Shackle Link Plate S-256 (mm)	Eye Hoist Hook L-320AN† L-320A (t)	Alloy Master Link A-342 (mm)	Master Link Assy. A-345 (mm)	Sling Hook L-1327 (mm)	Eye Grab Hook A-1328 (mm)	Eye Foundry Hook A-1329 (mm)	Eye SHUR-LOC® S-1316A (mm)	Eye Latching S-315A (mm)
25	3-1/4	25	25	†5.4	19	—	10	10	10	10	10
35	6-1/2	35	35	†8	25	—	16	16	16	16	16
50	8-3/4	50	50	†11.5	25	—	16	16	16	16	16
75	12-1/2	75	75	†16	32	—	19	19	19	—	19
100	20-1/2	100	100	†22	44	—	—	19	—	19	—
125	35	125	125	37	51	—	—	19	—	—	—
150	50	150	150	60	57	—	—	19	—	—	—

* LOK-A-LOY® size same as hook size. † New 320N Eye Hook.

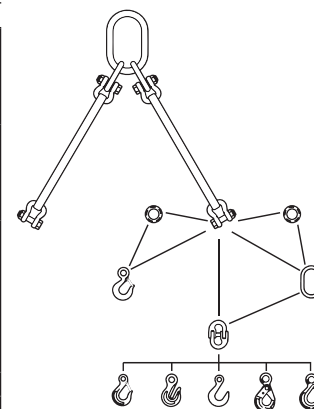


Single Leg Sling

Double Leg Slings

Sling Saver Shackle		LOK-A-LOY® Link* A-1337									
Web Sling Eye Width (mm)	Working Load Limit (t)	Sling Saver Shackle Spool S-255 (mm)	Sling Saver Shackle Link Plate S-256 (mm)	Eye Hoist Hook L-320AN† L-320A (t)	Alloy Master Link A-342 (mm)	Master Link Assy. A-345 (mm)	Sling Hook L-1327 (mm)	Eye Grab Hook A-1328 (mm)	Eye Foundry Hook A-1329 (mm)	Eye SHUR-LOC® S-1316A (mm)	Eye Latching S-315A (mm)
25	3-1/4	25	25	†5.4	19	25	10	10	10	10	10
35	6-1/2	35	35	†8	25	32	16	16	16	16	16
50	8-3/4	50	50	†11.5	25	32	16	16	16	16	16
75	12-1/2	75	75	†16	32	38	19	19	19	—	19
100	20-1/2	100	100	†22	44	44	—	—	—	—	—
125	35	125	125	37	51	—	—	—	—	—	—
150	50	150	150	60	57	—	—	—	—	—	—

* LOK-A-LOY size same as hook size. † New 320N Eye Hook.



Double Leg Sling

WEB SLINGS

SHALL NOT BE CONSTRICTED OR BUNCHED BETWEEN THE EARS OF A CLEVIS OR SHACKLE, OR IN A HOOK.

ROUND SLINGS

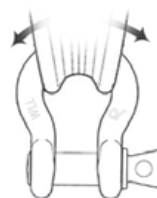
SHALL NOT BE CONSTRICTED OR BUNCHED BETWEEN THE EARS OF A CLEVIS OR SHACKLE, OR IN A HOOK.

THE OPENING OF FITTINGS SHALL BE PROPER SHAPE AND SIZE TO ENSURE THAT THE FITTING WILL SEAT PROPERLY ON THE ROUND SLING.

WHEN A ROUND SLING IS USED WITH A SHACKLE, IT IS RECOMMENDED THAT IT BE USED (RIGGED) IN THE BOW OF THE SHACKLE.

SYNTHETIC SLINGS RATED LOAD

FOLDING, BUNCHED OR PINCHING OF SYNTHETIC SLINGS, WHICH OCCURS WHEN USED WITH SHACKLES, HOOKS OR OTHER APPLICATION WILL REDUCE THE RATED LOAD.



BUNCHING



PINCHING

ASME B30.9



When connecting Web or Round Slings, use conventional fittings with
1. Large Radius. 2. Straight Pins. 3. Pads or use special fittings designed for Synthetic Slings

SYNTHETIC SLING CONNECTIONS AND HITCHES**WEB SLING IDENTIFICATION INCLUDES:****SLING TYPE:**

TC – TRIANGLE CHOKER
TT – TRIANGLE TRIANGLE
EE – EYE AND EYE
EN – ENDLESS

NUMBER OF PLIES: 1 OR 2**WEBBING GRADE:** 9 OR 6**SLING WIDTH (INCH)**

EE 2-9 100 x 305 ← **SLING LENGTH (INCH)**

ROUND SLING IDENTIFICATION INCLUDES:**SLING NUMBER:** 1-13

SLING NUMBERS ARE FOR REFERENCE ONLY. SOME ROUND SLINGS HAVE DIFFERENT RATINGS.

SLING COLOR: PURPLE, GREEN, YELLOW, TAN, RED, WHITE, BLUE, ORANGE

SLING COLOR IS NOT FOLLOWED BY ALL MANUFACTURERS, AND SOME COLORS HAVE MORE THAN ONE RATED LOAD.

FOLDING, BUNCHED OR PINCHING OF SYNTHETIC SLINGS, WHICH OCCURS WHEN USED WITH SHACKLES, HOOKS OR OTHER APPLICATION WILL REDUCE THE RATED LOAD.



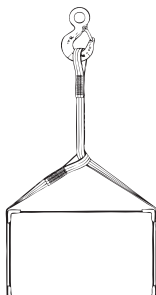
BUNCHING



PINCHING

CHOKER CAPACITY

A CHOKER HITCH HAS 80% OF THE CAPACITY OF A SINGLE LEG SLING ONLY IF THE ANGLE OF CHOKE IS 120 DEGREES OR GREATER. A CHOKE ANGLE LESS THAN 120 DEGREES WILL RESULT IN A CAPACITY AS LOW AS 40% OF THE SINGLE LEG.

**BASKET HITCH CAPACITY**

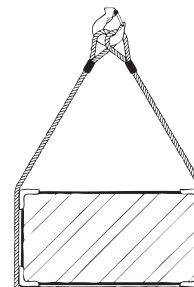
HORIZONTAL ANGLE	CAPACITY % OF SINGLE LEG
90	200%
60	170%
45	140%
30	100%

A TRUE BASKET HITCH HAS TWICE THE CAPACITY OF A SINGLE LEG ONLY IF THE LEGS ARE VERTICAL.

MULTIPLE LEG SLINGS

TRIPLE LEG SLINGS HAVE 50% MORE CAPACITY THAN DOUBLE LEG SLINGS (AT SAME SLING ANGLE) ONLY IF THE CENTER OF GRAVITY IS IN CENTER OF CONNECTION POINTS AND LEGS ADJUSTED PROPERLY (THEY MUST HAVE AN EQUAL SHARE OF THE LOAD).

QUAD (4-LEG) SLINGS OFFER IMPROVED STABILITY BUT PROVIDE INCREASED CAPACITY ONLY IF ALL LEGS SHARE AN EQUAL SHARE OF THE LOAD.



ALWAYS SELECT AND USE WEB SLINGS AND ROUND SLINGS BY THE RATED LOAD SHOWN ON THE SLING IDENTIFICATION TAG, NEVER BY WIDTH, COLOR OR SLING NUMBER.