

# Tri-Flex® Wire Rope Sling



**CERTIFIED PROOF TESTING**  
**SLINGS – WIRE ROPE – CHAIN – NYLON – FITTINGS**

Patent #4,043,581

PIN SIZE EQUALS  
 D/d OF 4/1 USING  
 COMPONENT PARTS

**SLINGMAX** ⚡

BASKET HITCH EQUALS  
 D/d OF 5/1 USING  
 FINISHED DIAMETER

**T**his is a three part wire rope sling developed to give the rigger the advantages of strength combined with greater flexibility. It was created to replace large diameter single part wire rope slings which proved awkward and stiff. Tri-Flex® Slings are now manufactured in sizes from 1 ton to 150 ton capacity. Steel erectors, millwrights and riggers use Tri-Flex® slings for everything from steel erection and machinery moving, to heavy lifts of 200 tons or more. These slings are made in matching lengths.

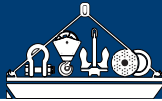
EQUIVALENT TO STANDARD SIZE FLEMISH EYE SLING	COMPOSED 3 PARTS OF EIP ROPE	VERT.	PUBLISHED 5 TO 1 RATED LOAD TONS CHOKER	VERTICAL BASKET	FINISHED ACTUAL DIAMETER	WEIGHT PER FT. APPROX.
7/16"	1/4"	1.7	1.3	3.4	1/2"	.44
9/16"	5/16"	2.6	1.9	5.2	5/8"	.68
5/8"	3/8"	3.6	2.7	7.2	3/4"	.99
3/4"	7/16"	4.9	3.7	9.8	7/8"	1.33
7/8"	1/2"	6.4	4.8	12.8	1"	1.75
1"	9/16"	8.0	6.0	16.0	1-1/8"	2.24
1-1/8"	5/8"	9.9	7.4	19.8	1-1/4"	2.73
1-1/4"	3/4"	14.0	10.5	28.0	1-1/2"	3.9
1-1/2"	7/8"	19.0	14.3	38.0	1-3/4"	5.4
1-3/4"	1"	24.8	18.6	49.6	2"	7.0
2"	1-1/8"	31.2	23.4	62.4	2-1/4"	8.9
2-1/4"	1-1/4"	38.4	28.8	76.8	2-1/2"	10.0
2-1/2"	1-3/8"	46.0	34.5	92.0	2-3/4"	13.3
2-3/4"	1-1/2"	55.0	41.2	110.0	3"	15.8
3"	1-5/8"	63.4	47.6	126.8	3-1/4"	18.5
3-1/4"	1-3/4"	73.0	54.8	146.0	3-1/2"	21.5
3-1/2"	2"	95.0	71.2	190.0	4"	28.0
4"	2-1/4"	118.0	88.5	236.0	4-1/2"	35.6
4-1/2"	2-1/2"	145.0	109.0	290.0	5"	44.0

**TRI-FLEX® WIRE ROPE SLINGS** provide the best combination of strength and flexibility. Because of the patented TRI-FLEX® SLING construction, there is a large savings in material and machine costs in the larger sizes; this, combined with ease of use make TRI-FLEX® SLINGS the only sling for smart buyers.

Inspect before use. Follow OSHA, ANSI B30.9 or Manufacturers Guidelines. Use by untrained persons is hazardous. Improper use will result in serious injury or death. Do not exceed rated capacity. This product will fail if damaged, abused, misused, overused or improperly maintained.

**⚠ WARNING**

# Tri-Flex® Sling System



### CERTIFIED PROOF TESTING SLINGS – WIRE ROPE – CHAIN – NYLON – FITTINGS

U.S. Patent #4,240,659

CN #1,082,755

British #2,029,796

One TRI-FLEX® SLING is a complete sling with 3 parts for flexibility.

9-Part TRI-FLEX® SLINGS break down into three 3-part standard TRI-FLEX® SLINGS.

27-Part TRI-FLEX® SLINGS break down into three 9-part slings or nine 3-part slings.

**T**his product is a combination of three Tri-Flex® Wire Rope slings wrapped together helically to form a nine part finished body sling. After a heavy lift is finished the product can be taken apart to form three individual Tri-Flex® slings for smaller lifting work. It has twelve parts of wire rope in the loop for greater strength than traditional nine part wire rope slings.

## SLINGMAX ⚡

DIAMETER OF COMPONENT PARTS	VERTICAL RATED LOAD	FINISHED DIAMETER	VERTICAL RATED LOAD	FINISHED DIAMETER	VERTICAL RATED LOAD	FINISHED DIAMETER
1/4"	1.7	1/2"	4.6	1"	12.9	2"
5/16"	2.6	5/8"	7.0	1-1/4"	19.9	2-1/2"
3/8"	3.6	3/4"	10.0	1-1/2"	28.5	3"
7/16"	4.9	7/8"	13.8	1-3/4"	38.6	3-1/2"
1/2"	6.4	1"	18.0	2"	50.0	4"
9/16"	8.0	1-1/8"	22.7	2-1/4"	63.5	4-1/2"
5/8"	9.9	1-1/4"	27.8	2-1/2"	78.0	5"
3/4"	14.0	1-1/2"	39.7	3"	110.0	6-7/8"
7/8"	19.0	1-3/4"	53.7	3-1/2"	150.0	7"
1"	24.8	2"	69.8	4"	195.0	8"
1-1/8"	31.2	2-1/4"	87.7	4-1/2"	245.0	9"
1-1/4"	38.4	2-1/2"	108.0	5"	302.0	10"
1-3/8"	46.0	2-3/4"	130.0	5-1/2"	363.0	11"
1-1/2"	55.0	3"	154.0	6"	430.0	12"
1-5/8"	63.4	3-1/4"	178.0	6-1/2"	499.0	13"
1-3/4"	73.0	3-1/2"	206.0	7"	578.0	14"
2"	95.0	4"	267.0	8"	748.0	16"
2-1/4"	118.0	4-1/2"	333.0	9"	934.0	18"
2-1/2"	145.0	5"	408.0	10"	1140.0	20"

ONE TRI-FLEX® SLING  
3 PARTS EIP  
PIN DIAMETER =  
4 x's COMPONENT PART

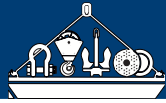
THREE TRI-FLEX® SLINGS 9  
PARTS EIP  
PIN DIAMETER =  
4 x's COMPONENT PART

NINE TRI-FLEX® SLINGS 27  
PARTS EIP  
PIN DIAMETER =  
8 x's COMPONENT PART

The TRI-FLEX® SYSTEM allows the purchase of multiple part slings for big lifts which can easily be taken apart to provide slings for smaller lifts or for storage.

### WARNING

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## SLINGMAX

### GATOR-MAX™ WIRE ROPE SLING WITH PARALLEL EYES

US Patent #5,561,973 & Patents Pending



This is the strongest multi-part sling with great flexibility. It will develop its full strength on small pins with a D/d ratio of 1/1 where D is the sling body and d is the pin. (4/1 D/d when comparing the component parts to the pin.) For heavy lifting work this is the most efficient wire rope sling that meets all of the standards. The eyes have the wire ropes (12) laid in parallel so that there is no cross over and then they are wrapped with heavy duty material to keep them in position. This sling was developed to meet conditions specified by the US Navy and the Wire Rope Technical Board Sling Manual. Testing has proven it to be the strongest multi-part wire rope sling when attached to small pins because it has twelve parts of wire rope in the loop in a parallel construction.

FINISHED DIAMETER	COMPONENT PARTS	STANDARD EYE SIZE	VERTICAL RATED CAP.	CHOKER RATED CAP.	BASKET RATED CAP.	WEIGHT PER FOOT
1/2"	1/8"	8"	1.4	.95	2.7	.26
5/8"	3/16"	10"	1.8	1.4	3.6	.40
3/4"	5/32"	12"	2.7	2.0	5.5	.59
7/8"	7/32"	14"	3.7	2.7	7.4	.77
1"	1/4"	16"	4.8	3.6	9.7	.99
1-1/4"	5/16"	18"	7.4	5.5	14.7	1.56
1-1/2"	3/8"	20"	10.5	7.9	21.0	2.19
1-3/4"	7/16"	22"	14.0	11.0	29.0	3.15
2"	1/2"	24"	19.0	14.0	38.0	4.14
2-1/4"	9/16"	26"	24.0	19.0	48.0	5.31
2-1/2"	5/8"	28"	29.0	22.0	58.0	6.48
3"	3/4"	30"	42.0	31.0	83.0	9.36
3-1/2"	7/8"	35"	56.0	42.0	112.0	12.78
4"	1"	40"	74.0	55.0	146.0	16.65
4-1/2"	1-1/8"	45"	92.0	69.0	184.0	21.06
5"	1-1/4"	50"	113.0	85.0	227.0	26.01
5-1/2"	1-3/8"	55"	137.0	102.0	273.0	31.50
6"	1-1/2"	60"	162.0	121.0	323.0	37.44
7"	1-3/4"	70"	216.0	162.0	432.0	51.03
8"	2"	80"	280.0	210.0	560.0	66.51
9"	2-1/4"	90"	350.0	261.0	700.0	84.24
10"	2-1/2"	100"	428.0	321.0	856.0	104.00

NOTE: Rated capacity is based on 5-1 Design Factor.

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**WARNING**



## ENGINEERING SPECIFICATIONS FOR GATOR-FLEX® HEAVY LIFT GROMMETS

The Most Flexible Grommet in the World!



### TWIN-FLEX™ SLINGS & GATOR-FLEX® GROMMETS (D/d = 5/1) RATED CAPACITY AT 5-1 D/F

## SLINGMAX

#### GATOR-FLEX® NINE PART GROMMETS

US Patent #5,561,973

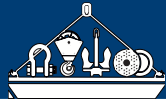
Ultra flexible slings for that short heavy lift connection. These slings can be made shorter than standard Multi-Part slings but maintain all of the advantages.

PIN SIZE 5 x FD DIAMETER	9 PTS. WIRE ROPE SIZE	TONS (2,000 LBS.)			WT. PER FOOT LBS.
		VERTICAL	CHOKER	BASKET VERTICAL	
1"	1/4"	10	7	20	2
1-1/4"	5/16"	15	11	30	3
1-1/2"	3/8"	22	15	44	5
1-3/4"	7/16"	29	21	58	6
2"	1/2"	38	27	76	8
2-1/4"	9/16"	48	34	96	11
2-1/2"	5/8"	59	42	118	13
3"	3/4"	85	59	170	19
3-1/2"	7/8"	115	81	230	25
4"	1"	148	104	296	33
4-1/2"	1-1/8"	187	131	374	42
5"	1-1/4"	230	161	460	52
5-1/2"	1-3/8"	276	194	552	63
6"	1-1/2"	328	230	656	75
7"	1-3/4"	441	308	882	102
8"	2"	570	399	1,140	133
9"	2-1/4"	711	498	1,422	168
10"	2-1/2"	870	609	1,740	209
11"	2-3/4"	1,040	728	2,080	250
12"	3"	1,224	857	2,448	300



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## SLINGMAX ⚡



There are two kinds of tell-tail indicators—one to warn of overload and a fiber optic to warn of core fiber damage.



Twin-Path® slings are actually two slings in one. There is unique backup protection.



The separate inner cover shows red for warning that the sling is damaged and should be taken out of service.



Twin-Path® slings are repaired with patches like this. Each sling is proof tested after a repair.

# WHICH SLING WOULD YOU USE TO LIFT 50 TONS?

**EACH SLING HAS A RATED CAPACITY OF 50 TONS!  
EACH PERSON IS HOLDING THE SAME WEIGHT!  
EACH SLING IS THE SAME LENGTH!**

**Guess** which sling requires less effort to rig, has less chance of causing injury, is easiest to transport and store, and costs less to use?



**TWIN-PATH® EXTRA – 44 lbs.**



**WIRE ROPE – 400 lbs.**



**POLYESTER ROUND – 200 lbs.**



## TWIN-PATH® EXTRA SLING WITH COVERMAX AND K-SPEC™ core yarn

**TPXC** This is the worlds first truly ergonomic sling. It has a bulked nylon outer cover for superior abrasion resistance. These are made in sizes up to 300,000 lbs. vertical rated capacity. Larger capacity slings are available on special order. Extra Heavy Duty Covermax is standard on 70,000 lb. vertical capacity and higher. These slings have overload tell-tails, inner red cover, and are used worldwide in place of wire rope slings for heavy lifts. They are about 10% of the weight of a steel sling. These products are repairable.



The Twin-Path® patented design provides the rigger with two connections between the hook and the load for redundant back-up protection. These slings have 1% stretch at rated capacity compared to braided polyester round slings which can stretch up to 9%. If ergonomics, productivity and safety are important, then these slings are the only choice. This is the lightest and strongest sling on the market today with K-Spec™ the longest lasting load bearing core yarn, backed by independent testing. Available with fiber optic internal inspection system.

**Polyester Cover or Covermax Cover**

A leather tag contains required information— And the Flag Tag contains the Vertical Capacity in Large Readable Characters.



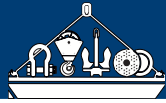
## TWIN-PATH® EXTRA COVERMAX SPECIFICATIONS

United States Patent #4,850,629	Rated Capacities (Lbs.) 5-1 D/F					Canadian Patent #1,280,458	
	Choker	Vertical	Basket Hitches			Approximate Weight (Lbs. per Ft.) (Bearing-Bearing)	Approximate Body Width (inches)
Twin-Path® Extra Covermax Stock No.							
TPXC 1000	8,000	10,000	20,000	17,320	14,140	.31	3"
TPXC 1500	12,000	15,000	30,000	25,980	21,210	.40	3"
TPXC 2000	16,000	20,000	40,000	34,640	28,280	.55	3"
TPXC 2500	20,000	25,000	50,000	43,300	35,350	.65	4"
TPXC 3000	24,000	30,000	60,000	51,960	42,420	.80	4"
TPXC 4000	32,000	40,000	80,000	69,280	56,560	1.12	5"
TPXC 5000	40,000	50,000	100,000	86,139	70,700	1.50	5"
TPXC 6000	48,000	60,000	120,000	103,920	84,840	1.60	5"
TPXC 7000	56,000	70,000	140,000	121,240	98,980	1.68	6"
TPXC 8500	68,000	85,000	170,000	147,220	120,190	1.85	6"
TPXC 10000	80,000	100,000	200,000	173,200	141,400	2.20	6"
TPXC 12500	100,000	125,000	250,000	216,500	176,750	3.00	8"
TPXC 15000	120,000	150,000	300,000	259,800	212,100	3.36	8"
TPXC 17500	140,000	175,000	350,000	303,100	247,450	4.00	10"
TPXC 20000	160,000	200,000	400,000	346,400	282,800	4.37	10"
TPXC 25000	200,000	250,000	500,000	433,000	353,500	5.50	11"
TPXC 27500	220,000	275,000	550,000	476,300	388,850	6.90	11"
TPXC 30000	240,000	300,000	600,000	519,600	424,200	7.50	13"

**PLEASE NOTE:** Capacities shown include both paths and are for one complete sling. Ratings based on straight pin diameter one-half the sling width. **DO NOT EXCEED RATED CAPACITY**

**WARNING**

Can fail if damaged, misused or overloaded. Inspect before use. Use only if trained. Observe rated capacity. Avoid sharp edges and exposure to acid, alkali, sunlight and temperature over 180°F. DEATH or INJURY can occur from improper use or maintenance.



TPXA (with K-Spec<sup>™</sup>), TPA (with polyester)

**SLINGMAX**

The Twin-Path<sup>®</sup> Adjustable Bridle is the ultimate multiple use rigging tool. It can be used in applications where a standard two-leg or four leg bridle is used with the added advantage of self-adjustment to awkward loads. The Twin-Path<sup>®</sup> Adjustable Bridle self-adjusts over the center of gravity to find the lifting point. The Twin-Path<sup>®</sup> Adjustable Bridle can also be used as a complete rigging tool for choker, vertical, or basket hitches. The use of two or more Twin-Path<sup>®</sup> Adjustable Bridles facilitates lifts with multiple lifting points.



U.S. PATENT #4,850,629 Canadian Patent #1,280,458

## TWIN-PATH<sup>®</sup> ADJUSTABLE BRIDLE SPECIFICATIONS

TPA CODE	SINGLE BRIDLE CAPACITY (LBS.)	APPROXIMATE SLING WIDTH	ADJUSTABLE RING DIMENSIONS			SHACKLE DIMENSIONS		SLING WEIGHT (LBS.)	
			RING STOCK DIAMETER	MAIN HOOK AREA (WIDTH)	RING AREA (LENGTH)	NOMINAL SHACKLE SIZE	TONNAGE (W.L.L)	APPROX. 3 FOOT BASE	APPROX. ADDER PER FOOT
TPA 6	6,000	2"	1/2"	2-1/2"	2-1/2"	5/8"	3-1/4T	4.40	1.35
TPXA 12	12,000	3"	3/4"	3"	3"	7/8"	6-1/2T	6.80	1.95
TPXA 20	20,000	4"	1"	4"	4"	1-1/4"	12T	13.60	2.70
TPXA 40	40,000	5"	1-1/2"	5 1/4"	5-1/4"	1-3/4"	25T	31.10	4.20
TPXA 60	60,000	5"	2"	7"	7"	2"	35T	60.00	5.70
TPXA 90	90,000	6"	2-1/4"	8"	8"	2-1/4"	55T	86.00	8.10

**PLEASE NOTE:** CAPACITIES SHOWN INCLUDE BOTH PATHS AND ARE FOR ONE COMPLETE ASSEMBLY.

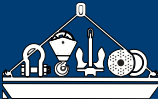
METRIC CAPACITIES AVAILABLE

DO NOT EXCEED RATED CAPACITY

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**WARNING**

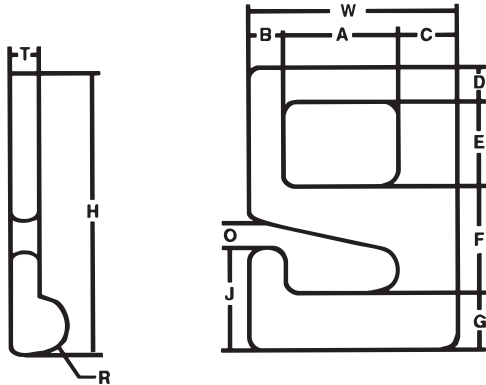
# G-Link™ Synthetic Sling Connector



Patent #5,651,573

## PRODUCT FEATURES:

- Couples web, round or Twin-Path® slings with hardware (oblongs or hooks).
- Splices two slings into longer length.
- Connects two slings with oblong and two hooks into bridle sling.
- Allows sling to be used as sliding choker sling.
- Two G-Link™ connectors used together will double the rated capacity of one G-Link™ connector.
- Conforms with ASME B30.9 web and round sling specifications.



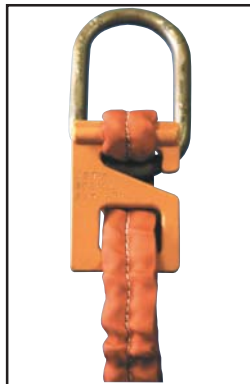
MODEL NUMBER	VERTICAL RATED CAP. TONS	CHOKER RATED CAP. TONS	SLING SIZE (IN.)	WEIGHT (LBS.)
SC200L	2-1/2	2	2	2
SC300L	5	3	3	3-1/2
S0400L	7-1/2	4	4	7
SC500L	15	8	*5	15
SC600L	25	12	*6	29

## DIMENSIONS:

MODEL	A	B	C	D	E	F	G	H	J	O	R	T	W
SC200L	2	5/8	1-1/8	5/8	1-1/3	1-15/16	1	5.0	1-13/16	1/2	.5	.5	3.5
SC300L	3	11/16	1-1/4	11/16	2-1/4	2-7/16	1-1/4	6.62	2-1/2	9/16	.75	.75	5.0
SC400L	4	13/16	1-3/8	13/16	2-1/2	2-7/8	1-3/8	7.5	2-3/4	3/4	.75	1.0	6.0
SC500L	5	1-1/16	2	1-1/16	3	3-3/4	2	9.75	3-3/4	1	1.0	1.25	8.0
SC600L	6	1-1/4	2-1/4	1-1/4	4	5	2-1/4	12.5	4-3/4	1-1/4	1.0	1.5	9.38



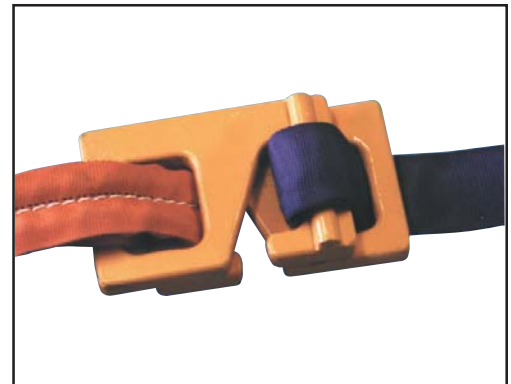
Connect Hook or Oblong to Sling



Choker Sling



Connect Two Slings



<b>⚠ WARNING</b>	<b>Can fail if damaged, misused or overloaded. Inspect before use. Use only if trained. Observe rated capacity. DEATH or INJURY can occur from improper use or maintenance.</b>
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