

## DURA-WEB NYLON SLINGS

### Best in Abrasion Resistance

Available in two strength classes, all *Dura-Web* slings feature premium abrasive resistant yarns covering all surfaces, for extended sling life and long term value.

### *Dura-Web* Features, Advantages and Benefits

#### Promotes Safety

- Red core yarn warning system aids in the inspection process
- Striped webbing helps identify proper capacity

- *Tuff-Tag* provides serial numbered identification for traceability

#### Saves Money

- Abrasion resistant fibers cover both faces and edges for greater sling life

- *Tuff-Tag* provides required OSHA information for the life of the sling, not just the life of the tag.

#### Saves Time

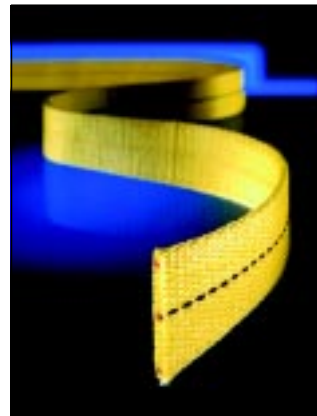
- Striped capacity for quick identification

### *Dura-Web* 2000 Capacity

Two stripes = 2,000 lbs. per inch of width (one ply only). 25% stronger than other webbing. The strongest abrasion resistant sling available.

Eyes of *Dura-Web* 2000 slings for Types 3-4-5 are not tapered in any width.




*Dura-Web* slings meet or exceed OSHA and ASME B30.9 requirements.






### *Dura-Web* 1000 Capacity

One Stripe = 1,000 lbs. per inch of width (one ply only). The only light duty web sling with an abrasive resistant surface. Wider bearing surface, per capacity, helps protect load surface.

*Dura-Web* slings meet or exceed OSHA and ASME B30.9 requirements.

	Code	Web Width (in.)	Rated Capacity (lbs.)*		
			Vertical	Choker	V. Basket
 Type U					
One Ply	UU1-202	2	4,000	3,200	8,000
	UU1-203	3	6,000	4,800	12,000
	UU1-204	4	8,000	6,400	16,000
Two Ply	UU2-202	2	8,000	6,400	16,000
	UU2-203	3	10,800	8,600	21,600
	UU2-204	4	14,400	11,500	28,800
 Type 3                      Type 4					
One Ply	EE1-201	1	2,000	1,600	4,000
	EE1-202	2	4,000	3,200	8,000
	EE1-203	3	6,000	4,800	12,000
	EE1-204	4	8,000	6,400	16,000
Two Ply	EE2-201	1	4,000	3,200	8,000
	EE2-202	2	8,000	6,400	16,000
	EE2-203	3	10,800	8,600	21,600
	EE2-204	4	14,400	11,500	28,800
 Type 5					
One Ply	EN1-201	1	4,000	3,200	8,000
	EN1-202	2	8,000	6,400	16,000
	EN1-203	3	12,000	9,600	24,000
	EN1-204	4	16,000	12,800	32,000
Two Ply	EN2-201	1	7,800	6,200	15,600
	EN2-202	2	15,200	12,200	30,400
	EN2-203	3	20,400	16,300	40,800
	EN2-204	4	25,800	20,600	51,600

	Code	Web Width (in.)	Rated Capacity (lbs.)*		
			Vertical	Choker	V. Basket
 Type U					
One Ply	UU1-102	2	2,000	1,600	4,000
Two Ply	UU2-102	2	4,000	3,200	8,000
 Type 3                      Type 4					
One Ply	EE1-101	1	1,000	800	2,000
	EE1-102	2	2,000	1,600	4,000
Two Ply	EE2-101	1	2,000	1,600	4,000
	EE2-102	2	4,000	3,200	8,000
 Type 5					
One Ply	EN1-101	1	2,000	1,600	4,000
	EN1-102	2	4,000	3,200	8,000
Two Ply	EN2-101	1	3,900	3,100	7,800
	EN2-102	2	7,600	6,100	15,200

\* **WARNING** Do not exceed rated capacities. Sling capacity decreases as the angle from horizontal decreases. Slings should not be used at angles of less than 30°. Refer to Effect of Angle chart page 10.

## WEBMASTER 1200 SLINGS

### Webmaster 1200 Polyester Slings

Standard duty *Webmaster* 1200 is designed for less frequent, light duty service.

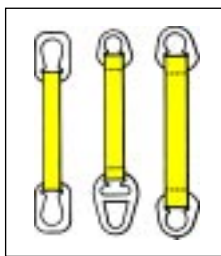
### Webmaster Features, Advantages and Benefits

#### Promotes Safety

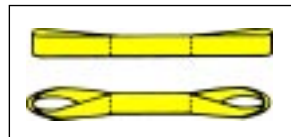
- Red core yarn warning system aids in the inspection process
- Proven sling web construction
- *Tuff-Tag* provides serial numbered identification for traceability

#### Saves Money

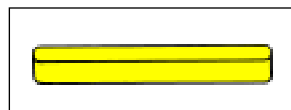
- Wider bearing surface per capacity helps protect load surface
- Yellow treatment for abrasion resistance and extended sling life
- *Tuff-Tag* provides required OSHA information for the life of the sling, not just the life of the tag



Types U, 1 and 2



Types 3 and 4



Type 5

Note:

Tapering - Types 3 and 4 slings are tapered at 3" and wider unless otherwise specified.

Type 5 (Endless) slings are NOT tapered unless specified.

### \* **WARNING**

Do not exceed rated capacities. Sling capacity decreases as the angle from horizontal decreases.  
Slings should not be used at angles of less than 30°. Refer to Effect of Angle chart page 10.

### Hardware Slings (TYPES U, 1 AND 2)

	Code	Rated Capacity (lbs.)*		
		Vertical	Choker	V. Basket
One Ply	UU1-602D	2,400	1,900	4,800
	UU1-603D	3,600	2,900	7,200
	UU1-604D	4,800	3,800	9,600
	TC1-606D	7,200	5,800	14,400
	TT1-606D	7,200	NA	14,400
Two Ply	UU2-602D	4,800	3,800	9,600
	UU2-603D	6,500	5,200	13,000
	UU2-604D	8,600	6,900	17,200
	TC2-606D	12,600	10,100	25,200
	TT2-606D	12,600	NA	25,200

### Eye and Eye Slings (TYPES 3 AND 4)

One Ply	EE1-601D	1,200	950	2,400
	EE1-602D	2,400	1,900	4,800
	EE1-603D	3,600	2,900	7,200
	EE1-604D	4,800	3,800	9,600
	EE1-606D	7,200	5,800	14,400
Two Ply	EE2-601D	2,400	1,900	4,800
	EE2-602D	4,800	3,800	9,600
	EE2-603D	6,500	5,200	13,000
	EE2-604D	8,600	6,900	17,200
	EE2-606D	12,200	9,800	24,400
Three Ply	EE3-601D	3,500	2,800	7,000
	EE3-602D	7,000	5,600	14,000
	EE3-603D	9,400	7,500	18,800
	EE3-604D	12,000	9,600	24,000
	EE3-606D	18,000	14,400	36,000
Four Ply	EE4-601D	4,200	3,400	8,400
	EE4-602D	8,000	6,400	16,000
	EE4-603D	12,000	9,600	24,000
	EE4-604D	16,000	12,800	32,000
	EE4-606D	23,500	18,800	47,000

### Endless Slings (TYPE 5)

One Ply	EN1-601D	2,400	1,900	4,800
	EN1-602D	4,800	3,800	9,600
	EN1-603D	6,500	5,200	13,000
	EN1-604D	8,600	6,900	17,200
	EN1-606D	12,200	9,800	24,400
Two Ply	EN2-601D	4,800	3,800	9,600
	EN2-602D	9,600	7,700	19,200
	EN2-603D	11,700	9,400	23,400
	EN2-604D	15,500	12,400	31,000
	EN2-606D	22,500	18,000	45,000
Three Ply	EN3-601D	6,200	4,900	12,400
	EN3-602D	12,500	10,000	25,000
	EN3-603D	16,300	13,000	32,600
	EN3-604D	20,600	16,400	41,200
	EN3-606D	29,300	23,400	58,600
Four Ply	EN4-601D	7,700	6,200	15,400
	EN4-602D	15,500	12,400	31,000
	EN4-603D	20,800	16,600	41,600
	EN4-604D	26,600	21,200	53,200
	EN4-606D	37,800	30,200	75,600

## WEB SLING HARDWARE

### Steel *Unilink* Web Sling Hardware Combination Triangle and Choker Fitting U. S. Patent No. 4789193

This forged, high carbon steel fitting, functions as both a triangle and choker.

#### Features, Advantages and Benefits

##### Promotes Safety

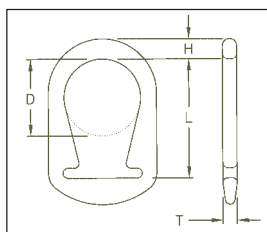
- Forged steel for strength and reliability
- Smooth rounded profile helps protect sling, worker and load

##### Saves Money

- May be rewebbed to reduce cost
- Zinc dichromate plated for longer life
- *Unilinks* cost less than triangle/choker combinations

##### Saves Time

- Large Crane hook opening - speeds rigging
- Positive *Web-Trap* capture - no need to stop and reposition web
- Functions both as a triangle and a choker - choke with either end



#### *Unilink* Codes And Specifications

Web Width (in.)	Part No.	Dimensions (in.)				Weight (lbs.)
		L	D	H	Thick	
2	SU2	3 <sup>11</sup> / <sub>16</sub>	2	<sup>11</sup> / <sub>16</sub>	<sup>9</sup> / <sub>16</sub>	1.1
3	SU3	5 <sup>1</sup> / <sub>16</sub>	3	<sup>7</sup> / <sub>8</sub>	<sup>5</sup> / <sub>8</sub>	2.4
4	SU4	6 <sup>3</sup> / <sub>16</sub>	4	1	<sup>3</sup> / <sub>4</sub>	4.0

Avoid contact of hardware with load edges.  
*Unilink* has the same rated capacities as TT or TC slings.

#### Forged Aluminum Triangles and Chokers

##### **WARNING**

Read Definition on page 3

Aluminum is severely degraded by alkali, caustic environments, acids and salt water.

Aluminum Triangles and Chokers are available but may only be used with single ply web slings within the rated capacities shown in the table. They should not be used with *Dura-Web* 2000 webbing.

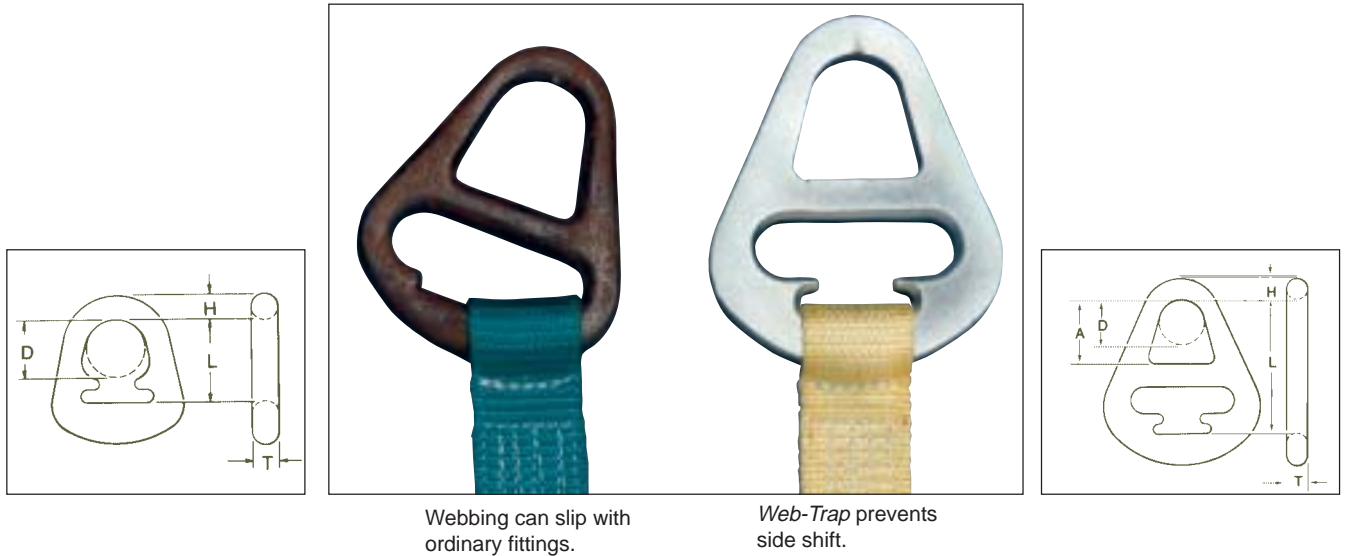
Forged from aircraft aluminum, this tough alloy is stronger than mild steel. Aluminum has the advantages of being lightweight, non-sparking and does not rust.

Note: Aluminum triangles and chokers DO NOT offer the advantages of the *Web-Trap* feature. Aluminum fittings are not as durable and cost more than steel.

## WEB SLING HARDWARE

### Web-Trap Steel Sling Hardware - Triangles and Chokers

A significant improvement in triangle and choker design - featuring positive web capture. Webbing can slip to the side of ordinary fittings, not with *Web-Trap*. These fittings feature alloy steel for lighter sling weight and a zinc dichromate plating to inhibit rust.



### Alloy Steel - For One Or Two Ply Slings

Web-Trap Triangles							Web-Trap Chokers						
Web Width	Part No.	Dimensions (in.)				Weight (lbs.)	Part No.	Dimensions (in.)					Weight (lbs.)
		L	D	T	H			L	A	D	T	H	
*2"	ST-2	2 3/8	1 3/4	1/2	5/8	1.0	SC-2	5	2 3/8	1 3/4	1/2	5/8	1.9
*3"	ST-3	3 7/16	2	1/2	3/4	1.9	SC-3	6 1/4	3 3/8	2	1/2	3/4	3.6
*4"	ST-4	4 1/8	2 3/8	1/2	13/16	2.8	SC-4	7	4	2 3/8	1/2	13/16	5.1
6"	ST-6	5 1/2	3 1/8	3/4	1 1/16	6.6	SC-6	9 1/2	5 1/2	3 1/8	3/4	1 1/16	12

### Alloy Steel - For One Ply Slings

Web-Trap Triangles							Web-Trap Chokers						
Web Width	Part No.	Dimensions (in.)				Weight (lbs.)	Part No.	Dimensions (in.)					Weight (lbs.)
		L	D	T	H			L	A	D	T	H	
8"	ST1-8	7 3/4	4	1/2	1 1/4	8	SC1-8	11 1/4	7 1/2	4	1/2	1 7/16	16
10"	ST1-10	8 1/2	5	3/4	1 7/16	16	SC1-10	12 7/8	8 1/4	5	3/4	1 1/2	28
12"	ST1-12	8 1/2	5 1/2	3/4	1 3/4	20	SC1-12	14 1/2	10	5 1/2	3/4	1 3/4	40

### Alloy Steel - For Two Ply Slings

Web-Trap Triangles							Web-Trap Chokers						
Web Width	Part No.	Dimensions (in.)				Weight (lbs.)	Part No.	Dimensions (in.)					Weight (lbs.)
		L	D	T	H			L	A	D	T	H	
8"	ST2-8	7 3/4	4	3/4	1 1/4	12	SC2-8	11 1/4	7 1/2	4	3/4	1 7/16	25
10"	ST2-10	8 1/2	5	1	1 7/16	21	SC2-10	12 7/8	8 1/4	5	1	1 1/2	38
12"	ST2-12	8 1/2	5 1/2	1	1 3/4	27	SC2-12	14 1/2	10	5 1/2	1	1 3/4	54

\* Unlink is standard fitting - Triangle and chokers available on special order only.

## LODELOK HOOKS

This versatile hook can be used on Web Slings, Tuflex Roundlings, Wire Rope Slings or Chain Slings

- Engineered load bearing surfaces reduce bearing pressures
- Forged, positive interlocking nose latch fully engages tip of hook
- Locking mechanism designed for ease of use with gloved hand
- High cycling, long life spring
- Modified I-Beam construction for greater strength
- Forged alloy steel, quenched and tempered
- Every hook proof tested to 2 times its Working Load Limit
- Engineered flat in hook's eye improves performance with web slings
- No catch points to snag lines
- Finish coat electrostatically and heat cured

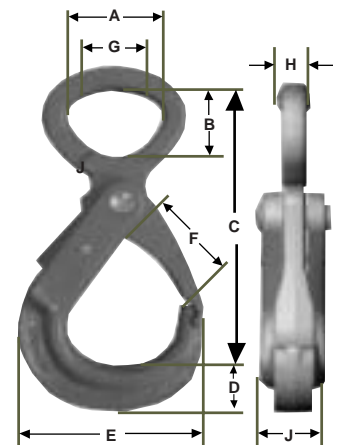


Lodelok Hook Part No.	932ELHCM	38ELHCM	12ELHCM	58ELHCM
Working Load Limit @ 4:1	4,300	8,800	15,000	22,600
Working Load Limit @ 5:1	3,400	7,000	12,000	18,000
Chain Slings (G80 or G100)	9/32	3/8	1/2	5/8
Wire Rope Slings (EIP, IWRC)	3/8	9/16	3/4	7/8
Tuflex	EN30	EN60	EN120	EN180
Web Slings (Eye & Eye, 1 Ply)	EE1-802	EE1-804	EE1-806	EE1-810
Web Slings (Eye & Eye, 2 Ply)	EE2-801	EE2-802	EE2-804	EE2-806
Web Slings (Endless, 1 Ply)	EN1-801	EN1-802	EN1-804	EN1-806
Web Slings (Endless, 2 Ply)	-	EN2-801	EN2-802	EN2-803

Note: Slings shown represent the maximum size to be used with each hook.

### Dimensions (In.)

Part No.	A	B	C	D	E	F Min	G	H	J	Approx. Wt. Ea. (Lbs.)
932ELHCM	2.00	1.31	5.43	1.00	3.89	1.563	1.47	0.63	1.19	2.6
38ELHCM	2.50	1.78	7.41	1.25	5.03	2.250	2.00	0.75	1.25	4.9
12ELHCM	3.44	2.38	9.38	1.75	6.68	2.813	2.59	1.00	1.63	10.5
58ELHCM	3.94	2.62	10.71	2.00	8.04	3.125	2.92	1.25	1.88	16.5



### ⚠ WARNING

TO AVOID INJURY: Replace hook if nicked, gouged, cracked or hook exhibits any deformation. Inspect tip and throat for misalignment or deformation. Never apply shock loads. Do not side load or tip load. Do not exceed working load limit. Do not apply load to latch. Apply load slowly.

## REVERSE EYE SLINGS

### Reverse Eye (RE) Slings

The Best General Purpose Web Sling Available

The Reverse Eye Sling is a modified endless sling, reinforced and protected on all sides. The most rugged and versatile of all web slings. The *Lift-All* enhanced version incorporates premium wear resistant webbing for protection on ALL surfaces.

### Reverse Eye Features, Advantages and Benefits

#### Promotes Safety

- Superior choke hitch performance grips load securely
- Reinforced eyes augment strength
- Red core yarn warning system aids in the inspection process
- *Tuff-Tag* provides serial numbered identification for traceability

#### Saves Money

- Wear resistant web cover offers superior abrasion resistance and sling life
- Reversible eyes reduce wear and increase sling life
- Top grade slings using *Tuff-Edge* webbing are armored on all four sides resulting in the toughest web sling available

#### Saves Time

- Eyes nest well on crane hook for easy rigging
- Flat eye construction is available to facilitate removal from under loads

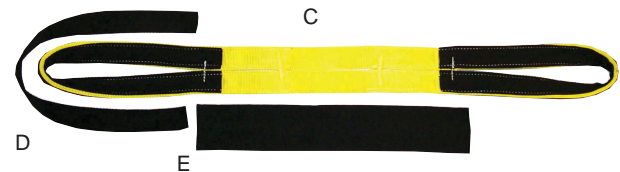
There are two grades of *Lift-All* Reverse Eye Slings: *Tuff-Edge* and *Webmaster 1200*.

The Reverse Eye Sling is Not Just an Endless Sling with Wear Pads.



Single Ply Endless with Reinforced Eyes

- A. Extended web length makes 2 Ply eyes.  
 B. Reinforcing web piece sewn on to make 2 Ply eye.



Added Wear Pads to Both Sides of Body and Eyes.

- C. Single Ply Endless Sling with butted sides.  
 D. Texturized Wear Pads on both sides of eyes.  
 E. Texturized Wear Pads sewn on both sides of body.



Completed RE sling may be 1-2 or 3 ply endless sling with reinforcing webbing for each loop, and texturized wear pad on each side of eyes and sling body.

### Heavy Duty RE Slings - *Tuff-Edge*

### Standard Duty RE Slings - *Webmaster 1200*

	Part No.	Rated Capacity (lbs.)*			Sling Thickness (in.)	Sling Width (in.)	Eye Length (in.)	Part No.	Rated Capacity (lbs.)*			Sling Thickness (in.)
		Vertical	Choker	V. Basket					Vertical	Choker	V. Basket	
One Ply	RE1-802T	4,500	3,600	9,000	5/16	2	9	RE1-602	3,600	2,900	7,200	1/4
	RE1-804T	7,700	6,200	15,400	5/16	4	12	RE1-604	6,800	5,400	13,600	1/4
	RE1-806T	11,000	8,800	22,000	5/16	6	15	RE1-606	8,000	6,400	16,000	1/4
Two Ply	RE2-802T	6,500	5,200	13,000	1/2	2	9	RE2-602	5,200	4,200	10,400	3/8
	RE2-804T	13,000	10,400	26,000	1/2	4	12	RE2-604	10,500	8,400	21,000	3/8
	RE2-806T	20,000	16,000	40,000	1/2	6	15	RE2-606	14,400	11,500	28,800	3/8
Three Ply	RE3-804T	16,400	13,100	32,800	1 1/16	4	14	RE3-604	14,000	11,200	28,000	1/2
	RE3-806T	25,500	20,400	51,000	1 1/16	6	18	RE3-606	20,000	16,000	40,000	1/2

Reverse eye slings using *Webmaster 1600* webbing are available on special order.

\* **WARNING** Do not exceed rated capacities. Sling capacity decreases as the angle from horizontal decreases. Slings should not be used at angles of less than 30°. Refer to Effect of Angle chart page 10.

# TUFF-EDGE II

## THE NEW STANDARD FOR HEAVY DUTY INDUSTRIAL SLINGS!

85% Higher Retained Strength \*  
30% Better Edge Cut Resistance

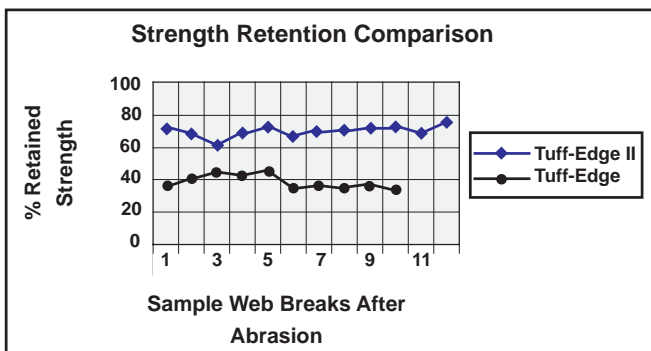
### Tuff-Edge™ Polyester Web Slings

U. S. Patent No. 4856387

Our original **Tuff-Edge** webbing improved web sling edge durability with its superior edge yarns. Now **Tuff-Edge II** web is here to give you even greater sling life. Not only does **Tuff-Edge II** maintain the same great edge advantage as **Tuff-Edge** (30% cut & 67% abrasion resistance improvement over standard sling webbing), but it also has greatly improved surface abrasion resistance as a result of a special coating not found on other webs.

\* Using the standard ASTM D6770-02 test method for abrasion resistance of textile webbing, **Tuff-Edge II** webbing was compared to **Tuff-Edge** webbing. After being subjected to the same number of hex bar abrasion cycles, **Tuff-Edge II** retained an average break strength that was 85% higher than **Tuff-Edge**!

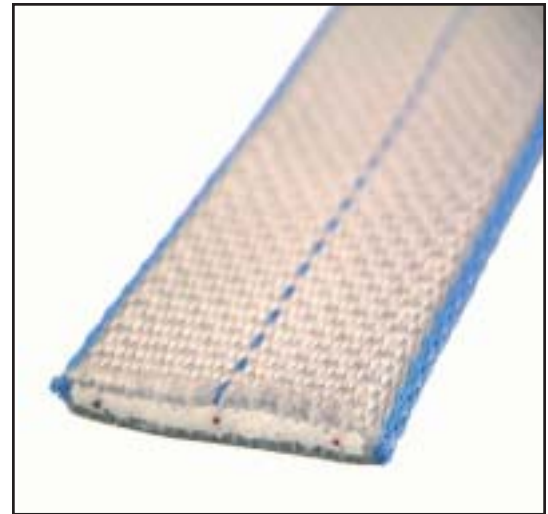
Although you should **always** pad and protect synthetic slings from load edges, normal wear and tear should be greatly reduced when using **Tuff-Edge II**, giving you greater sling life and reduced sling costs.



### Tuff-Edge II Features, Advantages and Benefits

#### Promotes Safety

- Red Core yarn warning system aids in the inspection process
- **Tuff-Tag** provides serial numbered identification for traceability
- Proven sling web construction



#### Saves Money

- Polymer coated edge yarns resist cutting and abrasion to extend sling life
- Silver colored web treatment fights abrasion for additional sling life
- **Tuff-Tag** provides required OSHA information for the life of the sling, not just the life of the tag

#### Saves Time

- Easy identification - silver body, blue edges, blue center stripe

Always use Wear Pads to protect synthetic slings from being cut by load edges.

See page 118

## TUFF-EDGE WORKS!

<p><b>WIRE ROPE &amp; RIGGING CONSULTANTS</b></p> <p>Ship/Mail • 420 0th Pacific Hwy • Woodland, WA 98074</p>	<p><b>CRANE &amp; EQUIPMENT TRAINING</b></p> <p>Voice • (800) 727-6355 • (509) 726-4100 Fax • (509) 726-4122 www.wrt.com • E-Mail • rigging@wrt.com</p>
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January 4, 2001

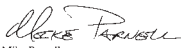
We have about 400 slings in use at our Crane & Rigging Training Center in Woodland, WA, along with a major assortment of rigging hardware from almost every major manufacturer in the U.S. In the training center, our participants rig and move loads which are 1 to 6 ton. Most of the loads are rigged with synthetic web slings and some roundslings. We have about 80 LiftAll slings on the property, which are used with our gantry and mobile cranes.

Our rigging takes a beating like everyone else's, even using wear pads on most lifts. Mr. Dave Pelkey, one of our Woodland based trainers helps instruct our students to inspect their slings on a use-by-use basis. As a result of the lift-by-lift, daily, monthly and annual inspections he discovered something that really surprised all of us.

Your Tuff-Edge web slings have an amazing ability to endure heavy usage where other web slings do not. Every training program we watch our students use the Tuff-Edge slings right along with other sling types in reasonably equal amounts. They seem to do a much better job resisting the common types of abrasion, crushing and surface nicking. We seem to be rejecting only 1 Tuff-Edge type sling for every 10 regular synthetic web slings.

Even though we instruct our students to use wear pads, it is not always feasible for every lift. Often slight damage occurs against a semi-smooth surface as a result of high p.s.i. and tightening during the lift. The Tuff-Edge slings seem to survive extremely well, when other slings made of standard nylon or polyester begin to show physical evidence of wear and tear.

Due to our independent place in the crane and rigging industry, we rarely make comments about the products manufactured for general use. In this case, I thought we should at least extend a compliment to the developers and designers of the Tuff-Edge sling. We intend on replacing our inventory with Tuff-Edge slings as the other brands wear out. It will be an excellent investment for us, with a great return. Keep up the good work!

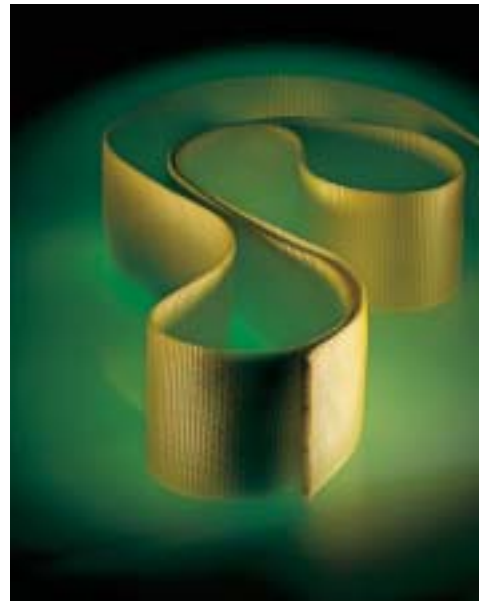
  
Mike Parnell  
President

Charter Member  
**ACRI**  
Association of Crane & Rigging Professionals

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## Webmaster 1600 Nylon and Polyester\* Slings The Traditional Standard for Heavy Duty Slings

This grade of synthetic web sling is popular because most users consider its' strength and service life to be a good buy.



### Features, Advantages and Benefits


#### Promotes Safety

- Red core yarn warning system aids in the inspection process
- *Tuff-Tag* provides serial numbered identification for traceability
- Proven sling web construction

#### Saves Money

- Yellow treatment for abrasion resistance and extended sling life
- *Tuff-Tag* provides required OSHA information for the life of the sling, not just the life of the tag.

\* Note: Polyester web is identified by single blue surface stripe.



ISO 9001 Certified

**THE OHIO BROACH & MACHINE COMPANY**  
13200 TUPPER, S.W. 57500, PLYMOUTH, OHIO 44139 • 3300-4100 • USA  
 PHONE: 440-346-1111 • FAX: 440-346-1112 • e-mail: sales@ohio-broach.com • http: www.ohio-broach.com

February 12, 2001

While looking over our current inspection report, it occurred to me that we really haven't been disposing of as many slings as we have in the past. Upon closer review, it appears that most of the slings that Ohio Broach has in service are your silver Tuff-Edge type.

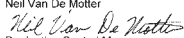
A couple of years back when Ohio Broach started to replace the bad slings with your Tuff-Edge slings, the rejection rate during inspections of our nylon slings was at least in the +50% range. Since then the rejection rate has dropped dramatically. This past year it was as low as 18%.

Having our slings last longer has saved the company money and more importantly, it provides Ohio Broach with a safer work environment.

I would definitely recommend your Tuff-Edge product to anyone who uses nylon slings.

Thank you for your time and efforts that keep our work place safe.

Sincerely,

Neil Van De Motter  
  
Production Control Manager

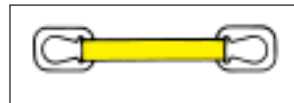
BROACH-ETS • OHIO BROACHING MACHINES • BROACH SHARPENING • PRODUCTION BRANCHING

## TUFF-EDGE AND WEBMASTER 1600 POLYESTER SLINGS

### Type U *Unilink* Hardware Slings

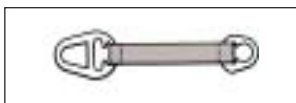


(Also available as Types 1 & 2 at same Rated Capacities)

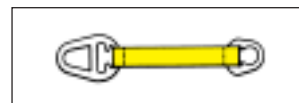


	Tuff-Edge Part No.	Web Width (in.)	Rated Capacity (lbs.)*			Webmaster Part No. ***
			Vertical	Choker	V. Basket	
One Ply	UU1-802T	2	3,200	2,500	6,400	UU1-802D
	UU1-803T	3	4,800	3,800	9,600	UU1-803D
	UU1-804T	4	6,400	5,000	12,800	UU1-804D
Two Ply	UU2-802T	2	6,400	5,000	12,800	UU2-802D
	UU2-803T	3	8,600	6,900	17,200	UU2-803D
	UU2-804T	4	11,500	9,200	23,000	UU2-804D

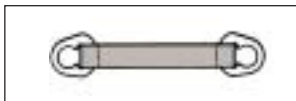
### Type 1 (TC) and Type 2 (TT) *Web-Trap* Hardware Slings



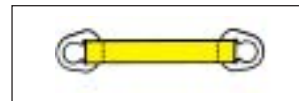
Type 1 (TC)



Type 1 (TC)



Type 2 (TT)



Type 2 (TT)

	Tuff-Edge Part No.		Web Width (in.)	Rated Capacity (lbs.)*			Webmaster Part No. ***	
	Type 1	Type 2**		Vertical	Choker	V. Basket	Type 1	Type 2**
One Ply	TC1-806T	TT1-806T	6	9,600	7,700	19,200	TC1-806D	TT1-806D
	TC1-808T	TT1-808T	8	12,800	10,200	25,600	TC1-808D	TT1-808D
	TC1-810T	TT1-810T	10	16,000	12,800	32,000	TC1-810D	TT1-810D
	TC1-812T	TT1-812T	12	19,200	15,400	38,400	TC1-812D	TT1-812D
	TC1-816T	TT1-816T	16	25,500	20,400	51,000	TC1-816D	TT1-816D
Two Ply	TC2-806T	TT2-806T	6	16,800	13,400	33,600	TC2-806D	TT2-806D
	TC2-808T	TT2-808T	8	22,400	17,900	44,800	TC2-808D	TT2-808D
	TC2-810T	TT2-810T	10	28,000	22,400	56,000	TC2-810D	TT2-810D
	TC2-812T	TT2-812T	12	33,600	26,800	67,200	TC2-812D	TT2-812D
	TC2-816T	TT2-816T	16	44,800	35,800	89,600	TC2-816D	TT2-816D

Note:  
2", 3" and 4" Hardware Slings feature *Unilink* fittings.  
(See dimensions page 18.)

*Web-Trap* Triangles and Chokers are also available.  
(See dimensions page 19.)

Three and four ply hardware slings and wider width hardware slings are available upon request.

\*\* Type 2 (TT) can not be used in a choker hitch.

\*\*\* Delete the "D" to order nylon.  
(See "How to Order" on page 17.)



**WARNING**

Do not exceed rated capacities. Sling capacity decreases as the angle from horizontal decreases. Slings should not be used at angles of less than 30°. Refer to Effect of Angle chart page 10.

## TUFF-EDGE AND WEBMASTER 1600 POLYESTER SLINGS

### Eye and Eye Slings (Flat or Twisted)



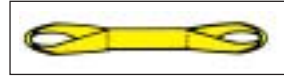
Type 3 (Flat Eye)



Type 3 (Flat Eye)



Type 4 (Twisted Eye)



Type 4 (Twisted Eye)

	Tuff-Edge Part No.	Web Width (in.)	Rated Capacity * (lbs.)			Webmaster Part No. ***
			Vertical	Choker	V. Basket	
One Ply	EE1-801T	1	1,600	1,250	3,200	EE1-801D
	EE1-802T	2	3,200	2,500	6,400	EE1-802D
	EE1-803T	3	4,800	3,800	9,600	EE1-803D
	EE1-804T	4	6,400	5,000	12,800	EE1-804D
	EE1-806T	6	9,600	7,700	19,200	EE1-806D
	EE1-808T	8	12,800	10,200	25,600	EE1-808D
	EE1-810T	10	16,000	12,800	32,000	EE1-810D
	EE1-812T	12	19,200	15,400	38,400	EE1-812D
Two Ply	EE2-801T	1	3,200	2,500	6,400	EE2-801D
	EE2-802T	2	6,400	5,000	12,800	EE2-802D
	EE2-803T	3	8,600	6,900	17,200	EE2-803D
	EE2-804T	4	11,500	9,200	23,000	EE2-804D
	EE2-806T	6	16,300	13,000	32,600	EE2-806D
	EE2-808T	8	19,200	15,400	38,400	EE2-808D
	EE2-810T	10	22,400	17,900	44,800	EE2-810D
	EE2-812T	12	26,900	21,500	53,800	EE2-812D
Three Ply	EE3-801T	1	4,100	3,300	8,200	EE3-801D
	EE3-802T	2	8,300	6,600	16,600	EE3-802D
	EE3-803T	3	12,500	10,000	25,000	EE3-803D
	EE3-804T	4	16,000	12,800	32,000	EE3-804D
	EE3-806T	6	23,000	18,400	46,000	EE3-806D
	EE3-808T	8	30,700	24,500	61,400	EE3-808D
	EE3-810T	10	36,800	29,400	73,600	EE3-810D
	EE3-812T	12	44,000	35,200	88,000	EE3-812D
Four Ply	EE4-801T	1	5,000	4,000	10,000	EE4-801D
	EE4-802T	2	10,000	8,000	20,000	EE4-802D
	EE4-803T	3	14,900	11,900	29,800	EE4-803D
	EE4-804T	4	19,800	15,800	39,600	EE4-804D
	EE4-806T	6	29,800	23,800	59,600	EE4-806D
	EE4-808T	8	39,700	31,700	79,400	EE4-808D
	EE4-810T	10	49,600	39,600	99,200	EE4-810D
	EE4-812T	12	59,500	47,600	119,000	EE4-812D

Always use Wear Pads to protect synthetic slings from being cut by load edges.



See page 118

Note:  
Tapering - Types 3 and 4 slings are tapered at 3" and wider unless otherwise specified.  
\*\*\* Delete the "D" to order nylon.  
(See "How to Order" on page 17.)

**⚠ WARNING**

Do not exceed rated capacities. Sling capacity decreases as the angle from horizontal decreases. Slings should not be used at angles of less than 30°. Refer to Effect of Angle chart page 10.

### Eye Length (Applies to all Web Slings)

Plies of Web	Sling Width (in.)							
	1	2	3	4	6	8	10	12
1	8 1/2	10	11	12	16	20	24	24
2	8 1/2	10	11	12	16	20	24	24
3	10	12	14	16	18	24	24	24
4	10	12	14	16	18	24	24	24

## TUFF-EDGE AND WEBMASTER 1600 POLYESTER SLINGS

### Endless Slings



Type 5



Type 5

	Tuff-Edge Part No.	Web Width (in.)	Rated Capacity (lbs.)*			Webmaster Part No. ***
			Vertical	Choker	V. Basket	
One Ply	EN1-801T	1	3,200	2,500	6,400	EN1-801D
	EN1-802T	2	6,400	5,000	12,800	EN1-802D
	EN1-803T	3	8,600	6,900	17,200	EN1-803D
	EN1-804T	4	11,500	9,200	23,000	EN1-804D
	EN1-806T	6	16,300	13,000	32,600	EN1-806D
	EN1-808T	8	19,200	15,400	38,400	EN1-808D
	EN1-810T	10	22,400	17,900	44,800	EN1-810D
	EN1-812T	12	26,900	21,500	53,800	EN1-812D
Two Ply	EN2-801T	1	6,200	4,900	12,400	EN2-801D
	EN2-802T	2	12,200	9,800	24,400	EN2-802D
	EN2-803T	3	16,300	13,000	32,600	EN2-803D
	EN2-804T	4	20,700	16,500	41,400	EN2-804D
	EN2-806T	6	28,600	23,000	57,200	EN2-806D
	EN2-808T	8	30,700	24,500	61,400	EN2-808D
	EN2-810T	10	33,600	26,800	67,200	EN2-810D
	EN2-812T	12	37,600	30,000	75,200	EN2-812D
Three Ply	EN3-801T	1	8,000	6,400	16,000	EN3-801D
	EN3-802T	2	16,000	12,800	32,000	EN3-802D
	EN3-803T	3	21,500	17,200	43,000	EN3-803D
	EN3-804T	4	28,700	23,000	57,400	EN3-804D
	EN3-806T	6	40,700	32,500	81,400	EN3-806D
	EN3-808T	8	46,000	36,800	92,000	EN3-808D
	EN3-810T	10	51,500	41,200	103,000	EN3-810D
	EN3-812T	12	59,200	47,300	118,400	EN3-812D
Four Ply	EN4-801T	1	10,000	8,000	20,000	EN4-801D
	EN4-802T	2	19,800	15,800	39,600	EN4-802D
	EN4-803T	3	26,700	21,300	53,400	EN4-803D
	EN4-804T	4	35,600	28,400	71,200	EN4-804D
	EN4-806T	6	50,500	40,400	101,000	EN4-806D
	EN4-808T	8	57,600	46,000	115,200	EN4-808D
	EN4-810T	10	67,200	53,700	134,400	EN4-810D
	EN4-812T	12	80,700	64,500	161,400	EN4-812D

Always use Wear Pads to protect synthetic slings from being cut by load edges.

See page 118

Note: Type 5 (Endless) slings are Not tapered unless specified.

\*\*\*Delete the "D" to order nylon.

(See "How to Order" page 17)

**⚠ WARNING**

Do not exceed rated capacities. Sling capacity decreases as the angle from horizontal decreases. Slings should not be used at angles of less than 30°. Refer to Effect of Angle chart page 10.

**Tuflex is an Alternative ...**

For three and four ply slings wider than 6", Tuflex Roundslings should be seriously considered. Tuflex offers increased flexibility, ease of use and lower cost. (See pages 41 through 44.)

## STONE HANDLING SLINGS

### Stone Handling (SH) Slings

Special abrasion resistant 4-inch nylon webbing for handling stone, concrete and building panels.

*Lift-All* Stone Handling Slings feature a soft abrasion resistant wear pad woven onto the load side of the webbing, providing outstanding protection for both the sling and the polished stone surfaces.

Note: EE Sling - flat eye only - untapered 12" eye length.

### Features, Advantages and Benefits

#### Promotes Safety

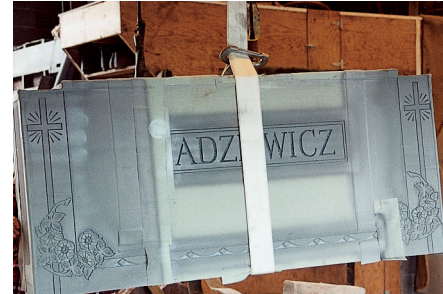
- Red core yarn warning system aids in the inspection process
- *Tuff-Tag* provides serial numbered identification for traceability
- Proven sling web construction

#### Saves Money

- Heavy, soft yarns on load side to help protect the sling from abrasion
- White pile yarns prevent color transfer to load
- Two ply version results in an abrasion resistant face on both sides
- *Tuff-Tag* provides required OSHA information for the life of the sling, not just the life of the tag

#### Saves Time

- Two ply version with abrasion resistance on both sides, does not need orientation by rigger



	Part No.	Rated Capacity (lbs.)*		
		Vertical	Choker	V. Basket
One Ply	UU1-SH4	5,400	4,000	10,800
	EE1-SH4	5,400	4,000	10,800
	EN1-SH4	8,000	6,000	16,000
Two Ply	UU2-SH4	9,400	7,000	18,800
	EE2-SH4	9,400	7,000	18,800
	EN2-SH4	8,000	6,000	16,000

#### \* **WARNING**

Do not exceed rated capacities. Sling capacity decreases as the angle from horizontal decreases. Slings should not be used at angles of less than 30°. Refer to Effect of Angle chart page 10.

## TUFF-EDGE HARDWARE / BRIDLE SLINGS

### Hardware/Bridle Slings

Useful when fixed lifting points are available.

### Features, Advantages and Benefits

#### Promotes Safety

- *Tuff-Edge* web material is standard - helps prevent sling damage
- Better load control and balance by using fixed fitting points and multiple legs
- Standard oblong links and hooks are forged from alloy steel for strength and reliability
- Red core yarn warning system aids in the inspection process
- Hardware avoids cutting and abrasion of sling at bearing points
- *Tuff-Tag* provides serial numbered identification for traceability
- Proven sling web construction

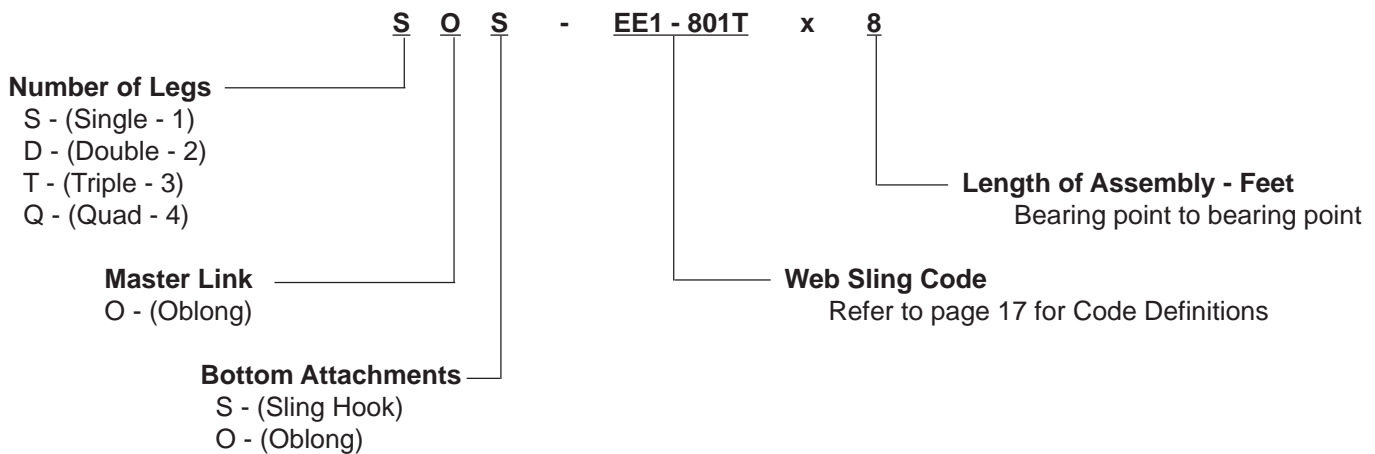
#### Saves Money

- Soft web sling legs protect load
- Endless type allows shifting of wear points
- *Tuff-Edge* material extends sling life
- Sling hooks and links can be rewebbed
- *Tuff-Tag* provides required OSHA information for the life of the sling, not just the life of the tag

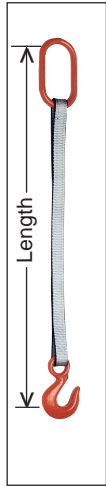
#### Saves Time

- Lighter weight and easier to use than chain or wire rope
- Sling hooks quickly connect to loads having hoist rings or eye bolts

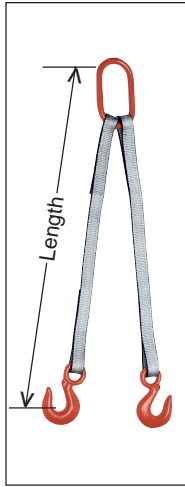
### How to Order



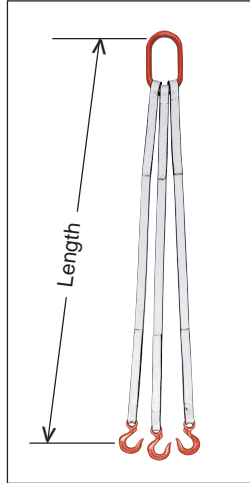
## TUFF-EDGE HARDWARE / BRIDLE SLINGS



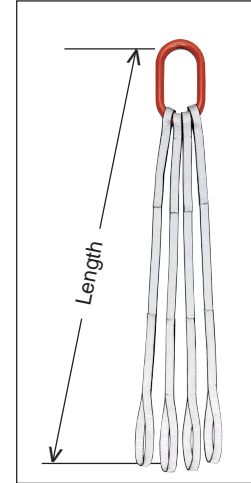
SOS  
Single Leg  
Oblong Link  
Sling Hook  
(EE1-801T)



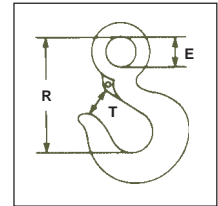
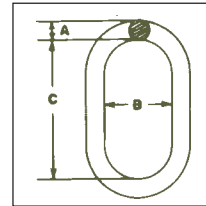
DOS  
Double Leg  
Oblong Link  
Sling Hook  
(EE1-801T)



TOS  
Triple Leg  
Oblong Link  
Sling Hook  
(EE1-801T)



QO  
Quad Leg  
Oblong Link  
(EE1-801T)



### Hardware/Bridle Slings

Part No. For Web Sling Legs	Web Width (in.)	Web Plies	Number of Legs	Rated Capacity (lbs.)*				Oblong Link (in.) A x B x C	Sling Hook (Alloy)	
				Vertical	@ 60°	@ 45°	@ 30°		Size	E x R x T (in.)
EE1-801T	1	1	Single	1,600				1/2 x 2 1/2 x 5	1TA	3/4 x 3 1/8 x 1
	1	1	Double		2,700	2,200	1,600	1/2 x 2 1/2 x 5	1TA	3/4 x 3 1/8 x 1
	1	1	Triple		4,100	3,300	2,400	3/4 x 3 x 6	1TA	3/4 x 3 1/8 x 1
	1	1	Quad		5,500	4,500	3,200	1 x 4 x 8	1TA	3/4 x 3 1/8 x 1
EE2-801T	1	2	Single	3,000				1/2 x 2 1/2 x 5	1 1/2TA	7/8 x 3 21/32 x 1 1/16
	1	2	Double		5,100	4,200	3,000	3/4 x 3 x 6	1 1/2TA	7/8 x 3 21/32 x 1 1/16
	1	2	Triple		7,700	6,300	4,500	3/4 x 3 x 6	1 1/2TA	7/8 x 3 21/32 x 1 1/16
	1	2	Quad		10,300	8,400	6,000	1 x 4 x 8	1 1/2TA	7/8 x 3 21/32 x 1 1/16
EE1-802T	2	1	Single	3,000				1/2 x 2 1/2 x 5	1 1/2 A	7/8 x 3 21/32 x 1 1/16
	2	1	Double		5,100	4,200	3,000	3/4 x 3 x 6	1 1/2TA	7/8 x 3 21/32 x 1 1/16
	2	1	Triple		7,700	6,300	4,500	3/4 x 3 x 6	1 1/2TA	7/8 x 3 21/32 x 1 1/16
	2	1	Quad		10,300	8,400	6,000	1 x 4 x 8	1 1/2TA	7/8 x 3 21/32 x 1 1/16
EE2-802T	2	2	Single	6,000				3/4 x 3 x 6	3TA	1 1/4 x 4 11/16 x 1 1/4
	2	2	Double		10,300	8,400	6,000	1 x 4 x 8	3TA	1 1/4 x 4 11/16 x 1 1/4
	2	2	Triple		15,500	12,700	9,000	1 x 4 x 8	3TA	1 1/4 x 4 11/16 x 1 1/4
	2	2	Quad		20,700	16,900	12,000	1 1/4 x 4 3/8 x 8 3/4	3TA	1 1/4 x 4 11/16 x 1 1/4

NOTE: Hardware capacities correspond to the appropriate sling capacities.

**WARNING** Do not exceed rated capacities. Sling capacity decreases as the angle from horizontal decreases. Slings should not be used at angles of less than 30°. Refer to Effect of Angle chart page 10.

# TUFF-EDGE II

## THE NEW STANDARD FOR HEAVY DUTY INDUSTRIAL SLINGS!

85% Higher Retained Strength \*  
30% Better Edge Cut Resistance

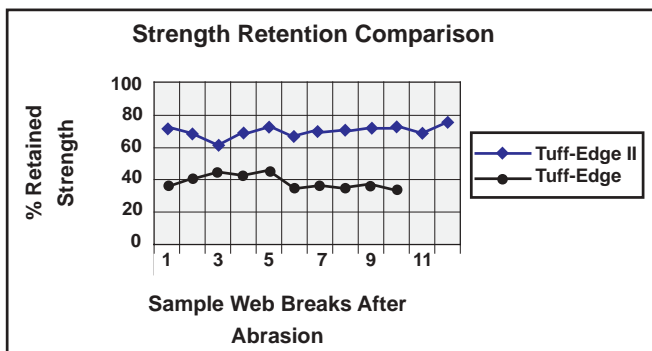
### Tuff-Edge™ Polyester Web Slings

U. S. Patent No. 4856387

Our original **Tuff-Edge** webbing improved web sling edge durability with its superior edge yarns. Now **Tuff-Edge II** web is here to give you even greater sling life. Not only does **Tuff-Edge II** maintain the same great edge advantage as **Tuff-Edge** (30% cut & 67% abrasion resistance improvement over standard sling webbing), but it also has greatly improved surface abrasion resistance as a result of a special coating not found on other webs.

\* Using the standard ASTM D6770-02 test method for abrasion resistance of textile webbing, **Tuff-Edge II** webbing was compared to **Tuff-Edge** webbing. After being subjected to the same number of hex bar abrasion cycles, **Tuff-Edge II** retained an average break strength that was 85% higher than **Tuff-Edge**!

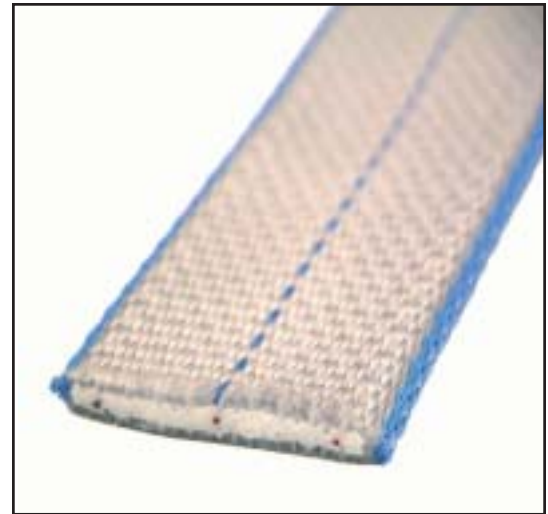
Although you should **always** pad and protect synthetic slings from load edges, normal wear and tear should be greatly reduced when using **Tuff-Edge II**, giving you greater sling life and reduced sling costs.



### Tuff-Edge II Features, Advantages and Benefits

#### Promotes Safety

- Red Core yarn warning system aids in the inspection process
- **Tuff-Tag** provides serial numbered identification for traceability
- Proven sling web construction



#### Saves Money

- Polymer coated edge yarns resist cutting and abrasion to extend sling life
- Silver colored web treatment fights abrasion for additional sling life
- **Tuff-Tag** provides required OSHA information for the life of the sling, not just the life of the tag

#### Saves Time

- Easy identification - silver body, blue edges, blue center stripe

Always use Wear Pads to protect synthetic slings from being cut by load edges.

See page 118

## TUFF-EDGE WORKS!

<p><b>WIRE ROPE &amp; RIGGING CONSULTANTS</b></p> <p>Ship/Mail • 420 0th Pacific Hwy • Woodland, WA 98074</p>	<p><b>CRANE &amp; EQUIPMENT TRAINING</b></p> <p>Voice • (800) 727-6355 • (509) 726-4100 Fax • (509) 726-4122 www.wrt.com • E-Mail • rigging@wrt.com</p>
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January 4, 2001

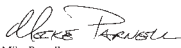
We have about 400 slings in use at our Crane & Rigging Training Center in Woodland, WA, along with a major assortment of rigging hardware from almost every major manufacturer in the U.S. In the training center, our participants rig and move loads which are 1 to 6 ton. Most of the loads are rigged with synthetic web slings and some roundslings. We have about 80 LiftAll slings on the property, which are used with our gantry and mobile cranes.

Our rigging takes a beating like everyone else's, even using wear pads on most lifts. Mr. Dave Pelkey, one of our Woodland based trainers helps instruct our students to inspect their slings on a use-by-use basis. As a result of the lift-by-lift, daily, monthly and annual inspections he discovered something that really surprised all of us.

Your Tuff-Edge web slings have an amazing ability to endure heavy usage where other web slings do not. Every training program we watch our students use the Tuff-Edge slings right along with other sling types in reasonably equal amounts. They seem to do a much better job resisting the common types of abrasion, crushing and surface nicking. We seem to be rejecting only 1 Tuff-Edge type sling for every 10 regular synthetic web slings.

Even though we instruct our students to use wear pads, it is not always feasible for every lift. Often slight damage occurs against a semi-smooth surface as a result of high p.s.i. and tightening during the lift. The Tuff-Edge slings seem to survive extremely well, when other slings made of standard nylon or polyester begin to show physical evidence of wear and tear.

Due to our independent place in the crane and rigging industry, we rarely make comments about the products manufactured for general use. In this case, I thought we should at least extend a compliment to the developers and designers of the Tuff-Edge sling. We intend on replacing our inventory with Tuff-Edge slings as the other brands wear out. It will be an excellent investment for us, with a great return. Keep up the good work!

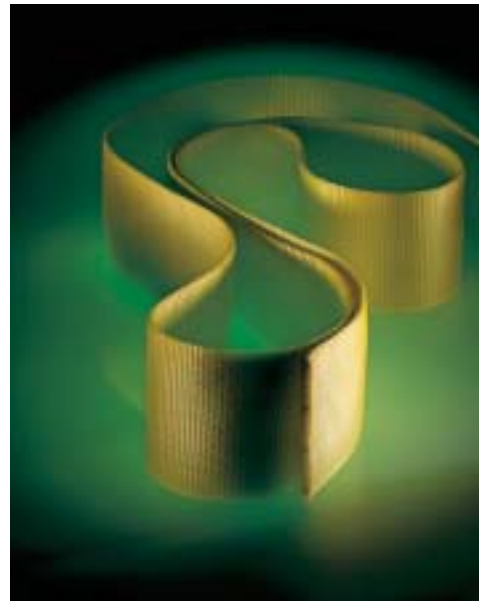
  
Mike Parnell  
President

Charter Member  
**ACRI**  
Association of Crane & Rigging Professionals

WRRC & CET are divisions of Industrial Training International, Inc.

## Webmaster 1600 Nylon and Polyester\* Slings The Traditional Standard for Heavy Duty Slings

This grade of synthetic web sling is popular because most users consider its' strength and service life to be a good buy.



### Features, Advantages and Benefits


#### Promotes Safety

- Red core yarn warning system aids in the inspection process
- *Tuff-Tag* provides serial numbered identification for traceability
- Proven sling web construction

#### Saves Money

- Yellow treatment for abrasion resistance and extended sling life
- *Tuff-Tag* provides required OSHA information for the life of the sling, not just the life of the tag.

\* Note: Polyester web is identified by single blue surface stripe.



ISO 9001 Certified

**THE OHIO BROACH & MACHINE COMPANY**  
13200 TUPPER, S.W. 57500, PLYMOUTH • WALKER, GA 30189 • USA  
 PHONE: 404-846-1111 • FAX: 404-846-1112 • e-mail: sales@ohio-broach.com • http: www.ohio-broach.com

February 12, 2001

While looking over our current inspection report, it occurred to me that we really haven't been disposing of as many slings as we have in the past. Upon closer review, it appears that most of the slings that Ohio Broach has in service are your silver Tuff-Edge type.

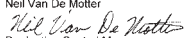
A couple of years back when Ohio Broach started to replace the bad slings with your Tuff-Edge slings, the rejection rate during inspections of our nylon slings was at least in the +50% range. Since then the rejection rate has dropped dramatically. This past year it was as low as 18%.

Having our slings last longer has saved the company money and more importantly, it provides Ohio Broach with a safer work environment.

I would definitely recommend your Tuff-Edge product to anyone who uses nylon slings.

Thank you for your time and efforts that keep our work place safe.

Sincerely,

Neil Van De Motter  
  
Production Control Manager

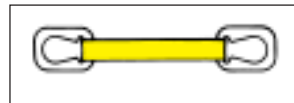
BROACH-ETS • OHIO BROACHING MACHINES • BROACH SHARPENING • PRODUCTION BRANCHING

## TUFF-EDGE AND WEBMASTER 1600 POLYESTER SLINGS

### Type U *Unilink* Hardware Slings

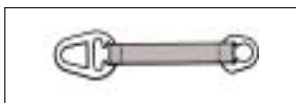


(Also available as Types 1 & 2 at same Rated Capacities)

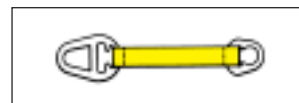


	Tuff-Edge Part No.	Web Width (in.)	Rated Capacity (lbs.)*			Webmaster Part No. ***
			Vertical	Choker	V. Basket	
One Ply	UU1-802T	2	3,200	2,500	6,400	UU1-802D
	UU1-803T	3	4,800	3,800	9,600	UU1-803D
	UU1-804T	4	6,400	5,000	12,800	UU1-804D
Two Ply	UU2-802T	2	6,400	5,000	12,800	UU2-802D
	UU2-803T	3	8,600	6,900	17,200	UU2-803D
	UU2-804T	4	11,500	9,200	23,000	UU2-804D

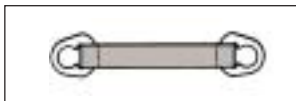
### Type 1 (TC) and Type 2 (TT) *Web-Trap* Hardware Slings



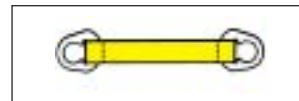
Type 1 (TC)



Type 1 (TC)



Type 2 (TT)



Type 2 (TT)

	Tuff-Edge Part No.		Web Width (in.)	Rated Capacity (lbs.)*			Webmaster Part No. ***	
	Type 1	Type 2**		Vertical	Choker	V. Basket	Type 1	Type 2**
One Ply	TC1-806T	TT1-806T	6	9,600	7,700	19,200	TC1-806D	TT1-806D
	TC1-808T	TT1-808T	8	12,800	10,200	25,600	TC1-808D	TT1-808D
	TC1-810T	TT1-810T	10	16,000	12,800	32,000	TC1-810D	TT1-810D
	TC1-812T	TT1-812T	12	19,200	15,400	38,400	TC1-812D	TT1-812D
	TC1-816T	TT1-816T	16	25,500	20,400	51,000	TC1-816D	TT1-816D
Two Ply	TC2-806T	TT2-806T	6	16,800	13,400	33,600	TC2-806D	TT2-806D
	TC2-808T	TT2-808T	8	22,400	17,900	44,800	TC2-808D	TT2-808D
	TC2-810T	TT2-810T	10	28,000	22,400	56,000	TC2-810D	TT2-810D
	TC2-812T	TT2-812T	12	33,600	26,800	67,200	TC2-812D	TT2-812D
	TC2-816T	TT2-816T	16	44,800	35,800	89,600	TC2-816D	TT2-816D

Note:  
2", 3" and 4" Hardware Slings feature *Unilink* fittings.  
(See dimensions page 18.)

*Web-Trap* Triangles and Chokers are also available.  
(See dimensions page 19.)

Three and four ply hardware slings and wider width hardware slings are available upon request.

\*\* Type 2 (TT) can not be used in a choker hitch.

\*\*\* Delete the "D" to order nylon.  
(See "How to Order" on page 17.)



**WARNING**

Do not exceed rated capacities. Sling capacity decreases as the angle from horizontal decreases. Slings should not be used at angles of less than 30°. Refer to Effect of Angle chart page 10.

## TUFF-EDGE AND WEBMASTER 1600 POLYESTER SLINGS

### Eye and Eye Slings (Flat or Twisted)



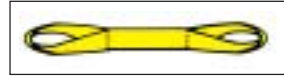
Type 3 (Flat Eye)



Type 3 (Flat Eye)



Type 4 (Twisted Eye)



Type 4 (Twisted Eye)

	Tuff-Edge Part No.	Web Width (in.)	Rated Capacity * (lbs.)			Webmaster Part No. ***
			Vertical	Choker	V. Basket	
One Ply	EE1-801T	1	1,600	1,250	3,200	EE1-801D
	EE1-802T	2	3,200	2,500	6,400	EE1-802D
	EE1-803T	3	4,800	3,800	9,600	EE1-803D
	EE1-804T	4	6,400	5,000	12,800	EE1-804D
	EE1-806T	6	9,600	7,700	19,200	EE1-806D
	EE1-808T	8	12,800	10,200	25,600	EE1-808D
	EE1-810T	10	16,000	12,800	32,000	EE1-810D
Two Ply	EE2-812T	12	19,200	15,400	38,400	EE1-812D
	EE2-801T	1	3,200	2,500	6,400	EE2-801D
	EE2-802T	2	6,400	5,000	12,800	EE2-802D
	EE2-803T	3	8,600	6,900	17,200	EE2-803D
	EE2-804T	4	11,500	9,200	23,000	EE2-804D
	EE2-806T	6	16,300	13,000	32,600	EE2-806D
	EE2-808T	8	19,200	15,400	38,400	EE2-808D
Three Ply	EE2-810T	10	22,400	17,900	44,800	EE2-810D
	EE2-812T	12	26,900	21,500	53,800	EE2-812D
	EE3-801T	1	4,100	3,300	8,200	EE3-801D
	EE3-802T	2	8,300	6,600	16,600	EE3-802D
	EE3-803T	3	12,500	10,000	25,000	EE3-803D
Four Ply	EE3-804T	4	16,000	12,800	32,000	EE3-804D
	EE3-806T	6	23,000	18,400	46,000	EE3-806D
	EE3-808T	8	30,700	24,500	61,400	EE3-808D
	EE3-810T	10	36,800	29,400	73,600	EE3-810D
Four Ply	EE3-812T	12	44,000	35,200	88,000	EE3-812D
	EE4-801T	1	5,000	4,000	10,000	EE4-801D
	EE4-802T	2	10,000	8,000	20,000	EE4-802D
	EE4-803T	3	14,900	11,900	29,800	EE4-803D
	EE4-804T	4	19,800	15,800	39,600	EE4-804D
	EE4-806T	6	29,800	23,800	59,600	EE4-806D
	EE4-808T	8	39,700	31,700	79,400	EE4-808D
	EE4-810T	10	49,600	39,600	99,200	EE4-810D
EE4-812T	12	59,500	47,600	119,000	EE4-812D	

Always use Wear Pads to protect synthetic slings from being cut by load edges.



See page 118

Note:  
Tapering - Types 3 and 4 slings are tapered at 3" and wider unless otherwise specified.  
\*\*\* Delete the "D" to order nylon.  
(See "How to Order" on page 17.)

**⚠ WARNING**

Do not exceed rated capacities. Sling capacity decreases as the angle from horizontal decreases. Slings should not be used at angles of less than 30°. Refer to Effect of Angle chart page 10.

### Eye Length (Applies to all Web Slings)

Plies of Web	Sling Width (in.)							
	1	2	3	4	6	8	10	12
1	8 1/2	10	11	12	16	20	24	24
2	8 1/2	10	11	12	16	20	24	24
3	10	12	14	16	18	24	24	24
4	10	12	14	16	18	24	24	24

## TUFF-EDGE AND WEBMASTER 1600 POLYESTER SLINGS

### Endless Slings



Type 5



Type 5

	Tuff-Edge Part No.	Web Width (in.)	Rated Capacity (lbs.)*			Webmaster Part No. ***
			Vertical	Choker	V. Basket	
One Ply	EN1-801T	1	3,200	2,500	6,400	EN1-801D
	EN1-802T	2	6,400	5,000	12,800	EN1-802D
	EN1-803T	3	8,600	6,900	17,200	EN1-803D
	EN1-804T	4	11,500	9,200	23,000	EN1-804D
	EN1-806T	6	16,300	13,000	32,600	EN1-806D
	EN1-808T	8	19,200	15,400	38,400	EN1-808D
	EN1-810T	10	22,400	17,900	44,800	EN1-810D
	EN1-812T	12	26,900	21,500	53,800	EN1-812D
Two Ply	EN2-801T	1	6,200	4,900	12,400	EN2-801D
	EN2-802T	2	12,200	9,800	24,400	EN2-802D
	EN2-803T	3	16,300	13,000	32,600	EN2-803D
	EN2-804T	4	20,700	16,500	41,400	EN2-804D
	EN2-806T	6	28,600	23,000	57,200	EN2-806D
	EN2-808T	8	30,700	24,500	61,400	EN2-808D
	EN2-810T	10	33,600	26,800	67,200	EN2-810D
	EN2-812T	12	37,600	30,000	75,200	EN2-812D
Three Ply	EN3-801T	1	8,000	6,400	16,000	EN3-801D
	EN3-802T	2	16,000	12,800	32,000	EN3-802D
	EN3-803T	3	21,500	17,200	43,000	EN3-803D
	EN3-804T	4	28,700	23,000	57,400	EN3-804D
	EN3-806T	6	40,700	32,500	81,400	EN3-806D
	EN3-808T	8	46,000	36,800	92,000	EN3-808D
	EN3-810T	10	51,500	41,200	103,000	EN3-810D
	EN3-812T	12	59,200	47,300	118,400	EN3-812D
Four Ply	EN4-801T	1	10,000	8,000	20,000	EN4-801D
	EN4-802T	2	19,800	15,800	39,600	EN4-802D
	EN4-803T	3	26,700	21,300	53,400	EN4-803D
	EN4-804T	4	35,600	28,400	71,200	EN4-804D
	EN4-806T	6	50,500	40,400	101,000	EN4-806D
	EN4-808T	8	57,600	46,000	115,200	EN4-808D
	EN4-810T	10	67,200	53,700	134,400	EN4-810D
	EN4-812T	12	80,700	64,500	161,400	EN4-812D

Always use Wear Pads to protect synthetic slings from being cut by load edges.

See page 118

Note: Type 5 (Endless) slings are Not tapered unless specified.

\*\*\*Delete the "D" to order nylon.

(See "How to Order" page 17)

**⚠ WARNING**

Do not exceed rated capacities. Sling capacity decreases as the angle from horizontal decreases. Slings should not be used at angles of less than 30°. Refer to Effect of Angle chart page 10.

**Tuflex is an Alternative ...**

For three and four ply slings wider than 6", Tuflex Roundslings should be seriously considered. Tuflex offers increased flexibility, ease of use and lower cost. (See pages 41 through 44.)

## WIDE-LIFT SLINGS

### Wide-Lift (WL) Slings

#### Wide Load Support and Balance

*Lift-All* Wide-Lift slings support the load over a wide area to offer better balance for large loads - whether heavy or light. Wide bearing area reduces marring of soft load surfaces. Stiffeners are used at the base of the eyes to deter the body webbing from folding down the middle. Wide-Lift slings are for use in basket hitch only.

#### All Wide-Lift Slings offer these benefits:

##### Promotes Safety

- Red Core Yarn warning system aids in the inspection process
- *Tuff-Tag* provides serial numbered identification for traceability
- Proven sling web construction

##### Saves Money

- Wide bearing area reduces marring of soft load surfaces
- Yellow treatment for abrasion resistance and extended sling life
- *Tuff-Tag* provides required OSHA information for the life of the sling, not just the life of the tag



**Attached Eye Wide-Lift**



**Continuous Eye Wide-Lift**

**For Light, Bulky Loads** - Lifting eyes are attached to a single ply sling body. Available with One Ply eyes (WLA1) or Two Ply eyes (WLA2).

	Body Width (in.)	Part No.	Rated Capacity* (lbs.) Vertical Basket	Eye Length (in.)	Eye Width (in.)
<b>One Ply Eye</b>	6	WLA1-806	5,000	10	1
	8	WLA1-808	5,000	10	1
	10	WLA1-810	5,000	12	1
	12	WLA1-812	5,000	12	1
	16	WLA1-816	10,000	12	2
	20	WLA1-820	10,000	18	2
	24	WLA1-824	10,000	18	2
	<b>Two Ply Eye</b>	6	WLA2-806	10,000	10
8		WLA2-808	10,000	10	1
10		WLA2-810	10,000	12	1
12		WLA2-812	10,000	12	1
16		WLA2-816	18,000	12	2
20		WLA2-820	18,000	18	2
24		WLA2-824	18,000	18	2
30		WLA2-830	18,000	22	2
36		WLA2-836	18,000	27	2
48		WLA2-848	18,000	36	2

*Tuff-Edge* may be used for the attached eyes.  
Custom slings with higher capacities are available.

*Tuffex* slings are also available as Wide-Lift Slings. See page 46.

**30**

**For Heavy Loads** - Constructed from one endless sling with the two body lengths butted and joined side by side.

	Body Width (in.)	Part No.	Rated Capacity* (lbs.) Vertical Basket	Eye Length (in.)	Tapered Eye Width (in.)
<b>One Ply</b>	6	WL1-806	15,400	9	1 1/2
	8	WL1-808	20,400	12	2
	12	WL1-812	30,800	18	2
	16	WL1-816	38,000	24	2 3/4
	20	WL1-820	45,000	30	3 1/2
	24	WL1-824	52,000	36	4
	30	WL1-830	45,000	45	4
	36	WL1-836	45,000	54	4
<b>Two Ply</b>	6	WL2-806	28,600	9	1 1/2
	8	WL2-808	38,000	12	2
	12	WL2-812	57,200	18	3
	16	WL2-816	75,000	24	4
	20	WL2-820	90,000	30	5
	24	WL2-824	110,000	36	6
	30	WL2-830	90,000	45	6
36	WL2-836	90,000	54	6	

#### \* **WARNING**

Do not exceed rated capacities. Sling capacity decreases as the angle from horizontal decreases. Slings should not be used at angles of less than 30°. Refer to Effect of Angle chart page 10.

## DRUM HANDLING SLINGS

Lift-All Drum Handling Slings provide an easy, inexpensive way to handle steel drums. Available in two styles to suit your needs for handling drums in the vertical or horizontal position.

### Vertical Drum Handling Slings

Easily lift standing drums for transport. Tilt suspended drums to pour from open top or spigot. For use with ribbed steel drums, the ratcheting belly band tightens securely below the first rib.

Lightweight version (**DSV601**) uses 1" polyester sling webbing and is rated for 300 lb. loads.

Heavyweight sling (**DSV602**) uses 2" polyester sling webbing and is rated at 850 lbs.

#### Promotes Safety

- A wear pad, sewn on one side of the lifting strap, helps to avoid cutting of the sling.
- Ratchet tightens securely.

#### Saves Time

- Free end of ratchet strap sewn to stay properly threaded.
- Vertical legs sewn to belly band to maintain proper position.



To Order, specify Part No. and drum diameter in inches. i.e.: **DSV602x24**  
(The standard 55 gal. drum has a 24" diameter.)



Note: If using in a chemical environment, contact Lift-All for sling material advice.

### Horizontal Drum Handling Slings

Ideal for the quick and easy moving of steel drums in the horizontal position.

Part No. **DSH601** uses 1" polyester sling webbing and is rated at 1,500 lbs.

#### Promotes Safety

- Strong 1" polyester webbing pulls drum hooks securely into rims at both ends of the drum during lift.

#### Saves Time

- One sling fits multiple size drums.
- Easy to disconnect.
- Uses 1/2" oblong link at top for easy connection to hoist hook.

To Order, specify Part No. **DSH601**.