
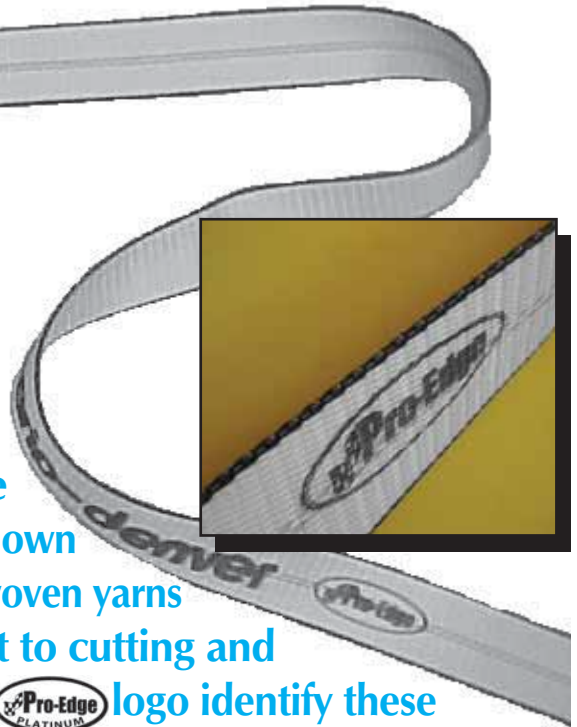
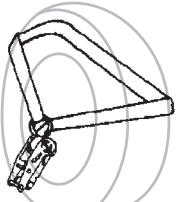



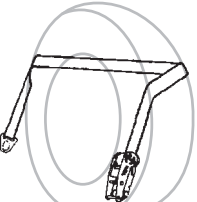

Towing Wheel Lift and Dolly Straps

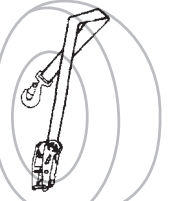



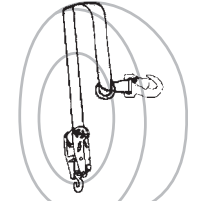

This new webbing is used on all our 2" and 3" tiedown straps. This material is made for the towing professional and will outlast standard tiedown webbings. The edges of this webbing have black woven yarns of a superior enhanced fiber to be more resistant to cutting and abrasive wear. The distinctive black edges and  identify these new straps.

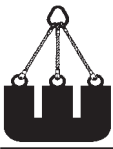


PART #	WORKING LOAD LIMIT	WEIGHT
WLS080, WLS100, WLS120	3,335 lbs.	1.0 lbs.
<p>The loose end of this wheel lift strap passes through the ring, like a lasso. Ratcheting then chokes the tire. Used on Century™, Challenger™, Nomar™. 2" wide. WLS080 is 80" long. WLS100 is 100" long. WLS120 is 120" long. Ratchet sold separately. California Captivation by request.</p>		
		

PART #	WORKING LOAD LIMIT	WEIGHT
WLS200	3,335 lbs.	1.0 lbs.
<p>A special D ring attached to the wheel lift fork end provides the anchor point for this strap. Used on Chevron™. 2" wide x 80" long. Ratchet sold separately.</p>		
		

PART #	WORKING LOAD LIMIT	WEIGHT
WLS300	1,665 lbs.	1.1 lbs.
<p>This tiedown has a snap hook with safety latch. The strap crosses diagonally to the tire and then is ratcheted. Used by Weld-Built™. 2" wide x 100". Ratchet sold separately.</p>		
		

PART #	WORKING LOAD LIMIT	WEIGHT
WLS400	2,000 lbs.	1.3 lbs.
<p>The combination of horizontal and vertical straps create a cage that secures the tire when ratcheted. Used on Holmes™ Wheel Lifts. 2" wide. Ratchet sold separately.</p>		
		

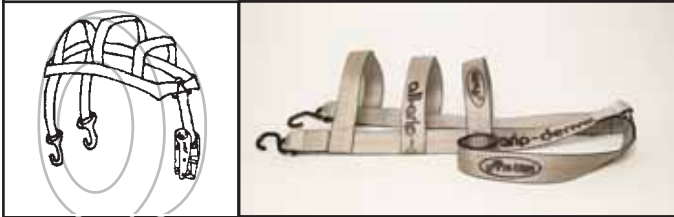


Towing Wheel Lift and Dolly Straps

SPECIFICATIONS

PART #	WORKING LOAD LIMIT	WEIGHT
WLS600	1,665 lbs.	2.0 lbs.

The combination of horizontal and vertical straps create a cage that secures the tire when ratcheted. Used on Holmes™ Wheel Lifts. 2" wide. Ratchet sold separately.



SPECIFICATIONS

PART #	WORKING LOAD LIMIT	WEIGHT
WLS900EX	3,335 lbs.	2.0 lbs.

This strap is 2" x 20" overall length with D ring and snap hook. This enables the WLS900 to be used on larger tires. Formula II™ extension strap. Ratched not included.



PART #	WORKING LOAD LIMIT	WEIGHT
WLS650	1,665 lbs.	4.0 lbs.

The cage type construction of this strap is similar to our WLS600. 1/4" chain is attached to each end. Used on Holmes™ wheel lifts.



PART #	WORKING LOAD LIMIT	WEIGHT
WLS1000	1,665 lbs.	1.9 lbs.

This type of cage strap is used on Reilly™ equipment. Loose end fits into ratchet. Ratchet sold separately.



PART #	WORKING LOAD LIMIT	WEIGHT
WLS800	835 lbs.	1.0 lbs.

The loose end of this tiedown passes through the fixed end. Ratcheting then chokes the tire. Used on Collins™ dolly. 1" wide x 8' long. Supplied with ratchet.



PART #	WORKING LOAD LIMIT	WEIGHT
WLS1100	1,665 lbs.	1.9 lbs.

A cage strap used on a number of aftermarket lifts and dollies. Flat Hook fits notch in front and loose end goes to the ratchet. Ratchet sold separately.



PART #	WORKING LOAD LIMIT	WEIGHT
WLS900	3,335 lbs.	1.6 lbs.

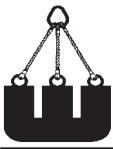
This strap is the replacement for the Formula II™ snap hook with ring. Hook snaps into ring which then chokes the tire. Ratchet sold separately.



PART #	WORKING LOAD LIMIT	WEIGHT
WLS1200	1,665 lbs.	1.0 lbs.

This strap is primarily used on Atlas™ or Aatac™ units. The end hardware is a flat hook. It is 2" wide x 100" long. Ratchet not included.





Towing Wheel Lift and Dolly Straps

SPECIFICATIONS

PART #	WORKING LOAD LIMIT	WEIGHT
WLS1300	1,665 lbs.	1.2 lbs.

This commonly used strap is sometimes referred to as a finger strap. It is found on Merlin Hijacker™, Avenger™ and the Peterson Scoop™. 2" wide x 100" long. Ratchet sold separately.



SPECIFICATIONS

PART #	WORKING LOAD LIMIT	WEIGHT
WLS1600	1,665 lbs.	4.0 lbs.

This 2" strap has the same dimensions and structure as our WLS1610 used on Miller equipment. Some prefer its wider webbing. It has the two "T" hooks and 36" of 1/4" chain.



PART #	WORKING LOAD LIMIT	WEIGHT
WLS1400	2,000 lbs.	4.0 lbs.

This is the replacement for the Chevron™ basket strap. Also known as a cage strap, it is adjustable using the chain extension, as well as two special T hooks.



PART #	WORKING LOAD LIMIT	WEIGHT
WLS1610	835 lbs.	3.4 lbs.

This is the strap for the Century™ brand wheel lift as well as other Miller™ brands. It is 1" wide urethane (plastic) coated webbing and has the "T" hooks and 36" of 1/4" chain.



PART #	WORKING LOAD LIMIT	WEIGHT
WLS1400L	2,000 lbs.	4.5 lbs.

This strap is extra large for those larger vehicles like SUV's. It is used on Chevron™ equipment and has the two adjustable "T" hooks and chain. Smaller tire should use the WLS1400.



PART #	WORKING LOAD LIMIT	WEIGHT
WLS1610RS	835 lbs.	.58 lbs.

Sometimes careless operators allow the WLS1610 to drag behind the wheel lift, damaging the strap. This replacement strap replaces the damaged part. Simply cut off the damaged strap at the upper ring and attach this new strap with the locking flat hook to the same ring. Now your old strap can still be used.



PART #	WORKING LOAD LIMIT	WEIGHT
WLS1500	2,000 lbs.	1.8 lbs.

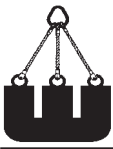
This is the Dynamic™ Type strap. The strap crosses the tire. Snap hook with latch is supplied as well as a protective sleeve. 2" x 100". Ratchet sold separately.



PART #	WORKING LOAD LIMIT	WEIGHT
WLS1700	1,665 lbs.	1.2 lbs.

This strap is replacement for the Danco™ strap. It is used as a lasso strap and has a twisted eye.. 2" x 84". Ratchet sold separately.





Towing Wheel Lift and Dolly Straps

SPECIFICATIONS

PART #	WORKING LOAD LIMIT	WEIGHT
WLS1800	1,665 lbs.	.7 lbs.

This type of lasso strap has a sewn flat eye. 2"x100". Used on Jerr-Dan™ and others. Ratchet sold separately.



SPECIFICATIONS

PART #	WORKING LOAD LIMIT	WEIGHT
WLS2100	1,665 lbs.	1.0 lbs.

This strap is made for securing electric carts including Club Car™. It is 2" wide web with a special hook on one end. 2"x80" long. Ratchet sold separately.



PART #	WORKING LOAD LIMIT	WEIGHT
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WLS1810	1,665 lbs.	2.0 lbs.
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This is the Jerr-Dan™ tie strap assembly. Ratchet sold separately.



PART #	WORKING LOAD LIMIT	WEIGHT
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WLS2200	1,665 lbs.	2.1 lbs.
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This strap is known as a Combo strap. It encompasses the wheel as well as the support arms or forks that the wheel is resting on. 2"x 86" long. Ratchet sold separately.



PART #	WORKING LOAD LIMIT	WEIGHT
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WLS1900	3,335 lbs.	2.9 lbs.
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This is the heavy duty wheel lift strap for the Century Class C™.



PART#	WORKING LOAD LIMIT	WEIGHT
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WLS2300	1,665 lbs.	1.3 lbs.
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Basket style wheel lift with side hook. Fits Jerr-Dan™ MPL/Element. Ratchet sold separately.



PART #	WORKING LOAD LIMIT	WEIGHT
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WLS 2000	1,665 lbs.	1.5 lbs.
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This strap fits the Jerr-Dan™ "Quick Pick40™" Wheel lift. It is 2" webbing and is used as a basket type strap. Ratchet sold separately.

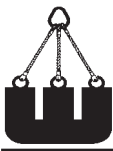


PART#	WORKING LOAD LIMIT	WEIGHT
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WLS2800	3,335 lbs.	1.5 lbs.
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Commonly used on U-Haul dollies. Ratchet sold separately.





SPECIFICATIONS		
	PART # 1930800	<p>This ratchet is used in our all-grip[®] 1" ratchet straps, dolly straps and motorcycle straps. It accepts 1" web and has a wide handle.</p> <p>Weight - .75 lbs.</p>
	1" Ratchet Buckle - wide handle	
	Min. Break Strength - 3,300 lbs. W.L.L. - 1,100 lbs.	
	PART # 1930802	<p>This ratchet is the one most commonly found in the towing industry. It accepts 1 3/4" and 2" web. It's standard handle makes it compact for use on wheel lifts. It will accept all hooks found on page 51.</p> <p>Weight - 2.0 lbs.</p>
	2" Ratchet Buckle - standard	
	Min. Break Strength - 12,000 lbs. W.L.L. - 4,000 lbs.	
	PART # 2500804	<p>This ratchet accepts 1 3/4" and 2" web and has a long wide handle. This handle assembly allows for more hand room and better leverage where space allows. It will accept all hooks found on page 51.</p> <p>Weight - 2.3 lbs.</p>
	2" Ratchet Buckle - long handle	
	Min. Break Strength - 12,000 lbs. W.L.L. - 4,000 lbs.	
	PART # 2500804S	<p>This ratchet accepts 1 3/4" and 2" web and has a medium length wide handle. A good choice when width is required but length is of a concern. It will accept all hooks found on page 51.</p> <p>Weight - 2.1 lbs.</p>
	2" Ratchet Buckle - med. handle	
	Min. Break Strength - 12,000 lbs. W.L.L. - 4,000 lbs.	
	PART # 2500806	<p>This ratchet is used in our all-grip[®] 3" ratchet straps. It accepts 3" webbing and has a long handle.</p> <p>Weight - 7.1 lbs.</p>
	3" Ratchet Buckle - long handle	
	Min. Break Strength - 17,000 lbs. W.L.L. - 5,665 lbs.	
	PART # 2500806S	<p>This is the replacement ratchet for our 3" under-reach strap, model UR30M. It accepts 3" webbing and has a short handle.</p> <p>Weight - 6.75 lbs.</p>
	3" Ratchet Buckle - short handle	
	Min. Break Strength - 17,000 lbs. W.L.L. - 5,665 lbs.	
	PART # 2500808	<p>This ratchet is used in our all-grip[®] 4" ratchet straps. It accepts 4" webbing and has a long handle.</p> <p>Weight - 8.0 lbs.</p>
	4" Ratchet Buckle - long handle	
	Min. Break Strength - 20,000 lbs. W.L.L. - 6,665 lbs.	



Towing Ratchets & Accessories

SPECIFICATIONS

PART# 802HDC

2" Ratchet Buckle w/chain
W.L.L - 4,000 lbs.
Weight - 3.4 lbs.

PART# 804SHDC

2" Ratchet Buckle w/chain
W.L.L - 4,000 lbs.
Weight - 3.5 lbs.

SPECIFICATIONS

PART# 2501001

Eagle Hook™ - plated with 2 spacers
Working Load Limit - 1,665 lbs.
Weight - .30 lbs.

PART# 2501002

Challenger Hook™ - plated
Working Load Limit - 1,665 lbs.
Weight - .40 lbs.

PART# 2501002F

Challenger™ Hook - plated - forged
Working Load Limit - 2,000 lbs.
Weight - .95 lbs.

PART# 2501004

Century Bolt Adapter - plated
Working Load Limit - 1,665 lbs.
Weight - .40 lbs.

SPECIFICATIONS

PART# 2501019

Chevron Hook™ - plated
Working Load Limit - 1,665 lbs.
Weight - .50 lbs.

PART# 2501011

Ratchet Hook w/latch - plated
Working Load Limit - 1,665 lbs.
Weight - .40 lbs.

PART# WH51-335

Idler Pivot Hook (for ratchet)
Hook is 5/8" dia.
Working Load Limit - 2,200 lbs.
Weight - .90 lbs.

PART# 2501035

Ratchet Bolt Adapter
Working Load Limit - 3,335 lbs.
Weight - .40 lbs.

PART# 2501036

Chain w/ Bolt adapter
5/16" G70 x 1' long
Weight - 1.0 lbs.

PART# WBD144-04

Hitch Pin w/Hairpin Clip
1/2" Dia x 3 1/2" Long
Weight - .30 lbs.

PART# WBD144-01

Jerr-Dan™ Hitch Pin w/clip
Working Load Limit - 1,665 lbs.
Weight - .35 lbs.

PART# 2501034

Champion™ & Vulcan™ Carrier hooks
Working Load Limit - 1,665 lbs.
Weight - .50 lbs.





SPECIFICATIONS

PART# LP84911

Chevron™ L Arm Pin
 5/16 Stock, 2.5" Square
 Weight - .10 lbs.

PART# 2501010

Lynch Pin
 1/4" Stock, 1 3/4" Long
 Weight - .05 lbs.

PART# WBD144-04

Hitch Pin w/Hairpin Clip
 1/2" Dia x 3 1/2" Long
 Weight - .30 lbs.

PART# TPIN

Chevron™ T handle pin
 5/8" x 3" grip
 Weight - .45 lbs.

PART# TPIN84922

Chevron™ T handle pin
 3/4" x 3 1/2" grip
 Weight - .70 lbs.

PART# TPIN84923

Chevron™ T handle pin
 3/4" x 6" grip.
 Weight - 1.0 lbs

Camlocks



Cam locks, aka Plunger pins or Twist locks are used in a number of applications for the towing industry. Twisting the handle rotates and cams the head of the pin, drawing it away from the hole. Reversing this action allows the spring loaded pin to return to its closed position, locking in adjustable L arms etc.. They are zinc plated and have grease zerks. Four popular sizes available.

PART#	PLUNGER DIA.	HEIGHT	WEIGHT
CL0625	5/8"	3-1/8"	.75 lbs.
CL0750	3/4"	3-1/8"	.80 lbs.
CL1000	1"	3-1/2"	1.25 lbs.
CL1375	1-3/8"	3-13/16"	2.0 lbs.

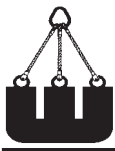
SPECIFICATIONS

PART# 18-120

Ratchet Spring Pin
 Spring steel-plated
 Weight - 1.0 lbs. per 100

PART# 2501000

Ratchet Spacer
 Plated Steel
 Weight - .10 lbs.



Operating Practices



Web Tiedown Straps

NYLON vs. POLYESTER

The most popular material for web tiedowns is polyester. The tough long wearing properties of polyester make it the best choice for general use. The low stretch characteristics of polyester helps to reduce load movement, maintaining load control. Polyester should never be used where alkalis are present. (see chemical data page 9)



WARNING

- Failure to read, understand and follow these instructions may cause death or serious injury.
- Read and understand these instructions before using web tiedown straps.
- Polyester tie downs should never be used where alkalis are present. (see chemical data page 9)

TAGS

Each **all-grip**® web tiedown has a legible tag sewn to the web body. Each tag has the date of manufacture for better accountability as well as the Working Load Limits in both pounds (lbs.) and kilograms (kgs.).

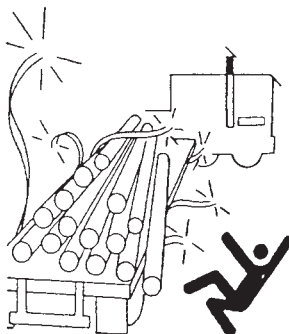
U.V. LIGHT

Environments in which web tiedowns are continuously exposed to ultra-violet light can affect the strength of web tiedowns in varying degrees ranging from slight to total degradation. To minimize these effects, store tiedowns not being used in a cool, dry and dark place. Visual indications of ultra-violet degradation are bleaching out of the color, increased stiffness and surface abrasion at points not normally in contact with the load.



WARNING

- Failure to read, understand and follow these instructions may cause death or serious injury.
- Read and understand these instructions before using web tiedowns.
- Determine that the weight of the load is within the working load limit of the web tiedown(s).
- Select a web tiedown having suitable characteristics for the type of load and environment.
- Damaged web tiedowns shall not be used.
- Web tiedowns shall be applied in a manner providing control over the load.
- All edges in contact with web tiedowns shall be padded.
- Web tie downs shall not be pulled from under a load when a load is resting on the tiedown.
- Web tiedowns should be stored in an area where they will not be subjected to mechanical damage.
- Twisting of tiedowns shall be avoided.
- Web tiedowns shall not be used at temperatures in excess of 180° F.
- Exposure to sunlight or ultraviolet light degrades the strength of synthetic fibers used in web tiedowns.
- Inspect web tie downs for damage and defects prior to each use.
- Snubbers or other devices which are designed to stretch with movement of the load shall not be used with web tiedowns.
- Anchorages shall have design strengths not less than those which are required of the tiedowns attached to them.
- No more than one web tiedown shall be attached to the same anchorage or tightening device.
- Web tiedowns shall be applied at an approximate 90° angle to the spindle of any ratchet or winch.
- The manufacturers name or trade mark shall be printed on the webbing in 5' or less intervals.
- Web tiedowns attachments shall have a design load rating not less than that required of the web tiedown to which they are attached.
- Web tiedowns may not be repaired.
- Web tiedowns shall not be used for lifting. (use web slings)
- Connect the towing hardware of web tiedowns only to the vehicle manufacturers approved connection points on the vehicle towed.
- Do not stand between disabled vehicle and recovery vehicle.

<p>DATE</p>	<p>Western Sling and Supply Sedalia, Colorado</p>	<p>all-grip® Cargo Control Systems Working Load Limit 1,665 lbs. or 755 kgs.</p> <p>Date</p>	 <p>WARNING</p> <p>Can fail if damaged, misused or overloaded. Use only if trained. Observe rated load. Avoid sharp edges and exposure to acid, alkali, sunlight and temperature over 180°F. Do not use for overhead lifting. Remove from service if metal fittings are cracked, worn or deformed. DEATH OR INJURY can occur from improper use or care.</p>
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Operating Practices



Web Tiedown Straps

INSPECTIONS

Each day before being used, the web tiedown and all attachments shall be inspected for damage or defects by a competent person designated by the employer. Additional inspections shall be performed during web tiedown use, where service conditions warrant. Damaged or defective web tiedowns shall be immediately removed from service.

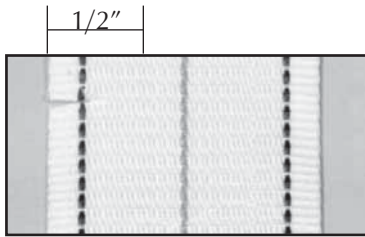
DEFECT CLASSIFICATION TABLE	
Web Size Inches	Removal From Service Range Total Defect Size (in)
4	Larger than 3/4"
3	Larger than 5/8"
2	Larger than 3/8"
1.75	Larger than 3/8"

REMOVAL FROM SERVICE—WEB TIEDOWNS

Web tiedowns, shall be immediately removed from service if any of the following conditions are present –

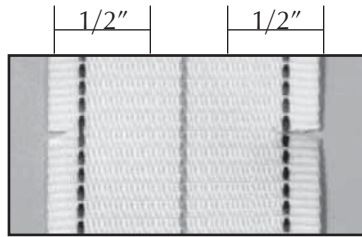
1. Cuts, burns and or holes which total more than that shown in the following Defect Classification Table
2. Separation of its load carrying stitch pattern(s).
3. Any broken, non-functioning fitting, tensioning device or hardware.
4. Any fitting, tensioning device or hardware which is obviously sprung, bent, twisted or contains visible cracks, or significant nicks or gouges.
5. Any knotted webbing, splices or other repair.
6. Any apparent defect, including but not limited to crushed areas, damaged loop ends, severe abrasion etc.

All cuts, burns, and/or holes are additive across the width of the webbing face for its entire length, but only one defect is additive for any specific width. (see below)



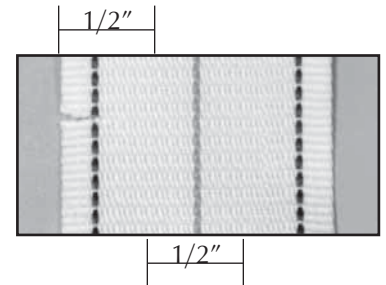
4" WEB SAMPLE #1

Cuts on same edge are not additive
Total defect size is 1/2"
Tiedown may be used



4" WEB SAMPLE #2

Cuts on opposite edges are additive.
Total defect size is 1"
REMOVE FROM SERVICE



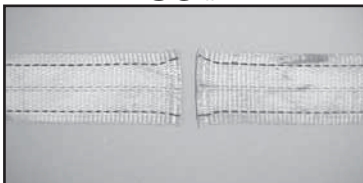
4" WEB SAMPLE #3

Cuts and holes at different locations across the width are additive
Total defect size is 1"
REMOVE FROM SERVICE

Identifying Web Damage

Not a week goes by that we do not receive a web strap from a customer who states "My Strap Broke" or "It Just Let Loose". Well, web straps don't just let loose and they seldom break. In most cases the failure is due to a cut. Web straps are essentially nothing more than heavy fabric. Fabric and edges from sheet metal, bumpers and the like do not mix well. A seemingly dull edge can become a knife when the strap is put under tension. Cuts can be identified by a clean straight severing of the web fibers similar to what a pair of scissors would make. Tensile breaks are the result of the web fibers being pulled beyond their physical strength. Tensile breaks are identified by the fibers being frayed and elongated. Sometimes web strap failures are a combination of a cut and then the remaining fibers are broken by tensile breaks. Heat from hot tailpipes, engine components and friction will melt the web, resulting in its failure. Sharp edges, overloading and hot surfaces are the web straps enemies.

CUT



TENSILE BREAK



HEAT DAMAGE

