

# Webbing Winches

Sling Protection  
Web Slings  
Round Slings  
Synthetic Chain Slings  
Wire Rope Slings  
Chain Slings  
Shackles & Turnbuckles  
Hooks & Links  
Lifting Points  
Hoists & Blocks  
Lifting Devices  
Pipe & Hose Restraints  
The Down Web Assemblies  
The Down Accessories  
Towing & Recovery  
Rope & Cordage



# WARNING

Never exceed the working load limit (WLL) of any winch. The loading of any winch beyond its WLL can result in severe personal injury or death. The winch design factor is based on destructive, laboratory controlled testing conditions, which will not be exactly duplicated during actual loading conditions.

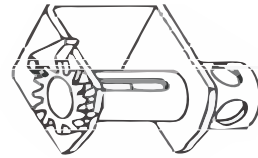
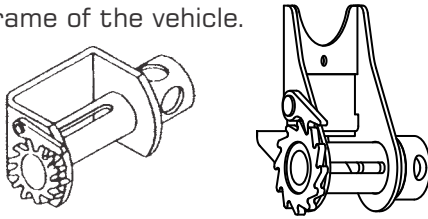
## CONFIGURATIONS

**SIDE MOUNT** - designed to be located on an outward facing surface of a vehicle

**UNDER MOUNT**- designed to be mounted beneath the vehicle

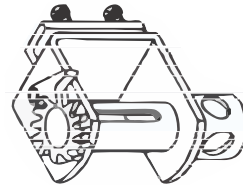
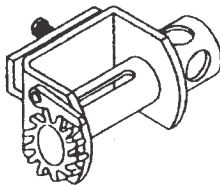
Weld-On / Bolt-On - Permanently mounted outward in a fixed position on the side, front or rear frame of the vehicle.

Weld-On / Bolt-On - Permanently mounted in a fixed position below the deck of the vehicle.

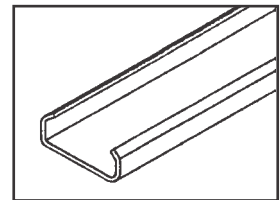
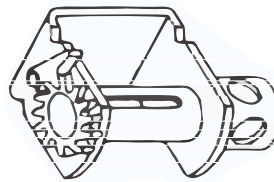


Portable - Flexible outward mounting to the side, front or rear frame is accomplished with a bracket that may contain one or two set screws.

Portable - Flexible below deck mounting is accomplished with a bracket and one or two set screws.



SLIDING - Designed to slide along the length of the vehicle to a desired location along the track or rail.



## DESIGN FACTORS / RATED CAPACITIES

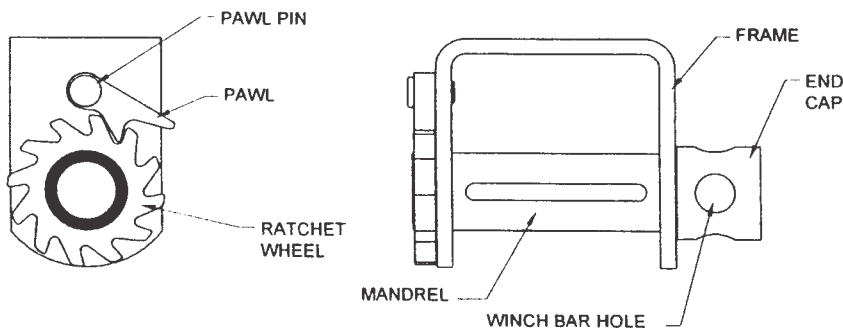
- The design factor for winches shall be a minimum of three (3) when tested in accordance with Chapter 3 of WSTDA-T-3 Standard Specification.
- The working load limit (WLL) of a winch shall not exceed one-third (1/3) of its breaking strength.

## IDENTIFICATION / MARKING REQUIREMENTS

- Each winch shall be durably marked with the following information to provide a method to positively identify a winch source of manufacture:
  - a. Name and/or trademark.
  - b. Working load limit (WLL) in pounds and kilograms.
  - c. Lot code or user-identifiable mark for traceability.
- The required markings shall be visible when the winch is in use with a web tie down.
- Use of the letters lb to designate pounds and the letters kg to designate kilograms and WLL to represent working load limit are acceptable. Example:  
WLL 5,000 lb / 2270 kg shall indicate a 5000 pound, 2270 kilogram working load limit.

# Lift it up, Tie it down, Pull it around

## Webbing Winches



### PROPER SELECTION

- Select a winch having suitable characteristics for proper attachment to the vehicle. The winch shall have sufficient strength to properly secure the load.
- Identify the working load limit (WLL) marked on the winch by the manufacturer. If the required markings are illegible or missing, remove from service. Read all warnings and/or instructions provided by the manufacturer.



**WARNING:** Before using winches, users must be properly trained. The use of winches by untrained personnel is potentially hazardous.

### USE AND CARE

- Winches shall not be loaded in excess of the working load limit (WLL) provided by the manufacturer.
- Winches shall be attached to the vehicle in accordance with the installation instructions of the winch manufacturer and vehicle manufacturer.
- Winch track designed to accommodate sliding winches shall be installed per the winch track manufacturer and the vehicle manufacturer instructions.
- Winches shall be installed and positioned so that the pawl is free-floating and pivots into the sprocket by gravity. A properly installed and positioned winch shall allow the user to see the pawl to ensure proper engagement.
- when using any winch, the winch mandrel shall have a minimum of two (2) and a maximum of four (4) wraps of webbing. Two to four wraps will appear like four to eight layers of webbing. Less than two wraps may result in strap slippage; more than four will place unnecessary strain on the winch. Excessive wraps of webbing on the mandrel may reduce the working load limit (WLL) of the winch and may interfere with proper operation.
- Before operating any winch the user shall secure his footing on the ground to prevent slipping or falling. In adverse weather conditions, including freezing temperatures, additional caution should be exercised.
- Only winch bars designed to be used with winches shall be used to tension and release tie down assemblies.
- When using a winch bar designed to utilize the holes in the end cap of a winch, the tip of the winch bar shall be inserted through two holes to prevent the tip of the winch bar from slipping or damaging the winch.
- Any device, commonly known as a cheater bar, that extends the length of a winch bar shall not be used.
- Winches may require re-tensioning during transit to maintain proper tension.
- Winches shall be used inspected and adjusted periodically during the transportation of cargo per applicable federal, state, provincial, local and industry regulations.
- Set screws on portable winches are designed to position the winch while the tie down assembly is being tightened. They shall only be snug tight. Over tightening of screws may cause the bracket to bend, weakening the winch and causing it to fail.
- Winches designed to secure cargo shall not be used for lifting, lowering or suspending cargo or for towing.
- Portable winches with or without set screws shall be removed from the vehicle frame when not being used to tension a web tie down.



**WARNING:** Exercise caution during tensioning to ensure the winch pawl fully engages into the sprocket before releasing pressure on the winch bar. Releasing a winch bar without the pawl being properly engaged can cause serious injury.

## Webbing Winches

### ENVIRONMENTAL CONSIDERATIONS

- Winches are subjected to dirt, mud, snow, ice, road salt, cleaning solutions, etc. Winches shall be periodically inspected, cleaned and lubricated to ensure the winch pawl will drop freely between the sprocket teeth by gravity. If this maintenance procedure does not result in the pawl dropping freely into the sprocket teeth, the winch shall be removed from service.
- Winches that can be removed from the vehicle, when not in use, should be stored in a dry location.

### INSPECTION

Type of Inspection

- INITIAL INSPECTION** A designated person shall inspect every winch before it is placed in service to ensure that the correct winch is being used and to determine that the winch meets the requirements of this standard specification.
- FREQUENT INSPECTION** The person handling the winch each time it is used shall make this inspection.
- PERIODIC INSPECTION** A designated person shall conduct this inspection. Frequency of a periodic inspection shall be based on, but not limited to:
  - Frequency of use
  - Severity of service conditions
  - Experience gained on the service life of winches used in similar applications

The user(s) of winches should establish written inspection records to be kept on file. These records should show a description of the winch, the condition at the time of the inspection, the date stamp on the winch if present, the date the inspection was performed, the vehicle unit number the winch is presently on and the person who performed the inspection.

### INSPECTION

A winch shall be removed from service if any of the following conditions exist:

- Working Load Limit (WLL) is illegible
- Mandrel is not free to rotate when the pawl is released
- Pawl is not free to drop into the sprocket by gravity
- Excessive corrosion
- End cap is deformed and will not permit use of winch bar
- Distorted or deformed components
- Cracks, broken or malfunctioning components
- Cracked winch welds
- Cracked weld at winch attachment point
- Deformed or worn winch track
- Any other visible damage which causes doubt as to the strength of the winch or winch track

**No repairs of winches, winch components or winch track shall be permitted.**

### ADDITIONAL RESOURCES

Commercial Vehicle Safety Alliance (CVSA)  
 North America Standard Out of Service Criteria (OOSC)  
 6303 Ivy Lane, Suite 310  
 Greenbelt, MD 20770  
 Phone (301) 830-6143  
 Fax (301) 830-6144

[www.cvsa.org](http://www.cvsa.org)

In Canada Contact:  
 The Ministry of Transportation  
 In Each Province.  
 Canadian Council of Motor  
 Transport Administrators  
 223 St. Laurent Blvd.  
 Ottawa, Ontario K1G 4J8  
 Telephone: (613) 736-1003  
 Fax: (613) 736-1395  
 Email: [ccmta-secretariat@ccmta.ca](mailto:ccmta-secretariat@ccmta.ca)  
 Canadian Ministry of Transportation  
 Queen's Park / Minister's Office  
 7 Wellesly Street West  
 Ferguson Block, 3rd Floor  
 Toronto, Ontario M7A 1Z8  
 Telephone: (416) 327-9200

WEB SLING & TIE DOWN ASSOC., INC.  
 9 Newport Drive, Suite 200  
 Forest Hill, MD 21050  
 Phone: (443) 640-1070  
 Fax: (443) 640-1031  
 Email: [wstda@stringfellowgroup.net](mailto:wstda@stringfellowgroup.net)  
 Website: [www.wstda.com](http://www.wstda.com)

## Steel Webbing Winches

Super Slings winches comply with FMCSA, WSTDA-T3 and Canadian Standard 905 regulations. Available in different base configurations to suit a variety of needs and load requirements.

Item No.	Depth	Attaching Method	Slot Style	Web Size	Mount Direction	WLL (lbs)	Weight (lbs)
12-LW1880	Standard	Weld-On/Bolt-On	Hex Drive	2"	Universal Mount	3300	3.8
12-LW1880-1	Standard	Weld-On/Bolt-On	Hole for Bar	2"	Universal Mount	3300	3.8
12-LOW-WO/3BAR	Low Profile	Weld-On	3-Bar	4"	Side Mount	6000	9.5
12-LOW-P	Low Profile	Portable	STD Size	4"	Side Mount	5500	10.1
12-LOW-WO	Low Profile	Weld-On	STD Size	4"	Side Mount	5500	7.3
12-STD-P-3BAR	Standard	Portable	3-Bar	4"	Bottom Mount	6000	11.3
12-48101-STD-3B	Standard	Sliding	3-Bar	4"	Bottom Mount	6000	10.4
12-STD-WO/3BAR	Standard	Weld-On	3-Bar	4"	Bottom Mount	6000	11.3
12-STD-P	Standard	Portable	STD Size	4"	Bottom Mount	5500	8.6
12-STD-SLID	Standard	Sliding	STD Size	4"	Bottom Mount	6000	8.3
12-STD-WO	Standard	Weld-On	STD Size	4"	Bottom Mount	5500	8.6
12-STOR-P	Storable	Portable	STD Size	4"	Bottom Mount	5500	11.1
12-STOR-SLID	Storable	Sliding	STD Size	4"	Bottom Mount	6000	8.2
12-STOR-WO	Storable	Weld-On	STD Size	4"	Bottom Mount	5500	9.1



LW1880



LW1880-1



LOW-WO/3BAR



LOW-SLIDING



LOW-P



LOW-WO



STD-P-3BAR



48101-STD-3BSL



STD-WO/3BAR



STD-P



STD-SLID



STD-WO



STOR-SLID



STOR-WO

**WARNING: NEVER EXCEED WORKING LOAD LIMIT!**

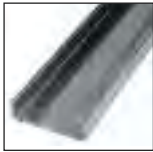
Failure to follow instructions can result in serious property damage, injury or death!

For full user manual please visit [www.superslings.ca](http://www.superslings.ca)

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- Synthetic Chain Slings
- Wire Rope Slings
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- Tie Down Accessories Web Assemblies
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- Rope & Cordage



# WINCH TRACK AND BARS



**Steel C Track – Formed from high strength 1/4" steel plate**

Weight:	39.0 lbs / 17.73 kg
Length:	6 ft / 182.88 cm
Part No.:	<b>2830 0001</b>



**Aluminum C Track –High strength aluminum extrusion**

Weight:	19 lbs / 8.64 kg
Length:	6 ft / 182.88 cm
Part No.:	<b>2830 0003</b>

*\*special order\**



**Aluminum Double L Track –Designed for Double L slider winches**

Weight:	26.25 lbs / 11.92 kg
Length:	10 ft / 304.80 cm
Part No.:	<b>2830 0004</b>

*\*special order\**

Weight:	78 lbs / 35.4 kg
Length:	12 ft / 364.76 cm
Part No.:	<b>2830 0002</b>

## Winch Bars

Tapered and angled at the end for easy operation, Doleco's winch bar handles are knurled at two sections, and the mushroom tip helps keep the bar from slipping from the winch cap. They are heat-treated for extra strength and



Flanged mushroom tip helps keep the bar from slipping from the winch cap.



cycle tested to simulate years of heavy use. Combination winch bars can be used to release tension on chain binders. **Use caution to avoid injury. Not to be used as a cheater bar.**



**Standard Painted**

Weight:	5.0 lbs / 2.27 kg
Part No.:	<b>2820 0001</b>



**Combination Box End Chrome**

Weight:	6.5 lbs / 2.95 kg
Part No.:	<b>2820 0002</b>



**Combination Chrome**

Weight:	5.0 lbs / 2.27 kg
Part No.:	<b>2820 0004</b>



**Standard Chrome**

Weight:	6.5 lbs / 2.95 kg
Part No.:	<b>2820 0003</b>

**This new industry standard winch bar offers 2 options for your use**



- More efficient, easier to use in all types of weather
- Moves quickly and easily between winches
- Notable sense of "balance" and ease of use
- With its patented angle and ergonomic design replaces the standard straight winch bar

**Xcel I**

Weight:	5.0 lbs / 2.27 kg
Part No.:	<b>2820 0005</b>



- Adds a new feature for chain binders, which turns this bar into a "chain binder handle extension" for releasing only
- The Xcel II's design includes a squared attachment at the end of the handle
- Being able to release the chain binder in a controlled manner offers you the ability to re-secure the chain binder should the load begin to shift

**Xcel II**

Weight:	6.5 lbs / 2.95 kg
Part No.:	<b>2820 0006</b>

Sling Protection  
Web Slings  
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The Down  
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