



# Towing/Rescue & Recovery



*Forging Towing Innovation*

**Tow  
Tiger**

MADE IN USA

# CHATTANOOGA, TENNESSEE

## BIRTHPLACE OF DIXIE INDUSTRIES 1910

## BIRTHPLACE OF THE TOWING INDUSTRY 1916

Just as *Ernest Holmes* developed the first wrecker in Chattanooga, the city has continued to be a leader in the industry by also providing hardware to go onto the wrecker.

Soon *Dixie Industries* will celebrate 100 years of *forging excellence*. One of the proud achievements of Dixie is our long history of developing and forging innovative products for the Towing Industry. If you visit the *International Towing Hall of Fame and Museum*, you will see many Dixie forgings on display.

Some of *Dixie's* recent contributions to the Towing industry are:

- the first forged 15" & 8" J Hook  
- Patent #5564766 -
- the first Mini J forged hook  
- Patent #5997063 -

Some latest innovations are:

- the **Tow Tiger** bridle  
- Patent #6604769 -
- the **Sliding J/T**  
- Patent Pending -
- the **J/T Combo**
- New 6,000 lb WLL **lightweight chain**

Unfortunately, over the years, lesser quality importers have illegally copied some of our products. We can only ask our customers to be aware that if a product with one of our patented designs isn't marked "DIXIE" and "USA", it is a copy rather than the real thing and most likely was made in China.

Dixie Industries is the *only* company in the Towing hardware industry that manufactures the *complete* Towing hardware, chain and forgings. Every other company simply buys parts from the least expensive parts source and assembles the products.



Mini J

introduced 1998



J/T Combo

introduced 2006



Forged 8" J Hook

introduced 1995



Forged 15" J Hook

Tow Tiger



introduced 2007

Sliding J/T



introduced 2007

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Dixie Industries manufactures our products with a 4:1 design factor - the highest in the industry.



# TOWING HARDWARE

Specialty Forgings



Forged in Chattanooga, TN - to meet all your towing needs.



DOUBLE GRAB  
960267



GRAB/R  
960270



CLEVIS LINK  
695443



GRAB/SLIP  
960268



GRAB/T  
960271



FORGED R  
93423



FORGED T  
93405



MINI J  
92714



FORGED 8" & 15"  
J HOOK  
92859 & 91259

Part Number	Description	WLL	Grade	Finish
960267	Double Grab	4,700 lbs.	G70	YC
960268	Grab/Slip	4,700 lbs.	G70	YC
960270	Grab/R	4,700 lbs.	G70	YC
960271	Grab/T	4,700 lbs.	G70	YC
93423	Forged R	4,700 lbs.	G70	YC
93405	Forged T	4,700 lbs.	G70	YC
92714	Forged Mini J	4,700 lbs.	G70	YC
92859	Forged 8" J Hook	4,700 lbs.	G70	YC
91259	Forged 15" J Hook	4,700 lbs.	G70	YC
695443	Clevis Link	4,400 lbs.	G70	SC

*Clusters*

*Chain Assemblies*

*Bridles*

DXT-60001



DXT-706461  
DXT-710461



DXT-80222  
DXT-80322  
DXT-80622  
DXT-80822



DXT-60002



DXT-706471  
DXT-710471



DXT-802661  
DXT-803661



DXT-60003



DXT-70642  
DXT-71042



DXT-802771  
DXT-803771  
DXT-806771  
DXT-808771



# TOWING HARDWARE

## Our Best Towing Assemblies



### New Alloy Chain

This new 6K chain is lighter weight than traditional short link 5/16 G70 but is more than **20% stronger**.

### 6,000 WLL

The **highest WLL** in the industry for any Towing Bridle or chain assembly.

### Tow Tiger

The patented **Tow Tiger** bridle is lighter than the traditional tow assembly that uses a ring and chain shortener hooks. Rings and hooks get in the way and add unnecessary weight to the assembly.

### J/T Combo Hook



The new **J/T Combo Hook** combines these two hooks into one easy unit providing greater flexibility and lighter clusters. We have also developed a unique

**new ring** for the cluster that eliminates welded links and "cluttered cluster".

### Sliding J/T Hook

Our new Sliding J/T hook provides complete adjustability and flexibility by simply sliding the J/T unit up or down the chain assembly and choosing the J end or the T end and locking it into place.



The new compact and light **Cradle Grab** hook on the end of the chain provides the highest weight/size to WLL ratio available.

## BEST

I Beam Chain WLL 6000  
Finish: Powdercoated Blue

Part Number	Description				Wt. lbs.
<b>CLUSTERS SPIN RIVETED</b>					
DXT-60001	J/T Combo, R, Grab				3.3
DXT-60002	J/T Combo, R				2.0
DXT-60003	J/T Combo, Grab				2.3
<b>CHAIN ASSEMBLIES</b>					
		<i>Left</i>	<i>Middle</i>	<i>Right</i>	
DXT-706461	Chain Assy 6K x 6'	Grab	Sliding J/T	8" J	10.4
DXT-706471	Chain Assy 6K x 6'	Grab	Sliding J/T	15" J	11.7
DXT-70642	Chain Assy 6K x 6'	Grab (riveted)	Cluster(J/T,R) riveted		7.5
DXT-710461	Chain Assy 6K x 10'	Grab	Sliding J/T	8" J	14.4
DXT-710471	Chain Assy 6K x 10'	Grab	Sliding J/T	15" J	15.6
DXT-71042	Chain Assy 6K x 10'	Grab (riveted)	Cluster(J/T,R) riveted		11.9
<b>BRIDLES</b>					
DXT-802661	Tow Tiger 6K x 2'	Sliding J/T, 8" J	Sliding J/T, 8" J		13.4
DXT-802771	Tow Tiger 6K x 2'	Sliding J/T, 15" J	Sliding J/T, 15" J		15.9
DXT-80222	Tow Tiger 6K x 2'	J/T Combo,R	J/T Combo,R		8.5
DXT-803661	Tow Tiger 6K x 3'	Sliding J/T, 8" J	Sliding J/T, 8" J		14.0
DXT-803771	Tow Tiger 6K x 3'	Sliding J/T, 15" J	Sliding J/T, 15" J		17.8
DXT-80322	Tow Tiger 6K x 3'	J/T Combo,R	J/T Combo,R		10.4
DXT-806771	Tow Tiger 6K x 6'	Sliding J/T, 15" J	Sliding J/T, 15" J		23.8
DXT-80622	Tow Tiger 6K x 6'	J/T Combo,R	J/T Combo,R		16.4
DXT-808771	Tow Tiger 6K x 8'	Sliding J/T, 15" J	Sliding J/T, 15" J		27.6
DXT-80822	Tow Tiger 6K x 8'	J/T Combo,R	J/T Combo,R		20.3

Our **BEST** line of towing chain assemblies come **Powdercoated Blue**.

Our powdercoating is pure paint with no wax fillers and is baked onto the assemblies at about 400°F for a harder, longer lasting protective coating.

Our competitors simply Yellow Chromate their assemblies which, if left in the weather, starts rusting very quickly.



Clusters

Chain Assemblies

Bridles

GOOD

DXT-0000A



DXT-00002



DXT-00001

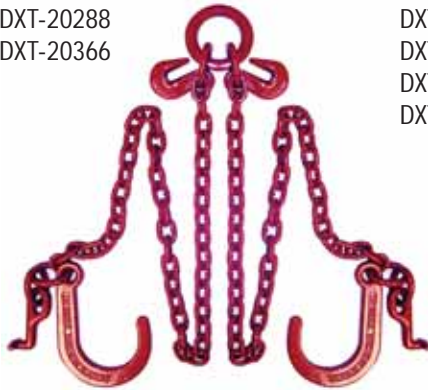


DXT-00003

DXT-10656  
DXT-11056



DXT-20288  
DXT-20366



DXT-10642  
DXT-11042



DXT-20222  
DXT-20322  
DXT-20622  
DXT-20822



DXT-10657  
DXT-11057



DXT-20299  
DXT-20399  
DXT-20699  
DXT-20899



BETTER

DXT-30001



DXT-30002



DXT-30003



DXT-40656  
DXT-41056



DXT-50288  
DXT-50388



DXT-40657  
DXT-41057



DXT-50299  
DXT-50399  
DXT-50699  
DXT-50899



DXT-40642  
DXT-41042



DXT-50222  
DXT-50322  
DXT-50622  
DXT-50822



# TOWING HARDWARE

## Our Good/Better Towing Assemblies



<b>GOOD</b>		CMG Long Link Chain	WLL 4700
		Finish: Powdercoated Red	
Part Number	Description	Wt. lbs.	
<i>CLUSTERS WELDED</i>			
DXT-0000A	Cluster - Mini J, T, 1 Master, 1 link	1.5	
DXT-00002	Cluster - Mini J, T, R, 1 Master, 2 links	2.8	
DXT-00003	Cluster - Mini J, T, 1 Master, Grab, 2 links	2.8	
DXT-00001	Cluster - Mini J, T, R, Grab, 1 Master, 2 links	3.5	
<i>CHAIN ASSEMBLIES</i>		<i>Left</i>	<i>Right</i>
DXT-10656	Chain Assy 5/16 X 6' T, Grab	8"J	9.8
DXT-10657	Chain Assy 5/16 X 6' T, Grab	15"J	10.9
DXT-10642	Chain Assy 5/16 X 6' Grab	J,T,R	9.1
DXT-11056	Chain Assy 5/16 X 10' T, Grab	8"J	13.3
DXT-11057	Chain Assy 5/16 X 10' T, Grab	15"J	14.0
DXT-11042	Chain Assy 5/16 X 10' Grab	J,T,R	11.0
<i>BRIDLES with Grab Shorteners</i>			
DXT-20288	Bridle Assy 5/16 X 2' T, 8"J	14.7	
DXT-20299	Bridle Assy 5/16 X 2' T, 15"J	15.6	
DXT-20222	Bridle Assy 5/16 X 2' J,T,R	11.4	
DXT-20366	Bridle Assy 5/16 X 3' T, 8"J	16.9	
DXT-20399	Bridle Assy 5/16 X 3' T, 15"J	18	
DXT-20322	Bridle Assy 5/16 X 3' J,T,R	13.2	
DXT-20699	Bridle Assy 5/16 X 6' T, 15"J	22.8	
DXT-20622	Bridle Assy 5/16 X 6' J,T,R	18.6	
DXT-20899	Bridle Assy 5/16 X 8' T, 15"J	26.4	
DXT-20822	Bridle Assy 5/16 X 8' J,T,R	22.2	

Hooks made in USA, chain made in North America

<b>BETTER</b>		Short Link Domestic Chain	WLL 5000
		Finish: Powdercoated Black	
Part Number	Description	Wt. lbs.	
<i>CLUSTERS WELDED</i>			
DXT-30001	J/T Combo, R, Grab	3.6	
DXT-30002	J/T Combo, R	2.7	
DXT-30003	J/T Combo, Grab	2.8	
<i>CHAIN ASSEMBLIES</i>		<i>Left</i>	<i>Right</i>
DXT-40656	Chain Assy 5/16 x 6' T, Grab	8" J	9.5
DXT-40657	Chain Assy 5/16 x 6' T, Grab	15" J	10.7
DXT-40642	Chain Assy 5/16 x 6' Grab	J,T,R	8.1
DXT-41056	Chain Assy 5/16 x 10' T, Grab	8" J	13.1
DXT-41057	Chain Assy 5/16 x 10' T, Grab	8" J	14.2
DXT-41042	Chain Assy 5/16 x 10' Grab	J,T,R	11.7
<i>BRIDLES</i>			
DXT-50288	Tow Tiger 5/16 x 2' 8"J, J/T Combo	11.3	
DXT-50299	Tow Tiger 5/16 x 2' 15"J, J/T Combo	13.6	
DXT-50222	Tow Tiger 5/16 x 2' R, J/T Combo	8.6	
DXT-50388	Tow Tiger 5/16 x 3' 8"J, J/T Combo	13.1	
DXT-50399	Tow Tiger 5/16 x 3' 15"J, J/T Combo	15.4	
DXT-50322	Tow Tiger 5/16 x 3' R, J/T Combo	10.4	
DXT-50699	Tow Tiger 5/16 x 6' 15"J, J/T Combo	20.8	
DXT-50622	Tow Tiger 5/16 x 6' R, J/T Combo	15.8	
DXT-50899	Tow Tiger 5/16 x 8' 15"J, J/T Combo	24.4	
DXT-50822	Tow Tiger 5/16 x 8' R, J/T Combo	19.4	

**GOOD** and **BETTER** lines of towing chain assemblies come **Powdercoated Red or Black**.

Our powdercoating is pure paint with no wax fillers and is baked onto the assemblies at about 400°F for a harder, longer lasting protective coating. Our competitors simply Yellow Chromate their assemblies which, if left in the weather, starts rusting very quickly.

The new **J/T Combo Hook** combines these two hooks into one easy unit providing greater flexibility and lighter clusters.

The patented **Tow Tiger** bridle is lighter than the traditional tow assembly that uses a ring and chain shortener hooks. Rings and hooks get in the way and add weight to the assembly.

The innovative **Tow Tiger** allows maximum adjustability and speed. Simply slide the chain into the required position and it locks in place. It is very easy to make one leg longer than the other for angle pulls. Since the two legs are actually one piece of chain, you can make the two 2 ft leg bridle into one 4 ft leg if required.

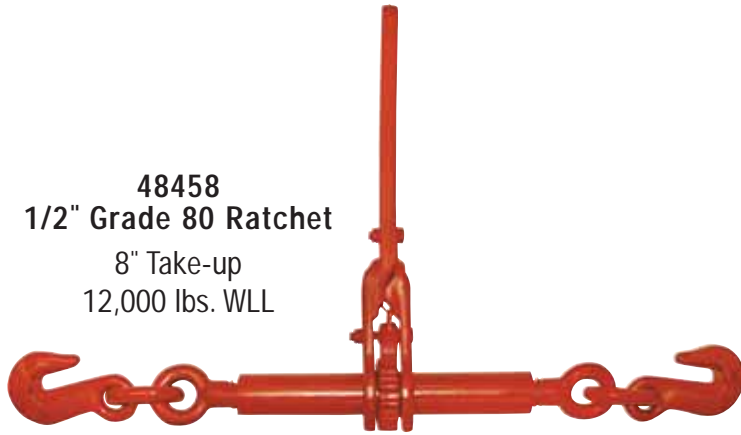


# TOWING HARDWARE

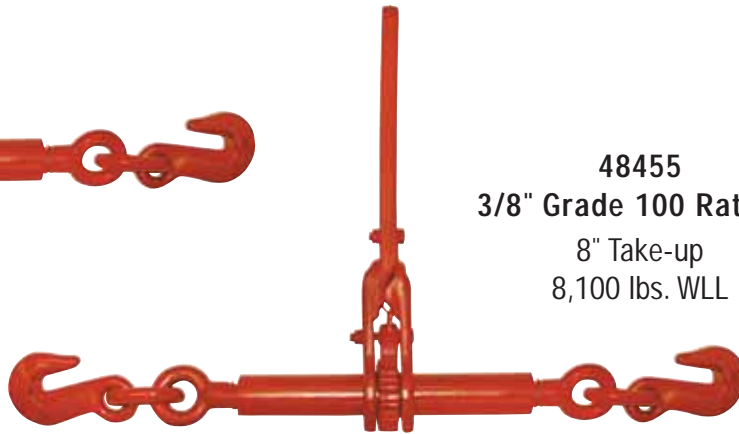
## High Strength Ratchet Binders



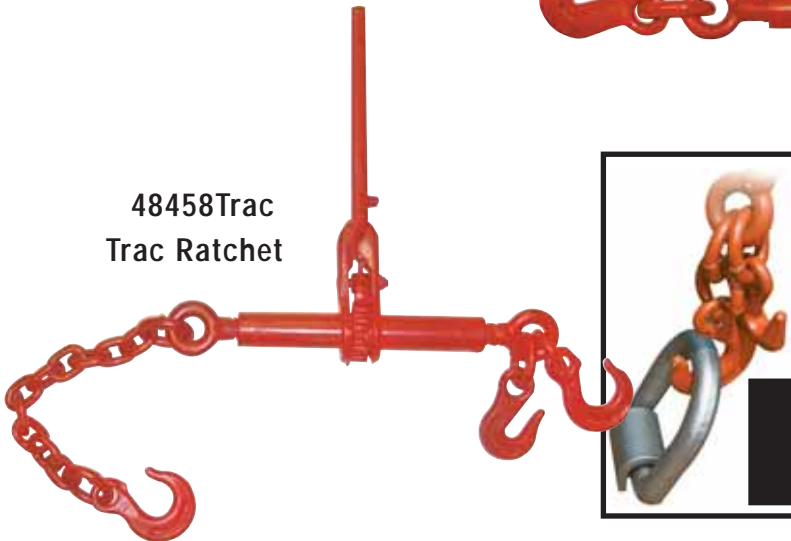
Heavy hauler ratchet binders designed with load securement in mind.



**48458**  
1/2" Grade 80 Ratchet  
8" Take-up  
12,000 lbs. WLL



**48455**  
3/8" Grade 100 Ratchet  
8" Take-up  
8,100 lbs. WLL



**48458Trac**  
Trac Ratchet



*Grap Hook & Slip Hook on one end and Grab Hook on the other. Enables you to hook directly into a D ring.*

PART NUMBER	CHAIN GRADE & SIZE (in.)			TAKE UP (in.)	HANDLE LENGTH (in.)	WORKING LOAD WEIGHT LIMIT (WLL) EACH (lbs.)	
	G30	G43	G70			(lbs)	(lbs.)
48455 BODY	3/8	---	5/16	8.0	14	8,100	12
48458 BODY	1/2	---	---	8.0	14	12,000	13
48458Trac	---	---	---	8.0	14	---	----

\*WLL = Working Load Limit. Please read warning on back cover.  
NOT TO BE USED FOR OVERHEAD LIFTING

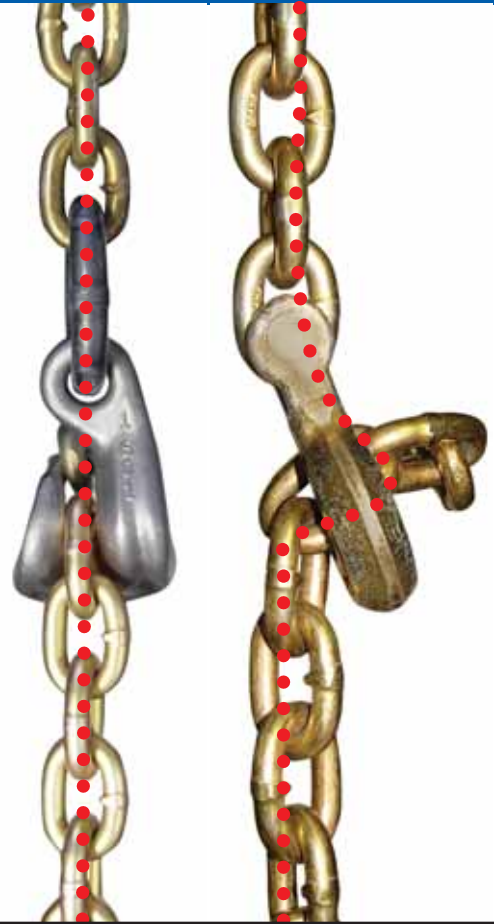


## In-Line Hook Assemblies



*Pulls in straight line*

- Hook less likely to come off when chain becomes slack
- Uses 100% of chain capacity
- Assembles with In-Line Hook on both ends.
- Available in 5/16" G7 only  
*Self Colored & Yellow Chromate*



Part Number	Length	WLL
639064IL	16ft Long Link	4,700 lbs
639024IL	20ft Long Link	4,700 lbs
638264IL	16ft Short Link	5,000 lbs
638224IL	20ft Short Link	5,000 lbs

## Series 602 Mini-Ratchet Lever Hoist

A helping hand for lifting or securing driveshafts

Performs just like larger hoists, except they're small enough to fit in the palm of your hand.

- Rubber hand grip for better comfort and security
- Lightweight design for ease of portability. Use in confined conditions with one-hand operation.
- Free wheeling feature serves to quickly attach to load.



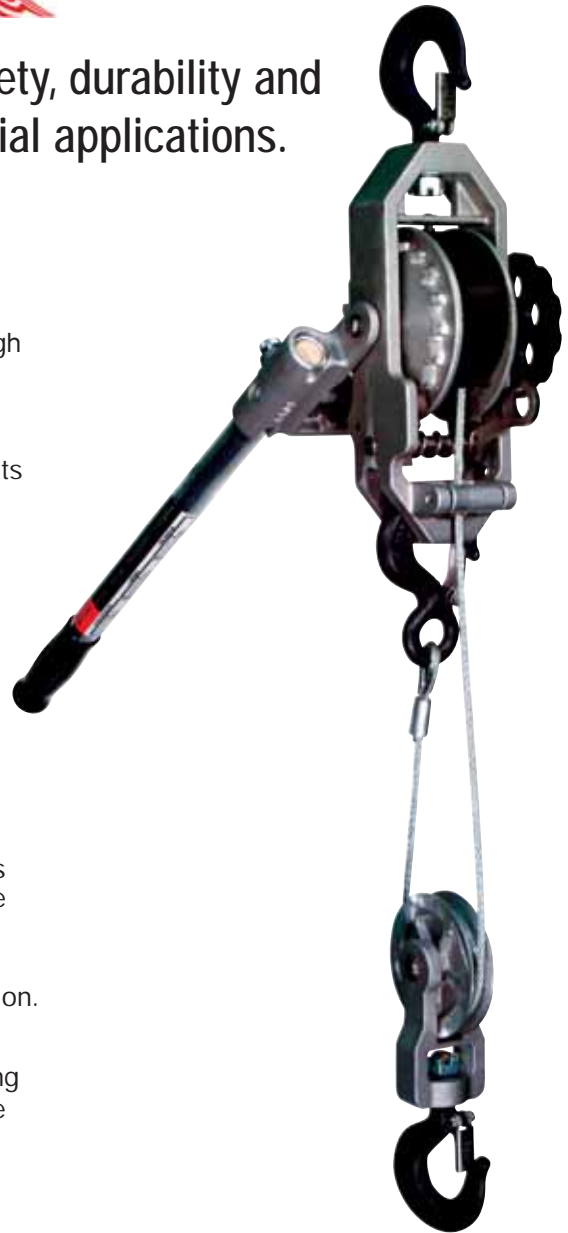
Part Number	Max Capacity	No. of chainfalls	Lift w/ 1 full lever turn	Handle pull @ WLL (lbs)	Net Weight w/standard lift (lbs)
0211	1/4 T / 500 lbs.	1	3.15"	56	6.0
0212	Carrying Pouch				

WARNING: Do not exceed working load limits.

## Cable Ratchet Lever Hoist

Cable Hoists are designed to provide safety, durability and versatility for construction and commercial applications.

- MEETS ANSI STANDARD B-20.21 - For overhead lifting.
- RUGGED AND LIGHTWEIGHT - Housings made from high strength aluminum alloy.
- HANDLE DESIGNED FOR OVERLOAD PROTECTION - Handle bends to warn of hazardous condition and prevents dangerous overload.
- HEAVY DUTY CABLE - Unit utilizes preformed and galvanized 7 x 19 (133 strand) extra flexible aircraft cable.
- FAST CABLE TAKE-UP - Winding wheel provides quick take-up or positioning of cable.
- POSITIVE LOAD CONTROL - Double interlocking pawl system holds load in all environments.
- LOW MAINTENANCE - Stainless steel shafts and springs resist corrosion. All rotating shafts are mounted on bronze bushings for reduced wear.
- OPEN CONSTRUCTION - For easy cleaning and inspection.
- SAFETY - One pawl is always engaged with ratchet during lifting and lowering operations. 360° swiveling hooks have safety latches for positive load engagement.
- LIFETIME WARRANTY



Model Number	Single Line			Double Line			Cable Specifications		Net Weight (Lbs)		
	Capacity		Lift* (Ft.)	Min. Hdrm. (In.)	Capacity		Lift* (Ft.)	Min. Hdrm. (In.)		Diam. (In.)	Length (Ft.)
	Lbs.	Tons			Lbs.	Tons					
C430CDPA	1,500	¾	21 ½	25	3,000	1½	10¼	3 ½	¼	24	15
C404WNA	2,000	1	12 ½	22 ½	4,000	2	6	28 ½	9/32	15	12 ½

\* Lift is measured according to ANSI standards, which require two wraps of cable on the drum at all times.

## Chains/Chain Kit



Chain assemblies available individually, or as a complete set to outfit your truck.



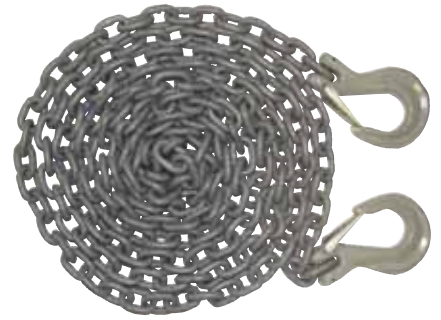
Clevis Hook Chain

G70 Short Link  
domestic assemblies



Grade 80 Alloy Chain

with Cradle Grab Hook



Grade 100 Chain

with Slip Latch Hooks

Part Number	Length	Weight
638291	G70 3/8" x 14'	23.5 lbs
638294	G70 3/8" x 20'	32.9 lbs
607050CL15	G80 1/2" x 15'	42.0 lbs
607050CL20	G80 1/2" x 20'	55.0 lbs
607337CL20	G100 3/8" x 20'	31.0 lbs

### Chain Kit Includes 2 each of the following:

638270	G70 5/16" x 10'	11.12 lbs
639011 LL	G70 3/8" x 10'	15.73 lbs
638284	G70 5/16" x 20'	21.10 lbs
638294	G70 3/8" x 20'	32.90 lbs
607050CL15	G80 1/2" x 15'	42.00 lbs
607050CL20	G80 1/2" x 20'	55.00 lbs
48455 Ratchet Binder	G100 5/16" x 3/8" WLL: 8,100	11.82 lbs
48458 Ratchet Binder	G80 1/2" G80 WLL: 12,000	11.82 lbs

DISPLAY NOT INCLUDED



Chain Kit

## Recovery J-Hook Assemblies



In 1997 Dixie Industries revolutionized the **G70 FORGED ALLOY J HOOK** (Patent 5564766).

In 2005 we introduced the **RECOVERY J HOOK ASSEMBLY**.

- Patented I beam profile Towing 15" Clevlok Alloy J Hook
- Designed for use with 3/8" G80 Alloy Chain
- G80 Heat treated and proof tested with 7,100 lb. WLL (the highest in the industry).
- ClevLoc style head, no catch points
- Patented nose design reduces hook slippage on chain
- Load rest reduces load rolling out of hook bowl (load must be behind rest)
- Designed for the professional towing
- G80 Proof Loaded Assemblies
- All mechanical connection...no welded links



Product Code	Size (In. / mm)	Chain Length	Description	Working Load Limit (Lbs.)
97901G8	3/8" SC	10 ft.	Omega Lock and Master Link	7,100
97902G8	3/8" SC	10 ft.	ClevLok Cradle Grab	7,100

!
**WARNING**

**IMPROPER USE AND CARE OF CHAIN SLINGS CAN RESULT IN BODILY INJURY.**

**TO AVOID INJURY:** Never exceed the working load limit. Always inspect sling before each use. Do not impact load or jerk from sling. Protect chain from sharp corners and objects. Protect slings from corrosion.

# RESCUE AND RECOVERY

## Assembly Attachments



JD Weld-On Alloy Lifting Hook



G30 Weldable Grab Hook



Swivel Lodelok™ Hook



Clevlok® Lodelok™ Hook



D-Ring and Clip



Hammerlok



Clevis Link



Carbon Web Sling Shackle



Pear Link



Master Link



Saddle Grab



Triangle



Omega Link



Long Reach Shackle



Anchor Pin Shackle



Double Clevis

Part Number	Description	Size	WLL
M4303	Weld-On Hook		6,615
M4305	Weld-On Hook		11,025
90305	Weldable Grab Hook	1/2" G3	4,500
676010	Swivel Lodelok Hook	3/8" *	8,800
616010	Clevlok Lodelok Hook	3/8" *	8,800
93200	D-Ring	1x3x4	12,000
93210	D-Ring Clip	1	N/A
664028	Hammerlok	9/32"	3,500
664038	Hammerlok	3/8"	8,800
664050	Hammerlok	1/2"	12,000
695444	Clevis Link	3/8"	6,600
M702	Web Sling Shackle	5/8"	8,050
M703	Web Sling Shackle	3/4"	13,050
M704	Web Sling Shackle	3/4"	10,800
93220	Pear Link	1/2"	2,900
95660	Pear Link	5/8"	4,200
95671	Pear Link	3/4"	6,000
554932	Master Link HA50		6,100
554935	Master Link HA75		12,300
554938	Master Link HA100		20,800
44200	Saddle Grab		6,600
90210	Triangle	3"	4,000
M162	Triangle	4"	4,000
644138	Omega Link	3/8"	7,100
644150	Omega Link	1/2"	12,000
M7152	Long Reach Shackle	3/4"	10,000
M648P	Anchor Pin Shackle	3/8"	3,000
M650P	Anchor Pin Shackle	1/2"	6,000
M651P	Anchor Pin Shackle	5/8"	9,000
82380	Double Clevis	3/8"	6,000
82480	Double Clevis	1/2"	11,300

\* other sizes and grades available

## Air Bag Safe

*Dixie Industries' Air Bag Safe - the reliable protection against late deployment of driver's side air bag.*

Up to 20 minutes after a road traffic accident, non-deployed air bags can unexpectedly be inflated even with the battery disconnected.

The **Air Bag Safe** protects both rescuer and casualty from injury that might be caused by uncontrolled inflation of the driver's side air bag during rescue work.

**Air Bag Safes** come in two sizes to cover steering diameters 14" - 18". Just place the **Air Bag Safe** on the steering wheel and tighten it with straps behind the steering wheel rim after each application unless it catches a deployed air bag.

**Air Bag Safes** come packaged in two sizes in a wear-resistant, plastic carrying case.



## Passenger Air Bag Safe

*The Dixie Industries' Passenger Air Bag Safe provides maximum protection for rescuer and victim against late air bag deployment during the rescue work.*

The **Passenger Air Bag Safe** is fixed on the passenger side with easy to operate straps.

Time required for setting up the whole system is approx. 1 minute and can be put on both prior to or after removal of windshield or roof.

The system comes in a water-repellent Nylon carry bag and weighs only 6.6 lbs.



Product No.	Description
36001101	Air Bag Safe - Three Models in Plastic Box
36004101	Passenger Airbag Safe in Plastic Box

## Protection Covers

*Dixie Industries' Protection Covers guard paramedics, rescuers and victims from sharp edges left by hydraulic cutters.*

### Protection Hoods

One hood covers A or B-post stump after car roof removal. When fixed with the integrated tightening strap, the hood will safely remain in place.

### Protection Blankets

Blankets cover long, sharp edges on damaged vehicle, especially the roof area. Fitted with powerful sewn-in magnets, each blanket can easily be attached to any metal part of the vehicle.

The system comes in a water-repellent Nylon carry bag.

### Features

- Made from extremely wear-resistant Cordura<sup>®</sup> by DuPont and Trevira<sup>®</sup> Complan. Both prevent water absorption and are easily washable.
- Several layers of fleece fibers compress against sharp edges to form an almost impervious cover.
- An air bolster between the fiber layers gives a maximum of soft, yet strong protection.
- System sets up in a few seconds.



Part Number	Description
<i>PROTECTION COVER SET</i>	
36006201	Protection Cover Set
	13.8" x 11.8" Cover
	25.6" x 25.6" Cover
	65.0" x 25.6" Cover



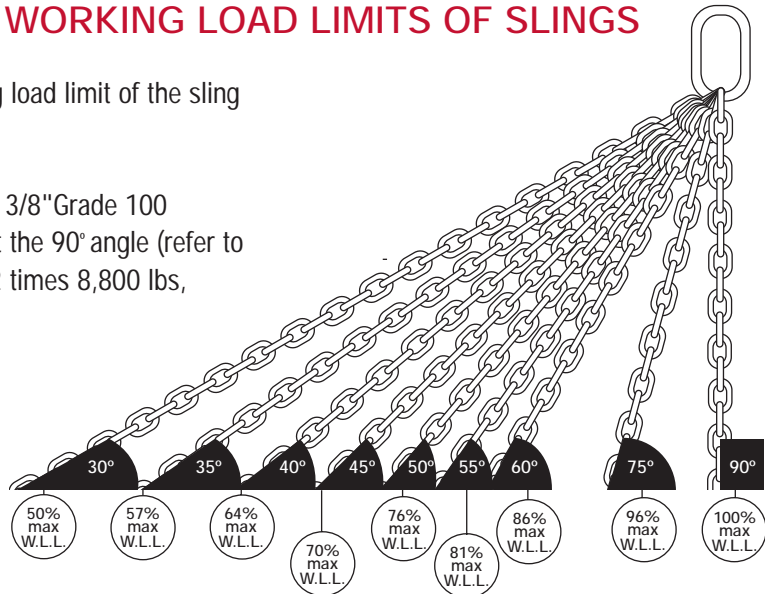
# REFERENCE - SLING LOAD LIMITS

## HOW LIFTING ANGLES REDUCE WORKING LOAD LIMITS OF SLINGS

Percentages shown represent the maximum working load limit of the sling when used at the designated angle.

For example, when using a double leg sling made of 3/8" Grade 100 components, each leg has a WLL of 8,800 lbs. So, at the 90° angle (refer to diagram) the sling will have a working load limit of 2 times 8,800 lbs, which is 17,600 lbs.

The same double sling used at 35° would have a maximum working load limit of 57% of 17,600 lbs. or  $.57 \times 17,600 \text{ lbs.} = 10,032 \text{ lbs.}$



## GRADES OF CHAIN

Size (in.)	GRADE 30 PROOF COIL CHAIN Embossing G30 & Date Code		GRADE 43 HIGH TEST CHAIN Embossing G43 & Date Code		GRADE 70 TRANSPORT CHAIN Embossing G70 CM USA & Date Code		GRADE 80 HERC-ALLOY CHAIN HA800 Embossing HA800 USA & Date Code		GRADE 100 HERC-ALLOY CHAIN HA1000 Embossing HA100 USA & Date Code	
	WLL (lbs.)	WLL (kN.)	WLL (lbs.)	WLL (kN.)	WLL (lbs.)	WLL (kN.)	WLL (lbs.)	WLL (kN.)	WLL (lbs.)	WLL (kN.)
3/16	800	4	---	---	---	---	---	---	---	---
7/32	---	---	---	---	---	---	2,100	9	2,700	12
1/4	1,300	6	2,600	12	3,150	14	---	---	---	---
9/32	---	---	---	---	---	---	3,500	16	4,300	19
5/16	1,900	8	3,900	17	4,700	21	4,500	20	---	---
3/8	2,650	12	5,400	24	6,600	29	7,100	32	8,800	39
7/16	4,500	20	7,200	32	8,750	39	---	---	---	---
1/2	---	---	---	---	11,300	50	12,000	53	15,000	67
5/8	6,900	31	13,000	58	---	---	18,100	81	---	---
3/4	10,600	47	20,200	90	---	---	28,300	126	35,300	157

## CHAIN GRADE IDENTIFICATION

Markings at right are G70 Transport chain. Chain grade identification and country of origin is accomplished using embossed (raised) numbers and letters.

Embossing may be difficult to see on chain which has been in service and is rusty, dirty or worn. Typically, marked links contain only one marked area. Wire brushing and illumination will help improve visibility of markings.

Depending on product and manufacturer, chain grade identification mark spacing varies from every link to one every 3 feet (91.5cm).



## What is the correct formula for safe steering when towing?

Holmes recommends using a safe steering formula that maintains at least 50 percent of the **unladen** (unloaded) front axle weight for towing. That formula is expressed as follows:

$$ML = 1/2 \text{ FAW} \times \text{WB/OH}$$

where:

ML = Maximum lifted load for safe steering

FAW = unladen weight at front scale

WB = wheel base *or* distance between the center of the front axle to the center of the rear axle.

OH = overhang *or* distance from the center of the rear axle(s) to the lift point of the towing device.

To use that formula, divide the unladen weight at the axle by two. Multiply the result by the wheel base.

Then divide that result by the overhang.

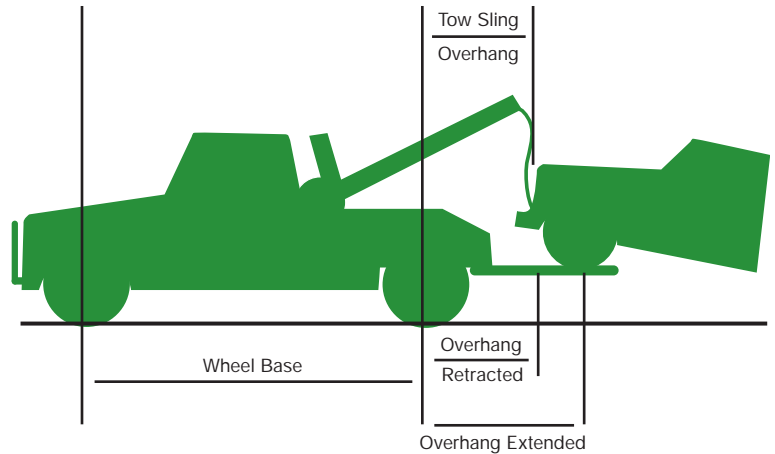
*The 50% formula is now considered the industry standard.*

Observe the gross vehicle weight ratings (GVWR), gross axle weight ratings (GAWR) and the towing equipment ratings.

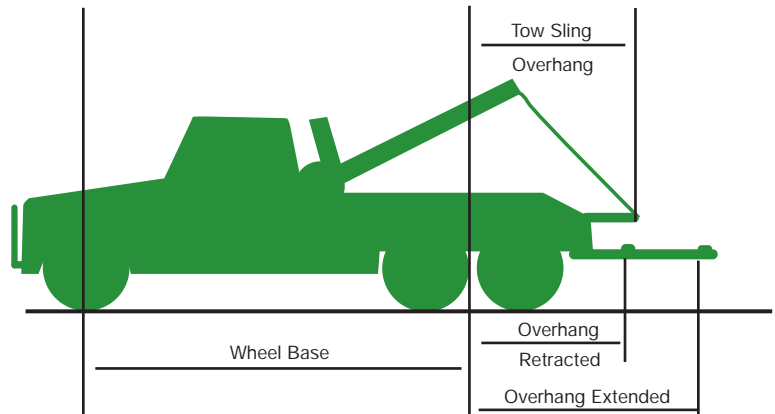
GVWR - the maximum amount of weight a vehicle is rated/designed to carry.

GAWR - the maximum amount of weight that axle is rated to carry.

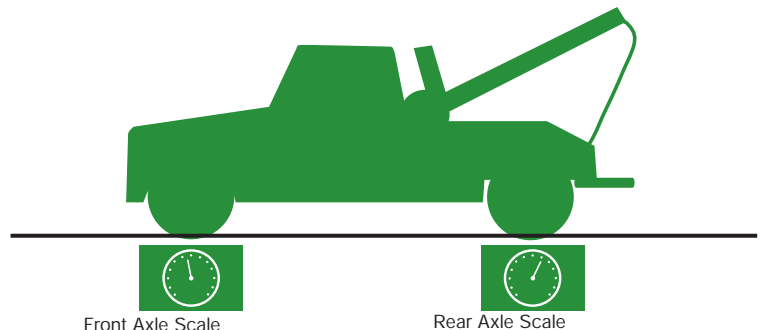
Wheel base and overhang distances for tow slings and wheel lifts.



Wheel base and overhang distances for truck hitches and underlifts



Unladen weights at front and rear axles



## REFERENCE - GENERAL INFORMATION

- ◆ Always use a tow light, safety chains, wheel straps or other device designed to secure vehicle to the wheel lift.
- ◆ When towing using a sling or wheel lift, you should secure the steering wheel with a proper device.
- ◆ Always take control of the vehicle by having wheel chocks to block wheels as needed.
- ◆ If unsure, check [www.towspec.com](http://www.towspec.com), AAA manual, car owner's manual, your supervisor or refer to the company policy before jump-starting, unlocking, winching or towing.
- ◆ Does your company have a general rule of thumb like: light and medium tow trucks shouldn't tow anything that has bigger wheels than the tow truck? Know and abide by your company policies.
- ◆ Generally a wheel lift should not be used as an anchor.
- ◆ When using under body tie down hooks, understand which holes are designed to accept which hooks.

### ⚠ WARNING ⚠

IMPROPER USE AND CARE OF CHAIN SLINGS CAN RESULT IN BODILY INJURY

TO AVOID INJURY:

- Never exceed the working load limit.
- Always inspect sling before each use.
- Do not impact load or jerk from sling.
- Protect chain from sharp corners and objects.
- Protect slings from corrosion.

### ⚠ WARNING ⚠

DEATH / INJURY CAN OCCUR FROM IMPROPER USE OR MAINTENANCE OF TIE-DOWN EQUIPMENT.

LOAD BINDER SYSTEMS STORE ENERGY WHICH CAN RELEASE SUDDENLY  
TO AVOID INJURY:

- Inspect before use. Remove from service if cracked, worn or deformed.
- Do not overload. Load binders develop approximate working load with hand effort.
- Do not use handle extender on load binder(s).
- Do not use binder components for overhead lifting.
- Operate only by hand from a firm standing point
- Operate handle cautiously
- Stay clear of handle path. Handle may release suddenly
- Follow DOT Federal Motor Carrier Safety Regulations 6392.9, S393.100, and S393.102
- Do not operate with anyone on the load
- Always apply binder in a straight line hook to hook manner without bending and such that handle goes down when securing load
- Tighten binders before moving and recheck frequently
- Secure handle down with a positive retaining method
- Release handle/load with extreme care. Make sure everyone is clear. Lever binder handle can snap back over center. Use open palm under handle and push up .



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