

LOAD/CARGO SECUREMENT

Forging Ahead with the Best for Over the Road



Ratchet Binders

Lever Binders

EZ Pro[®] Binders

EZ Pro[®] Assemblies

Chain Assemblies

Winches

Tie Down Systems

Hauling Accessories

Custom Parts

Speciality Products

di Dixie
Industries

A Columbus McKinnon Corporation Brand

Dixie delivers...

Dixie designs with Load Securement in mind - for your peace of mind.

No Weak Links - all Dixie Industries load binders and chains are engineered with a 4:1 design factor* and are forged - not cast.

Domestic, certified pure steel bar stock - that's what goes into our binders. They are stronger, lighter and safer than cast parts.

Cast parts become brittle and easily break on impact in cold conditions. Forged parts will yield or stretch before breaking - letting you know in advance that the part has been overloaded and needs to be removed from service.

Dixie Industries forges the best products in load securement for you.

*except G43 components



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FORGING IN THE USA
 FOR OVER 100 YEARS -
THAT'S THE KIND OF
 COMPANY THAT HELPS
 YOU DELIVER.

Trucking Industry Revolution

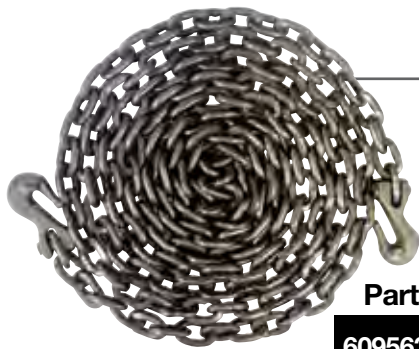


EZ Pro® - Load Securement System

- Meets or exceeds all Federal and D.O.T. requirements for cargo securement components
- 4:1 Design Factor
- Higher WLL mean less chains needed to meet DOT regulations.
- Best strength to weight ratio in the trucking industry



Embossing on every link alternating between WLL 6000 or WLL 10000, CMUSA and trace code.



6K and 10K EZ Pro® Chain Assemblies

Designed and manufactured specifically for cargo securement applications, yet 36% lighter than conventional chain assemblies.

Chain links are 100% proof tested.

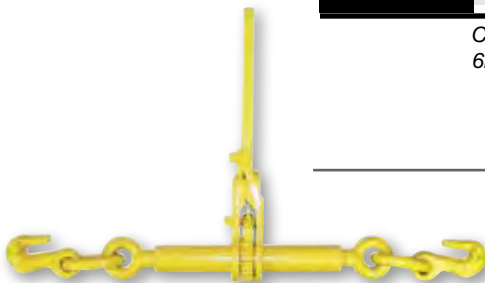
Clear gloss powder coated, spin riveted assemblies.

Part #	Size	Description	WLL (lbs)	Wt. Ea. (lbs)
609563CRV	6K x 20 ft.	6K Chain, I Beam, Hooks Each End	6,000	21.2
609564CRV	6K x 25 ft.	6K Chain, I Beam, Hooks Each End	6,000	26.2
609573CRV	10K x 20 ft.	10K Chain, I Beam, Hooks Each End	10,000	36.7
609574CRV	10K x 25 ft.	10K Chain, I Beam, Hooks Each End	10,000	44.9

Compare 6K chain to 3/8" and 10K chain to 1/2" on page 5
6K to 3/8 G7 Chain Adapter available upon request

EZ Pro® Ratchet Binder

10,000 working load limit, 10K links and hooks
Yellow painted finish



Part #	Size	Description	WLL (lbs)	Wt. Ea. (lbs)
48399	10K	EZ Pro® Ratchet Binder	10,000	16.0
46398	6K	EZ Pro® Ratchet Binder	6,000	15.0

EZ Pro® Lever Binder

6,000 working load limit, 6K links and hooks
Yellow painted finish



Part #	Size	Description	WLL (lbs)	Wt. Ea. (lbs)
48409	6K	EZ Pro® Lever Binder	6,000	10.1

GRADES OF CHAIN

	CM G30 PROOF COIL CHAIN CM G30 & Date Code	CM G43 HIGH TEST CHAIN CM G43 & Date Code	CM G70 TRANSPORT CHAIN CM G70 & Date Code	CM 6K CHAIN EZ Pro® CMUSA WILL & Date Code	CM 10K CHAIN EZ Pro® CMUSA WILL & Date Code	CM G80 HERC-ALLOY CHAIN HA800 CMUSA HA800 & Date Code	CM G100 HERC-ALLOY CHAIN HA1000 CMUSA HA100 & Date Code
Size (in.)	WLL (lbs.) (kN.)	WLL (lbs.) (kN.)	WLL (in.) (kN.)	WLL (in.) (kN.)	WLL (in.) (kN.)	WLL (in.) (kN.)	WLL (in.) (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	3,700 16	7,200 32	8,750 39	----	----	----	----
1/2	4,500 20	9,200 41	----	----	----	12,000 53	15,000 67
5/8	6,900 31	13,000 58	----	----	----	18,100 81	22,600 101
3/4	10,600 47	20,200 90	----	----	----	28,300 126	35,300 157
EZ Pro	----	----	----	6,000 27	10,000 44	----	----

BINDER CHAIN SPECIFICATIONS

GRADE OF CHAIN	Working Size (in.)	Working Load Limit (lbs.) (kN.)	Min. # of chains required to secure loads in forward direction by weight of the article in lbs. (kN.) - INDIRECT METHOD									
			5,000 (22)	10,000 (44)	15,000 (67)	20,000 (89)	25,000 (111)	30,000 (133)	35,000 (156)	40,000 (178)	45,000 (200)	50,000 (222)
CM GRADE 30 PROOF COIL	5/16	1,900 8	3	5	8	9	11	13	15	17	19	22
	3/8	2,650 12	2	4	5	7	8	10	11	13	14	16
CM GRADE 43 HIGH TEST	5/16	3,900 17	2	3	4	5	6	7	8	9	10	11
	3/8	5,400 24	1	2	3	3	4	5	6	6	7	8
CM G70 TRANSPORT CM G70 TRANSPORT	1/4	3,150 14	2	3	4	6	7	8	9	11	12	13
	5/16	4,700 21	1	2	3	4	5	6	6	7	8	9
6 K		6,000 27	1	1	2	3	4	4	5	6	6	7
CM G70 TRANSPORT	3/8	6,600 29	1	2	2	3	4	4	5	5	6	7
10K		10,000 45	1	1	2	2	2	3	3	4	4	4
CM G70 TRANSPORT	1/2	11,300 50	1	1	2	2	2	3	3	3	4	4
CM G80 HERC-ALLOY HA800	7/32	2,100 9	2	4	6	8	10	12	14	16	18	20
	9/32	3,500 16	2	3	4	5	6	7	9	10	11	12
	5/16	4,500 20	1	2	3	4	5	6	7	8	8	9
	3/8	7,100 32	1	2	2	3	3	4	4	5	6	6
CM G100 HERC-ALLOY HA1000	3/8	8,800 39	1	1	2	2	3	3	4	4	5	5

WEIGHT SAVINGS USING A 6K OR 10K CHAIN ASSEMBLY ON A 50,000 LB. LOAD:

6K vs. 5/16" - 21.2 lbs. weight saved - uses 2 less chains 6K vs. 3/8" - 38.3 lbs. weight saved - uses 2 more chains, but overall chain weight is less
 10K vs. 3/8" - 24.3 lbs. weight saved - uses 2 less chains 10K vs. 1/2" - 78.2 lbs. weight saved - same number of chains, but overall chain weight is less

This chart indicates the minimum number of chains required to secure loads in the forward direction (0.8g deceleration) per Federal Motor Carriers Safety Administration, DOT Regulations; per 49CFR, Part 393 - Paragraph 393.102. Refer to 49CFR, Parts 392 and 393, for North American Standard for Protection Against Falling and Shifting Cargo for complete regulations. There are specific regulations for types of products shipped (concrete, timber, pipe, steel coils, etc.) Refer to FMC 393.100.

chain features

Dixie Industries features **Columbus McKinnon** chain. For **130 years** CM has been manufacturing high grade chain using **state-of-the-art** equipment and processes. Our chains are made to the highest specifications and meet or exceed requirements of **FMCSA, CVSA, NACM** and **ASTM** standards.

We pride ourselves on the quality of our product and are committed to meeting your needs **accurately** and **efficiently**.



6K and 10K



- High Strength Steel - yet 36% lighter than conventional chain
- Spin riveted assemblies
- Links 100% proof tested
- WLL, CMUSA or trace code embossed on every link
- Clear powder coated finish - does not degrade in ultra-violet light
- 4:1 design factor

Grade 43



- High Strength Steel
- Welded & Clevis Assemblies
- Does not degrade in ultra-violet light
- Links 100% proof tested
- Embossed with CM logo and date code

Grade 70



- High Strength Steel
- Thermal heat-treated for superior strength
- Does not degrade in ultra-violet light
- Links 100% proof tested
- CMUSA, Grade and trace code embossed on links
- Yellow chromate finish for quick recognition
- 4:1 design factor vs. 3:1 for webbing
- Made to order assemblies with 3 days or less lead-time

Grade 80 / Grade 100



- High Quality Alloy Steel
- Innovators of G80 HercAlloy®
- Thermal heat-treated - does not degrade in ultra-violet light
- Embossed with grade, CMUSA and trace code
- Environmentally friendly water based black finish
- Recommended for heavy equipment
- Links are 100% proof tested
- 4:1 design factor vs. 3:1 for webbing
- Made to order assemblies with 3 day or less lead-time

IF LOAD SECUREMENT IS THE GOAL THEN DIXIE INDUSTRIES' PRODUCTS FIT THE BILL.



binder chain assemblies

chain



Part #	Grade	Size	Description	WLL (lbs.)	Wt Ea (lbs.)
G70 Chain Assemblies with Riveted Clevis Hooks					
638281CRV	G70	5/16" x 14'	G70 Chain, Riveted Hooks ea. End	4,700	15.2
638282CRV	G70	5/16" x 16'	G70 Chain, Riveted Hooks ea. End	4,700	17.2
638283CRV	G70	5/16" x 18'	G70 Chain, Riveted Hooks ea. End	4,700	19.2
638284CRV	G70	5/16" x 20'	G70 Chain, Riveted Hooks ea. End	4,700	21.2
638279CRV	G70	5/16" x 25'	G70 Chain, Riveted Hooks ea. End	4,700	26.2
639079CRV	G70LL	5/16" x 25'	G70LL Chain, Riveted Hooks ea. End	4,700	23.2
638291CRV	G70	3/8" x 14'	G70 Chain, Riveted Hooks ea. End	6,600	23.5
638292CRV	G70	3/8" x 16'	G70 Chain, Riveted Hooks ea. End	6,600	26.6
638293CRV	G70	3/8" x 18'	G70 Chain, Riveted Hooks ea. End	6,600	29.8
638294CRV	G70	3/8" x 20'	G70 Chain, Riveted Hooks ea. End	6,600	32.9
S89492CRV	G70	3/8" x 25'	G70 Chain, Riveted Hooks ea. End	6,600	39.7



G43 & G70 Chain Assemblies with Clevis Grab Hooks					
638219	G43	3/8" x 20'	G43 Chain, Clevis Grab Hooks ea. End	5,400	30.0
639082	G70LL	5/16" x 16'	G70LL Chain, Clevis Grab Hooks ea. End	4,700	15.3
638284	G70	5/16" x 20'	G70 Chain, Clevis Grab Hooks ea. End	4,700	21.1
639084	G70LL	5/16" x 20'	G70LL Chain, Clevis Grab Hooks ea. End	4,700	19.4
638279	G70	5/16" x 25'	G70 Chain, Clevis Grab Hooks ea. End	4,700	24.0
639094	G70LL	3/8" x 20'	G70LL Chain, Clevis Grab Hooks ea. End	6,600	30.2
638294	G70	3/8" x 20'	G70 Chain, Clevis Grab Hooks ea. End	6,600	32.9
639094	G70LL	3/8" x 20'	G70 Chain, Clevis Grab Hooks ea. End	6,600	29.7
638350	G70	1/2" x 20'	G70 Chain, Clevis Grab Hooks ea. End	11,300	52.4



G70 Chain Assembly with Eye Hooks					
639024	G70LL	5/16" x 20'	G70LL Chain, Eye Hooks ea. End	4,700	19.5



Special Chain Assemblies					
32909	G30	5/16" x 4'1"	G30 Chain - YC, 1 Clevis Latch Hk, Bulk	1,900	4.8
95265	G43	3/8" x 2'6"	G43 Chain - ZP, 1 Oblong Master Lk, Bulk	5,400	5.8



G70 Chain Drum Pack					
679033	G70LL	3/8" 400 Feet of G70 LL Chain In Drum		6,600	560.0

ratchet binder features

Ratchet binders provide **superior ergonomics** to the traditional lever binder by requiring less physical strength to attach and remove.

Dixie Binders **exceed** the highest military and professional specifications, including CVSA Cargo Securement Guidelines, Federal Highway and D.O.T. requirements.



*Each Dixie ratchet binder component is forged from **pure domestic steel**.*

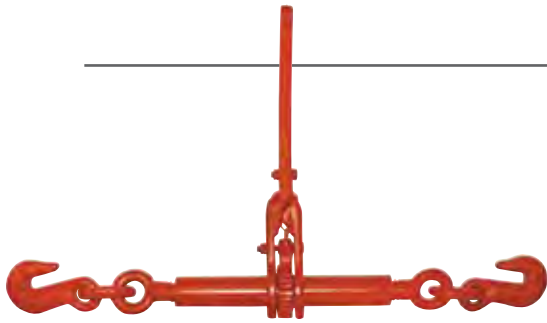
- **Rugged Handle** - our ratchet handle is purposely has an open design using self-locking one-way bolts. The open design allows mud, snow, ice or other clogging substance to be easily removed from the ratchet mechanism by striking with a hammer or other tool, even at below freezing temperatures.
- **Extra Strong Eye Bolts** - All 1" ratchet binders feature oversized eyebolts and barrels providing additional support material for wear and tear.
- **Gears** - Dixie ratchet gears are permanently welded to the barrel - there is no roll pin to fall out.
- **Barrels** - Dixie Industries upset forges our barrels which builds mass for deeper and more consistent threads that will not pull out. This provides constant contact for the Acme Threads between bolt and barrel.
- **Acme Threads** - fastest take up, stays put and won't back off. Some other companies use tapered threads.
- **Micro-Alloy Hooks** - designed to yield before catastrophic failure.



DIXIE BINDERS GIVE
OVER THE ROAD
TRUCKERS THE SECURITY
THEY NEED.
TO DELIVER THE LOAD -
EVERY TIME.

high strength ratchet binders

Sometimes the job calls for **more muscle** than a standard binder can handle - *that's when you need the power of Dixie's **high strength** ratchet binders.*



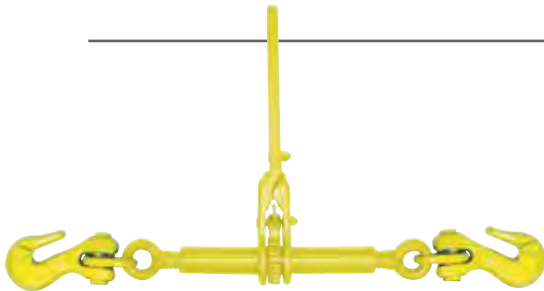
High Strength Ratchet Binders

A heftier version of our standard forged ratchet binder.

Able to withstand higher working load limits and Grade 80 and 100 chain assemblies.

Part #	Chain Grade & Size (in.)				Handle Take Up (in.)	Handle Length (in.)	WLL (lbs.)	Weight Each (lbs.)
	G43	G43	G80	G100				
48458	1/2	1/2	1/2	---	8.00	14.0	12,000	13.0
48455	3/8	3/8	3/8	3/8	8.00	14.0	8,800	12.0

WARNING: Not for overhead lifting.



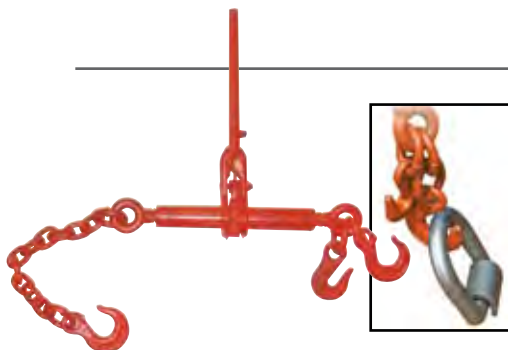
EZ Pro® Ratchet Binders

Works as an integral part of the **EZ Pro® Load Securement System.**

Overall lighter and stronger than comparable conventional systems - while still meeting all Federal regulations and requirements.

Part #	Chain Grade & Size (in.)	Handle Take Up (in.)	Handle Length (in.)	WLL (lbs.)	Weight Each (lbs.)
48399	10K	8"	14"	10,000	16.0
46398	6K	8"	14"	6,000	15.0

custom ratchet binders



Ratchet Binders for Special Applications

Grab Hook and Slip Hook on one end and Slip Hook on the other.

Enables you to hook directly into a D ring.

Visit www.cmforge.com to build your own custom Trac Ratchet.

forged ratchet binders

Many other **specialty binders** are available. Please call our Customer Service Department or visit our web site for information on building your own **custom ratchet binder**. We will be happy to answer any questions you have.

Forged Eye/Hook Ratchet Binders

The workhorse of any load securement system.

The forged steel strength of Dixie ratchet binders provide superior ergonomics to the traditional lever binder by requiring less physical strength to attach and remove.







Removable Handle Ratchet Binders

A properly tensioned ratchet barrel - with the handle removed - provides greater load security, making it less likely for your load to be stolen.

Reduces your overall weight, no need for additional handles.



Additional End Fittings Available

-  Clevis Jaw
-  Stub End
-  Forged Eye Bolt
-  Drilled Eye Bolt (to customer specs)

Part #	End Fittings	Chain Grade & Size (in.)				Take Up (in.)	Handle Length (in.)	Barrel Size O.D.(in) (dia x length)	Screw Diameter (in.)	WLL (lbs.)	Weight Each (lbs.)
		G30	G43	G70	G80						
48364	Hook/Hook	1/4	1/4	---	4.00	11.0	1 5/16 x 6	3/4 x 6	2,600	5.4	
48811	Eye/Eye (no hooks)				8.00	12.00	1 5/16 x 6	3/4 x 6	5,400	8.6	
48363	Eye/Eye (no hooks)				8.00	14.00	1 1/2 x 10	1 x 10	13,000	9.8	
46565	Body only	3/8	3/8	5/16	8.00	N/A	1 1/2 x 10	1 x 10	5,400	11.0	
46566	Body only	1/2	1/2	3/8	8.00	N/A	1 1/2 x 10	1 x 10	9,200	11.7	
46565H	Handle only	N/A	N/A	N/A	N/A	14.00	N/A	N/A	N/A	4.3	
48810	Hook/Hook	3/8	3/8	5/16	8.00	12.00	1 5/16 x 6	3/4 x 6	5,400	8.6	
48360	Hook/Hook	3/8	3/8	3/8	3/8	8.00	1 1/2 x 10	1 x 10	7,100	13.0	
48365	Hook/Hook	3/8	3/8	5/16	5/16	8.00	1 1/2 x 10	1 x 10	5,400	12.0	
48366	Hook/Hook	1/2	1/2	3/8	3/8	8.00	1 1/2 x 10	1 x 10	9,200	13.0	
48367	Hook/Hook	5/8	5/8	1/2	1/2	8.00	1 1/2 x 10	1 x 10	13,000	16.0	

WARNING: Not for overhead lifting.

lever binder features

Dixie Industries' **engineering innovations** make our lever binders the hardest working, most reliable lever binders on the road.

Dixie Binders exceed the **highest manufacturing standards** including CVSA Cargo Securement Guidelines and FMSCA. Binder components are forged and embossed with our name on them.

All our hooks are made of micro alloy steel and are fully articulated allowing straight line pull on both hooks. Short reach hooks allows you to grab one more chain link for tighter take-up. *Dixie Industries introduced both of these innovations to the load securement industry.*

Under heavy loads, traditionally designed lever binders have a tendency to spread at the ears, jamming the clevis mechanism. Dixie's unique tongue design operates 180° from traditional binders avoiding any possibility of spreading or jamming mechanism. **Another Dixie innovation!**



DURABLE, EASY
TO USE AND LOW MAINTENANCE...



WISH EVERYTHING
WAS MADE
LIKE DIXIE MAKES'EM.

Part #	Chain Grade & Size (in.)				Handle Take Up (in.)	Handle Length (in.)	WLL (lbs.)	Weight Each (lbs.)
	G30	G43	G70	G80				
48304	1/4	1/4	---	---	3.75	11.25	2,600	3.0
48305	3/8	3/8	5/16	5/16	4.50	16.12	5,400	8.1
48306	1/2	1/2	3/8	3/8	4.50	16.62	9,200	10.6
48769	3/8	3/8	3/8	3/8	4.50	16.62	7,100	8.1

**Models 48305 and 48306 can be modified to meet Federal Specifications GGG-B-00325C, Type 1.

Poultry Binders and other Specialty products can be found in the latest CM Industrial Catalog and on our web site: cmforge.com and cmindustrial.com

specialty lever binders

Dixi-Loc™ Load Binder



48385

Innovative load security feature allows the binder to be locked in the closed position using a padlock, linch pin, or bolt.

This feature offers two key advantages: a locked binder cannot become unintentionally opened during transport and a locked binder cannot be removed from the chain, thereby protecting the load. **lock not included with binder*

Compression Load Binders



48395† 48758‡

Designed for securing bar and rod steel, lumber, poles and machinery with rubber tires. Compression assembly is capable of exerting a force of 5,000 lbs. Compression unit **cushions shock and sway** as loads are transported. Ball and socket joints offer 360° continuous swivel action on both hooks to allow **straight line pull**.

EZ Grab Load Binders

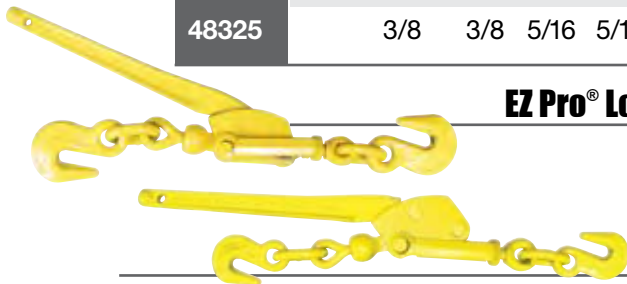


48325

Military style binder designed to use the handle **leverage to remove slack** from the chain before hook-up, achieving **correct tension** on the first try.

Part #	Chain Grade & Size (in.)				Take Up (in.)	Handle Length (in.)	Handle WLL (lbs.)	Weight Each (lbs.)
	G30	G43	G70	G80				
48385	3/8	3/8	5/16	----	4.50	16.62	5,400	8.5
48395	3/8	3/8	5/16	----	4.50	16.62	5,400	14.6
48758	1/2	1/2	3/8	3/8	4.50	16.62	9,200	13.0
48325	3/8	3/8	5/16	5/16	4.50	18.38	5,400	8.75

EZ Pro® Load Binders



Low energy release binder allows you to release the binder without tension energy being transferred and stored in the handle. Due to the unique design, the handle releases the load at the **same point every time - with zero backlash!**

Part #	Chain Grade & Size (in.)				Handle Take Up (in.)	Handle Length (in.)	WLL (lbs.)	Weight Each (lbs.)
	G30	G43	G70	6K				
48405	3/8	3/8	5/16	---	4.75	16.62	5,400	9.0
48406	1/2	1/2	3/8	---	4.75	16.62	9,200	9.8
48409	---	---	---	6K	4.75	16.62	6,000	10.1



heavy hauler accessories

Dixie Industries' Heavy Duty accessories give you **more options** to haul all your loads **safely and securely**. We can *proof load and certify heavy hauler binders and chain assemblies*.



10K Chain Assemblies with Clevis Cradle Grab Hooks

Part #	Grade	Size	WLL (lbs.)	Wt Ea (lbs.)
609573CRV	10K	10K x 20 ft	10,000	36.7
609574CRV	10K	10K x 25 ft	10,000	44.9



G80 Chain Assemblies with Clevlok® Grab Hooks

607037CL20	G80	3/8" x 20'	7,100	31.5
607037CL25	G80	3/8" x 25'	7,100	38.0
607050CL15	G80	1/2" x 15'	12,000	42.0
607050CL20	G80	1/2" x 20'	12,000	55.0



G100 Chain Assemblies with Clevlok® Grab Hooks

607337CL20	G100	3/8" x 20'	8,800	32.0
607337CL25	G100	3/8" x 25'	8,800	38.5



G80 Clevlok® Grab Hooks with Cradle

659225	G80	3/8"	7,100	1.4
659228	G80	1/2"	12,000	2.7

G80 Hammerlok®

664038	G80	3/8"	7,100	0.6
664250	G80	1/2"	12,000	1.7



Heavy Duty Latch Grab Hooks

Spring-loaded grab hook latch - latch makes positive contact with hook neck and rotates out of the way for loading. *Lock & chain not included.*

62275	G70	5/16" Clevis Grab Hook	4,700	.75
62375	G70	3/8" Clevis Grab Hook	6,600	1.10
62276	G80	5/16" Clevis Grab Hook	4,500	.75
7038B	G80	3/8" Clevis Grab Hook	7,100	1.18
8038B	G70	3/8" Heavy Duty Latch Kit	----	----
78516B	G80	3/8" Heavy Duty Latch Kit	----	----
95473G7	G70/G80	5/16" Heavy Duty Latch Kit	----	----
95473G7	G70	5/16"x 20' Chain Assembly	4,700	20.87
95573G7	G70	3/8"x 20' Chain Assembly	6,600	30.36
95576G8	G80	3/8"x 20' Chain Assembly	7,100	30.36

oem products

Visit cmforge.com or cmpatriots.com for more info

Dixie forges parts up to 35 pounds with **state-of-the-art** forging hammers, die forgers, and upsetters in sizes 1" to 3". Modern Induction Heating is used to heat steel on all primary forging units. Carbon, alloy, micro alloyed and stainless steel are purchased only from **reputable mills** that provide material certifications. Our quality system allows traceability of each heat of steel to the finished product.

Secondary machining capabilities allow Dixie to finish many parts **to your specifications**. Our engineering department is experienced in working with customers to design **high quality** and **low cost** customized forgings for many applications.

The long-term relationships Dixie has developed with customers in a variety of industries attest to our **reliability** and **commitment** in meeting customer needs in a timely manner.

THE ENGINEERS AT DIXIE KNOW THEIR STUFF. THEY CAN DESIGN A SOLUTION FOR JUST ABOUT ANY HALLING SITUATION YOU HAVE.

Strap Winch available in removable and fixed handle, with left or right handle



OEM & Military/Government Tie-Down Systems



- Use with cable, chain, fiber synthetics or metal banding.
- Fully articulating
- Weldable retainer eye base
- Complies with MIL-209-J
- Complies with TEA PAM 55-1-19 6th Edition (Transportation Engineering Agency document for rail movements)

SIXTH WHEEL® Landing Gear Ratchet

- Ergonomically correct operation
- Easy retro fit for scheduled maintenance
- Ratcheting action reduces shoulder injury risk



Part #	Description	Part #	Description
34902R08BLK	1 x 8" Round Hole	34902R18BLK	1 x 18" Round Hole
34902S08BLK	1 x 8" Square Hole	34902S18BLK	1 x 18" Square Hole
34902R13BLK	1 x 13" Round Hole	070445	Security Cap
34902S13BLK	1 x 13" Square Hole	070446	Security Pin

Understanding DOT Regulations

for Heavy Cargo Securement



Heavy vehicle and equipment securement applies to vehicles or machines that individually weigh 10,000 lbs. or more. For proper calculation, you must know:

- 1) The weight carrying capability of your vehicle.
- 2) The weight of your cargo load.
- 3) The rated working load limit (WLL) of each securement system to be utilized.

Note: The lowest rated component in the system (chain, hooks, binder) establishes the calculated WLL for that system. Also, chain with the WLL not visible is calculated at the lowest rating, Grade 30.

The DOT Federal Motor Carrier Safety Regulations Handbook state in section 393.108 (b) “The working load limits of tiedowns may be determined by using either the tiedown manufacturer’s markings or by using the tables in this section. The working load limits listed in the tables are to be used when tie down material is not marked by the manufacturer with the working load limit. Tiedown materials which are marked by the manufacturer with working load limits that differ from the tables, shall be considered to have a working load limit equal to the value for which they are marked.”

This is why CM embosses our 6K and 10K EZ Pro Load Securement Systems with the working load limit instead of size and grade. Hooks on the chain assemblies and binders are also marked.

PROPER SECUREMENT REQUIREMENT

- ✓ Cargo must be restrained in all directions (forward, side-to-side, rearward, vertically) using a minimum of four (4) tiedown systems.
- ✓ Tie-downs attached to the cargo must be attached at the front and rear of the vehicle, or at mounting points on the cargo.
- ✓ Accessory equipment (blades, buckets, etc.) must be completely lowered to the deck and secured with a separate system.
- ✓ Articulated vehicles (booms, etc.) must be secured with a separate system that prevents articulation while in transit.
- ✓ Accessories that are not attached must also be properly secured to the deck with a separate system.
- ✓ Any tiedown system used to secure heavy equipment must have a minimum WLL of at least 4,700 lbs. (Canadian minimum WLL is 5,000 lbs.)
- ✓ Tiedowns preventing forward movement must be strong enough to restrain 80% of the cargo’s weight.
- ✓ The calculated aggregate working load limit (WLL) of all systems used to secure cargo against movement during transit must be at least 50% of the weight of the cargo.
- ✓ Direct Attachment (vehicle to cargo) calculates at 50% of the WLL of the tiedown system used.
- ✓ Indirect Attachment (vehicle to cargo to opposite-side vehicle) calculates at 100% of the WLL of the tiedown system used.
- ✓ At least 80% of a transported vehicle’s tire or track must be supported on the transporting vehicle, utilizing deck wideners or extensions for proper support as necessary.

At Columbus McKinnon Corporation, the working load limit (WLL) of each tiedown system component is 25% of that component’s actual breaking strength. All products are manufactured and quality control inspected to these standards. To preserve the integrity of these products, DO NOT exceed the working load limits, rated load, or capacity.*

* except on G43 components

please consider

Dixie respectfully requests you consider the following points when deciding whether to buy a domestic product or an import.

Many imported products do not include the manufacturer's name. As a result, it is very difficult to identify and trace responsibility if a failure or injury occurs. Therefore, the user has little recourse.

According to an article in the June 15, 2005 USA Today, imports that illegally infringe on current domestic copyrights, patents and trademarks, discourage innovation and cost American jobs. Similar articles from July 5, 2005 and March 22, 2004 report that import manufacturers often pay \$1.00 per day or less to employees and have little regard for the environment or the health and safety of their employees.

We at Dixie Industries are confident in our efficiencies and productivity, as well as our ability to be competitive, so long as the competition conforms to the same rules and standards.

terms of sale

Minimum Shipment Requirements:

Orders will be accepted for \$100.00 or more shipped to a place of business.

Shipping Terms: F.O.B. shipping point with freight allowed on single shipment with a net weight of 500 lbs. or greater, to one destination within the continental United States. Carrier and routing will be at the discretion of Columbus McKinnon Corporation. Forgings and chain products may be combined to meet freight requirements.

Payment Terms:

1% 10 days/Net 30 days from date of invoice

Credit Card Purchases:

CM accepts both MasterCard and Visa for payment of invoices. Please discuss with your Customer Service Representative at the time of placing your order. Credit card purchases are at net invoice value and there are no discounts available.

Returned Goods Policy:

- Authorization to return any material to CM for credit must have prior approval from CM Customer Service in Chattanooga, Tennessee. A Return Goods Number (RGN) must be obtained from Customer Service at 1-800-756-6656.
- The material must be returned to the destination specified by CM with the Return Goods Authorization visibly displayed on the outside of the carton, preferably on the shipping label. Unauthorized return of material will be refused and if returned without permission, the customer will be liable for delivery, storage and return freight charges.
- All customers will have the ability to implement an annual return without a restocking charge as long as that return meets the above mentioned time frame of one (1) year, plus an offsetting order that represents or exceeds the dollar amount of like products being returned.
- All material must be returned to CM on a prepaid transportation charge basis. Collect shipments will be refused.
- All return goods accepted for credit are subject to a handling charge to cover the cost of inspection, testing & repackaging. Reconditioning costs, if necessary, will be charged.
- Engineered products specifically designed for unique applications and classified, as standard product cannot be returned for credit.
- The normal restocking charge for all returns is 20% of the value of the returned material plus reconditioning costs, if any. Restocking charges will not apply to the return of standard length of load chain for credit. All requests for authorization to return this material must be submitted within 60 days of shipment date except in the case of load chain.
- RGN authorizations are valid for 90 days. After 90 days, you must reapply for an RGN.

Discrepancies:

Please contact our Customer Service department within five (5) days or receipt of order to verify that a discrepancy has occurred. Claims for obvious freight company shortages should be filed directly with the carrier. Columbus McKinnon ships all orders F.O.B. shipping point. We will be glad to assist you to the extent of our ability.

Prices are subject to change without notice. Price in effect at time of shipment will apply.

! WARNING !

Death/Injury can occur from improper use or maintenance of tie-down equipment.

Load binder systems store energy that can release suddenly.

TO AVOID INJURY:

- Inspect before use. Remove from service if cracked, worn or deformed.
- Do no 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. 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.
- 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.
- Follow instructions, refer to CM Manual CMRP-C1-0907.



Since 1910

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