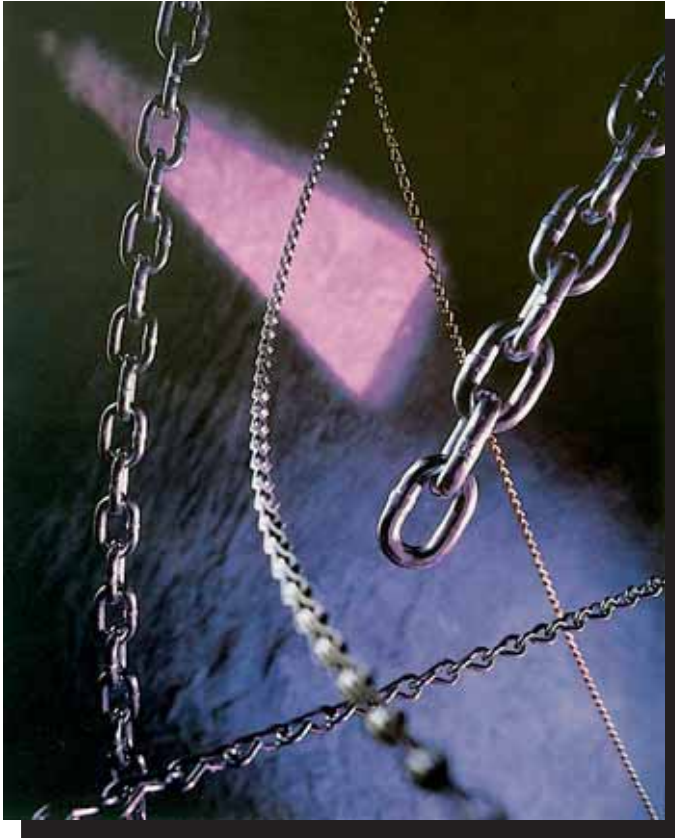




Chains



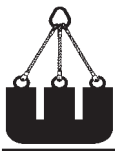
Chains are used extensively throughout the towing industry. The many varied applications require different configurations as well as different chemistries. There are many types and grades of chain available for industrial use. The four most commonly found in the towing industry are:

1. Grade 28 Proof coil
2. Grade 70 Transport
3. Grade 80 Alloy
4. Grade 100 Alloy

The ultimate strength as well as the working load limit for each grade increases respectfully from Grade 28 through grade 100. Federal and many state regulations dictate the proper use and selection of chains. With these regulations in mind, we offer our chain in numerous grades, however our Towing chain assemblies are all grade 70 and our Recovery chain assemblies are all grade 80 and grade 100. Please find below a synopsis of chain grades, properties and the part number for ordering it in bulk.


CHAIN GRADES & PROPERTIES

GRADE	DESCRIPTION	PART #	SIZE	WORKING LOAD LIMIT	WEIGHT PER FOOT
GRADE 28 Proofcoil	A general utility chain used commonly in car towing assemblies. Low carbon steel, zinc plated. Not For Lifting, Hoisting or Recovery Applications.	010.055.032	3/16" x 250' Pail	800 lbs.	0.35 lbs.
		010.070.032	1/4" x 141' Pail	1,250 lbs.	0.63 lbs.
		010.085.032	5/16" x 92' Pail	1,900 lbs.	1.00 lbs.
		010.103.032	3/8" x 63' Pail	2,650 lbs.	1.45 lbs.
GRADE 70 Transport	Boron manganese steel makes this chain exceptionally hard. Used in medium to heavy duty tow assemblies. Yellow dicromate finish. Not For Lifting, Hoisting or Recovery Applications.	017.070.039	1/4" x 133' Pail	3,150 lbs.	0.75 lbs.
		017.070.049	1/4" x 400' Drum	3,150 lbs.	0.75 lbs.
		017.085.039	5/16" x 91' Pail	4,700 lbs.	0.94 lbs.
		017.085.049	5/16" x 275' Drum	4,700 lbs.	0.94 lbs.
		017.103.039	3/8" x 66' Pail	6,600 lbs.	1.45 lbs.
		017.103.049	3/8" x 200' Drum	6,600 lbs.	1.45 lbs.
		017.135.039	1/2" x 50' Pail	11,300 lbs.	2.63 lbs.
GRADE 80 Alloy	Good choice for heavy duty tow assemblies. Self colored. Approved For Lifting, Hoisting & Recovery Applications	Discontinued Replaced By Grade 100 Alloy Found Below	9/32" x Bulk	3,500 lbs.	0.75 lbs.
			5/16" x Bulk	4,500 lbs.	0.96 lbs.
			3/8" x Bulk	7,100 lbs.	1.48 lbs.
			1/2" x Bulk	12,000 lbs.	2.56 lbs.
			5/8" x Bulk	18,100 lbs.	3.93 lbs.
GRADE 100 Alloy	Special alloy steel makes this chain one of the strongest in the industry for heavy duty tow and recovery assemblies. Self colored. Approved For Lifting, Hoisting & Recovery Applications.	273710	1/4" x Bulk	4,300 lbs.	0.75 lbs.
		273729	5/16" x Bulk	5,700 lbs.	1.13 lbs.
		273738	3/8" x Bulk	8,800 lbs.	1.48 lbs.
		273747	1/2" x Bulk	15,000 lbs.	2.49 lbs.
		273756	5/8" x Bulk	22,600 lbs.	3.78 lbs.




Towing Grade 70 Tow Chains

Tow Chains aka Safety Chains are used on both sling trucks and car carriers. They are used to tie down and secure a vehicle once it is hoisted on the sling truck or positioned on the carrier deck. We offer 12 configurations to best suit the individual needs that professional tow truck operators require. All components are forged Grade 70. Fully yellow chromate plated. Individually boxed. Tagged with metal "Working Load Limit" tag.




PART #	SIZE	TYPE	GRADE	W.L.L.	WEIGHT
32036P	5/16" x 10'	15" Forged J hook/Grab and combo T & Mini J hook	70	4,700 lbs.	16.7 lbs.




NEW!

PART #	SIZE	TYPE	GRADE	W.L.L.	WEIGHT
95472G7P	5/16" x 8'	8" Forged J hook/Grab and combo T & Mini J hook	70	4,700 lbs.	14.6 lbs.




NEW!

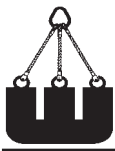
PART #	SIZE	TYPE	GRADE	W.L.L.	WEIGHT
32032	5/16" x 8'	Combo T & Mini J hook & Grab hook/Other end plain	70	4,700 lbs.	7.8 lbs.




PART #	SIZE	TYPE	GRADE	W.L.L.	WEIGHT
32040P	5/16" x 6'	Combo T & Mini J hook / Other end plain	70	4,700 lbs.	7.1 lbs.




PART #	SIZE	TYPE	GRADE	W.L.L.	WEIGHT
40040	5/16" x 10'	Cluster assembly/grab hook	70	4,700 lbs.	15.0 lbs.



Towing Grade 70 Tow Chains



PART #	SIZE	TYPE	GRADE	W.L.L.	WEIGHT
32038	5/16" x 10'	Clevis slip hook with latch w/Other end plain	70	4,700 lbs.	11.4 lbs.



PART#	SIZE	TYPE	GRADE	*W.L.L.	WEIGHT
5265.21510	5/16" x 10'	Clevis grab hook each end	70	4,700 lbs.	11 lbs.
5265.21520	5/16" x 20'	Clevis grab hook each end	70	4,700 lbs.	21 lbs.
5265.21610	3/8" x 10'	Clevis grab hook each end	70	6,600 lbs.	17 lbs.
5265.21620	3/8" x 20'	Clevis grab hook each end	70	6,600 lbs.	34 lbs.
5265.21810	1/2" x 10'	Clevis grab hook each end	70	11,300 lbs.	33 lbs.
12201270	1/2" x 20'	Clevis grab hook each end	70	11,300 lbs.	57 lbs.

*These chains do not have tags.

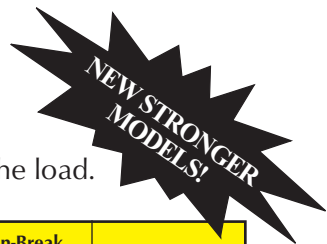
Lever Loadbinder

Forged steel, quenched and tempered. Binder toggles away from the load.

* Fully rated for Grade 70 Transport.

Part #	Min-Max Chain Size (in)	Handle Length (in)	Take-up (in)	Working Load Limit (lbs)	Min-Break Strength (lbs)	Weight (lbs)
DB-1	3/16-1/4	11.75	3 3/4	2,600	7,800	4.0
*4410-00320	5/16 - 3/8	16	4 1/2	6,600	26,400	8.5
48146P	3/8-1/2	18	4 1/2	9,200	36,800	11.5

See page 63 for applications instructions!



Ratchet Type Loadbinder

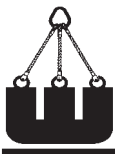
This loadbinder features continuous take-up and infinite adjustment, getting that last half link of chain. Easy operating positive ratchet.

* Fully rated for Grade 70 Transport.

Part #	Min-Max Chain Size (in)	Handle Length (in)	Barrel Length (in)	Take-up (in)	Working Load Limit (lbs)	Min-Break Strength (lbs)	Weight (lbs)
*48404P	5/16 - 3/8	14	10	8	6,600	26,400	11.0
48422P	3/8 - 1/2	15 1/2	10	8	9,200	36,800	12.90
DR-3	1/2 - 5/8	15 1/2	10	8	13,000	52,000	14.38

See page 63 for applications instructions!





Towing Car Carrier V Chains

Grade 70 V Chains - Standard Length

"V" Chains aka Chain Bridles are used in loading rolling vehicles up on to a car carrier deck. We offer 5 configurations to best suit the individual needs that professional tow truck operators require. All components are forged Grade 70. Each assembly has two 24" legs of 5/16" Grade 70 chain with grab hooks at the top for adjustment. Fully yellow chromate plated. Individually boxed. Tagged with metal "Working Load Limit" tag.

PART #	GRADE	SIZE	DESCRIPTION	W.L.L.	WEIGHT
40643P	70	5/16" x 44" OAL	15" Forged J	6,580 @ 45°	15.3 lbs.
40644P	70	5/16" x 38" OAL	8" Forged J w/combo mini J&T	6,580 @ 45°	15.0 lbs.
40645	70	5/16" x 36" OAL	Cluster Assembly	6,580 @ 45°	12.5 lbs.
40646	70	5/16" x 36" OAL	Combo mini J&T hook	6,580 @ 45°	11.0 lbs.
40647P	70	5/16" x 44" OAL	15" Forged J w/combo mini J&T	6,580 @ 45°	17.8 lbs.



40643P



40646



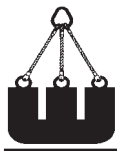
40644P



40647P



40645



Towing Car Carrier V Chains

Grade 70 V Chains - Extra Long Length



These V Chains have all the same characteristics as our Standard V Chains, only they have an extra 12" of chain per leg. Each chain leg has 36" of chain, enabling the operator an extra long reach. Fully yellow chromate plated. Individually boxed. Tagged with metal "Working Load Limit" tag.

PART #	GRADE	SIZE	DESCRIPTION	W.L.L.	WEIGHT
40651P	70	5/16" X 50" OAL	8" Forged J w/combo mini J&T	6,580 @ 45°	16.4 lbs.
40652	70	5/16" x 48" OAL	Cluster Assembly	6,580 @ 45°	14.0 lbs.



40651P



40652

all-grip®







Grade 70 Tie Down Chains are individually boxed for ease of handling, storage and shipping. No more tangled chains in a drum. Each box has a legible label with the printed part number.



Each chain is also tagged with a heavy duty steel tag that is stamped with the chain size, the Grade 70 and the Working Load Limit. Makes State inspections much easier.




Towing Grade 70 Chain & Accessories


SPECIFICATIONS	
	PART# 92855
	Forged J Hook - 15" - G-70
	Working Load Limit - 5,400 lbs.
	Weight - 6.0 lbs.
This drop forged alloy J hook is the strongest on the market today. It meets the working load limit of 5/16 Grade 70 or 3/8 Grade 40 chain.	
	PART# 91255
	Forged J Hook - 8" - G-70
	Working Load Limit - 5,400 lbs.
	Weight - 3.0 lbs.
Same design as its big brother, this 8" sports car hook fits in tight locations.	
	PART# 33223
	J Hook w/ring G-70
	Working Load Limit - 5,400 lbs.
	PART# 33224P
	Sports Car Hook w/combo T & mini "J" hook plus ring
	Working Load Limit - 5,400 lbs.
	PART# 33224
	Sports Car Hook w/ "T" & ring G-70
	Working Load Limit - 5,400 lbs.
	PART# 44200
	3/8" Alloy Grab Link
	Working Load Limit - 6,600 lbs.
Weight - 2.0 lbs.	

SPECIFICATIONS	
	PART# 19705
	R Hook - galv. G-70
	Working Load Limit - 4,700 lbs.
	Weight - .50 lbs.
	PART# 19764
	T Eye Hook - galv. G-70
	Working Load Limit - 4,700 lbs.
	Weight - .75 lbs.
	PART# 92707
	Mini Forged J Hook - galv. G-70
	Working Load Limit - 4,700 lbs.
	Weight - .5 lbs.
	PART# 92265P
	15" J w/Combo T & mini J
	Working Load Limit - 5,400 lbs.
	Weight - 6.2 lbs.

Grade 70 Clevis Grab Hooks

	Part #	Size	W.L.L.	WGT.
	5239-10405	1/4"-5/16"	4,700 lbs.	.75 lbs.
	5239-10600	3/8"	6,600 lbs.	1.25 lbs.
	5239-10800	1/2"	11,300 lbs.	2.9 lbs.

Grade 70 Clevis Slip Hooks


	Part #	Size	W.L.L.	WGT.
	6905AZL	5/16"	4,700 lbs.	1.0 lbs.
	6906AZL	3/8"	6,600 lbs.	1.6 lbs.




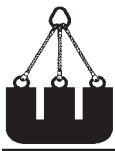
Towing Grade 70 Chain & Accessories

SPECIFICATIONS	
	PART# 2501022
	Combo Forged T and Mini J
	Working Load Limit - 4,700 lbs. Weight - .75 lbs.
	PART# CW1-GMJ
	Cluster w/mini J & 5/16" grab
	Working Load Limit - 4,700 lbs. Weight - 1.6 lbs.
	PART# FE8171-1
	Cluster Hook, R, T & mini J hook
	Working Load Limit - 4,700 lbs. Weight - 2.6 lbs.
	PART# 30040
	Cluster-Grab, R, T, & mini J hook
	Working Load Limit - 4,700 lbs. Weight - 3.3 lbs.
	PART# CW2-GTMJ
	Cluster-Grab, T & mini J hook
	Working Load Limit - 4,700 lbs. Weight - 2.7 lbs.
	PART# 19704 (G43)
	T Grab Hook -5/16" galv. G-43
	Working Load Limit - 3,900 lbs. Weight - .75 lbs.
	PART# 19743 (G43)
	Forged Mini Fairlane Hook
	Working Load Limit - 3,900 lbs. Weight - .75 lbs.

SPECIFICATIONS	
	PART# 2501033
	Combo Mini J&T Hook on Ring
	Working Load Limit - 4,700 lbs. Weight - 1.2 lbs.
	PART# 32903
	5/16" x 30" w/grab hk/link
	Working Load Limit - 4,700 lbs. Weight - 3.5 lbs.
	PART# 30110
	5/16" x 12" w/link/plain end
	Working Load Limit - 4,700 lbs. Weight - 1.7 lbs.
	PART# 1933705 (G70)
	3/8" x 18" w/grab hk/link
	Working Load Limit - 6,600 lbs. Weight - 3.1 lbs.
	PART# 1933704 (G43)
	3/8" Grab hook on link
	Working Load Limit - 5,400 lbs. Weight - 1.5 lbs.

TWIN CLEVIS	PART#	SIZE	W.L.L.	WGT.
	4930-00405	1/4-5/16"	4,700 lbs.	.32 lbs.
	4930-00600	3/8"	6,600 lbs.	.44 lbs.
	4930-00807	7/16-1/2"	11,300 lbs.	1.00 lbs.

WELDABLE GRAB HOOK				
	PART#	SIZE	W.L.L.	WGT.
	90300	5/16"	1,900 lbs.	.40 lbs.
	90304	3/8"	2,650 lbs.	.83 lbs.
	90305	1/2"	4,500 lbs.	1.7 lbs.



Operating Practices Tie Down Chains

TIEDOWN CHAINS

WARNING

- Failure to read, understand and follow these instructions may cause death or serious injury.
- Read and understand these instructions before using tie down chains.
- Determine that the weight of the load is within the working load limit of the tie down chains.
- Never exceed the working load limit of the tie down chains.
- Understand that as angles decrease in tie down chain assembly use, the working load limit is drastically reduced.
- If a tie down chain assembly cannot be identified as to grade, do not use it.
- Do not do makeshift repairs to tie down chains.
- Never use tie down chains for lifting. Refer to grade 80 and grade 100 recovery chains for such applications.
- Inspect the tie down chain, hardware and all attachments before each use.
- Never use any tie down chain, hardware or attachments that are visibly worn or damaged including those that are bent, elongated, stretched, gouged or nicked.
- Attach hooks such that the load is applied to the base or bearing point in a straight line with the eye or clevis.
- Point loading, side loading and back loading of hooks or attachments should never be done.
- Apply tie down chain and attachments in a straight line. Do not apply chain around sharp corners or edges.
- Do not twist or kink tie down chains.
- Do not tie knots in tie down chains.
- Connect towing hardware only to the vehicle manufactures approved connection or anchor points for that vehicle.
- Always stand clear of the vehicle when a load is being applied.
- Always be aware and avoid pinch points.
- Never stand between disabled vehicle and the recovery vehicle.
- Always avoid shock loading, jerking or dropping of the load.

LEVER LOADBINDERS

WARNING

- Failure to use this load binder properly may result in your serious injury or even death.
- Do not operate load binder while standing on the load.
- Hook load binder to chain so you can operate it while standing on the ground. Position load binder so its handle can be pulled downward to tighten chain (see photo). **Be aware of ice, snow, rain, oil, etc. that can affect your footing. Make certain your footing is secure.**
- All-Grip specifically recommends AGAINST the use of a handle extender (cheater pipe). If sufficient leverage cannot be obtained using the lever type load binder by itself, a ratchet type binder should be used.
- If the above recommendation is disregarded and a cheater pipe is used, it must closely fit the handle and must slide down the handle until the handle projections are contacted. The pipe should be secured to the handle, for example, by a pin, so that the pipe cannot fly off the handle if you loose control and let go. The increased leverage, by using a cheater pipe, can cause deformation and failure of the chain and load binder.
- During and after tightening chain, check load binder handle position. Be sure it is in the locked position and that its bottom side touches the chain link.
- Chain tension may decrease due to load shifting during transport. To be sure the load binder remains in proper position: Secure handle to chain by wrapping the loose end of chain around the handle and the tight chain, or tie handle to chain with soft wire.
- While under tension, load binder must not bear against an object.
- When releasing load binder, remember there is a great deal of energy in the stretched chain. This will cause the load binder handle to move very quickly with great force when it is unlatched. **Move handle with caution. It may whip - Keep Body Clear.**
- **Never use a cheater pipe or handle extender to release handle.** Use a steel bar and pry under the handle and **stay out of the path of handle** as it moves upward.
- If you release the handle by hand, use an open hand under the handle and push upward. **Do not close your hand around the handle. Always keep yourself out of the path of the moving handle.**
- **Always consider the safety of nearby workers as well as yourself when using load binder.**
- **You must be familiar with state and federal regulations regarding size and number of chain systems required for securing loads on trucks.**

