

Recovery Grade 100 Chain



the **Crosby**™ group

These Grade 100 chain slings are certified for recovery and over head lifting. Grade 100 chain provide the strength and ductility the towing professional requires. The chains have a cradle grab hook at each end. Each chain is proof tested, tagged with a heavy steel tag and supplied with a certificate of test.

PART#	SIZE	LENGTH	WORKING LOAD LIMIT	WEIGHT
SGG0606	3/8"	6'	8,800 lbs.	12.5 lbs.
SGG0608	3/8"	8'	8,800 lbs.	15.5 lbs.
SGG0610	3/8"	10'	8,800 lbs.	18.5 lbs.
SGG0616	3/8"	16'	8,800 lbs.	27.3 lbs.
SGG0620	3/8"	20'	8,800 lbs.	33.3 lbs.
SGG0806	1/2"	6'	15,000 lbs.	22.8 lbs.
SGG0808	1/2"	8'	15,000 lbs.	27.8 lbs.
SGG0810	1/2"	10'	15,000 lbs.	32.7 lbs.
SGG0816	1/2"	16'	15,000 lbs.	47.6 lbs.
SGG0820	1/2"	20'	15,000 lbs.	57.6 lbs.
SGG1006	5/8"	6'	22,600 lbs.	36.7 lbs.
SGG1008	5/8"	8'	22,600 lbs.	44.2 lbs.
SGG1010	5/8"	10'	22,600 lbs.	51.8 lbs.
SGG1016	5/8"	16'	22,600 lbs.	77.5 lbs.
SGG1020	5/8"	20'	22,600 lbs.	89.6 lbs.



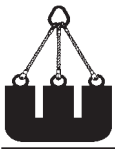
Heavy Recovery Chain Kit

Part# CKHR
A versatile chain kit consisting of common chains used in heavy duty towing and recovery. All chains have grab hooks at each end. The Grade 100 chains are tagged and certified. 14 piece kit. Total weight is 340 lbs.



Note: Use only the grade 100 for lifting.

CONTENTS	SIZE	DESCRIPTION	WORKING LOAD LIMIT
2 ea.	5/16" x 10'	Grade 70 tiedown chain	4,700 lbs.
2 ea.	5/16" x 20'	Grade 70 tiedown chain	4,700 lbs.
2 ea.	3/8" x 10'	Grade 70 tiedown chain	6,600 lbs.
2 ea.	3/8" x 20'	Grade 70 tiedown chain	6,600 lbs.
2 ea.	5/16" x 3/8"	Lever loadbinder	6,600 lbs.
2 ea.	1/2" x 10'	Grade 100 certified lifting chains	12,000 lbs.
2 ea.	1/2" x 20'	Grade 100 certified lifting chains	12,000 lbs.



Recovery Grade 100 Chain

ELIMINATOR™ RECOVERY SLINGS

The SINGLE LEG “Eliminator” combines features of a master link, connecting link, grab hook and adjuster leg providing you with one fitting for adjusting chain slings.

by **Crosby™** and **all-grip®**

How is one sling many slings? With the new “Eliminator”... that’s how. The new grade 100 “Eliminator” makes chain length adjustment fast and easy during your recovery work.



SINGLE LEG ELIMINATOR					
PART#	SIZE	LENGTH		WORKING LOAD LIMIT @ 90°	WEIGHT
		MAX	MIN		
ESOS0610	3/8"	10'	2'	8,800 lbs.	22.1 lbs.
ESOS0620	3/8"	20'	2'	8,800 lbs.	36.8 lbs.
ESOS0810	1/2"	10'	2'	15,000 lbs.	40 lbs.
ESOS0820	1/2"	20'	2'	15,000 lbs.	64.8 lbs.
ESOS1010	5/8"	10'	3'	22,600 lbs.	64.3 lbs.
ESOS1020	5/8"	20'	3'	22,600 lbs.	102.1 lbs.

Metal Working Load Limit Tagged.

The DOUBLE LEG “Eliminator” offers the same features as the single, only it is designed for two legs of chain. This two leg design allows for adjustment of unequal loads and leg lengths.

DOUBLE LEG ELIMINATOR					
PART#	SIZE	LENGTH		WORKING LOAD LIMIT @ 45°	WEIGHT
		MAX	MIN		
EDOS0610	3/8"	10'	2'	12,400 lbs.	24.2 lbs.
EDOS0620	3/8"	20'	2'	12,400 lbs.	39 lbs.
EDOS0810	1/2"	10'	2'	21,200 lbs.	45.5 lbs.
EDOS0820	1/2"	20'	2'	21,200 lbs.	70.4 lbs.
EDOS1010	5/8"	10'	3'	32,000 lbs.	74.5 lbs.
EDOS1020	5/8"	20'	3'	32,000 lbs.	112.3 lbs.

Metal Working Load Limit Tagged.

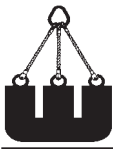
ADDITIONAL HEAVY RECOVERY CHAINS



These popular heavy recovery chains are just the ticket for close in work. The assembly with the grab hook allows for the use and adjustability of additional slings. Metal Working Load Limit Tagged.



PART#	SIZE	WORKING LOAD LIMIT	WEIGHT
SOF08ADJ	1/2"	15,000 lbs.	16 lbs.
SOF10ADJ	5/8"	22,600 lbs.	23 lbs.
SOF0802	1/2" x 2'	15,000 lbs.	21 lbs.
SOF1002	5/8" x 2'	22,600 lbs.	24 lbs.










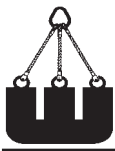
Recovery ————— Grade 100 Chain



Grade 100 Components - Grade 100 chain and fittings are quickly becoming the standard for heavy recovery and overhead lifting. These fittings offer you the quality and reliability that Crosby is known for.

	SPECIFICATIONS			
	PART#	SIZE	WORKING LOAD LIMIT	WEIGHT
GRADE 100 ALLOY CHAIN				
	273710	1/4"	4,300 lbs.	.75 lbs.
	273729	5/16"	5,700 lbs.	1.13 lbs.
	273738	3/8"	8,800 lbs.	1.48 lbs.
	273747	1/2"	15,000 lbs.	2.49 lbs.
	273756	5/8"	22,600 lbs.	3.78 lbs.
GRADE 100 SINGLE ELIMINATOR				
	49797	1/4"	4,300 lbs.	3.9 lbs.
	49804	5/16"	5,700 lbs.	3.9 lbs.
	49813	3/8"	8,800 lbs.	6.5 lbs.
	49822	1/2"	15,000 lbs.	13.5 lbs.
	49831	5/8"	22,600 lbs.	24.1 lbs.
GRADE 100 DOUBLE ELIMINATOR				
	49859	1/4"	8,600 lbs.	4.7 lbs.
	49868	5/16"	11,400 lbs.	4.7 lbs.
	49877	3/8"	17,600 lbs.	8.1 lbs.
	49886	1/2"	30,000 lbs.	17.3 lbs.
	49895	5/8"	45,200 lbs.	31.5 lbs.
GRADE 100 MASTER LINK				
	14266	1/4" ^{††}	7,400 lbs.	1.1 lbs.
	14266	5/16" ^{††}	7,400 lbs.	1.7 lbs.
	14285	3/8" ^{††}	12,300 lbs.	2.5 lbs.
	14319	1/2" ^{††}	15,200 lbs.	6.2 lbs.
	14331	5/8" ^{††}	26,000 lbs.	10.6 lbs.
GRADE 100 3-4 LEG MASTER LINK				
	11510	1/4" ^{††}	9,600 lbs.	2.9 lbs.
	11510	5/16" ^{††}	17,100 lbs.	4.2 lbs.
	11529	3/8" ^{††}	26,400 lbs.	9.6 lbs.
	11538	1/2" ^{††}	45,000 lbs.	19.3 lbs.
	11547	5/8" ^{††}	67,800 lbs.	31.4 lbs.
GRADE 100 COUPLING LINK				
	15104	1/4"	4,300 lbs.	.28 lbs.
	15113	5/16"	5,700 lbs.	.33 lbs.
	15122	3/8"	8,800 lbs.	.73 lbs.
	15136	1/2"	15,000 lbs.	1.67 lbs.
	15145	5/8"	22,600 lbs.	2.86 lbs.

	SPECIFICATIONS			
	PART#	SIZE	WORKING LOAD LIMIT	WEIGHT
GRADE 100 CLEVIS CRADLE GRAB				
	49417	1/4"	4,300 lbs.	1.1 lbs.
	49426	5/16"	5,700 lbs.	1.1 lbs.
	49435	3/8"	8,800 lbs.	1.8 lbs.
	49444	1/2"	15,000 lbs.	3.7 lbs.
	49453	5/8"	22,600 lbs.	6.7 lbs.
GRADE 100 CLEVIS SLING HOOK				
	48991	1/4"	4,300 lbs.	1.6 lbs.
	49000	5/16"	5,700 lbs.	1.6 lbs.
	49009	3/8"	8,800 lbs.	2.5 lbs.
	49018	1/2"	15,000 lbs.	5.5 lbs.
	49027	5/8"	22,600 lbs.	9.6 lbs.
GRADE 100 LATCHES FOR SLING HOOK				
	96468	1/4"	N/A	.06 lbs.
	96468	5/16"	N/A	.06 lbs.
	96515	3/8"	N/A	.10 lbs.
	96562	1/2"	N/A	.15 lbs.
	96609	5/8"	N/A	.28 lbs.
GRADE 100 CLEVIS SELF LOCKING HOOK				
	29000	1/4"	4,300 lbs.	1.8 lbs.
	29009	5/16"	5,700 lbs.	1.8 lbs.
	29018	3/8"	8,800 lbs.	3.2 lbs.
	29027	1/2"	15,000 lbs.	6.8 lbs.
	29036	5/8"	22,600 lbs.	11.9 lbs.
GRADE 100 CLEVIS FOUNDRY HOOK				
	49907	1/4"	4,300 lbs.	2.0 lbs.
	49911	5/16"	5,700 lbs.	2.1 lbs.
	49916	3/8"	8,800 lbs.	4.3 lbs.
	49925	1/2"	15,000 lbs.	7.5 lbs.
	49934	5/8"	22,600 lbs.	13.4 lbs.
GRADE 100 CLEVIS LOCKING CRADLE GRAB				
	49480	1/4"	4,300 lbs.	.45 lbs.
	49489	5/16"	5,700 lbs.	.99 lbs.
	49498	3/8"	8,800 lbs.	1.8 lbs.
	49507	1/2"	15,000 lbs.	3.9 lbs.
	49516	5/8"	22,600 lbs.	7.0 lbs.



Recovery ————— Grade 80 Chain

Self Locking Hooks

These hooks are grade 80 forged alloy steel and have a positive lock latch which is self-locking when loaded. They can be used on alloy chain as well as wire rope winch lines. The swivel model uses a bronze bushing for ease of rotation.

	PART#	WORKING LOAD LIMIT	CHAIN G80	TYPE	WEIGHT
	3020AS	4,500 lbs.	5/16"	Swivel	2.4 lbs.
	3032AS	7,100 lbs.	3/8"	Swivel	4.2 lbs.
	3054AS	12,000 lbs.	1/2"	Swivel	8.4 lbs.
	3080AS	18,100 lbs.	5/8"	Swivel	15.6 lbs.
	4020AS	4,500 lbs.	5/16"	Eye	1.7 lbs.
	4032AS	7,100 lbs.	3/8"	Eye	3.3 lbs.
	4054AS	12,000 lbs.	1/2"	Eye	6.2 lbs.
	4080AS	18,100 lbs.	5/8"	Eye	12.3 lbs.
	CSLH08	4,500 lbs.	5/16"	Clevis	2.0 lbs.
	CSLH10	7,100 lbs.	3/8"	Clevis	3.7 lbs.
	CSLH13	12,000 lbs.	1/2"	Clevis	7.3 lbs.
	CSLH16	18,100 lbs.	5/8"	Clevis	13.2 lbs.

See page 23 for grade 100 components.

Coupling Links



These coupling links are grade 80 and approved for lifting but priced right for using to connect different components to grade 70 chain assemblies or to create clusters.

PART#	SIZE	WORKING LOAD LIMIT	WEIGHT
WA.60P	1/4"	3,500 lbs.	.35 lbs.
WA.59P	5/16"	4,500 lbs.	.48 lbs.



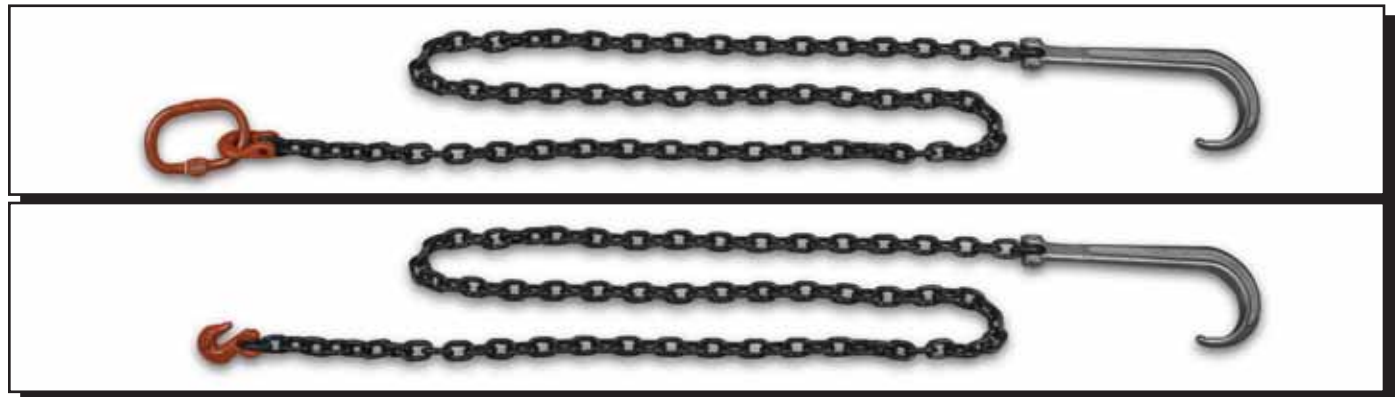
Clevis Grab Hooks with Cotter Key

Grade 80 Clevis style grab hooks are forged steel with quick and easy pin and cotter key assembly.

PART#	SIZE	WORKING LOAD LIMIT	WEIGHT
27267	5/16"	4,700 lbs.	.62 lbs.
27285	3/8"	7,100 lbs.	1.0 lbs.
27329	1/2"	12,000 lbs.	2.2 lbs.

See page 23 for grade 100 components.

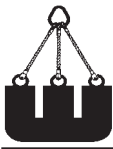
Alloy Safety & Recovery Chains



PART #	SIZE	TYPE	GRADE	W.L.L.	WEIGHT
97901G8	3/8" x 10'	15" Clevlok™ J & master	80	7,100 lbs.	27.0 lbs.
97902G8	3/8" x 10'	15" Clevlok™ J with cradle grab hook	80	7,100 lbs.	23.5 lbs.

★ RATED FOR RECOVERY ★ RATED FOR RECOVERY ★ RATED FOR RECOVERY ★ RATED FOR RECOVERY ★

See page 8 for definition of Working Load Limit (W.L.L.)



Operating Practices ■ Recovery Chains

ALLOY CHAIN PROPERTIES

Federal regulations require the use of Alloy Chain for lifting and hoisting applications. We offer a full line of Grade 100 and limited items in Grade 80 chain which is produced from heat treatable alloy steel in conformance with ASTM specifications. Its typical mechanical properties provide for a tensile strength of 125,000 psi minimum and a minimum elongation of 20%. Strength and hardness of the alloy chain material are important factors, but are not the only criteria for selection. Acceptable alloy chain material also must have toughness, must be resistant to shock loading, and must possess sufficient ductility to provide ample visual evidence of damage caused by excessive over loading.

*** Your state may or may not have specific regulations limiting the use of certain grades of chain. Contact your D.O.T. or State Towing Regulation Board.**

INSPECTION

1. Schedule periodic link-by-link inspection of chain, based on frequency of chain use, severity of service conditions, experience gained on service life of chain used in similar circumstances.
2. Clean chain prior to inspections, to make damage or defects more easily seen.
3. Hang chain vertically, if practical, for preliminary inspection.
4. Inspect link by link, where the following should be looked for:
 - A. Bent, gouged, nicked, worn or elongated links.
 - B. Cracks, scoring or marking tending to weaken links. Transverse markings are the most dangerous.
 - C. Severe corrosion.
 - D. Excessive wear - chains with links having wear exceeding that shown in Table of Wear should be removed from service. (see figure 1)
5. Check master links and hooks for all of the above faults- hooks especially for excessive throat opening.

REMOVAL CRITERIA ALLOY CHAIN

SLINGS:

An alloy steel chain sling shall be removed from service if conditions such as the following are present:

- (1) missing or illegible sling tag
- (2) cracks or breaks
- (3) excessive wear, nicks or gouges. Minimum thickness on chain links shall not be below the values listed in Figure One found on page 20
- (4) stretched chain links or components
- (5) bent, twisted or deformed chain links or components
- (6) evidence of heat damage
- (7) excessive pitting or corrosion
- (8) lack of ability of chain or components to hinge (articulate) freely
- (9) weld splatter

Additional data for end fittings such as hooks and shackles Can be found on page 25 and 26

TABLE OF WEAR

Specifications - Inches

Size of Chain Inches	Minimum Safe Dimensions at Worn Part of Link C Inches
1/4	13/64
3/8	5/16
1/2	7/16
5/8	9/16
3/4	23/32
7/8	25/32
1	29/32
1 1/4	1 1/8

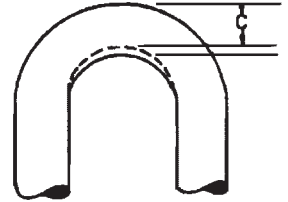


Figure 1



WARNING

- Failure to read, understand, and follow these instructions may cause death or serious injury.
- Read and understand these instructions before using chain.
- Determine that the weight of the load is within the working load limit of the chain.
- Select a chain having suitable characteristics for the type of load and environment.
- Chains shall not be shortened or lengthened by knotting or other unapproved methods.
- Damaged chains shall not be used.
- Chains shall be applied in a manner providing control over the load.
- Protect chain with corner protectors when engaging sharp edged loads.
- Protect chain against corrosion.
- Winch loads smoothly - do not jerk.
- Chains shall not be pulled from under a load when a load is resting on the chain.
- Chains should be stored in an area where they will not be subjected to mechanical damage.
- Twisting of chains shall be avoided.
- Inspect chains for damage before each use.
- Anchorages shall have design strengths not less than those which are required of the chains attached to them.
- Do not point load chain hooks.
- If a chain is not marked with its grade or working load limit, consider it the weaker grade 28 proof coil and do not use for recovery or lifting.
- Use only Grade 80 Alloy or Grade 100 Alloy for hoisting or lifting applications.
- Connect the towing hardware only to the vehicle Manufacturers approved connection points on the vehicle towed.
- Do not stand between disabled vehicle and recovery vehicle.