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Chain Slings

CM GRADE 80 – HERC-ALLOY 800–WELDED – OVERHEAD LIFTING CHAIN AND CHAIN SLINGS

Herc-Alloy 800 Chain Slings

A higher strength heat treated alloy steel chain, CM grade 80 Herc-Alloy 800 chain is primarily used as a sling component for overhead lifting, but can be used in rigging and tie down applications where a lighter weight high strength chain is desirable. Recommended for overhead lifting by NACM, ANSI, & OSHA.

CM grade 80 Herc-Alloy 800 chain slings and attachments are manufactured from special analysis alloy steel, engineered for a superior combination of strength, lightness and durability.

All Herc-Alloy 800 chain and attachments are black finish and/or color coded orange for easy, permanent identification. The chain is embossed with the grade (HA-800) and trace code.

Before shipment, all CM Herc-Alloy 800 chain slings undergo a succession of demanding quality control checks. Every sling is proof tested, registered and guaranteed for one year to be free from defects in materials and workmanship. A durable metal tag attached to the sling permanently identifies the grade, type, working load limit (at a specific angle of lift) and registration number of the sling.

Chain slings are used primarily for overhead lifting and are generally used in conjunction with a crane or some type of lifting device. Standard sling configurations consist of chain branches which are affixed on one end to a master link or ring with some type of attachment, usually a hook, affixed to the opposite end.

Types of Chain Slings

In describing the type, the following symbols should be used. If attachments are other than standard, give detailed specifications.

First symbol (basic type):

- S - Single chain sling.
- C - Single choker chain sling with a standard end link on each end, no hooks.
- D - Double branch chain sling.
- T - Triple branch chain sling.
- Q - Quadruple branch chain sling.

Second symbol (type of master link or end link):

- O - Oblong master link of standard dimensions.
- P - Pear shaped master link (available on request, not a standard item).

Third symbol (type of hook):

- S - Sling hook
- F - Foundry hook
- G - Grab hook
- L - Latchlok

Sling tags are coded with numerals 1 through 4 to reflect number of branches in sling. Additional coding is defined as follows:

- AS - Adjustable single
- SB - Single basket
- ES - Endless single
- ED - Endless double
- SAL - Single adjustable loop
- DAL - Double adjustable
- AD - Adjustable double loop
- DB - Double basket

How to Select and Order the Proper Chain Sling

- Determine the weight and configuration of the load(s) to be lifted.
- Determine the type of chain sling required, according to weight and configuration.
- Determine the size of the body chain according to the working load limits. Be sure to take into consideration the effect of the required angle.

*Working load limit: The working load limit is the maximum load in pounds which should ever be applied to chain, even when chain is new, and when load is uniformly applied in direct tension to a straight length of chain.

- Determine the reach required to give the desired angle. The reach is measured from the upper bearing surface of the master link to the bearing surface of the lower attachment. If chain slings are to be used in pairs and are to be matched for reach, please indicate when ordering.

- Be sure to specify type, size and reach when ordering chain slings. For specifications on additional hooks, attachments and accessories.

- Product UPC code represents the last five digits of the complete UPC code. Each product UPC code must be preceded by CM Identification No. 43927 in order to obtain complete UPC code number. Example: 43927-00000.



Herc-Alloy Chain Sizes and Working Load Limits

Chain Size	Nominal Dim. (in)		Approx. Wt. Links per ft.	Approx. per 100 ft. (lbs.)	Foot		Drum Feet		per drum
	(in)	(mm)			Product code	UPC 43927-	Product code	UPC 43927-	
7/32	5.5	.671	.296	17.9	607020	20038	677010	20040	800
9/32	7.0	.868	.395	13.8	607028	20246	677011	20254	500
5/16	8.0	1.05	.454	11.4	607031	20551	—	—	—
3/8	10.0	1.222	.572	9.8	607037	20717	677013	20725	500
1/2	13.0	1.404	.720	8.5	607050	21038	677015	21045	300
5/8	16.0	1.733	.854	6.9	607062	21271	677016	21279	200
3/4	20.0	2.160	1.052	5.5	607075	21437	677017	21441	100
7/8	22.0	2.250	1.137	5.3	607087	21551	677018	21554	100
1	26.0	2.664	1.348	4.5	607101	21626	677019	21630	100
1-1/4	32.0	3.250	1.656	3.7	607128	21692	677070	21695	90

Chain size	Working load limits (lbs.)						
	90°	60°	45°	30°	60°	45°	30°
7/32	2,100	3,600	3,000	2,100	5,450	4,450	3,150
9/32	3,500	6,100	4,900	3,500	9,100	7,400	5,200
5/16	4,500	7,800	6,300	4,500	11,700	9,450	6,750
3/8	7,100	12,300	10,000	7,100	18,400	15,100	10,600
1/2	12,000	20,800	17,000	12,000	31,200	25,500	18,000
5/8	18,100	31,300	25,600	18,100	47,000	38,400	27,100
3/4	28,300	49,000	40,000	28,300	73,500	60,000	42,400
7/8	34,200	59,200	48,400	34,200	88,900	72,500	51,300
1	47,700	82,600	67,400	47,700	123,900	101,200	71,500
1-1/4	72,300	125,200	102,200	72,300	187,800	153,400	108,400

Chain size	(in)	(mm)	Double				Triple & Quad		
			90°	60°	45°	30°	60°	45°	30°
7/32	5.5	2,100	3,600	3,000	2,100	5,450	4,450	3,150	
9/32	7.0	3,500	6,100	4,900	3,500	9,100	7,400	5,200	
5/16	8.0	4,500	7,800	6,300	4,500	11,700	9,450	6,750	
3/8	10.0	7,100	12,300	10,000	7,100	18,400	15,100	10,600	
1/2	13.0	12,000	20,800	17,000	12,000	31,200	25,500	18,000	
5/8	16.0	18,100	31,300	25,600	18,100	47,000	38,400	27,100	
3/4	20.0	28,300	49,000	40,000	28,300	73,500	60,000	42,400	
7/8	22.0	34,200	59,200	48,400	34,200	88,900	72,500	51,300	
1	26.0	47,700	82,600	67,400	47,700	123,900	101,200	71,500	
1-1/4	32.0	72,300	125,200	102,200	72,300	187,800	153,400	108,400	

Herc-Alloy 800 Chain and Attachments Conversion Table

Chain Size	Hook Size Designation and Markings						
	Fraction (in)	Decimal (in)	Metric (mm)	Sling	Grab	Foundry	Latchlok
7/32	.218	5.5	HA22	10M	—	—	—
9/32	.281	7.0	HA220	HA1	HA498	9/32	—
3/8	.394	10.0	HA250	HA3	HA499	3/8	—
1/2	.512	13.0	HA280	HA5	HA500	1/2	—
5/8	.630	16.0	HA290	HA6	HA501	5/8	—
3/4	.787	20.0	HA300	HA7	HA502	3/4	—
7/8	.875	22.0	HA320	HA8	HA503	—	—
1	1.024	26.0	HA330	HA9	HA504	—	—
1-1/4	1.260	32.0	HA350	HA11	HA505	—	—

Care, Use and Inspection

The life and strength of CM Herc-Alloy 800 chain slings depend on proper inspection, maintenance and use. For additional information, refer to ANSI B30.9 and OSHA 1910.184.

Care

Chain requires careful storage and regular maintenance.

- Store chains on an A frame in a clean, dry place.
- To avoid corrosion, oil chains before prolonged storage.
- Do not heat CM Herc-Alloy 800 chain; this will alter its thermal treatment.
- Do not plate or change surface finish of chain. Contact CM for special requirements.

Use

To protect both operators and materials, observe these precautions when using chain slings:

- Before use, inspect chain and attachments following the instructions under "Inspection" on the following page.
- Do not exceed working load limit. Any of the factors listed here can reduce the load the chain will hold:
 - Acceleration in rate of load application—can produce dangerous overloading.
 - Variation in the angle of the load to the sling—as the angle decreases, the working load of the sling will increase.
 - Twisting, knotting or kinking—subjects links to unusual loading, decreasing the working load of the sling.
 - Use for purposes other than those for which slings are intended—can reduce the working load of the sling.

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Chains & Chain Slings

Chain Slings

CM GRADE 80 – HERC-ALLOY 800–WELDED – OVERHEAD LIFTING CHAIN AND CHAIN SLINGS

Care, Use and Inspection (continued)

- Free chain of all twists, knots and kinks.
- Center load in hook(s); hook latches must not support load.
- Avoid sudden jerks when lifting and lowering.
- Balance all loads; avoid tipping of loads.
- Use pads around sharp corners.
- Do not drop load on chains.
- Match the size and working load limit of attachments such as hooks or rings to the size and working load limit of the chain.
- For overhead lifting, use only alloy chain and attachments (grade 80).

Inspection

It is important both to inspect chain slings regularly and to keep a record of all chain inspections. Follow this guide for such an inspection system.

- Before inspecting, clean chains with a non-acid/non-caustic solvent so that marks, nicks, wear and other defects are visible.
- Inspect each link for these conditions:
 - Twists or bends.
 - Nicks or gouges.
 - Excessive wear at bearing points.
 - Stretch.
 - Distorted or damaged master links, coupling links or attachments, especially spread in throat opening of hooks.
- Mark plainly with paint each link or attachment showing any of the conditions listed here to indicate rejection; remove from service until properly repaired.

Wear allowances of CM Herc-Alloy 800 chain

Measure cross section at link ends to determine wear. If chain is worn to less than the minimum allowable thickness, remove from service.

Chain Size (in)	Minimum Allowable Thickness (T)	
	(mm)	(in)
7/32	5.5	0.185
9/32	7.0	0.239
3/8	10.0	0.335
1/2	13.0	0.435
5/8	16.0	0.536
3/4	20.0	0.669
7/8	22.0	0.744
1	26.0	0.870
1-1/4	32.0	1.071



Note: For sizes not listed, the Minimum Allowable Thickness can be calculated as 85% of the original material diameter.

CM Chain Inspection Programs

CM provides chain users with a wide range of informative materials and instructive programs on chain and chain inspection. Our colorful chain safety poster/chart and our fact-filled booklet, "CM Lifting, Pulling & Binding Products Manual PMC-10," are available on request.

CM Chain seminars on proper chain use, care and inspection are conducted at our headquarters in Amherst, New York, and in plants across the country. Video cassette training programs, slide and film presentations and in-plant chain sling inspections are also available.

CM education programs are designed to promote the proper use of all CM products, and to assist users in complying with OSHA regulations.

Use of Chain Under Extreme Temperature Conditions

When the chain itself is subjected to temperatures shown here, working load limits should be reduced as indicated.

Temperature of Chain (°F)	WLL while at Temperature ¹	Permanent Reduction in WLL ²
< -40	not recommended	none
-40 to 400	100%	none
>400 to 600	0.9	none
>600 to 750	75%	10%
>750	not recommended	Contact CM rep.

- 1 While chain is at temperature shown in first column.
- 2 When chain is used at room temperature after having been subjected to temperatures shown in first column.

Certificate of test and identification

The identification tag found on the master coupling link of each chain sling contains this information:

- Grade
- Size
- Reach
- Type
- Serial number
- Working load limit (at a specific angle of lift)

WARNING: Do not exceed working load limit.

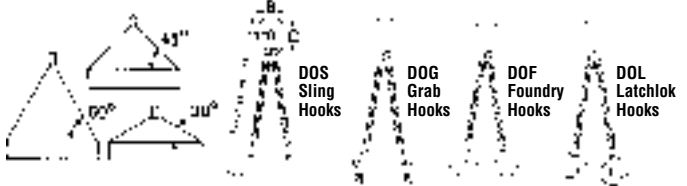
Use only alloy chain and attachments for overhead lifting.

Single Chain Sling Type S & C



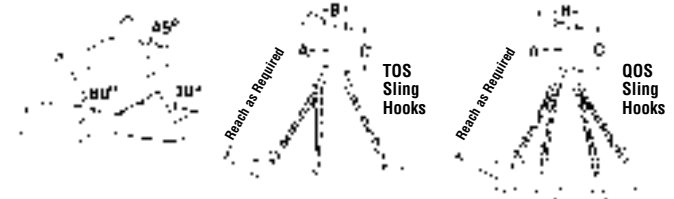
Chain Size (in)	WLL (lbs)	Master Link No.	Oblong Master Link Dimensions (in)			Approx. Wt. (lbs) Type SOS 5 ft. reach	
			Dia. Material A	Inside Width B	Inside Length C		
7/32	5.5	2,100	HA40	13/32	1-1/2	3	4
9/32	7	3,500	HA50	1/2	2-1/2	5	5
3/8	10	7,100	HA75	3/4	2-3/4	5-1/2	10
1/2	13	12,000	HA100	1	3-1/2	7	18
5/8	16	18,100	HA100	1	3-1/2	7	25
3/4	20	28,300	HA125	1-1/4	4-3/8	8-3/4	38
7/8	22	34,200	HA150	1-1/2	5-1/4	10-1/2	54
1	26	47,700	HA175	1-3/4	6	12	76
1-1/4	32	72,300	HA200	2	7	14	116

Double Chain Sling Type D



Chain Size (in)	WLL (lbs)	Master Link No.	Oblong Master Link Dimensions (in)			Approx. Wt. (lbs.) Type DOS 5' reach	
			Dia. Material A	Inside Width B	Inside Length C		
7/32	5.5	3,600	HA40	13/32	1-1/2	3	8
9/32	7	6,100	HA50	1/2	2-1/2	5	9
3/8	10	12,300	HA75	3/4	2-3/4	5-1/2	18
1/2	13	20,800	HA100	1	3-1/2	7	31
5/8	16	31,300	HA125	1-1/4	4-3/8	8-3/4	49
3/4	20	49,000	HA150	1-1/2	5-1/4	10-1/2	71
7/8	22	59,200	HA175	1-3/4	6	12	98
1	26	82,600	HA200	2	7	14	132
1-1/4	32	125,200	HA225	2-1/4	8	16	221

Triple & Quad Chain Sling Type T & Q



Chain Size (in)	WLL (lbs)*	Master Link Sub-Assembly No.	Oblong Master Link Sub-Assembly Dimensions (in)			Approx. Wt. (lbs)		
			Dia. Material A	Inside Width B	Inside Length C	Type TOS 5' Reach	Type QOS 5' Reach	
7/32	5.5	5,450	HA50-SA	1/2	2-1/2	5	12	16
9/32	7	9,100	HA75-SA	3/4	2-3/4	5-1/2	14	18
3/8	10	18,400	HA100-SA	1	3-1/2	7	28	36
1/2	13	31,200	HA125-SA	1-1/4	4-3/8	8-3/4	50	62
5/8	16	47,000	HA150-SA	1-1/2	5-1/4	10-1/2	79	97
3/4	20	73,500	HA175-SA	1-3/4	6	12	112	137
7/8	22	88,900	HA200-SA	2	7	14	155	188
1	26	123,900	HA225-SA	2-1/4	8	16	215	260
1-1/4	32	187,800	HA275-SA	2-3/4	9	16	348	421

Safety note: A quad branch chain sling usually does not sustain loads with even distribution to its four branches, especially when loads are of rigid structure. Therefore, maximum working load limits are set at the same values as for triple branch chain slings of equal quality and size and used with branches at the same angle of inclination.

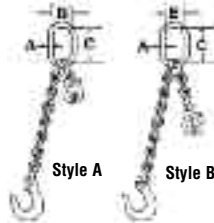
Chain Slings

CM GRADE 80 – HERC-ALLOY 800–WELDED – OVERHEAD LIFTING CHAIN AND CHAIN SLINGS

Adjustable Single Chain Sling

Style B single & double adjustable slings are furnished with approximately one (1) foot of chain in short branches unless otherwise specified in the order.

Chain Size (in) (mm)	WLL (lbs)	Oblong Master Link				
		Link No.	Dimensions (in)			
			Dia. Material A	Inside Width B	Inside Length C	
7/32	5.5	2,100	HA40	13/32	1-1/2	3
9/32	7	3,500	HA50	1/2	2-1/2	5
3/8	10	7,100	HA75	3/4	2-3/4	5-1/2
1/2	13	12,000	HA100	1	3-1/2	7
5/8	16	18,100	HA100	1	3-1/2	7
3/4	20	28,300	HA125	1-1/4	4-3/8	8-3/4
7/8	22	34,200	HA150	1-1/2	5-1/4	10-1/2
1	26	47,700	HA175	1-3/4	6	12
1-1/4	32	72,300	HA200	2	7	14

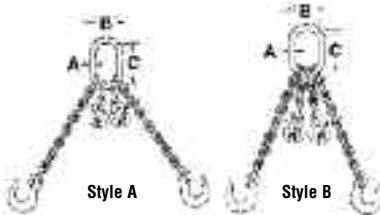


Adjustable Double Loop Chain Sling (continued)

Chain Size (in) (mm)	WLL (lbs)*	Oblong Master Link Sub-Assembly						
		Master Link Sub-Assembly No.	Dimensions (in)			Inside Length C		
			Dia. Material A	Inside Width B	Inside Length C			
7/32	5.5	5,450	4,450	3,150	HA50-SA	1/2	2-1/2	5
9/32	7	9,100	7,400	5,200	HA75-SA	3/4	2-3/4	5-1/2
3/8	10	18,400	15,100	10,600	HA100-SA	1	3-1/2	7
1/2	13	31,200	25,500	18,000	HA125-SA	1-1/4	4-3/8	8-3/4
5/8	16	47,000	38,400	27,100	HA150-SA	1-1/2	5-1/4	10-1/2
3/4	20	73,500	60,000	42,400	HA175-SA	1-3/4	6	12
7/8	22	88,900	72,500	51,300	HA200-SA	2	7	14
1	26	123,900	101,200	71,500	HA225-SA	2-1/4	8	16
1-1/4	32	187,800	153,400	108,400	HA275-SA	2-3/4	9	16

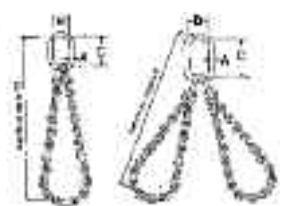
Adjustable Double Chain Sling

Style B single & double adjustable slings are furnished with approximately one (1) foot of chain in short branches unless otherwise specified in the order.



Chain Size (in) (mm)	WLL (lbs)*	Oblong Master Link						
		Master Link No.	Dimensions (in)					
			Dia. Material A	Inside Width B	Inside Length C			
7/32	5.5	3,600	3,000	2,100	HA40	13/32	1-1/2	3
9/32	7	6,100	4,900	3,500	HA50	1/2	2-1/2	5
3/8	10	12,300	10,000	7,100	HA75	3/4	2-3/4	5-1/2
1/2	13	20,800	17,000	12,000	HA100	1	3-1/2	7
5/8	16	31,300	25,600	18,100	HA125	1-1/4	4-3/8	8-3/4
3/4	20	49,000	40,000	28,300	HA150	1-1/2	5-1/4	10-1/2
7/8	22	59,200	48,400	34,200	HA175	1-3/4	6	12
1	26	82,600	67,400	47,700	HA200	2	7	14
1-1/4	32	125,200	102,200	72,300	HA225	2-1/4	8	16

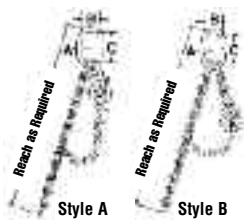
Basket Type Chain Sling Single & Double



Chain Size (in) (mm)	WLL (lbs.)*	Oblong Master Link									
		Single Basket			Double Basket			Sub-Assembly No.	Dia. Material A (in)	Inside Width B (in)	Inside Length C (in)
		Master Link No.	Dia. Material A (in)	Inside Width B (in)	Inside Length C (in)	Dia. Material A (in)	Inside Width B (in)				
7/32	5.5	3,600	5,450	HA40	13/32	1-1/2	3	HA50-SA	1/2	2-1/2	5
9/32	7	6,100	9,100	HA50	1/2	2-1/2	5	HA75-SA	3/4	2-3/4	5-1/2
3/8	10	12,300	18,400	HA75	3/4	2-3/4	5-1/2	HA100-SA	1	3-1/2	7
1/2	13	20,800	31,200	HA100	1	3-1/2	7	HA125-SA	1-1/4	4-3/8	8-3/4
5/8	16	31,300	47,000	HA125	1-1/4	4-3/8	8-3/4	HA150-SA	1-1/2	5-1/4	10-1/2
3/4	20	49,000	73,500	HA150	1-1/2	5-1/4	10-1/2	HA175-SA	1-3/4	6	12
7/8	22	59,200	88,900	HA175	1-3/4	6	12	HA200-SA	2	7	14
1	26	82,600	123,900	HA200	2	7	14	HA225-SA	2-1/4	8	16
1-1/4	32	125,200	187,800	HA225	2-1/4	8	16	HA275-SA	2-3/4	9	16

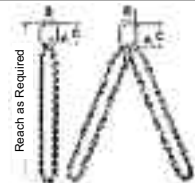
Adjustable Single Loop Chain Sling

Style B furnished with approximately one (1) foot of chain in short branches.



Chain Size (in) (mm)	WLL (lbs)*	Oblong Master Link						
		Master Link No.	Dimensions (in)					
			Dia. Material A	Inside Width B	Inside Length C			
7/32	5.5	3,600	3,000	2,100	HA40	13/32	1-1/2	3
9/32	7	6,100	4,900	3,500	HA50	1/2	2-1/2	5
3/8	10	12,300	10,000	7,100	HA75	3/4	2-3/4	5-1/2
1/2	13	20,800	17,000	12,000	HA100	1	3-1/2	7
5/8	16	31,300	25,600	18,100	HA125	1-1/4	4-3/8	8-3/4
3/4	20	49,000	40,000	28,300	HA150	1-1/2	5-1/4	10-1/2
7/8	22	59,200	48,400	34,200	HA175	1-3/4	6	12
1	26	82,600	67,400	47,700	HA200	2	7	14
1-1/4	32	125,200	102,200	72,300	HA225	2-1/4	8	16

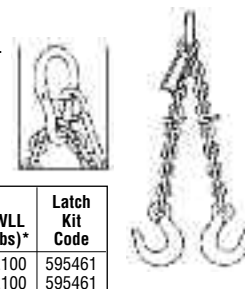
Endless Basket Chain Sling Single & Double



Chain Size (in) (mm)	WLL (lbs)*	Oblong Master Link									
		Single Basket			Double Basket			Sub-Assembly Number	Dia. Material A	Inside Width B	Length C
		Master Link No.	Dia. Material A	Inside Width B	Inside Length C	Dia. Material A	Inside Width B				
7/32	5.5	2,100	3,600	HA40	15/32	1-1/2	3	HA50	1/2	2-1/2	5
9/32	7	3,500	6,100	HA50	1/2	2-1/2	5	HA75	3/4	2-3/4	5-1/2
3/8	10	7,100	12,300	HA75	3/4	2-3/4	5-1/2	HA100	1	3-1/2	7
1/2	13	12,000	20,800	HA100	1	3-1/2	7	HA125	1-1/4	4-3/8	8-3/4
5/8	16	18,100	31,300	HA125	1-1/4	4-3/8	8-3/4	HA150	1-1/2	5-1/4	10-1/2
3/4	20	28,300	49,000	HA150	1-1/2	5-1/4	10-1/2	HA175	1-3/4	6	12
7/8	22	34,200	59,200	HA175	1-3/4	6	12	HA200	2	7	14

Tool Box Sling

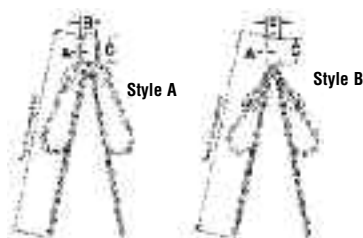
- Adjustable all-purpose utility sling.
- Lifts even/uneven loads easily.
- Lightweight & portable.
- Saves time.
- Available in 6' & 10' reach.
- Hook latch optional.



Chain Size (in) (mm)	Product Code	UPC 43927-	Total Length (ft)	WLL (lbs)*	Latch Kit Code
7/32	607970	20920	6	2100	595461
7/32	607973	20923	10	2100	595461

Adjustable Double Loop Chain Sling

Style B furnished with approximately one (1) foot of chain in short branches.



- continues -

6 Chain and Slings

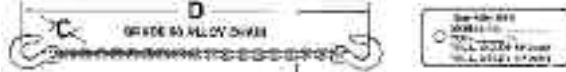
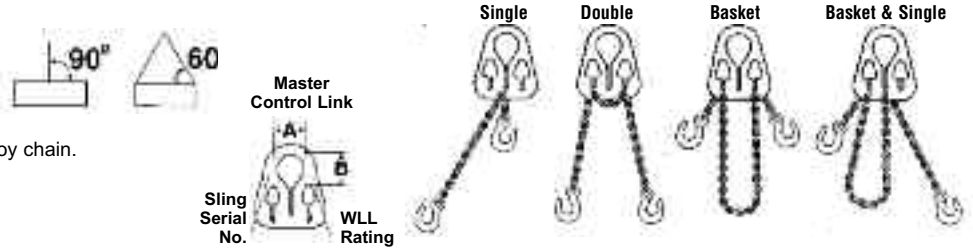
Chains & Chain Slings

Chain Slings & Attachments

CM GRADE 80 – HERC-ALLOY 800–WELDED – OVERHEAD LIFTING CHAIN AND CHAIN SLINGS

Adjust-A-Link Sling - CM

- Adjustable all-purpose sling.
- Lifts even/uneven loads easily.
- Lightweight and portable.
- Available in 6' and 10' reach.
- Available in 7/32", 9/32" x 3/8" grade 80 alloy chain.
- All components proof tested.
- Alloy steel master/control link.
- Each assembly serialized and tagged.



WARNING: Improper use and care of chain slings can result in bodily injury or property damage.

To avoid injury or damage:

- Never exceed the Working Load Limit (W.L.L.). W.L.L. decreases as the angle from horizontal decreases. Do not use at horizontal angle or less than 45°.
- Always inspect slings before each use for wear damage or elongation. Refer to ANSI B30.9, OSHA regulation, and CM Manual PMC-10.
- Seat chain fully in adjusting slot of master control link.
- Do not substitute another chain, or use Adjust-A-Link chain or master control link separately.
- Securely attach and balance load. Make sure chain is not twisted, knotted, or kinked.
- Do not impact load or jerk the sling.
- Protect chain from sharp corners and objects.
- Use only alloy chain and components for overhead lifting.

Chain Size (in)	Product code	UPC 43927-	Chain Reach D (ft)	WLL (lbs)*		Link Dimensions (in)			Wt. (lbs)
				Single @ 90°	Double @ 60°	A	B	C	
7/32	607971	20921	6	2,100	3,600	2	2	-15/16	4-1/2
7/32	607972	20922	10	2,100	3,600	2	2	-15/16	6-7/2
9/32	607974	20924	6	3,500	6,100	3	3-1/2	1-1/16	8
9/32	607975	20925	10	3,500	6,100	3	3-1/2	1-1/16	11
3/8	607976	20926	10	7,100	12,300	3-1/4	3-1/4	1-9/16	19

Bail-Type Magnet Chain Assemblies

- CM Grade 80 Herc-Alloy 800
- An alloy casting supplied with welded links and chain.
- Note: Magnet not included with assembly.

Chain Size (in)	Product Code	UPC 43927-	Magnet Dia. (in)	Assembly WLL (lbs)*	Bail (in)						End Length (in)			Std. Reach (in)**	Length of 2 Body Links (in)**	Assy. Wt. (lbs)
					A	B	C	D	I	J	Dia. A	Inside Width B	Inside Length C			
3/4	607442	20932	39 to 44	59,500	4-1/4	3	7	11-1/4	2	2	7/8	2	5	31-1/4	4	69.4
7/8	607443	22535	44 & 45	74,500	4-1/4	3	7	11-1/4	2	2	1	2-1/4	5-3/4	34	4-1/2	83.8
1	607444	20933	45 to 60	101,000	5-3/16	3-1/2	8	12-3/4	2-3/8	2-1/4	1-1/8	2-1/4	5-3/4	37-9/16	5-9/16	125.9
1-1/4	607445	22785	over 60	149,000	7-1/2	6	11	17	2-1/2	2-1/2	1-1/2	3-1/8	8	49-1/4	6-1/2	265.5

**If additional reach is required, add 2 link increments to standard total reach.



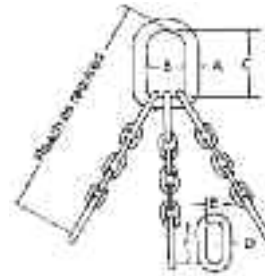
6 Chain and Chain Slings

Standard Triple Branch Magnet Chains

- CM Grade 80 Herc-Alloy 800
- Assembled with 5 links of body chain in each branch.

Chain Size (in)	WLL (lbs)*	Product Code	UPC 43927-	Magnet Dia. (in)	Master Link (in)			End Link (in)			Std. Reach (in)**	Approx. Wt. (lbs)	2 Body Chain Links (in)
					Dia. A	Inside Width B	Inside Length C	Dia. D	Inside Width E	Inside Length F			
5/8	47,000	604701	20927	up to 39	1-3/4	5	8	3/4	2	5	26-3/4	40	3-1/2
3/4	73,500	604702	20928	39 to 44	1-3/4	5	8	7/8	2	5	28	49	4
7/8	88,900	604703	20929	44 & 45	2	5	9	1	2-1/4	5-3/4	31-3/4	72	4-1/2
1	123,900	604704	20930	45 to 60	2	5	9	1-1/8	2-1/4	5-3/4	33-13/16	91-1/2	5-3/8
1-1/4	187,800	604705	20931	over 60	2-1/2	6-1/2	12	1-1/2	3-1/8	8	44-1/4	193-1/2	6-1/2

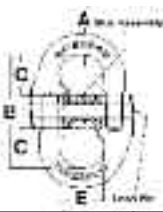
**If additional reach is required, add 2 link increments to standard total reach.



Hammerlock Coupling Link

- CM Grade 80 Herc-Alloy 800
- Proof Tested

Dependable and easy to use for fast assembly on the job, for attaching chain to master links and eye type hooks and for installing new body chain in old slings. C.V.S.A. approved.



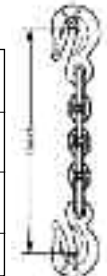
Chain Size (in)	WLL (lbs)	Product Code	UPC 43927-	Dimensions (in)					Dia. hole to accept Male Leg	Wt. Ea. (lbs)
				A	B	C	E†	Max. Width		
7/32	2,100	664220	23087	1/4	1-13/32	31/64	13/32	1-5/16	1/2	.12
9/32	3,500	664228	23097	5/16	1-13/16	5/8	1/2	1-11/16	35/64	.23
3/8	7,100	664241	23107	1/2	2-13/32	53/64	3/4	2-7/32	47/64	.65
1/2	12,000	664250	23118	11/16	3-3/8	1-7/32	1	3-1/8	59/64	1.5
5/8	18,100	664262	23130	13/16	4-1/16	1-1/2	1-1/4	3-11/16	1-1/16	2.6
3/4	28,300	664275	23142	15/16	4-25/32	1-51/64	1-1/2	4-5/16	1-1/4	3.8
7/8	34,200	664287	23152	1-3/64	5-1/8	1-29/32	1-3/4	5-5/16	1-11/32	6.3
1	47,700	664300	23163	1-1/4	5-3/4	2-3/16	2	6-3/16	1-9/16	9.3
1-1/4	72,300	664325	23173	1-17/32	6-13/16	2-5/8	2-1/4	7-3/4	2	17.3

Diameter of stock of largest master link intended to be used with Hammerlock.

Chain Shortener

- CM Grade 80 Herc-Alloy 800
- Standard arrangement consists of five links of body chain, two coupling links and two grab hooks are illustrated.

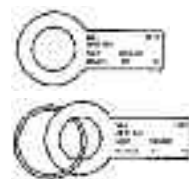
Chain Size (in)	WLL (lbs)	Product code	UPC 43927-	Reach (in)
9/32	3,500	604261	32731	11-1/4
3/8	7,100	604262	32741	15-3/8
1/2	12,000	604263	32746	19-3/8
5/8	18,100	604264	32751	23-3/8
3/4	28,300	604265	32756	28
7/8	34,200	604266	32761	33-1/4
1	47,700	604267	32766	37-1/2
1-1/4	72,300	604268	32771	47-3/4



Identification/Serial Number Tag

- OSCA required.
- Zink plated.
- Suitable for all sizes of slings.

Description	Product Code	UPC 43927-
w/o Ring	457106	24188
w/2' Key Ring	557193	35979



Chains & Chain Slings

Attachments

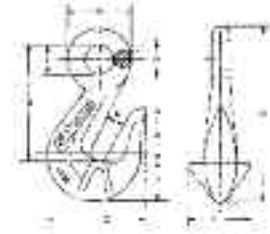
CM GRADE 80 – HERC-ALLOY 800–WELDED – OVERHEAD LIFTING CHAIN AND CHAIN SLINGS

Cradle Grab Hook

• CM Grade 80 Herc-Alloy 800 • 100% Proof Tested

Chain Size (in) (mm)	WLL (lbs)	Product code	UPC 43927-	Dimensions (in)											Wt. Ea. (lbs)
				B	D	E	G	H	I	K	L	M	P		
7/32	5.5	2,100	559318	45060	1.19	1.75	.36	2.69	.38	1.19	.96	.63	1.63	.70	.35
9/32	7	3,500	559325	44959	1.38	1.81	.36	3.44	.38	1.19	.99	.63	2.36	.70	.40
3/8	10	7,100	559337	44922	1.78	2.63	.45	4.67	.50	1.75	1.48	.78	3.11	1.06	1.06
1/2	13	12,000	559350	45265	2.28	3.34	.59	5.86	.63	1.88	1.98	1.03	3.94	1.30	2.26
5/8	16	18,100	559362	44917	2.75	4.08	.75	7.13	.75	2.25	2.63	1.25	4.78	1.59	4.36
3/4	20	28,300	559575	45063	3.19	5.23	.88	8.99	.88	2.88	3.50	1.44	6.25	1.88	8.82
7/8	22	34,200	559387	42060	3.75	5.69	1.00	9.63	1.00	3.00	3.75	1.75	6.50	2.12	10.40
1	26	47,700	559100	44989	4.31	7.00	1.19	12.44	1.22	3.88	4.31	1.88	8.09	3.12	20.90
1-1/4†	32	72,300	559124	42052	5.38	8.50	1.50	15.56	1.56	3.50	5.50	2.25	10.50	3.50	40.00

† Not cradle type



Sling Hook** without Latch

• CM Grade 80 Herc-Alloy 800 • 100% Proof Tested

Chain Size (in) (mm)	WLL (lbs)	Product Code	UPC 43927-	Dimensions (in)											Wt. Ea. (lbs)		
				B	D	E	G	H	I	K	L	M	N	O		P	
7/32	5.5	2,100	458544	42023	-	3.31	1.44	4.30	.38	.78	1.25	.75	3.06	1.25	1.00	.86	.7
9/32	7	3,500	458722	42000	1.62	3.50	1.50	5.25	.44	.73	1.59	.75	3.75	1.19	1.20	1.05	1.1
3/8	10	7,100	458725	44887	2.06	4.34	1.88	6.64	.56	.95	2.19	.94	4.78	1.44	1.45	1.28	1.9
1/2	13	12,600	458728	45259	2.63	5.50	2.25	8.16	.75	1.17	2.56	1.13	5.69	1.78	1.94	1.66	4.5
5/8	16	18,100	458729	44951	3.06	6.34	2.63	9.66	.88	1.44	2.63	1.31	6.50	2.03	2.38	2.19	7.3
3/4	20	28,300	458730	44992	3.50	7.83	3.00	11.38	1.00	1.69	3.44	1.50	7.81	2.50	2.83	2.51	11.4
7/8	22	34,200	458732	44994	3.88	8.59	3.38	12.72	1.09	1.94	3.88	1.69	8.75	2.78	3.22	2.84	18.1
1	26	47,700	458733	45079	4.31	9.59	4.00	14.23	1.22	2.14	4.25	1.88	9.88	3.13	3.55	3.09	22.6
1-1/4	32	72,300	458735	45103	5.31	11.56	4.66	17.00	1.50	2.62	4.64	2.31	11.50	3.88	4.25	3.89	36.0

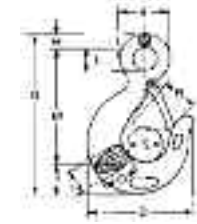
** Available from stock with/without latch. Replacement latch kits are also available. User must determine if latch is required on the hook.



Sling Hook with Latch

• CM Grade 80 Herc-Alloy 800 • 100% Proof Tested

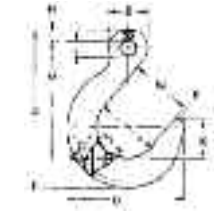
Chain size (in) (mm)	WLL (lbs)	Product Code	UPC 43927-	Dimensions (in)											Wt. Ea. (lbs)	
				B	D	G	H	I	L	M	O	P	S	S		
7/32	5.5	2,100	558544	42031	-	3.31	4.30	.38	.78	.75	3.06	1.00	.86	1.11	1.11	.7
9/32	7	3,500	558322	44929	1.63	3.50	5.25	.44	.73	1.59	.75	3.75	1.20	1.05	1.06	1.1
3/8	10	7,100	558325	44888	2.06	4.34	6.64	.56	.95	.94	4.78	1.45	1.28	1.31	1.31	1.9
1/2	13	12,000	558328	45261	2.63	5.50	8.16	.75	1.17	1.13	5.69	1.94	1.66	1.56	1.63	4.5
5/8	16	18,100	558329	44974	3.06	6.34	9.66	.88	1.44	1.31	6.50	2.38	2.19	1.75	1.75	7.3
3/4	20	28,300	558330	44993	3.50	7.83	11.38	1.00	1.69	1.50	7.81	2.83	2.51	2.19	2.19	11.4
7/8	22	34,200	558332	44995	3.88	8.59	12.72	1.09	1.94	1.69	8.75	3.22	2.84	2.38	2.38	18.1
1	26	47,700	558333	45080	4.31	9.59	14.23	1.22	2.14	1.88	9.88	3.55	3.09	2.78	2.88	22.6
1-1/4	32	72,300	558335	45104	5.31	11.28	17.00	1.50	2.62	2.31	11.50	4.25	3.89	3.41	3.41	36.0



Foundry Hook

• CM Grade 80 Herc-Alloy 800 • 100% Proof Tested

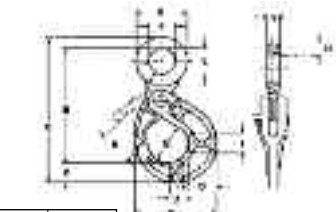
Chain Size (in) (mm)	WLL (lbs)	Product code	UPS 43927-	Dimensions (in)											Wt. Ea. (lbs)		
				B	D	E	G	H	I	K	L	M	N	O		R	
9/32	7	3,500	474498	42073	1.56	4.75	2.50	6.45	.47	1.00	1.56	.63	4.75	2.50	1.23	.25	2.4
3/8	10	7,100	474499	42074	2.00	5.75	3.00	7.88	.63	1.27	1.88	.75	5.75	3.00	1.50	.31	4.5
1/2	13	12,000	474500	42075	2.50	6.75	3.50	9.38	.75	1.50	2.22	1.00	6.88	3.50	1.75	.37	7.1
5/8	16	18,100	474501	42076	3.00	7.81	4.00	10.97	.88	1.81	2.63	1.25	8.06	4.00	2.03	.43	11.6
3/4	20	28,300	474502	42077	3.50	9.13	4.50	12.81	1.00	2.20	3.00	1.50	9.25	4.50	2.56	.50	20.0
7/8	22	34,200	474503	42078	4.00	10.14	5.00	14.23	1.13	2.25	3.38	1.75	10.38	5.00	2.78	.56	26.0
1	26	47,700	474504	42079	4.50	11.13	5.50	15.84	1.25	2.59	3.75	2.13	11.56	5.50	3.03	.62	36.8
1-1/4	32	72,300	474505	42080	5.13	12.84	6.00	18.03	1.38	3.17	4.25	2.38	12.88	6.00	3.81	.75	58.4



Large Eye Latchlok Hook

- CM Grade 80 Herc-Alloy 800
- 100% Proof Tested
- For simplified rigging and secure load attachment.
- Recessed push button thumb release will not open accidentally, even if chain slacks; eliminates danger of an open hook snagging on a projection.
- Large Eye accepts wire rope thimbles.

Chain Size (in) (mm)	WLL (lbs)	Product Code	UPC 43927-	Dimensions (in)														Wt. Ea. (lbs)	
				B	D	E	G	H	I	J	K	L	M	N	O	P	V		
9/32	7	3,500	674514	60005	2-3/16	3-7/16	1-3/8	6-11/16	1/2	15/16	13/16	1-3/16	1-3/16	5-3/16	1-3/8	1-5/16	1	1/2	1.28
3/8	10	7,100	674518	60006	2-13/16	4-1/16	1-3/4	8-11/32	11/16	1-1/8	5/8	1-7/16	1-7/16	6-1/2	1-3/4	1-19/32	1-9/64	11/16	2.08
1/2	13	12,000	674524	60007	3-5/8	4-3/4	2-1/4	10-9/16	7/8	1-11/16	1-3/8	1-7/8	1-7/8	8-9/32	2-3/16	1-21/32	1-3/8	7/8	4.12
5/8-3/4	16/20	28,300	674530	60008	5-1/16	5-3/4	2-7/16	13-1/2	1-1/4	2-1/16	1-3/4	2-9/16	2-9/16	10-1/2	2-5/8	2-3/8	1-3/4	1-1/4	10.34

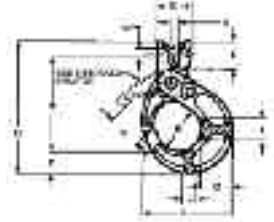


Attachments

CM GRADE 80 – HERC-ALLOY 800–WELDED – OVERHEAD LIFTING CHAIN AND CHAIN SLINGS

Clevlok Latchlok Hook

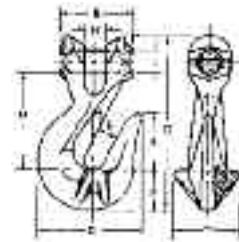
- CM Grade 80 Herc-Alloy 800
- 100% Proof Tested
- Alloy steel, forged & heat treated.
- Rated for grade 80 Herc-Alloy chain.
- Join directly to chain. No need for coupling links.
- Recessed push button release. Will not open accidentally, even when chain goes slack.
- Smooth contour prevents hooks snagging.



Chain Size (in)	WLL (lbs)	Product code	UPC 43927-	Dimensions (in)												Wt. Ea. (lbs)	
				B	D	E	G	I	J	K	L	M	N	O	P		W
9/32	3,500	674370	60000	1-23/64	3-7/16	1-5/8	5-9/32	15/16	13/16	21/64	1	3-49/64	1-3/8	1-15/16	1	3/8	1.5
3/8	7,100	674372	60001	1-13/16	4-1/16	1-5/8	6-3/4	1-1/8	5/8	29/64	1-27/64	4-51/64	1-3/4	1-19/32	1-9/64	17/32	2.6
1/2	12,000	674374	60002	2-3/16	4-3/4	2-1/16	8-9/16	1-11/16	1-3/8	5/8	1-43/64	6-5/64	2-3/16	2-21/32	1-3/8	21/32	5.7
5/8	18,100	674379	60003	2-3/4	5-3/4	2-1/4	10-15/32	2-1/16	1-3/4	3/4	2-1/8	7-25/64	2-5/8	2-3/8	1-3/4	7/8	11.1
3/4	28,300	674384	60004	3-1/8	5-3/4	2-1/4	10-7/8	2-1/16	1-3/4	7/8	2-19/32	7-7/16	2-5/8	2-3/8	1-3/4	1-1/16	11.7

Clevlok Cradle Grab Hook • CM Grade 80 Herc-Alloy 800 • 100% Proof Tested

Combines CM's unique Cradle Grab design with a simple, dependable clevis device for do-it-yourself hook attachment. Replacement load pins and retainer pins available.

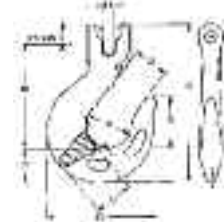


Chain Size (in)	WLL (lbs)	Product Code	UPC 43927-	Dimensions (in)										Wt. Ea. (lbs)		
				B	D	Dim. E	Tol. E	G	H	K	Pin Dia. L	M	P		T	
9/32	7	3,500	659222	42108	1.250	1.781	.359	±.016	3.000	.328	.984	.357	1.625	.718	1.187	.46
3/8	10	7,100	659225	42111	1.812	2.562	.468	±.031	4.078	.453	1.406	.507	2.109	1.062	1.750	1.23
1/2	13	12,000	659228	42114	2.156	3.250	.594	±.031	5.266	.593	1.875	.625	2.875	1.281	2.125	2.40
5/8	16	18,100	659229	42117	2.687	4.078	.750	±.031	6.531	.750	2.375	.750	3.562	1.593	2.500	4.17
3/4	20	28,300	659430	42120	3.125	5.234	.875	±.031	9.083	.875	3.503	.906	5.500	1.867	2.875	9.56

Clevlok Sling Hook without Latch** • CM Grade 80 Herc-Alloy 800 • 100% Proof Tested

Chain Size (in)	WLL (lbs)*	Product Code	UPC 43927-	Dimensions (in)										Wt. Ea. (lbs.)		
				D	E	G	H	I	K	L	M	N	O		P	
9/32	7	3,500	658338	45077	3.500	1.500	5.156	.328	.734	1.594	.357	3.437	1.187	1.203	1.051	.64
3/8	10	7,100	658339	45100	4.343	1.875	6.672	.453	.953	2.187	.507	4.468	1.437	1.453	1.281	1.91
1/2	13	12,000	658340	45070	5.500	2.250	8.000	.593	1.172	2.562	.625	5.265	1.781	1.938	1.656	4.33
5/8	16	18,100	658341	45147	6.281	2.625	9.687	.750	1.438	2.281	.750	6.078	2.031	2.375	2.188	5.20
3/4	20	28,300	658342	45177	7.827	3.000	11.688	.875	1.688	3.437	.906	7.344	2.500	2.828	2.563	11.40

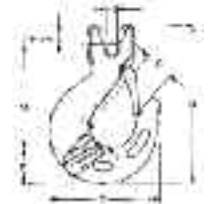
** Latches available either as an option or in kit form. User must determine whether latch is required on the hook.
Replacement load pins and retainer pins available



Clevlok Sling Hook with Latch • CM Grade 80 Herc-Alloy 800 • 100% Proof Tested

Chain Size (in)	WLL (lbs)	Product Code	UPC 43927-	Dimensions (in)								Wt. Ea. (lbs)		
				D	G	H	I	L	O	P	R			
9/32	7	3,500	658318	45078	3.500	5.156	.328	.734	.357	3.437	1.203	1.051	1.062	.80
3/8	10	7,100	658319	45101	4.343	6.672	.453	.953	.507	4.468	1.453	1.281	1.312	2.03
1/2	13	12,000	658320	45071	5.500	8.000	.593	1.172	.625	5.265	1.938	1.656	1.562	4.50
5/8	16	18,100	658321	45148	6.281	9.687	.750	1.438	.750	6.078	2.375	2.188	1.750	6.50
3/4	20	28,300	658322	45178	7.827	11.688	.875	1.688	.906	7.344	2.828	2.563	2.187	11.80

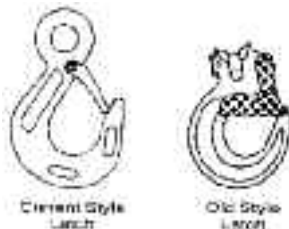
Replacement load pins and retainer pins available.



Hook Latch Kits

- CM Grade 80 Herc-Alloy 800 • 100% Proof Tested
- Kit includes all hardware for easy installation on CM eye and Clevlok sling hooks.

Size (in)	Current Style		Old Style	
	Product Code	UPC 43927-	Product Code	UPC 43927
7/32	-	-	595461	42087
9/32	595523	44919	595461	42087
3/8	595525	45260	595463	42088
1/2	595528	35990	595474	42095
5/8	595529	44975	595465	42090
3/4	595530	44984	595466	42091
7/8	595532	45081	595467	42092
1	595533	45082	595468	42093
1-1/4	595535	44988	595469	42094



S-Hook

- CM Grade 80 Herc-Alloy 800
- 100% Proof Tested

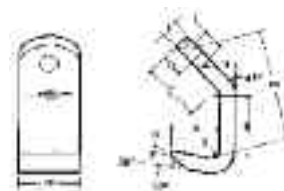
Size A (in)	WLL (lbs)*	Product Code	UPC 43927-	Dimensions (in)				Wt. Ea. (lbs)
				B	C	D	R	
9/32	210	562228	23690	4-1/2	1-1/8	1-1/8	9/16	.15
3/8	410	562237	23691	6	1-1/2	1-1/2	3/4	.35
1/2	870	562250	23692	7-1/2	2	2	1	.82
5/8	1,120	562262	23693	9	2-1/2	2-1/2	1-1/4	1.6
3/4	1,730	562275	23694	10-1/2	3	3	1-1/2	2.6
7/8	2,370	562287	23695	12	3-1/2	3-1/2	1-3/4	4.2
1	2,920	562300	23696	13	4	4	2	6.0
1-5/32	3,150	562310	23697	15	4-1/2	4-1/2	2-1/4	9.3
1-1/4	4,450	562325	23698	16	5	5	2-1/2	11.7
1-3/8	6,100	562337	23699	17	5-1/2	5-1/2	2-3/4	15.4
1-1/2	6,250	562350	23700	18	6	6	3	19.5



Plate Hook • CM Grade 80 Herc-Alloy 800 • 100% Proof Tested

Chain Size (in)	WLL* (lbs)	Product Code	UPC 43927-	Dimensions (in)										Wt. Ea. (lbs)
				A	B	C	D	L	M	N	T	R	W	
9/32	3,600	462528	23675	2	1-3/4	2-1/2	15/16	1	3-11/16	1/8	5/8	5/16	2-1/2	2.8
3/8	7,050	462537	23676	2-5/8	3	4-5/16	1-3/16	1-1/8	6-3/8	3/16	3/4	3/8	2-3/4	5.7
1/2	11,400	462550	23677	3-1/2	4	4-3/8	1-1/2	1-1/2	7-3/8	1/4	1	1/2	3-1/2	13.0
5/8	17,800	462562	23678	4-3/8	5	5-7/16	1-7/8	1-7/8	9-1/4	5/16	1-1/4	5/8	5	26.5
3/4	25,600	462575	23679	5-3/16	6	6-1/2	2-3/8	2-1/4	10-7/8	3/8	1-1/2	3/4	5-3/4	42.0
7/8	34,900	462587	23680	6	7	7-5/8	2-1/2	2-5/8	13-1/16	7/16	1-3/4	1	6	65.0

NOTE: For mechanical assembled slings, next larger size Hammerlok coupling link is required in addition to regular size Hammerlok coupling link.



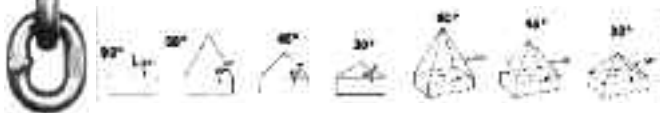
Chains & Chain Slings

Chain Slings

CM GRADE 100 – HERC-ALLOY 1000–WELDED – OVERHEAD LIFTING CHAIN AND CHAIN SLINGS

CM Herc-Alloy 1000 Chain Sizes and Working Load Limits

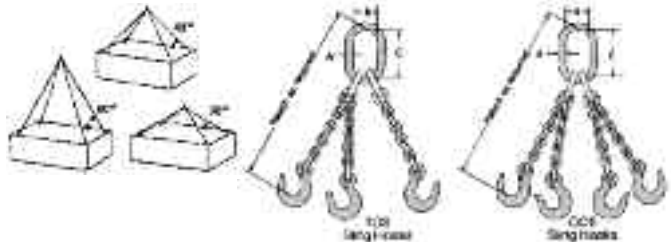
Chain Size (in)	Nom. Dim. (in)		Approx. No. Links Per Ft.	Approx. Weight Per 100 ft. (lbs)	Per Foot Prod. Code	Drum Prod. Code	Feet Per Drum
	Inside Length	Inside Width					
7/32	.670	.284	17.9	44.7	607321	677310	800
9/32	.868	.380	13.8	73.1	607328	677311	500
3/8	1.181	.512	9.8	148.0	607339	677313	500
1/2	1.535	.688	8.5	255.0	607351	677315	300
5/8	1.890	.819	6.9	383.0	607363	677316	200
3/4	2.362	1.024	5.5	625.0	607378	677317	100



Chain Size (in)	Working Load Limits (lbs)*					
	Single 90°	60°	Double 45°	30°	60° Triple & Quad 45°	30°
7/32	2,700	4,700	3,800	2,700	7,000	4,000
9/32	4,300	7,400	6,100	4,300	11,200	6,400
3/8	8,800	15,200	12,400	8,800	22,900	13,200
1/2	15,000	26,000	21,200	15,000	39,000	22,500
5/8	22,600	39,100	32,000	22,600	58,700	33,900
3/4	35,300	61,100	49,900	35,300	91,700	53,000

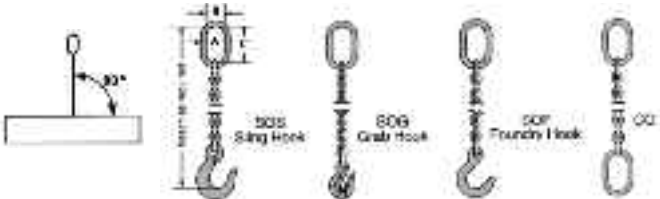
CM Triple & Quad Chain Sling Type T & Q

Safety Note: A quad branch chain sling usually does not sustain loads with even distribution to its four branches, especially when loads are of rigid structure. Therefore, maximum working load limits are set at the same values as for triple branch slings of equal quality and size and used with branches at the same angle of inclination.



Chain Size (in)	WLL (lbs)*			Oblong Master Link Sub-Assembly / Dim. (in)			Approx. Wt. (lbs)	
				Dia. Material A	Inside Width B	Inside Length C	Type TOS 5' Reach	Type QOS 5' Reach
	60°	45°	30°					
7/32	7,000	5,700	4,000	1/2	2-1/2	5	12	16
9/32	11,200	9,100	6,400	3/4	2-3/4	5-1/2	14	18
3/8	22,900	18,700	13,200	1	3-1/2	7	28	36
1/2	39,000	31,800	22,500	1-1/4	4-3/8	8-3/4	50	62
5/8	58,700	47,900	33,900	1-1/2	5-1/4	10-1/2	79	97
3/4	91,700	74,900	53,000	1-3/4	6	12	112	137

CM Single Chain Sling Type S & C

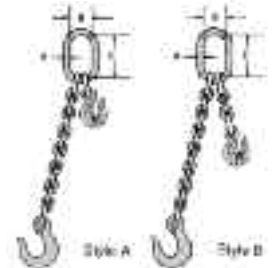


Chain Size (in)	WLL (lbs)*	Oblong Master Link / Dim. (in)			Approx. Wt. (lbs) Type SOS 5 ft. Reach
		Dia. Material A	Inside Width B	Inside Length C	
7/32	2,700	13/32	1-1/2	3	4
9/32	4,300	1/2	2-1/2	5	5
3/8	8,800	3/4	2-3/4	5-1/2	10
1/2	15,000	1	3-1/2	7	18
5/8	22,600	1	3-1/2	7	25
3/4	35,300	1-1/4	4-3/8	8-3/4	38

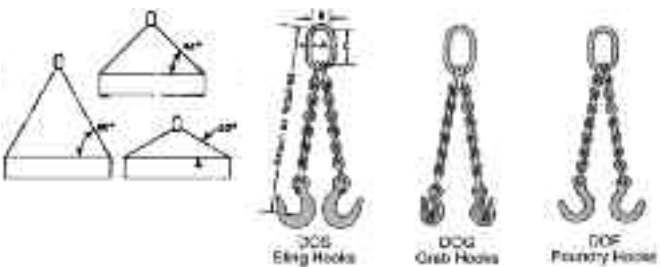
CM Adjustable Single Chain Sling

Style B single and double adjustable slings are furnished with approx. one (1) foot of chain in short branches unless otherwise specified in the order.

Chain Size (in)	WLL (lbs)*	Oblong Master Link / Dim. (in)		
		Dia. Material A	Inside Width B	Inside Length C
7/32	2,700	13/32	1-1/2	3
9/32	4,300	1/2	2-1/2	5
3/8	8,800	3/4	2-3/4	5-1/2
1/2	15,000	1	3-1/2	7
5/8	22,600	1	3-1/2	7
3/4	35,300	1-1/4	4-3/8	8-3/4



CM Double Chain Sling Type D

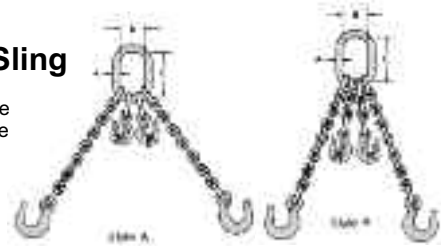


Chain Size (in)	WLL (lbs)*			Oblong Master Link / Dim. (in)			Approx. Wt. (lbs) Type DOS 5' Reach
				Dia. Material A	Inside Width B	Inside Length C	
7/32	4,700	3,800	2,700	13/32	1-1/2	3	8
9/32	7,400	6,100	4,300	1/2	2-1/2	5	9
3/8	15,200	12,400	8,800	3/4	2-3/4	5-1/2	18
1/2	26,000	21,200	15,000	1	3-1/2	7	31
5/8	39,100	32,000	22,600	1-1/4	4-3/8	8-3/4	49
3/4	61,100	49,900	35,300	1-1/2	5-1/4	10-1/2	71

CM Adjustable Double Chain Sling

Style B single and double adjustable chain slings are furnished with approx. one (1) foot of chain in short branches unless otherwise specified in the order.

Chain Size (in)	WLL (lbs)*			Oblong Master Link / Dim. (in)		
				Dia. Material A	Inside Width B	Inside Length C
7/32	4,700	3,800	2,700	13/32	1-1/2	3
9/32	7,400	6,100	4,300	1/2	2-1/2	5
3/8	15,200	12,400	8,800	3/4	2-3/4	5-1/2
1/2	26,000	21,200	15,000	1	3-1/2	7
5/8	39,100	32,000	22,600	1-1/4	4-3/8	8-3/4
3/4	61,100	49,900	35,300	1-1/2	5-1/4	10



!WARNING: Do not exceed Working Load Limit.

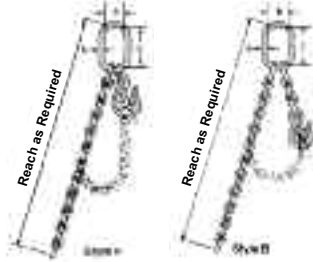
Chains & Chain Slings

Chain Slings

CM GRADE 100 – HERC-ALLOY 1000–WELDED – OVERHEAD LIFTING CHAIN AND CHAIN SLINGS

CM Adjustable Single Loop Chain Sling

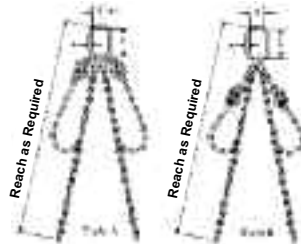
Style B furnished with approx. one (1) foot of chain in short branches.



Chain Size (in)	WLL (lbs)*			Oblong Master Link/Dim. (in)		
	60°	45°	30°	Dia. Material	Inside Width	Inside Length
				A	B	C
7/32	4,700	3,800	2,700	13/32	1-1/2	3
9/32	7,400	6,100	4,300	1/2	2-1/2	5
3/8	15,200	12,400	8,800	3/4	2-3/4	5-1/2
1/2	26,000	21,200	15,000	1	3-1/2	7
5/8	39,100	32,000	22,600	1-1/4	4-3/8	8-3/4
3/4	61,100	49,900	35,300	1-1/2	5-1/4	10

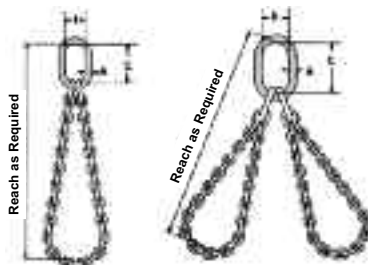
CM Adjustable Double Loop Chain Sling

Style B furnished with approx. one (1) foot of chain in short branches.



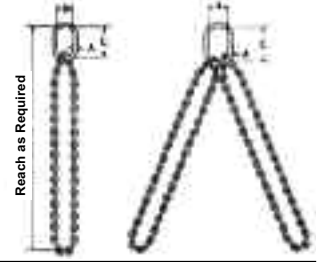
Chain Size (in)	WLL (lbs)*			Oblong Master Link Sub-Assembly/Dim. (in)		
	60°	45°	30°	Dia. Material	Inside Width	Inside Length
				A	B	C
7/32	7,000	5,700	4,000	1/2	2-1/2	5
9/32	11,200	9,100	6,400	3/4	2-3/4	5-1/2
3/8	22,900	18,700	13,200	1	3-1/2	7
1/2	39,000	31,800	22,500	1-1/4	4-3/8	8-3/4
5/8	58,700	47,900	33,900	1-1/2	5-1/4	10-1/2
3/4	91,700	74,900	53,000	2-3/4	6	12

CM Basket Type Chain Sling Single & Double



Chain Size (in)	WLL (lbs)*		Oblong Master Link/Dim. (in)					
	60° Single	60° Double	Single Basket			Double Basket		
			Dia. Material A	Inside Width B	Inside Length C	Dia. Material A	Inside Width B	Inside Length C
7/32	4,700	7,000	13/32	1-1/2	3	1/2	2-1/2	5
9/32	7,400	11,200	1/2	2-1/2	5	3/4	2-3/4	5-1/2
3/8	15,200	22,900	3/4	2-3/4	5-1/2	1	3-1/2	7
1/2	26,000	39,000	1	3-1/2	7	1-1/4	4-3/8	8-3/4
5/8	39,100	58,700	1-1/4	4-3/8	8-3/4	1-1/2	5-1/4	10-1/2
3/4	61,100	91,700	1-1/2	5-1/4	10	1-3/4	6	12

CM Endless Basket Chain Sling (Single & Double)



Chain Size (in)	WLL (lbs)*		Oblong Master Link/Dim. (in)					
	90° Single	60° Double	Single Basket			Double Basket		
			Dia. Material A (in)	Inside Width B (in)	Inside Length C (in)	Dia. Material A (in)	Inside Width B (in)	Inside Length C (in)
7/32	2,700	4,700	13/32	1-1/2	3	1/2	2-1/2	5
9/32	4,300	7,400	1/2	2-1/2	5	3/4	2-3/4	5-1/2
3/8	8,800	15,200	3/4	2-3/4	5-1/2	1	3-1/2	7
1/2	15,000	26,000	1	3-1/2	7	1-1/4	4-3/8	8-3/4
5/8	22,600	31,900	1-1/4	4-3/8	8-3/4	1-1/2	5-1/4	10-1/2
3/4	35,300	61,100	1-1/2	5-1/4	10-1/2	1-3/4	6	12

CM Oblong Master Link –Proof Tested

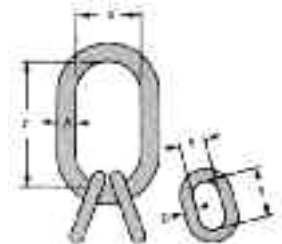


Prod. Code	WLL (lbs)*†	Link Size (in)			Type & Size of Chain Sling on Which Used				Wt. Each (lbs)
		Dia. Material A	Inside Width B	Inside Length C	Single Type S&C	Double Type D	Triple Type T	Quad Type Q	
555231	5,400	13/32	1-1/2	3	7/32	7/32	–	–	.33
555232	8,600	1/2	2-1/2	5	9/32	9/32	7/32	7/32	.8
555235	17,600	3/4	2-3/4	5-1/2	3/8	3/8	9/32	9/32	2.1
555238	30,000	1	3-1/2	7	1/2 or 5/8	1/2	3/8	3/8	4.6
555240	45,200	1-1/4	4-3/8	8-3/4	3/4	5/8	1/2	1/2	9.2
555243	70,600	1-1/2	5-1/4	10-1/2	–	3/4	5/8	5/8	15.7
555246	105,900	1-3/4	6	12	–	–	3/4	3/4	24.5

CM Oblong Master Link Sub-Assembly**

–Proof Tested

For triple and quad branch chain slings.



HA Chain (in)	Prod Code	Oblong Master Link Size (in)			Master Coupling Link Size (in)			Wt. (lbs)
		A	B	C	D	E	F	
7/32	555274	1/2	2-1/2	5	11/32	5/8	1-1/8	2.0
9/32	555275	3/4	2-3/4	5-1/2	.468	7/8	1-9/16	2.0
3/8	555276	1	3-1/2	7	.656	1-1/4	2-1/4	4.5
1/2	555277	1-1/4	4-3/8	8-3/4	.906	1-3/4	3-1/8	9.0
5/8	555278	1-1/2	5-1/4	10-1/2	1.156	2-1/4	4	16.0
3/4	555279	1-3/4	6	12	1.260	2-3/8	4-3/8	25.0

**Consisting of oblong master link and two welded master coupling links.

!WARNING: Do not exceed Working Load Limit.

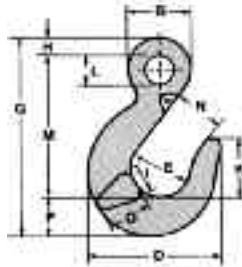
Chains & Chain Slings

Chain Slings

CM GRADE 100 – HERC-ALLOY 1000–WELDED – OVERHEAD LIFTING CHAIN AND CHAIN SLINGS

CM Sling Hook
Without Latch**

–100% Proof Tested



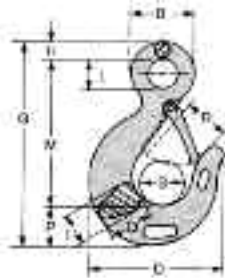
Chain Size (in)	WLL (lbs)*	Prod. Code	Wt. Ea. (lbs)
7/32	2,700	Use 9/32" Hook	
9/32	5,700	458622	1.1
3/8	8,800	458625	1.9
1/2	15,000	458628	4.5
5/8	22,600	458629	7.3
3/4	35,300	458630	11.4

Chain Size (in)	Dimensions (in)												
	B	D	E	G	H	I	K	L	M	N	O	P	
7/32													
9/32	1.62	3.50	1.50	5.25	.44	.73	1.59	.75	3.75	1.19	1.20	1.05	
3/8	2.06	4.34	1.88	6.64	.56	.95	2.19	.94	4.78	1.44	1.45	1.28	
1/2	2.63	5.50	2.25	8.16	.75	1.17	2.56	1.13	5.69	1.78	1.94	1.66	
5/8	3.06	6.34	2.63	9.66	.88	1.44	2.63	1.31	6.50	2.03	2.38	2.19	
3/4	3.50	7.83	3.00	11.38	1.00	1.69	3.44	1.50	7.81	2.50	2.83	2.51	

** Available from stock with/without latch. Replacement latch kits are also available. User must determine if latch is required on the hook.

**CM Sling Hook
With Latch**

–100% Proof Tested



Chain Size (in)	WLL (lbs)*	Prod. Code	Wt. Ea. (lbs)
7/32	2,700	Use 9/32" Hook	
9/32	5,700	558622	1.1
3/8	8,800	558625	1.9
1/2	15,000	558628	4.5
5/8	22,600	558629	7.3
3/4	35,300	558630	11.4

Chain Size (in)	Dimensions (in)												
	B	D	G	H	I	L	M	O	P	R	S		
7/32													
9/32	1.63	3.50	5.25	.44	.73	.75	3.75	1.20	1.05	1.06	1.06		
3/8	2.06	4.34	6.64	.56	.95	.94	4.78	1.45	1.28	1.31	1.31		
1/2	2.63	5.50	8.16	.75	1.17	1.13	5.69	1.94	1.66	1.56	1.63		
5/8	3.06	6.34	9.66	.88	1.44	1.31	6.50	2.38	2.19	1.75	1.75		
3/4	3.50	7.83	11.38	1.00	1.69	1.50	7.81	2.83	2.51	2.19	11.4		

CM Cradle Grab Hook – 100% Proof Tested

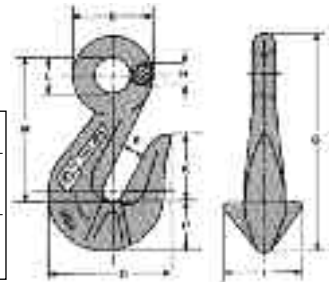
Kit includes all hardware for easy installation on CM eye & Clevlok sling hooks.

Chain Size (in)	Current Style Latch	
	Product Code	
7/32	-	
9/32	595523	
3/8	595525	
1/2	595528	
5/8	595529	
3/4	595530	



CM Cradle Grab Hook

–100% Proof Tested

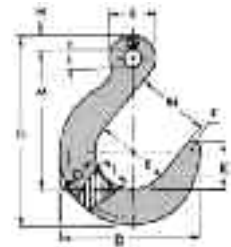


Chain Size (in)	WLL (lbs)*	Prod. Code	Wt. Ea. (lbs)
7/32	2,700	Use 9/32" Hook	
9/32	4,300	559725	.55
3/8	8,800	559737	1.39
1/2	15,000	559750	3.05
5/8	22,600	559762	4.36
3/4	35,300	559775	8.82

Chain Size (in)	Dimensions (in)										
	B	D	E	G	H	I	K	L	M	P	
7/32											
9/32	1.38	1.91	.36	3.70	.38	1.06	1.04	.63	2.56	.76	
3/8	1.78	2.78	.47	4.81	.50	1.38	1.49	.78	3.28	1.04	
1/2	2.28	3.63	.59	6.19	.63	1.81	1.98	1.03	4.22	1.51	
5/8	2.75	4.08	.75	7.13	.75	2.25	2.63	1.25	4.78	1.59	
3/4	3.19	5.23	.88	8.99	.88	2.88	3.50	1.44	6.25	1.88	

CM Foundry Hook

–100% Proof Tested



Chain Size (in)	WLL (lbs)*	Prod. Code	Wt. Ea. (lbs)
9/32	5,700	474798	2.4
3/8	8,800	474799	4.5
1/2	15,000	474800	7.1
5/8	22,600	474801	11.6
3/4	35,300	474802	20.0

Chain Size (in)	Dimensions (in)											
	B	D	E	G	H	I	K	L	M	N	O	R
9/32	1.56	4.75	2.50	6.45	.47	1.00	1.56	.63	4.75	2.50	1.23	.25
3/8	2.00	5.75	3.00	7.88	.63	1.27	1.88	.75	5.75	3.00	1.50	.31
1/2	2.50	6.75	3.50	9.38	.75	1.50	2.22	1.00	6.88	3.50	1.75	.37
5/8	3.00	7.81	4.00	10.97	.88	1.81	2.63	1.25	8.06	4.00	2.03	.43
3/4	3.50	9.13	4.50	12.81	1.00	2.20	3.00	1.50	9.25	4.50	2.56	.50

CM Chain Shortener

Standard arrangement consists of five links of body chain, two coupling links and two grab hooks as illustrated.

Chain Size (in)	WLL (lbs)*	Product Code	Reach (in)
7/32	2,700	603260	10-1/4
9/32	4,300	603261	11-1/4
3/8	8,800	603262	15-3/8
1/2	15,000	603263	19-7/8
5/8	22,600	603264	23-3/8
3/4	35,300	603265	28



CM Identification/Serial Number Tag

- OSHA required
- Zinc plated
- Suitable for all sizes of slings

Description (in)
7/32" – 5/8"
3/4"



! WARNING: Do not exceed Working Load Limit.

Chain Slings

CM GRADE 100 – HERC-ALLOY 1000–WELDED – OVERHEAD LIFTING CHAIN AND CHAIN SLINGS

Herc-Alloy 1000 – Care, Use & Inspection

The life and strength of CM Herc-Alloy 1000 chain slings depend on proper inspection, maintenance and use. For additional information, refer to ANSI B30.9 and OSHA 1910.184.

CARE:

- Chain requires careful storage and regular maintenance.
- Store chains on an A frame in a clean, dry place.
 - To avoid corrosion, oil chains before prolonged storage.
 - Do not heat CM Herc-Alloy 1000 chain; this will alter its thermal treatment.
 - Do not plate or change surface finish of chain. Contact your rep. for special requirements.

USE:

- To protect both operators and materials, observe these precautions when using chain slings:
- Before use, inspect chain and attachments following the instructions under "Inspection" below.
 - Do not exceed working load limit. Any of the factors listed here can reduce the load the chain will hold:
 - Acceleration in rate of load application-can produce dangerous overloading.
 - Variation in the angle of the load to the sling-as the angle decreases, the working load of the sling will increase.
 - Twisting, knotting or kinking-subjects links to unusual loading, decreasing the working load of the sling.
 - Use for purposes other than those for which slings are intended-can reduce the working load of the sling.
 - Free chain of all twists, knots and kinks.
 - Center load in hook(s); hook latches must not support load.
 - Avoid sudden jerks when lifting and lowering.
 - Balance all loads; avoid tipping of loads.
 - Use pads around sharp corners.
 - Do not drop load on chains.
 - Match the size and working load limit of attachments such as hooks or rings to the size and working load limit of the chain.
 - For overhead lifting, use only alloy chain and attachments.

INSPECTION:

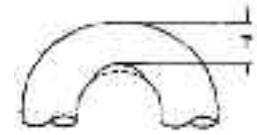
- It is important both to inspect chain slings regularly and to keep a record of all chain inspections. Follow this guide for such an inspection system.
- Before inspecting, clean chains with a non-acid/non-caustic solvent so that marks, nicks, wear and other defects are visible.
 - Inspect each link for these conditions:
 - Twists or bends.
 - Nicks or gouges.
 - Excessive wear at bearing points.
 - Stretch.
 - Distorted or damaged master links, coupling links or attachments, especially spread in throat opening of hooks.
 - Mark plainly with paint each link or attachment showing any of the conditions listed here to indicate rejection; remove from service until properly repaired.

– continues –

WEAR ALLOWANCES OF CM HERC-ALLOY 1000 CHAIN

Measure cross section at link ends to determine wear. If chain is worn to less than the minimum allowable thickness, remove from service.

Chain Size (in)	Min. Allowable Thkns. (T) (in)
7/32	0.189
9/32	0.239
3/8	0.342
1/2	0.443
5/8	0.546
3/4	0.687
7/8	0.750
1	0.887
1-1/4	1.091



NOTE: For sizes not listed, the Minimum Allowable Thickness can be calculated as 87% of the original material diameter.

CM CHAIN INSPECTION PROGRAMS

CM provides chain users with a wide range of informative materials and instructive programs on chain and chain inspection. Our colorful chain safety poster/chart and our fact-filled booklet, "CM Lifting, Pulling & Binding Products Manual PMC-10", available on request.

USE OF CHAIN UNDER EXTREME TEMPERATURE CONDITIONS

When the chain itself is subjected to temperatures shown here, working load limits should be reduced as indicated.

°F	Reduction of Working Load Limit While at Temp.	Reduction of Working Load Limit After Exposure to Temp.
	Below 400	None
400	15%	None
500	25%	5%
600	30%	15%
700	40%	20%
800	50%	25%
900	60%	30%
1000	70%	35%

The identification tag found on the master coupling link of each chain sling contains this information:

- Grade • Size
- Reach • Type
- Working load limit (at a specific angle of lift)
- Serial number

Chains & Chain Slings

Wire Mesh Slings

Gripper Slings

Cambridge's metal mesh GRIPPER® Slings offer many advantages over other types of slings, especially if the load being handled is abrasive or sharp-edged, unstable, hot or corrosive or needs delicate handling to reduce load damage.

But perhaps a GRIPPER Sling's most important quality is its durability. The steel fabric used in our GRIPPER Sling is of low carbon content. The low carbon content prevents the wire from becoming hard and brittle during welding of the spiral to the cross rod. This fabric offers excellent resistance to abrasive loads and as a result offers unsurpassed longevity.

Further, our handles are flame-cut from hot rolled annealed steel plate. This is a very strong and tough steel with excellent resistance to shock loading. Custom handles are also easily fabricated. The handles are joined to the metal mesh fabric with stainless steel connector spirals. Using stainless steel connector spirals reduces the likelihood of failure at this point and assures complete flexibility between the handle and the metal mesh fabric.

Everything A Sling's Supposed To Be And Then Some.

STRONG: The GRIPPER Sling's all steel metal mesh construction tolerates even the most abrasive loads without fear of sling failure. In addition, its environmental tolerance permits use at temperatures of up to 550 degrees F., and even higher when made of a special alloy.

Other alloys are available for greater strength and resistance to chemical environments. See Chemical Environment Data for a discussion of these alloys. Consult us for specific recommendations for your operating conditions.

SAFE: Proof-tested at 200 per cent of its rated work load, every GRIPPER Sling's wide bearing surface improves load balance and gripping power. And since it won't kink or tangle in use like wire rope or chain slings, loads won't shift or slip. What's more, its woven spiral construction eliminates the danger of sudden failure such as can occur with a rotting core in a synthetic sling or a weak link in a chain sling. All GRIPPER products are manufactured in accordance with OSHA and ANSI B-30.9 requirements.

GENTLE: The GRIPPER Sling's interwoven, smooth spiral wires offer complete flexibility. So the sling conforms to the contours of its load, eliminating the dangers of gouging, marring, crushing or cutting so common with wire rope or chain slings.

SAVES TIME: Easy to rig in either a choke or basket hitch, the GRIPPER Sling greatly reduces rigging and unhitching time, and often eliminates the need for two-legged slings or spreader bars.

SAVES MONEY: The GRIPPER Sling's ability to outlast wire rope and synthetic slings will cut your costs in the long run. And, of course, you'll also reduce the costs of damage to your loads. Finally, GRIPPER Slings can be repaired or restored at a fraction of the cost of a new sling.

VERSATILE: The GRIPPER Sling is ideal for handling all types of products, such as coiled strip, thin walled tubing, polished shafting, hot rolled flat bar stock, round bar stock, sheet steel, lumber, paper machine rolls, precast hollow core concrete beams, prestressed concrete, structural beams, cold drawn flats, irregularly shaped objects, and loads subjected to hot or corrosive environments.

GRIPPER SLINGS FOR HOSTILE ENVIRONMENTS

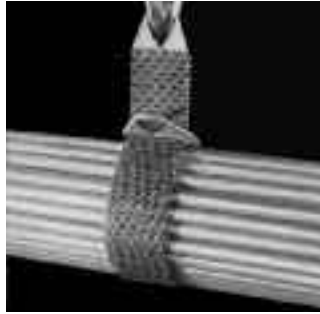
GRIPPER Slings can be manufactured of special alloys to meet operating conditions involving elevated temperatures or corrosive materials.

Monel, Type 400 is an excellent choice for use with chloride salts, alkalies, food products, organic substances, and atmospheric conditions both at normal and elevated temperatures.

Stainless Steel, Type 304 or Type 316, is resistant to corrosion and temperature both in the atmosphere and in wide variety of corrosive media, including many acid solutions, alkalies, organic liquids, and other liquids and gases.

4130 Heat Treated Alloy Steel provides more strength, abrasion resistance and greater capacity than standard carbon steel slings.

Carpenter 20 is primarily a corrosion resistant alloy which has special usefulness in sulfuric acid applications. It is not normally used for high temperature service.



CHEMICAL ENVIRONMENT DATA

Metal Mesh Composition	Weak Sulphuric Acid	Weak Hydrochloric Acid	Alkaline Caustic Solutions	Salt Solutions	Organic Solvents	Water
Carbon Steel	no	no	no	no	yes	no
T-304 Stainless Steel	no	no	yes	no	yes	yes
T-316 Stainless Steel	no	no	yes	no	yes	yes
Monel	no	no	yes	yes	yes	yes
AISI 4130 Alloy Steel*	no	no	no	no	yes	no
Urethane-Coated	no	yes	no	yes	no	yes
Carpenter 20	yes	no	yes	yes	yes	yes

* Heat Treated

This chart is designed as a general guide only. All data is listed for 70°F. For specific temperature, concentration, and time factors, please consult prior to purchase or use.

HOW TO SELECT THE PROPER SLING DIMENSIONS

First, determine the hitch you will use for your sling. Next, read down the column under the selected hitch to the load weight you wish to lift. Then read across to the first column on the left to find the required **sling width**.

For Example: If you wish to use a G-35 sling with a choke hitch to lift 6,000 pounds, the required sling width is 6".

Most of our customers use the G-35 Heavy Duty sling fabric shown below. It is extremely durable and cost effective. But, some applications may require a lighter duty sling. On request, we offer a Medium Duty sling fabric (made with 12 gauge wire) and a Light Duty sling fabric (made with 14 gauge wire). Compared to the G-35 Heavy Duty option, these sling fabrics are lighter weight, more flexible, have greater contact with the load and a tighter grip so are less likely to cause load damage, but do not offer the same level of lifting strength and abrasion resistance.

G-35 Heavy Duty (10 Gauge)

Offers the longest service life and is most resistant to rough treatment. Excellent for handling abrasive loads.



Nominal Width of Sling (in)	Choker	Vertical Basket	Effect of Angle on Rated Capacities in Basket Hitch			
			30° Vert. 60° Horz.	45° Vert. 45° Horz.	60° Vert. 30° Horz.	
G-35 HEAVY Duty	2	1,600	3,200	2,700	2,000	1,600
	3	3,000	6,000	5,100	3,800	2,800
	4	4,400	8,800	7,480	5,600	4,400
	6	6,600	13,200	11,225	8,400	6,600
	8	8,800	17,600	15,000	11,250	8,800
	10	11,000	22,000	18,700	14,000	11,000
	12	13,200	26,440	22,440	16,800	13,200
	14	15,400	30,800	26,180	19,600	15,400
	16	17,600	35,200	29,920	22,400	17,600
	18	19,800	39,600	33,660	25,200	19,800
20	22,000	44,000	37,400	28,000	22,000	
G-43 Med. Duty	2	1,450	2,900	2,320	1,740	1,450
	3	2,175	4,350	3,700	2,700	2,175
	4	2,900	5,800	4,900	3,670	2,900
	6	4,800	9,600	8,150	6,100	4,800
	8	6,400	12,800	10,880	8,100	6,400
	10	8,000	16,000	13,600	10,200	8,000
	12	9,600	19,200	16,300	12,000	9,600
	14	11,200	22,400	19,000	14,000	11,200
	16	12,800	25,600	21,700	16,200	12,800
	18	13,500	27,000	22,900	17,000	13,500
20	15,000	30,000	25,500	19,000	15,000	
G-59 Light Duty	2	900	1,800	1,600	1,300	900
	3	1,400	2,800	2,400	2,000	1,400
	4	2,000	4,000	3,500	2,800	2,000
	6	3,000	6,000	5,200	4,200	3,000
	8	4,000	8,000	6,900	5,700	4,000
	10	5,000	10,000	8,600	7,100	5,000
	12	6,000	12,000	10,400	8,500	6,000
	14	7,000	14,000	12,100	9,900	7,000
	16	8,000	16,000	13,900	11,300	8,000
	18	9,000	18,000	15,800	12,700	9,000
20	10,000	20,000	17,300	14,100	10,000	

- Gripper Sling Information Continues -

Wire Mesh Slings

Gripper Slings (continued)

To find overall sling length for CHOKE HITCH—in Column A find sling width. Then read across and find dimensions B & C. Minimum overall sling length equals circumference of load in inches + B + C + 6".

Example:

You wish to use a 10" wide sling on an 84" circumference.
Minimum overall sling length equals 108-1/2"
(84" + 7-3/4" + 10-3/4" + 6").

To find overall sling length for vertical BASKET HITCH—in Column A find sling width. Then read across and find dimension E. Multiply dimension E by 2 and add circumference of load in inches to determine minimum overall sling length.

Example:

You wish to use a 10" wide sling on an 84" circumference.
Minimum overall sling length equals 86" (1" x 2 + 84").



Dimensions (in)										Approx. Hook Size (ton)	Wt. 36" Slings (lbs)	Fabric Lbs/ft of Length		
A Width (Nom)	B	C	D	E	F	G	H	DD	10 (ga)			12 (ga)	14 (ga)	
2	4	6	2	1/2	2-3/4	1-3/4	4	3-3/4	5	5	1-1/4	1-1/8	3/4	
3	5-1/4	7-1/2	3	3/4	3-1/2	2-1/2	5-1/4	5	10	8	1-7/8	1-3/4	1-1/8	
4	5-1/4	7-3/4	4	3/4	3-1/2	2-1/2	6-1/4	5	10	10	2-1/2	2-1/4	1-1/2	
6	6-1/2	9	6	1	4	2-3/4	8-1/2	6	15	15	3-7/8	3-3/8	2-1/4	
8	8-3/4	12	8	1-1/4	5-1/2	4	11-1/4	8-1/2	25	20	5-1/8	4-1/2	3	
10	9-3/8	12-15/16	9-15/16	1-3/8	5-1/2	4	13-1/2	9-7/8	25	33	6-3/8	5-5/8	3-3/4	
12	10-1/4	13-15/16	12	1-1/2	6	4-1/2	15-3/4	10-1/2	30	42	7-5/8	6-3/4	4-1/2	
14	10-5/8	14-11/16	13-7/8	1-5/8	6	4-1/2	18	10-5/8	30	47	8-7/8	7-7/8	5-1/4	
16	11-1/4	15-9/16	15-7/8	1-3/4	6	4-1/2	20-1/4	10-3/4	30	55	10-1/8	9	6	
18	11-7/8	16-9/16	17-7/8	1-7/8	6	4-1/2	22-1/2	10-7/8	30	64	11-3/8	10-1/8	6-3/4	
20	12-1/2	17-9/16	19-7/8	2	6	4-1/2	24-3/4	11	30	73	12-3/4	11-1/4	7-1/2	

The Engineering Department can design end fittings with larger crane hook openings (dimension G) where required.

Urethane-Coated GRIPPER® Slings for Added Load Protection

Even the most delicate jobs are no problem for the GRIPPER Sling. Thanks to the smooth wire mesh construction, we can coat your sling with urethane to protect extra sensitive loads such as polished shafts, machined parts, marble, concrete, anything and everything that requires extra careful handling.

Clear, urethane plastic-covered slings also provide flexibility and long life, free of attack by weak nitric, hydrofluoric, sulphuric, hydrochloric acids and sodium hydroxide.

For protected handling in more corrosive environments, neoprene coatings are available. Tough, yet flexible, neoprene resists attack by oils, greases, and stronger concentrations of sodium hydroxide, and sulphuric, hydrochloric and hydrofluoric acids.

Coatings are safe up to 150°F.



Specialties

For faster and easier handling operations, Cambridge offers a self-releasing sling. The Automatic Self Releasing Sliding Choker Sling (Pat. No. 3,129,031) cuts rigging time, saves production time and provides extra safety in unloading operations.

Do not hesitate to ask about special end fitting attachments for unusual sling application. Our engineering department has designed a variety of special attachments to meet customer needs. We will be more than willing to work with you in any way to adapt the basic GRIPPER Sling to your requirements.



Maintenance

Although each sling is examined and fully tested prior to shipment to you, the effects of normal wear and tear vary greatly depending on application and usage. This, in addition to the degree of care in handling, makes it imperative that the sling is properly maintained.

Slings should be frequently inspected and should be brought in for repair if any of the following are present:

- Broken welds along the sling edge.
- Broken wire in any part of the mesh.
- A 25% or more reduction in wire diameter due to abrasion.
- Damage due to corrosive environments.
- An increase in overall length of the sling (handle eye to handle eye) of more than 3% for carbon steel slings and 4% for stainless steel and monel slings.
- Distortion of the female handle so the lower member is bowed more than 10% of the original width of the female slot.
- Distortion of either handle so the width of the eye is decreased by more than 10% of its original width.
- A 15% reduction of the original cross-sectional area of metal at the upper portion of either or both handle eyes.
- Slings employing welded handles should be tested yearly by means of magnetic particle inspection or other suitable non-destructive test to assure soundness of welds.



Special Precautions

Special precautions should be taken and a sling of ample size used:

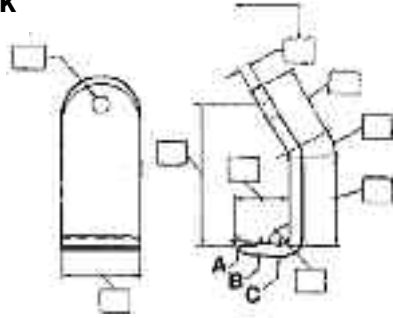
- When the exact load weight is in doubt.
- When there is a possibility of mechanical shock or jerking.
- When conditions are abnormal or severe.
- When there is exceptional hazard to personnel.
- Slings should not be used in pairs unless vertically attached to a spreader beam.
- Special care should be taken to avoid snatch or sudden loading.

Chains & Chain Slings

Worksheet Samples

Special Plate Hooks/Chain Slings for Magnets/S-Hook/J-Hook/Stirrup

Special Plate Hook

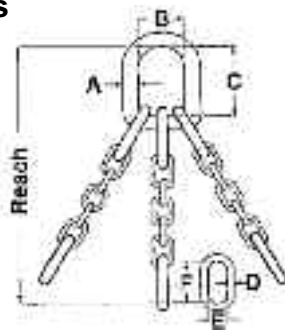


DESCRIPTION OF LOAD TO BE LIFTED:

Wt: _____
 Width: _____
 Length: _____
 Height: _____
 Angle of Inclination: _____
 Load Distribution (No of Branches): _____
 Where Load is Applied (A, B or C): _____
 Notes: _____

Chain Slings for Magnets

- Two Leg
- Three Leg
- Single Replacement Legs
- Special Assemblies



SPECIAL ASSEMBLY DIMENSIONS

Working Load: _____
 Chain Size: _____
 Reach: _____

MASTER LINK

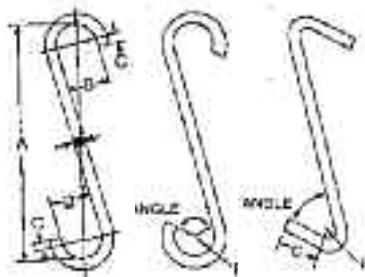
"A" Material Dia: _____
 "B" Width: _____
 "C" Length: _____

END LINK

"D" Material: _____
 "E" Width: _____
 "F" Length: _____

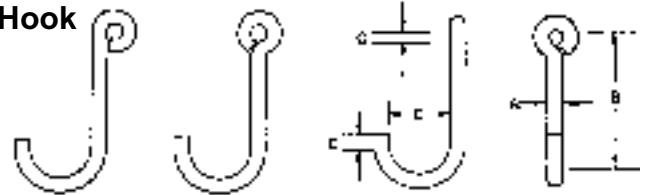
S-Hook

"A" _____
 "B" _____
 "C" _____
 "R" _____
 Angle _____
 Capacity _____
 Style _____



Style A Style B Style C

J-Hook



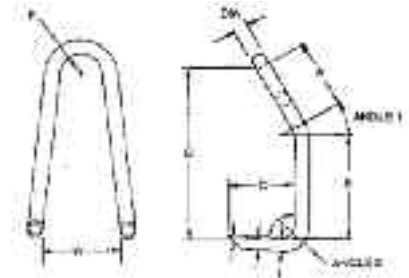
Style A Style B Style C

"A" _____
 "B" _____
 "C" _____
 "D" _____
 "E" _____
 Capacity _____
 Style _____

Dimensions (in)					WLL (lbs.)
A	B	C	D	E	
.31	5"	.75	1.25	.25	250
.38	6"	.75	1.50	.38	350
.50	8"	.75	2.0	.50	650
.63	9"	1.0	2.50	.63	850
.75	10"	1.0	3.0	.75	1200
.88	12"	1.0	3.50	.88	1500
1.0	14"	1.25	4.0	1.0	2000
1.13	15"	1.25	4.50	1.12	2250
1.25	16"	1.50	5.0	1.25	2750
1.38	17"	1.50	5.50	1.38	3000
1.50	18"	2.0	6.0	1.50	3500
1.75	20"	2.50	7.0	1.75	4000
2.0	24"	3.0	8.0	2.0	5000

* Average capacity (WLL) based on bearing pull. Point load capacity average 30% of WLL.

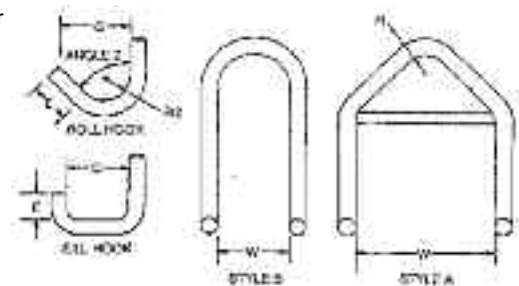
Stirrup



"A" _____
 "B" _____
 "C" _____
 "D" _____
 "E" _____
 "W" _____
 "R1" _____
 "R2" _____
 Angle 1 _____
 Angle 2 _____
 Diameter _____
 Capacity _____
 How Used _____
 Style _____

Stirrup Hook Options

Optional crossbar retains stirrup on sling. Optional brass or polymer non-mar pads protect sensitive surfaces.



Chain & Attachments

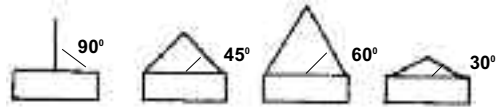
STAINLESS STEEL CHAIN & ATTACHMENTS

Stainless Steel & Specialty Chains

316 Stainless (Marine & Corrosive Environments)				
Size (in)	Inside Width (in)	Inside Length (in)	Pounds (per ft)	WLL (lbs)
.13	.29	.89	.22	375
.19	.40	.95	.40	1,200
.25	.50	1.00	.71	2,000
.31	.50	1.10	1.05	2,850
.38	.63	1.23	1.50	3,550
.50	.81	1.50	2.70	6,500
.63	.87	2.12	3.57	9,500
.75	1.12	2.43	5.29	15,000
.88	1.38	2.75	7.88	18,000
1	1.63	3.00	9.87	22,500
304 Stainless (Marine Environments, Non-Magnetic)				
.50	.81	1.75	2.31	4,200
.63	.88	2.12	3.57	7,500
.75	1.12	2.43	5.29	9,000
.88	1.37	2.75	7.88	10,750
1	1.62	3.00	9.87	12,500
Alloy 20 (Hot Acids, High Temperature)				
.50	.81	1.75	2.35	5,250
.63	.87	2.12	3.63	9,375
.75	1.12	2.43	5.38	11,250
.88	1.37	2.75	8.02	13,500
1	1.62	3.00	10.04	15,500
Monel 400 (Caustics, Chlorinated Solvents)				
.50	.81	1.75	2.58	3,000
.63	.87	2.12	3.98	5,400
.75	1.12	2.43	5.90	6,500
.88	1.37	2.75	8.78	7,700
1	1.62	3.00	11.00	9,000
Incalloy (Extreme Temps, Sulphurics, Nitrics)				
.50	.81	1.75	2.34	4,200
.63	.87	2.12	3.62	7,500
.75	1.12	2.43	5.36	9,000
.88	1.37	2.75	7.99	10,750
1	1.62	3.00	10.02	12,500



Stainless Steel Chain Size, Heat Conditions and Working Load Limits



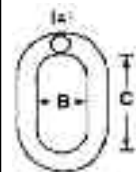
Chain size (in)	Temp. (°F)	WLL (lbs)*				Chain size (in)	Temp. (°F)	WLL (lbs)*			
		Single		Double				Single		Double	
		90°	60°	45°	30°			90°	60°	45°	30°
9/32	Room	2,000	3,460	2,830	2,000	9/32	1200°	1,345	2,330	1,900	1,345
3/8	Room	3,400	5,880	4,800	3,400	3/8	1200°	2,290	3,960	3,240	2,290
1/2	Room	6,500	11,250	9,200	6,500	1/2	1200°	4,380	7,580	6,190	4,380
9/32	800°	1,600	2,770	2,260	1,600	9/32	1400°	965	1,670	1,360	965
3/8	800°	2,720	4,700	3,840	2,720	3/8	1400°	1,645	2,850	2,320	1,645
1/2	800°	5,200	9,000	7,350	5,200	1/2	1400°	3,145	5,450	4,450	3,145
9/32	1000°	1,515	2,620	2,140	1,515	9/32	1600°	460	790	650	460
3/8	1000°	2,575	4,450	3,640	2,575	3/8	1600°	785	1,350	1,110	785
1/2	1000°	4,925	8,530	6,960	4,925	1/2	1600°	1,505	2,600	2,130	1,505

† For long-term exposure at temperatures over 1000°F., creep strength or stress-rupture strength may determine the safe load limits. For triple branch and quad branch working load limits multiply the double branch values by 1-1/2.

Stainless Steel & Specialty Chain Attachments

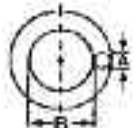
Oblong Master Link

Cat. No.	Dimensions (in)			Cap. (lbs)			Wt. Ea. (lbs)
	A	B	C	304-316 Incalloy	Alloy 20	Monel 400	
OMS38	.38	2	4	750	950	675	.42
OMS50	.50	2.50	5	2,150	2,500	1,800	.94
OMS63	.63	2.75	5.50	2,850	3,000	2,600	1.63
OMS75	.75	3	6	4,600	5,950	4,100	2.5
OMS100	1	3.50	7	7,800	9,600	6,700	5.4
OMS125	1.25	4	8	11,800	14,000	9,600	8.7
OMS150	1.50	5.25	10.50	18,600	20,600	14,400	17.8



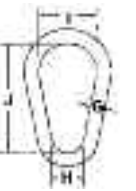
Round Master Link

Cat. No.	Dim. (in)		Cap. (lbs)			Wt. Ea. (lbs)
	A	B	304-316 Incalloy	Alloy 20	Monel 400	
RMS38	.38	2	750	950	675	.23
RMS50	.50	2.50	1,300	1,650	1,150	.62
RMS63	.63	3	1,850	2,300	1,650	1.2
RMS75	.75	4	2,800	3,600	2,500	2.0
RMS100	1	4	5,650	7,200	5,050	4.0
RMS125	1.25	5	7,650	9,800	6,900	7.8
RMS150	1.50	6	9,700	12,500	8,750	13.4



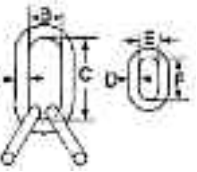
Pear Shaped Link • Stainless Steel

Cat. No.	Dimensions (in)				Wt. Ea. (lbs)
	D	E	F	G	
PMS38	.38	1	2	4	750
PMS50	.50	1.25	2.50	5	2,150
PMS63	.63	1.38	2.75	5.50	2,850
PMS75	.75	1.50	3	6	4,600
PMS100	1	2	4	8	7,800
PMS125	1.25	3	6	9	11,800
PMS150	1.50	5	7	10.50	18,600



Sub-Master Assemblies • Stainless Steel

Cat. No.	Chain Size (in)	Master			Sub-Link			Cap. 60° (lbs)
		A	B	C	D	E	F	
SS1	.19	.63	2.75	5.50	.38	.88	1.50	2,850
SS2	.25	.75	3	6	.50	1	2	4,600
SS3	.38	1	3.50	7	.75	1.50	3	7,800
SS4	.50	1.25	4	8	.88	2	3.50	11,800
SS5	.63	1.50	5.25	10.50	1.12	2.50	5	18,600



Eye Hoist Hook • Grade 18/8 Stainless Steel

Cat. No.	Dimensions (in)							WLL (lbs)	Approx. Wt. Ea. (lbs)		
	A	B	D	E	G	H	T				
RS25	1.50	.75	3.00	1	.75	.88	4.38	.81	1,250	.54	
RS38	2.13	1.13	3.63	1.13	1	1.16	5.60	4.09	1	2,650	1.1
RS50	2.50	1.25	4.09	1.25	1.13	1.31	6.44	4.69	1.19	4,500	1.7
RS62	3.06	1.56	5.06	1.53	1.44	1.63	7.97	5.79	1.44	6,000	3.5
RS75	3.88	2.00	6.50	1.97	1.88	2.06	10.13	7.32	1.88	10,000	7.3



CM Type 347 Stainless Steel Chain & Attachments

NOTE: Although the only chain recommended by NACM, ANSI and OSHA for overhead lifting is Alloy Chain (Grade 63 or Grade 80), there are occasions when use of Type 347 Stainless Steel Alloy chain with a lower working load limit will provide superior longevity in service. Type 347 Stainless Steel Chain is the preferred lifting chain in some corrosive and elevated temperature environments where the effects of corrosion or extreme heat can have an effect on Grade 63 or Grade 80 chain.

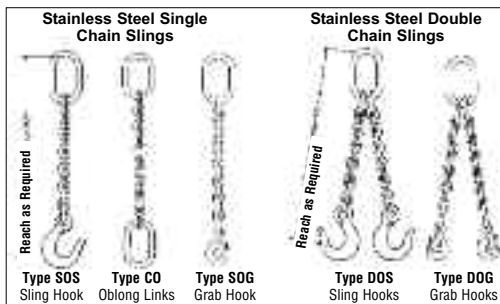
Type 347 chain is available in running lengths as well as single, double, triple & quad branch sling chains. Sling hooks and grab hooks are available. Chain is embossed SSTL.

Corrosion Resistance

- **Good:** Foodstuffs, sterilizing solutions, most organic chemicals, many inorganic chemicals, dyestuffs, nitric acid, fresh and salt water, weak sulphuric acid.
- **Poor:** Strong sulphuric acid, hydrochloric acid, chloride salts, halogens (fluorine, bromine, iodine, and chlorine).

Uses:

- Textile dye vats.
- Non-magnetic applications.
- High temperature applications.
- Nitric acid pickling baths.
- Salt or fresh water.
- Foodstuff handling.



High temperature properties

Retains considerable strength at temperatures up to 1600°F. The maximum recommended temperature for continuous service is 1000°F and for intermittent service 1600°F.

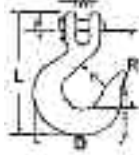
Chains & Chain Slings

Chain & Attachments

Stainless Chain Steel Attachments (continued)

Clevis Slip Hooks • Stainless Steel

Cat. No.	Chain Size (in)	WLL (lbs)	Dimensions (in)						Wt. per/100 (lbs)
			W	D	H	L	P	R	
CSS25	.25	1250	.31	2.63	0.94	3.69	.31	2.31	50
CSS31	.31	1900	.38	3.06	1.06	4.19	.38	2.56	75
CSS38	.38	2650	.44	3.50	1.25	4.88	.43	3	125
CSS50	.50	4500	.60	4.88	1.75	6.38	.56	3.94	280



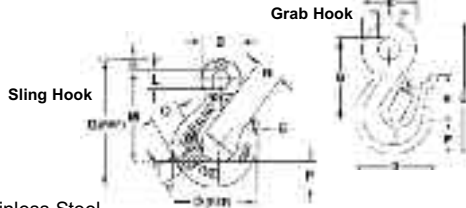
Clevis Grab Hooks • Stainless Steel

Cat. No.	Chain Size (in)	WLL (lbs)	Dimensions (in)						Wt. per/100 (lbs)
			W	D	H	L	P	R	
CGS25	.25	1250	.31	1.94	.38	3.38	.31	2	40
CGS31	.31	1900	.38	2.25	.44	3.94	.38	2.38	65
CGS38	.38	2650	.44	2.69	.50	4.50	.44	2.69	100
CGS50	.50	4500	.60	3.31	.66	5.63	.56	3.36	200



Grab Hooks • Stainless Steel

Chain Size (in)	Product Code	UPC 43927-	Dimensions (in)									Wt. Ea. (lbs)
			B	D	E	G	K	L	M	P		
9/32	450601	41515	1-9/32	2	3/8	3-7/32	29/32	17/32	2-1/32	25/32	.44	
3/8	450602	41525	1-3/4	2-11/16	1/2	4-11/32	1-5/16	25/32	2-3/4	1-3/32	1.0	
1/2	450603	41538	2-3/16	3-1/4	21/32	5-9/16	1-29/32	15/16	3-35/64	1-13/32	2.31	



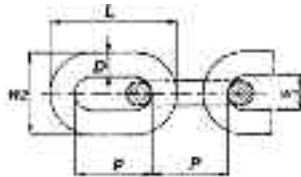
Sling Hooks • Stainless Steel

Chain Size (in)	Product Code	UPC 43927-	Dimensions (in)											Wt. Ea. (lbs)
			B	D	E	G	H	I	L	M	N	O	P	
9/32	450620	42017	1-5/8	3-5/16	1-3/8	4-19/64	3/8	25/32	3/4	3-1/16	1-1/4	1	55/64	.66
3/8	450626	45491	2-1/16	4-11/32	1-7/8	6-41/64	9/16	61/64	15/16	4-25/32	1-7/16	1-29/64	1-9/32	1.9
1/2	450627	44901	2-5/8	5-1/2	2-1/4	8-5/32	3/4	1-11/64	1-1/8	5-11/16	1-25/32	1-15/16	1-21/32	4.5

Grade 50 Type 316L Stainless Steel Sling Chain & Components

- Certified for Overhead Lifting
- Easy Assembly of Stainless Steel Chain Slings
- Popular Range of Sizes (3/16" up to 5/8")
- Recommended for Acidic, Corrosive, or Spark Resistant Environments.

Overhead Lifting Chain Grade 50/ Type 316L Stainless Steel



Dia. (in)	Grade 50 SS 316L	Work Load 4:1 G50 SS	Nom. Dia. D	Pitch P	Width		
					Inside W1 min.	Outside W2 max.	lb/ft
3/16(7/32)	Nik 5	1100	.197	.630	.295	.728	.376
9/32	Nik 7	2200	.276	.846	.374	.992	.739
3/8	Nik 10	4400	.394	1.181	.531	1.417	1.478
1/2	Nik 13	7100	.512	1.535	.689	1.842	2.553
5/8	Nik 16	11000	.630	1.890	.846	2.268	3.830

Master Link AK

Grade 50/Type 316L Stainless Steel

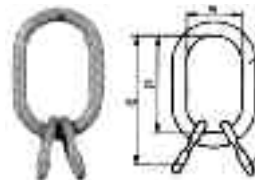


Master Link for single leg sling and 2 leg sling.

Code G 50 SS	Work Load 4:1 G50 SS	Dia.	p	w	s	Wt. lb/pc	Master Link for Chain Ø	
							1-leg	2-leg
AK 10	1900	3/8	3.15	1.97	.39	.44	3/16(7/32)	3/16(7/32)
AK 13	2900	1/2	4.33	2.36	.39	.66	9/32	-
AK 16	3800	5/8	4.33	2.36	.55	1.10	-	9/32
AK 18	4400	11/16	5.31	2.95	.55	1.76	3/8	-
AK 22	7500	7/8	6.30	3.54	.67	3.30	1/2	3/8
AK 26	12100	1	7.09	3.94	.79	5.07	5/8	1/2
AK 32	18700	1-1/4	7.87	4.33	1.02	8.60	-	5/8
AK 36	23200	1-7/16	10.24	5.51	1.14	14.00	-	-

Master Link Assemblies VK

Grade 50/Type 316L Stainless Steel

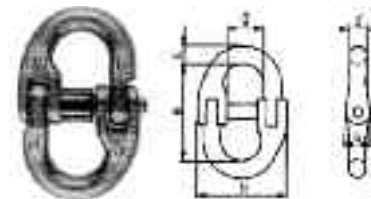


For 3- and 4-leg chain slings, also for wire rope slings.

For Chain (in)	Code G 50 SS	Work Load 4:1 G50 SS	Assy.	e	p	w	Wt. lb/pc.
9/32	VK 8	5800	AK 22 + 2 B 16	9.06	6.30	3.54	4.89
3/8	VK 10	11500	AK 26 + 2 B 18	10.43	7.09	3.94	7.47
1/2	VK 13	18500	AK 32 + 2 B 22	12.40	7.87	4.33	13.27
5/8	VK 16	23200	AK 36 + 2 B 26	15.75	10.24	5.51	22.02

Connex Connecting Link CK

Grade 50/Type 316L Stainless Steel

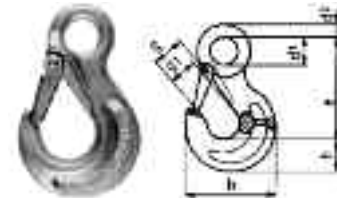


General connecting link for connection of: Master links to chain, Chain to chain, Hooks to chain

For Chain (in)	Code G 50 SS	Work Load 4:1 G50 SS	E	C	S	D	B	G	Wt. lb/pc.
9/32	CK 7	2200	2.12	.35	.55	.35	2.00	.64	.26
3/8	CK 10	4400	2.81	.53	.71	.51	2.74	.97	.73
1/2	CK 13	7100	3.62	.67	.98	.63	3.36	1.12	1.54
5/8	CK 16	11000	4.09	.83	1.26	.83	4.14	1.43	2.68

Eye Sling Hook HSK

Grade 50/Type 316L Stainless Steel



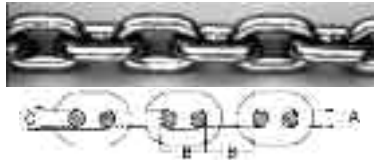
All purpose hook, also for wire rope slings

For Chain (in)	Code G 50 SS	Work Load 4:1 G50 SS	e	h	d1	d2	g	b	g1	Wt. lb/pc.
9/32	HSK 7	2200	4.09	1.10	.94	.43	1.26	3.46	1.14	1.10
3/8	HSK 10	4400	4.72	1.30	1.22	.55	1.54	4.25	1.38	2.20
1/2	HSK 13	7100	6.10	1.57	1.54	.67	1.89	5.12	1.69	4.19
5/8	HSK 16	11000	6.89	1.84	1.85	.87	2.20	6.00	1.89	6.61

Chain

Anchor Chain

316L Stainless Steel (S4)

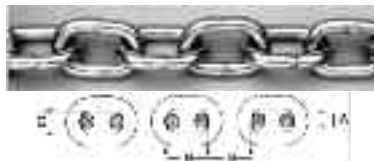


Item	Size (in)	Dim. (in)			WLL (lbs)	BL (lbs)	Wt (lbs)
		A	B	C			
S0601-0007	1/4	0.28	0.88	0.36	1,825	7,300	0.68
S0601-0008	5/16	0.32	0.96	0.40	2,400	9,600	0.91
S0601-0010	3/8	0.40	1.11	0.56	3,750	15,000	1.51
S0601-0013	1/2	0.51	1.40	0.64	6,300	25,300	2.10

Note: This chain has dimensions of "BBB" chain and fits most standard wind lasses, it also complies with all requirements of DIN 766. Other types such as G4 available on special order.

High Test Chain

316L Stainless Steel (S3)

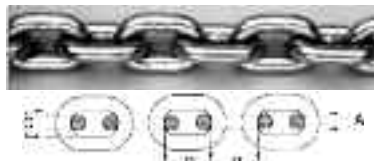


Item	Size (in)	Dim. (in)			WLL (lbs)	BL (lbs)	Wt (lbs)
		A	B	C			
S0602-0004	5/32	0.16	0.75	0.28	500	2,400	0.20
S0602-0005	3/16	0.20	0.96	0.40	930	3,750	0.35
S0602-0007	1/4	0.25	1.00	0.50	1,570	6,300	0.60
S0602-0008	5/16	0.32	1.10	0.50	2,400	9,600	0.88
S0602-0010	3/8	0.39	1.23	0.56	3,750	15,000	1.40
S0602-0013	1/2	0.48	1.50	.80	5,400	21,600	2.43
S0602-0016	5/8	0.64	1.90	1.03	9,600	38,400	3.90
S0602-0020	3/4	0.75	2.79	1.10	15,000	60,000	5.51
S0602-0025	1	1.00	3.53	1.64	23,250	93,000	7.00

Note: Most economic and commonly used chain for commercial and marine applications. Made to "Proof Coil" Dimensions

Overhead Lifting Chain

316L Stainless Steel (S5)

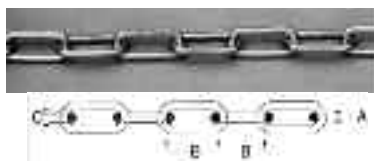


Item	Size (in)	Dim. (in)			WLL (lbs)	BL (lbs)	Wt (lbs)
		A	B	C			
S0603-0005	3/16	0.20	0.59	0.26	1,000	4,375	0.35
S0603-0007	1/4	0.24	0.71	0.33	2,100	8,575	0.60
S0603-0008	5/16	0.32	0.95	0.47	2,750	11,200	0.88
S0603-0010	3/8	0.39	1.18	0.56	4,350	17,500	1.40
S0603-0013	1/2	0.48	1.54	0.76	7,350	29,757	2.43

Note: This Grade 50 Lifting Chain is made to "Grade 80" dimensions. Never exceed working load limit. Working loads are based on gradual pull and not shock loads. Make sure all components in your assembly are overhead lifting rated and have the same working loads.

Long Link Chain

316L Stainless Steel (S6)

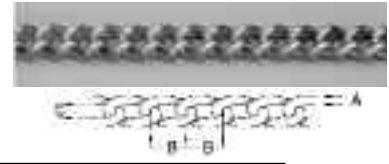


Item	Size (in)	Dim. (in)			WLL (lbs)	Wt (lbs)
		A	B	C		
S0606-0001	5/64	0.08	0.47	0.14	70	0.05
S0606-0002	3/32	0.10	0.67	0.18	130	0.09
S0606-0003	1/8	0.12	1.03	0.24	190	0.10
S0606-0005	3/16	0.20	1.39	0.40	520	0.29
S0606-0006	1/4	0.24	1.65	0.48	750	0.43

Note: Long link chain is the least expensive stainless chain. The links on average are 1.5 times longer than standard chain links. This chain complies with all requirements on DIN 5685-C.

Twist Chain

304 Stainless Steel (S8)

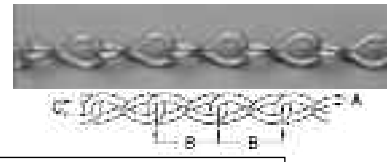


Item	Size (in)	Dim. (in)			WLL (lbs)	Wt. (lbs)
		A	B	C		
S0611-0001	5/64	0.07	0.24	0.14	70	0.06
S0611-0002	3/32	0.09	0.31	0.16	130	0.10
S0611-0003	1/8	0.11	0.48	0.20	190	0.12

Note: Ideal for decorative applications, swings, wallets and animal control.

Single Jack Chain

304/302 Stainless Steel (S9)

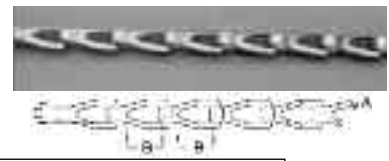


Item	Size (in)	Dim. (in)			WLL (lbs)	WT/hd. (lbs)
		A	B	C		
S0621-0000	#18	0.04	0.42	0.16	5	2
S0621-0001	#16	0.06	0.56	0.20	11	3
S0621-0002	#14	0.08	0.72	0.25	16	5
S0621-0003	#12	0.10	0.82	0.29	29	9
S0621-0004	#10	0.13	1.05	0.31	47	13

Note: Sold in 100 foot lengths only. WT/hd. = Weight per hundred feet. Ideal for lighting fixtures and novelties.

Sash Chain

302 Stainless Steel (S10)

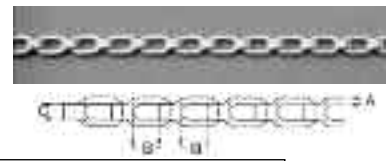


Item	Size (in)	Dim. (in)			WLL (lbs)	WT/hd. (lbs)
		A	B	C		
S0631-0001	#35	0.035	0.12	0.28	225	7
S0631-0002	#25	0.042	0.15	0.30	150	4
S0631-0003	#8	0.035	0.15	0.30	200	5

Note: Sold in 100 foot lengths only. WT/hd. = Weight per hundred feet. Ideal for smooth operations over pulleys, lighting fixtures and novelties.

Safety Chain

302 Stainless Steel (S11)



Item	Size (in)	Dim. (in)			WLL (lbs)	WT/hd. (lbs)
		A	B	C		
S0641-0001	#1	0.028	0.33	0.14	58	3
S0641-0002	2/0	0.018	0.31	0.16	31	2
S0641-0003	1/0	0.023	0.30	0.13	40	2.2

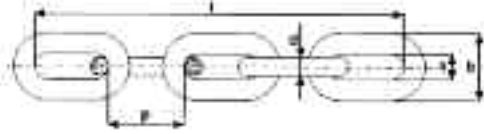
Note: Sold in 100 foot lengths only. WT/hd. = Weight per hundred feet. Ideal for fireplace fences, decorative items and to secure caps.

Chains & Chain Slings

Chain & Attachments

CONVEYOR/MINING CHAINS

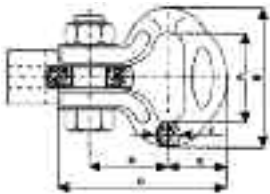
**Mining Chains –
DIN 22252-2/ISO-610-1990 (E)**



Chain can be supplied in shorter lengths. Finish: Self-colored or hot dip galvanized.

Chain Size dia. x pitch (mm)	d (mm)	p (mm)	a min. (mm)	b max. (mm)	l max. (mm)	Test Load (lbs)	Breaking Load (lbs)	Wt. lbs/ft
14 x 50	14 ^{+0.4}	50 ^{+0.5}	17	48	492	45000	56200	2.68
18 x 64	18 ^{+0.5}	64 ^{+0.6}	21	60	492	74200	92200	4.42
19 x 64.5	19 ^{+0.5}	64.5 ^{+0.6}	22	63	492	81000	101200	5.09
22 x 86	22 ^{+0.7}	86 ^{+0.9}	26	73	328	110200	137200	6.40
24 x 86	24 ^{+0.8}	86 ^{+0.9}	28	79	328	130400	161900	7.77
24 x 87.5	24 ^{+0.8}	87.5 ^{+0.9}	28	79	328	130400	161900	7.71
26 x 92	26 ^{+0.8}	92 ^{+0.9}	30	86	328	143900	191100	9.20
30 x 108	30 ^{+0.9}	108 ^{+1.1}	34	98	328	191100	254100	12.08
34 x 126	34 ^{+1.0}	126 ^{+1.3}	38	110	328	242800	326000	15.24
38 x 137	38 ^{+1.1}	137 ^{+1.4}	42	121	164	303500	404700	19.46
42 x 152	42 ^{+1.3}	152 ^{+1.5}	46	133	164	373200	500000	23.69

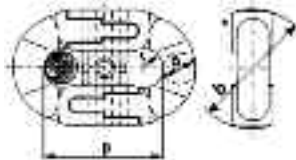
Shackles



Chain Size dia. x pitch (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	d (mm)	Test Load (lbs)	Breaking Load (lbs)	Wt. lbs/pcs
14 x 50	50	80	96.5	51	30	14	40500	50600	1.08
18 x 64	64	103	125	55	44	18	67500	83200	1.88
18 x 64 PW	64	103	125	55	44	18	74200	92200	1.88

Connecting Links

For connecting chain sections and to replace work out links. Can operate in vertical or horizontal position in pocket wheels. With sprockets: in vertical position only.



Chain Size dia. x pitch (mm)	d (mm)	p (mm)	b max. (mm)	r min. (mm)	Test Load (lbs)	Breaking Load (lbs)	Wt. lbs/pcs.
18 x 64	18 ^{+0.5}	64 ^{+0.6}	72	10	74200	92200	1.45
22 x 86	22 ^{+0.7}	86 ^{+0.9}	85	12	110200	137200	2.70
24 x 86	24 ^{+0.8}	86 ^{+0.9}	85	13	130400	161900	3.45
26 x 92	26 ^{+0.8}	92 ^{+0.9}	97	14	143900	202300	4.30
30 x 108	30 ^{+0.9}	108 ^{+1.1}	109	16	191100	258500	6.30
34 x 126	34 ^{+1.0}	126 ^{+1.3}	121	18	242800	337200	9.30
38 x 126	38 ^{+1.1}	126 ^{+1.3}	134	20	305800	416000	11.70
38 x 137	38 ^{+1.1}	137 ^{+1.4}	134	20	305800	416000	12.60
42 x 152	42 ^{+1.3}	152 ^{+1.5}	150	22	373200	500000	15.90

All Square Casehardened Security Chain



Chain Dia. (in)	Stock No.	Std. Pkg. (ft)	Wt./100 ft.	Finish
9/32	276	14827	100'	75 EG
3/8	394	11696	100'/50'	165 EG

Not for overhead lifting.

Compatible lock for 3/8" security chain offers anti-drill steel case for the ultimate protection.



CARBON-WELDED CHAIN & ATTACHMENTS

Carbon-Welded Chain

CM Grade 30 Proof Coil Chain

Low carbon steel utility chain with a wide range of general purpose uses. Self-colored (natural) finish. Links embossed every 10 inches with date code and grade appearing alternately Also available in Hot Galvanized or Bright Zinc finish.



CM Grade 43 High Test Chain

Made from a selected analysis carbon steel to provide higher tensile strength and working load limits, as well as better resistance to wear Bright (polished) finish. Links embossed every 10 inches with date code and grade appearing alternately. Also available in Hot Galvanized and Bright Zinc finish.



CM Grade 70 Binding Chain

Significantly higher tensile strength for all load binding and tie down applications, which permits you to hold a given load with the next smaller size chain than Grade 43. This increased strength-to-weight ratio means lower costs and a lighter chain, for easier storage and handling. Gold finish. Embossed every 10 inches, with date code and grade appearing alternately.



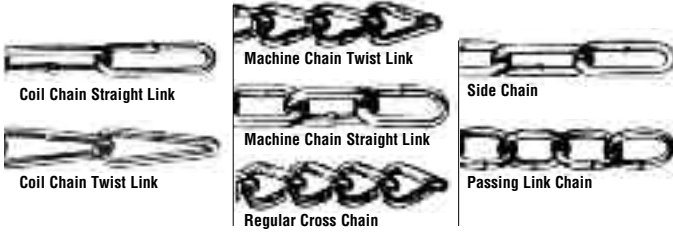
Trade Size (in)	WLL (lbs)*	Inside Length (in)	Inside Width (in)	Wt. per 100ft. (lbs)
Grade 30 Proof Coil Chain †				
3/16	750	.96	.41	33
1/4	1,250	1.01	.48	63
5/16	1,900	1.11	.50	98
3/8	2,650	1.24	.62	144
7/16	–	–	–	–
1/2	4,500	1.51	.82	278
5/8	6,900	1.88	1.01	422
3/4	9,750	2.13	1.13	606
7/8	11,375	2.52	1.38	769
1	13,950	2.77	1.51	1,069
Grade 43 High Test Chain †				
3/16	–	–	–	–
1/4	2,600	1.01	.48	71
5/16	3,900	1.11	.50	98
3/8	5,400	1.24	.62	144
7/16	–	–	–	–
1/2	9,200	1.51	.82	278
5/8	11,500	1.88	1.01	422
3/4	16,200	2.13	1.13	606
7/8	22,500	2.52	1.38	769
1	26,500	2.77	1.51	1,069
Grade 70 Binding Chain ††				
3/16	–	–	–	–
1/4	3,150	.84	.48	74
5/16	4,700	.99	.47	100
3/8	6,600	1.15	.54	157
7/16	8,750	1.30	.62	204
1/2	11,300	1.45	.73	259
5/8	–	–	–	–
3/4	–	–	–	–
7/8	–	–	–	–
1	–	–	–	–

*Caution: Working Load Limits Should not be exceeded. Note: All data approx. & subject to change. † Available in drums. †† Available in Drums, 1/2 Drums and Pail Packs.



Chain & Attachments

Carbon-Welded Chain



CHAIN STYLE	Trade Size	Fractional (in)	Decimal (in)	Length (in)	Width (in)	Links Per Foot	Wt. Per 100 Ft. (lbs)	WLL* (lbs)
Coil Chain Twist Link	4	1/8	.120	1-3/32	15/64	11	10	195
	3	9/64	.135	1-9/64	15/64	10-1/2	13	240
	2	5/32	.148	1-9/64	17/64	10-1/2	16	295
	1/0	11/64	.177	1-15/64	19/64	9-3/4	24	415
	2/0	3/16	.192	1-15/64	21/64	9-3/4	29	495
Coil Chain Straight Link	4	1/8	.120	1-9/64	15/64	10-1/2	10	205
	3	9/64	.135	1-11/64	15/64	10-1/4	13	255
	2	5/32	.148	1-11/64	9/32	10-1/4	15	310
	1/0	11/64	.177	1-15/64	5/16	9-3/4	23	440
	2/0	3/16	.192	1-19/64	11/32	9-1/4	27	520
Machine Chain Twist Link	4	1/8	.120	33/64	5/32	23-1/2	13	205
	3	9/64	.135	9/16	11/64	21-1/2	16	255
	2	5/32	.148	37/64	15/64	21	20	310
	1/0	11/64	.177	11/16	17/64	17-1/2	29	440
	2/0	3/16	.192	23/32	19/64	16-1/2	34	520
Machine Chain Straight Link	4	1/8	.120	35/64	7/32	22	12	215
	3	9/64	.135	19/32	7/32	20	15	270
	2	5/32	.148	19/32	1/4	20	19	325
	1/0	11/64	.177	47/64	5/16	16-1/2	27	465
	2/0	3/16	.192	25/32	23/64	15-1/4	32	545
Cross Chain	7/0	5/16	.312	-	-	11	94	-
	8/0	11/32	.344	-	-	9-3/4	113	-
	9/0	3/8	.375	-	-	9-1/2	142	-
	11/0	7/16	.437	-	-	7-1/2	189	-
	Side Chain	6/0	9/32	.281	1-13/16	31/64	6-5/8	58
7/0		5/16	.312	1-59/64	17/32	6-1/4	72	-
8/0		11/32	.344	1-15/16	17/32	6-1/5	88	-
9/0		3/8	.375	1-15/16	17/32	6-1/5	112	-
11/0		7/16	.437	2-3/16	21/32	5-1/2	153	-
Passing Link Chain	2/0	3/16	.192	7/8	15/32	13-5/8	33	520
	3/0	13/64	.207	7/8	15/32	13-5/8	38	605
	4/0	7/32	.218	7/8	15/32	13-5/8	43	670

* Caution: Working Load Limits should not be exceeded
 All data approximate and subject to variation
NOTE: All grades of chain on this page are not intended for use as sling or lifting chains. For overhead lifting use CM Herc-Alloy 800 Chain Slings.

Carbon-Welded Chain Assemblies:

Binder Chain Assemblies

Suitable for truckers, contractors, oil field and highway crews. Grab hook at each end permits fast, easy attachment for load binding, hauling, towing and similar applications. Available in Grade 43, 70 and 80, and a variety of sizes and lengths.



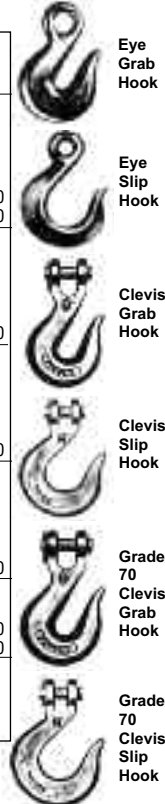
Binder Chain Assemblies*					
Trade Size (in)	Available Length (ft)	Grade 30	Grade 43	Grade 70	Grade 80
3/16	Apply	Apply	Apply	Apply	Apply
1/4	Apply	Apply	Apply	Apply	Apply
5/16	14, 16, 18, 20	1,900	3,900	4,700	-
3/8	14, 16, 18, 20	2,650	5,400	6,600	7,300
7/16	Apply	Apply	Apply	Apply	Apply
1/2	Apply	Apply	Apply	Apply	Apply
5/8	Apply	Apply	Apply	Apply	Apply
3/4	Apply	Apply	Apply	Apply	Apply
7/8	Apply	Apply	Apply	Apply	Apply
1	Apply	Apply	Apply	Apply	Apply

*Caution: Working Load Limits Should not be exceeded.
 All data approximate & subject to variation.
Note: The grades of chain on this page are not intended for use as sling of lifting chains. For overhead lifting use CM Herc-Alloy 800 Chain Slings.

Carbon-Welded Chain Attachments:

Hooks

HOOK STYLE	Hook Size	Reach (in)	For Grade 70 Chain Size	Clevis Opening (in)	Wt. Per 100 Hooks (lbs)	WLL* (lbs)
Eye Grab Hook	1/4	1-15/16	-	-	27	2,600
	5/16	2-3/8	-	-	54	4,000
	3/8	2-13/16	-	-	80	5,400
	7/16	3-5/32	-	-	132	7,200
	1/2	3-5/8	-	-	174	9,200
Eye Slip Hook	5/8	4-15/32	-	-	344	11,500
	3/4	5-3/8	-	-	610	16,200
	1/4	2-15/32	-	-	42	2,600
	5/16	2-3/4	-	-	58	3,900
	3/8	3-5/16	-	-	100	5,400
Clevis Grab Hook	7/16	3-3/4	-	-	150	7,200
	1/2	4-5/16	-	-	250	9,200
	5/8	5-5/16	-	-	370	11,500
	1/4	2	-	5/16	38	2,600
	5/16	2-3/8	-	3/8	68	3,900
Clevis Slip Hook	3/8	2-11/16	-	7/16	96	5,400
	7/16	3	-	1/2	146	7,200
	1/2	3-5/16	-	19/32	202	9,200
	5/8	4	-	3/4	376	11,500
	1/4	2-5/16	-	5/16	47	2,600
Grade 70 Clevis Grab Hook	5/16	2-9/16	-	3/8	73	3,900
	3/8	3	-	7/16	116	5,400
	7/16	3-1/2	-	1/2	195	7,200
	1/2	3-15/16	-	19/32	255	9,200
	5/8	4-3/4	-	3/4	424	11,500
Grade 70 Clevis Slip Hook	5/16	2-3/8	5/16	3/8	75	4,700
	3/8	2-5/16	3/8	7/16	110	6,600
	1/2	3-5/16	7/16	19/32	200	11,300
	5/8	4	1/2	3/4	400	17,100
	5/16	2-9/16	1/4	3/8	73	3,150
Grade 70 Clevis Slip Hook	3/8	3	5/16	7/16	116	4,700
	7/16A	3-1/2	3/8	1/2	195	6,600
	1/2A	3-15/16	7/16	19/32	280	8,750



Double Clevis (Midlinks)

Reach (in)	For Chain Size	Factory Pk. (lbs)	Wt. Per WLL* (lbs)
1-3/16	1/4 & 5/16	10	3,900
1-3/8	3/8	14	5,400
1-3/4	7/16 & 1/2	11	9,200



Quick Links

Size (in)	Inside Length (in)	Side Opening (in)	Side 100 Ea. (lbs)	Wt. Per WLL* (lbs)
3/16	1-1/2	1/4	4-1/2	750
1/4	1-3/4	9/32	8	1,250
5/16	2-5/16	3/8	17	1,900
3/8	2-7/16	7/16	23	2,650
1/2	3-3/16	19/32	51	4,500



Cold Shuts

Size (in)	Inside Length (in)	Side 100 Ea. (lbs)	Wt. Per WLL* (lbs)
3/16	11/16	3	525
1/4	13/16	6	925
5/16	1-7/16	10	1,450
3/8	1-1/4	18	2,110
7/16	1-3/8	26	2,850
1/2	1-9/16	38	3,750
5/8	2-1/4	78	5,850
3/4	2-1/2	130	8,425
7/8	3-3/8	200	11,475
1	3-7/8	325	15,000



Connecting Links

Size (in)	Inside Length (in)	Side 100 Ea. (lbs)	Wt. Per WLL* (lbs)
3/16	11/16	3	800
1/4	7/8	6	1,400
5/16	15/16	11	2,000
3/8	1-1/8	18	2,800
7/16	1-9/32	29	3,600
1/2	1-15/32	39	4,700
9/16	1-21/32	54	5,500
5/8	1-13/16	75	7,000
3/4	2-1/8	116	10,000
7/8	2-1/2	174	12,000
1	2-3/4	240	15,000



6 Chain and Slings

Chains & Chain Slings

Chain & Attachments

Repair Links

Material Size (in)	Length (in)	Wt. Per 100 Ea. (lbs)	WLL* (lbs)
1/8	3/4	1-1/8	175
3/16	1	3-1/4	225
11/32	1-1/4	4-3/4	450
1/4	1-1/4	6-3/4	425
1/4	1-1/2	7-1/4	325
1/4	2	9-3/4	325
9/32	1-1/4	8-1/4	375
5/16	1-1/2	13	675
5/16	2	17	625
3/8	1-5/8	23	1,050
3/8	2	26	1,000
1/2	2-1/2	53	1,525



Fig.1
Fig.2
† See fig.2

“S” Hooks

Hook No.	Material Size (in)	Inside Length (in)	Wt. Per 100 Pcs. (lbs)	WLL* (lbs)
20	.080	27/32	5/16	16
21	.080	11/16	1/4	16
40	.134	1-1/16	1	42
60 †	.192	1-11/16	3-3/4	75
61	.204	1-5/8	3-7/8	120
62 †	.175	1-3/8	2-1/2	95
70	.218	1-13/16	5	115
72	.225	1-1/2	4-3/4	130
80 †	.250	1-3/4	6-1/4	160
81	.250	2-1/2	8	150
84 †	.250	1-25/32	6-1/4	190
100	.312	2-1/4	11-3/4	290
120	.375	2-3/8	19-1/2	410

CM Passing Link Chain



Trade No.	Bright Finish		Zinc Plated		Mat'l (in)	Lgth. (in)	Wdth. (in)	Links Per foot	Wt. Per 100 ft (lbs)	WLL (lbs)*
	Prod. Code	UPC 43927-	Prod. Code	UPC 43927-						
2/0	623219	31104	623459	30866	3/16	7/8	15/32	13-5/8	33	450
4/0	623221	30906	623461	30912	7/32	7/8	1/2	13-5/8	43	600

NOTE: An electrically welded steel chain, the links of which are designed with the inside width greater than twice the thickness of the material, thus allowing the two adjacent links to pass in any link, reducing any tendency to kink. Weights and dimensions are approx. May be ordered bright (polished) or zinc plated. Packed 100 feet per carton. 2/0 size also available on 120 foot reels and 200 foot pails.

Carbon-Welded Tow Truck Chain Assemblies & Attachments

J hook
Sports car
Product Code D90217Z

J hook
Standard
Product Code D92800Z

J hook
Heavy Duty
Product Code M92801Z

J hook
Sports Car-Clevis Type
Product Code D90243

J hook
Standard-Clevis Type
Product Code D90283

Carbon-Weldless Chain

Weldless Chain	Trade Size	Material Dia. (in)	Inside Length (in)	Links Per Ft.	Wt. Per 100 Ft. (lbs)	WLL* (lbs)
Double Loop Chain	5	.062	.92	13	3-1/2	55
	4	.072	1.00	12	4-1/2	70
	3	.080	1.09	11	5-3/4	90
	2	.092	1.33	9	7-1/2	115
	1	.105	1.50	8	10	155
	1/0	.120	1.71	7	13	200
	2/0	.135	1.71	7	17	255
	3/0	.148	2.18	5.5	20	305
Single Loop Chain	4/0	.162	2.18	5.5	23	365
	8/0	.225	2.90	4.1	48	705
	2	.091	1.08	11.1	10	155
	1/0	.120	1.29	9.3	17	265
	2/0	.135	1.48	8.1	22	340
Single Jack Chain	3/0	.148	1.63	7.4	26	405
	4/0	.162	1.80	6.7	31	485
	5/0	.177	2.15	5.6	35	580
	18	.047	.39	31	1-3/4	5
	16	.062	.50	25	3	10
Special Well Chain	14	.080	.63	19	5	16
	12	.105	.75	16	8-3/4	29
	10	.135	.93	13	14-3/4	43
	8	.162	1.09	11	20-1/2	60
	Sash Chain	8	.035	.57	21	4
25		.042	.57	21	5	94
30		.028	.57	21	5-1/2	80
35		.035	.57	21	7	105
40		.042	.55	22	8	140
45		.050	.55	22	9-1/2	175
Safety Chain Brass	50	.062	.62	19-1/2	13	225
	2/0	.018	.44	27	2-1/4	23
	1/0	.023	.50	24	2-1/2	30
	1	.028	.60	20	3-1/4	40
3	.037	.75	16	6-1/4	75	

Carbon-Welded CM Components

T hook
Product Code D93403Z
Zinc Plated

R hook
Product Code D93420Z
Zinc Plated

Anchor Shackle
3/8" round pin anchor shackle with special lock nut

Mid-link

Trade Size (in)	Product Code
1/4 - 5/16	M605
3/8	M606
7/16 - 1/2	M608

Carbon-Welded CM Vehicle Tie-Down Assemblies

Type RG
5/16" (G43 chain)
WLL 3,900 lbs.

Ford tri-level type TGTG
5/16" (G43 chain) WLL 3,900 lbs.

Type GT
CM drawing #695440
WLL 3,900 lbs.

General Motors type RG
5/16" (G43 chain) WLL 3,900 lbs.

Aluminum Chain

Uses: Chemical processing, petroleum refining, food processing, landscaping, crowd control, wherever a non-magnetic, non-sparking chain is needed

- Suitable for applications requiring maximum resistance to atmospheric and salt water corrosion
- Standard Material: 5056 aluminum-magnesium alloy
- Standard Finish: Bright (BRT)
- Proof tested
- Packaging: Bulk order unit is "feet"
- Do not use for overhead lifting or dynamic load conditions

Trade Size (in)	Nominal Dim. (in)				UPC No. 020418	WLL (lbs)	Lb/100 (ft)	Links/ft
	Mat. Dia. (in)	Inside Dim. Length (in)	Width	Cat. No.				
17/64	.26	1.06	.37	0635211	176098	550	19	11.3
5/16	.34	1.14	.49	0635311	176104	850	36	10.5
3/8	.41	1.26	.64	0635411	176111	1200	54	9.5



Chains & Chain Slings

Chain & Attachments

Winchline Tail Chains

L-180

- Hooks are Forged-Quenched & Tempered.
- Spectrum 4[®] High Test Carbon Steel from 5/16" thru 5/8."
- Spectrum 8[®] Alloy Steel from 3/4" thru 1-1/8"
- Individually Proof Tested.

Wire Rope Diameter (in)*	Stock No.	WLL (lbs)	Length (in)	No. of Links	Wt. Each (lbs)
5/16 - 3/8	1091473	5400	18	11	3.0
1/2	1091479	9200	18	9	5.0
5/8	1091482	13000	18	7	6.2
3/4	1091491	28300	18	6	13.1
7/8	1091511	34200	24	8	18.2
1 - 1-1/8	1091516	47700	18	5	21.2
1 - 1-1/8	1091525	47700	24	7	23.3

* Recommended for IPS or XIP (EIP), RRL, FC or IWRC wire rope.



Pear Shape "Missing Link"® Replacement Links

- Forged-Quenched & Tempered.
- Has larger inside dimensions making it easier to attach hooks or other fittings to the chain.
- An exclusive Crosby product.
- After making connections, rivets must be peened.

*Ultimate load limit is 4x the Working Load Limit.

Chain Size (in)	Stock No.		WLL* (lbs)	Wt. Per 100 (lbs)	Dimensions (in)								
	G-334 Galv.	S-334 S.C.			A	B	C	D	E	F	G	H	L
3/8	1013432	1013441	1850	25.00	.41	2.00	.56	.81	2.94	1.63	.47	1.38	.81
1/2	1013450	1013469	3300	50.00	.50	2.50	.69	1.00	3.63	2.00	.56	1.69	1.00
5/8	1013478	1013487	5000	75.00	.63	2.75	.81	1.06	4.00	2.38	.63	2.06	1.13
3/4	1013496	1013502	7100	125.00	.75	3.13	1.00	1.13	4.75	2.75	.81	2.50	1.25
7/8	1013511	1013520	9600	200.00	.88	3.69	1.25	1.38	5.56	3.25	.94	3.00	1.50



"Missing Link"® Replacement Links

- Hooks are Forged-Quenched & Tempered.
- Integral rivets join the two halves.
- After making connections, rivets must be peened.

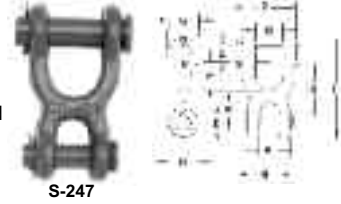
Chain Size (in)	Stock No.		WLL* (lbs)	Links Per Box	Wt. Per 100 (lbs)	Dimensions (in)						
	G-335 Galv.	S-335 S.C.				A	B	C	D	E	F	G
3/16**	1013094	1013101	800	20	2.50	.25	.69	.34	.34	1.19	.78	.28
1/4**	1013110	1013129	1325	10	6.25	.28	.88	.44	.44	1.50	1.00	.31
5/16**	1013138	1013147	1950	10	12.50	.34	.94	.47	.47	1.69	1.16	.38
3/8	1013156	1013165	2750	10	20.00	.41	1.13	.56	.56	2.06	1.38	.47
7/16	1013174	1013183	3625	10	27.50	.47	1.28	.59	.59	2.34	1.53	.53
1/2	1013192	1013209	4750	10	37.50	.53	1.47	.66	.66	2.66	1.72	.59
5/8	1013236	1013245	7250	10	72.50	.66	1.81	.78	.81	3.31	2.09	.75
3/4	1013254	1013263	10250	10	122.50	.78	2.13	.94	1.06	3.88	2.50	.88
7/8	1013272	1013281	12000	Bulk	175.00	.91	2.50	1.13	1.13	4.50	2.94	1.00
1 †	1013290	1013307	15500	Bulk	250.00	1.03	2.75	1.25	1.25	5.00	3.31	1.13

* Ultimate load is 4x the Working Load Limit
 ** Have rivets only--no interlocking lugs.
 † Has reinforced rivet holes. All sizes have countersunk rivet holes.



Double Clevis Link

- Designed for linking all popular sizes of Crosby Spectrum 3[®] and Spectrum 4[®] chain to rings, end links, eye hooks, pad eyes, tractor eyebolts, etc.
- All pins Alloy Steel - Quenched and Tempered.
- Body is forged and heat treated carbon steel.
- Features quick and easy assembly.

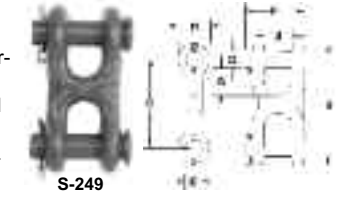


Chain Size (in)	S-247 Stock No.	WLL* (lbs)	Wt. Each (lbs)	Dimensions (in)											
				A	B	C	D	E	F	G	H	L	N	P	R
1/4	1013021	2600	.38	.50	.75	.50	.31	.38	.75	1.00	.81	2.81	1.38	1.66	1.50
5/16 - 3/8	1013049	5400	.81	.56	1.00	.63	.44	.47	1.00	1.19	1.00	3.53	1.75	2.25	1.91
7/16	1013067	7000	1.25	.69	1.13	.69	.56	.59	1.09	1.31	1.19	4.06	2.00	2.50	2.19
1/2	1013085	9200	1.56	.81	1.25	.75	.63	.66	1.25	1.44	1.31	4.53	2.25	2.75	2.47

* Ultimate Load is 4 times the Working Load Limit.

Twin Clevis Link

- Available in three popular sizes.
- Body is forged and heat treated carbon steel.
- All pins Alloy Steel - Quenched and Tempered.
- Features quick and easy assembly.
- Twin Clevis design provides a variety of uses and can be used with Crosby Spectrum 3[®], Spectrum 4 and Spectrum 7[®] chain.

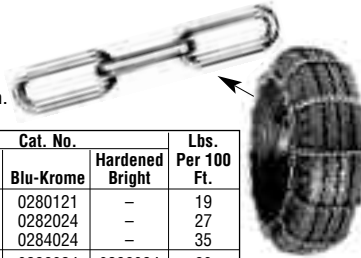


Chain Size (in)	S-249 Stock No.	WLL* (lbs)	Wt. Each (lbs)	Dimensions (in)							
				A	B	C	D	F	G	H	K
1/4-5/16	1012861	4700	.31	.47	2.50	1.56	.38	1.31	.43	.94	.50
3/8	1012889	6600	.44	.53	2.81	1.81	.44	1.53	.50	1.00	.56
7/16 - 1/2	1012905	11250	.98	.65	3.62	2.31	.56	1.91	.63	1.31	.81

TIRE CHAIN

Welded Side Chain

- Std. Packing: 100 feet per carton.

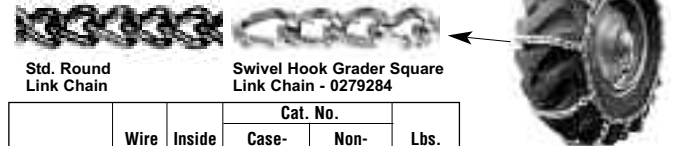


Size	Approx. Wire Dia. (in)	Inside Length (in)	Cat. No.			Lbs. Per 100 Ft.
			Bright	Blu-Krome	Hardened Bright	
#1 (.162)	5/32	1.250	-	0280121	-	19
2/0 (.192)	3/16	1.297	0282014	0282024	-	27
4/0 (.218)	7/32	1.390	0284014	0284024	-	35
6/0 (.281)	9/32	1.812	0286014	0286024	0286084	60
7/0 (.312)	5/16	1.927	0287014	0287024	0287084	74
7/0 (.312)	5/16	1.812	0287094†	-	-	78
7/0 (.312)	5/16	2.108	0287214*	-	-	71
9/0 (.375)	3/8	2.182	0289014	0289024	0289084	110
11/0 (.437)	7/16	2.320	0281114	-	0281184	149

† Extra Durable replacement side chain of alloy material.
 * Replacement side chain for grader & double ring tractor chains.

Twist Cross Chain

- Cross chain hooks are not supplied w/bulk cross chains.
- Std. packing: 100-foot lengths per carton.



Size	Wire Dia. (in)	Inside Length (in)	Cat. No.		Lbs. Per 100 Feet
			Case-Hardened* Bright	Non-Hardened Bright	
1/0 (.177)	11/64	1.343	0271084†	-	28
3/0 (.207)	13/64	.957	0273084	0273014	40
4/0 (.234)	15/64	.972	0274084	0274014	48
6/0 (.128)	9/32	1.250	0276084	0276014	73
7/0 (.312)	5/16	1.410	0277084	0277014	94
8/0 (.343)	11/32	1.259	0278084	0278014	115
9/0 (.375)	3/8	1.240	0279084	0279014	142
9/0 (.375 sq.)	3/8	1.430	0279284*	-	175
11/0 (.437)	7/16	1.578	0271184	0271114	196
14/0 (.531)	17/32	1.815	0271484	0271414	295

* Warning: Do not use this chain for lifting, pulling, tie-down, or any other use in which the chain is in tension. Extreme caution must be used when cutting case hardened chain because of the tendency for the cut links to fly away from the cutters.

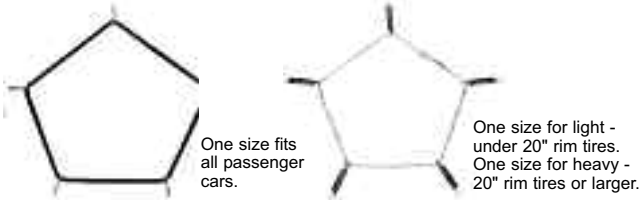
† Twist link coil chain for type PL.

Chains & Chain Slings

Chain & Attachments

Adjusters

- Std. Packing: 1 pair per individual box, except for 9110 which is packed 1 pr. per poly bag. Hooks for 9110 are packed loose.
- Order unit is "pair"



Type	To Fit	Cat. No.	Std. Pkg.	Per Lbs. Std. Pkg.
Rubber† Chain & Spring	Passenger Cars	0029110	10 Pair	6
Chain & Spring	Light Truck	0009020	12 Pair	16
Chain & Spring	Heavy Truck	0009022	12 Pair	53

† Note: We do not recommend use of rubber adjusters on 1100 Series tire chains.

Cross Chain Repair Links (Jiffy Links)

- For temporary repair only.

To Repair	Cat. No.	Unit Pack	Std. Pkg.	Order Unit
Car & Light Truck	0029109	10/CD.	10 Cds./Ctn.	† Card
Med. & Heavy Truck	0009012	6/Bx.	12 Bxs./Ctn.	Ctn. (72 pcs.)

† Must be ordered in multiples of ten cards since ten cards are packaged to a shipping carton.

NOTE: 0009012 order unit is "CTN". Show no. of "CTNs" wanted when you order.



Cross Chain Hook

To Repair Cross Chains	Hook Wire Dia.	Inside Length (in)	Cat. No.	Std. Pkg.	Lbs. Per 25 Hooks
See Cross Chain Specs. listed with each Chain	1/0 (.177)	1-1/16	0009046†	25 ea.	1.5
	3/0 (.207)	1-7/8	0009004†	25	3
	1/4 (.250)	1-11/16	0009005	25	3
	5/16 (.312)	1-11/16	0009006	25	4.75
	3/8 (.375)	1-13/16	0009007	25	6.25
	13/32 (.406)	1-11/16	0009013	25	8
	7/16 (.437)	2-5/16	0008598	Bulk	11
	7/16 (.437)	2-5/16	0008599*	Bulk	11
	7/16 (.437)	1-1/2	007795	25	6.3



*Alloy † Blu-Krome finish. All others Bright.

Side Chain Fasteners



For Side Chain Size	Fastener Cat. No.	"A" Inside Reach† (in)	Std. Pkg.	Lbs. per Std. Pkg.	E-Z Hook Cat. No.	Inside Reach† (in)	Std. Pkg.	Lbs. per Std. Pkg.
#1 (.162)	0029113*	1-1/16	10 cds††	2	0009045*	1-3/16	25 ea.	1
2/0 (.192)	0025113*	1-1/16	10 cds††	2	0009008*	1-13/16	25 ea.	3
4/0 (.218)	0009002	2-1/4	10 ea.	2.5	0009009	2-1/4	25 ea.	3
9/32"-5/16"	0009003	3	10 ea.	5	0009010	3	10 ea.	2.5
3/8" & larger	0009014	4-3/8	10 ea.	10	-	-	-	-

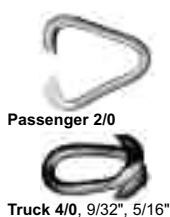
† Dimensions are for original fastener attached to side chain.

* Blu-Krome finish. All others Bright. †† Order unit is card, 2 per card.

Side Chain Repair Links

To Repair Size Chain Side	Repair Link Wire Dia. (in)	Cat. No.	Std. Pkg.	Order Unit	Lbs. Per Std. Pkg.
2/0 (.192)	3/16	0029108*	10 cds. 5/cd.	Card	2.5
2/0 (.192)	3/16	0010007*	25 ea.	Pieces	1
4/0 (.218)	1/4	0010008	25 ea.	Pieces	1.5
9/32" (.281)	9/32	0010009	25 ea.	Pieces	2
5/16" (.312)	5/16	0010010	25 ea.	Pieces	3.5

* Blu-Krome finish. All others Bright.



Chain Pliers



Type	To Repair	Unit Pack	Cat. No.	Shipper Pack	Shipper Wt. Lbs.
Medium-13" Long	Light truck Chains	Box	0010005	12 Bxs.	15
Professional-33" Long	All sizes of Passenger & truck chains	Box	0010006	1 Box	8
Replacement jaws only	For professional Pliers 001-0006	Pair	0010011	-	3/pr.
Passenger-11" Long	Passenger Chains Type PL, P & RP	Card	0029114	5 Cds.	4.7

Plastic Chain

Massive, Self-Standing Plastic Stanchion Units

Heavy-duty single or double-stranded stanchion units are designed for effective crowd control and are available in combinations of white, yellow and black, as well as in gold, silver, and black-and-yellow stripes for high visibility. Ideal anywhere self-standing stanchions are desired or required.

- Easy to set up, uncomplicated to move and quickly disassembled for compact storage.
- Maintenance-free weather-resistant plastic cannot rust or corrode and remains attractive permanently Built in ultraviolet inhibitors.
- Up to 1/2 the cost of steel stanchions, yet durable and easier to use and handle.

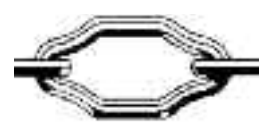
Plastic Chain for Every Purpose & Taste Available in 7 Sizes, 2 Styles & Any Color

- Lightweight yet remarkably strong because it is made of trouble-free polyethylene with 25 to 450 lb. point of break.
 - Black, white and yellow colors for immediate delivery; green, red and blue for guaranteed 2-week delivery; special colors include day glow orange, magenta, alternating yellow-black and yellow-magenta to your specs for prompt delivery (call us)... packed any way you like in poly bag, reel or bulk.
 - Maintenance-free, very durable, and fully weather resistant. Will not rust or corrode.
 - S-hooks and master links available in three sizes.
 - * Ask about our new gold or silver plated chain—for decorative use only.
- NOTE: Plastic chain is available in poly bag, reel or bulk.

OD Size Length (in)	Std. Pkg. (ft)	Wt. (lbs)	Thickness (in)	Point of Break (lbs)
3/8	500 Bulk 200 Reel	3 2	1/16	25
3/4	500 Bulk 200 Reel	7-1/2 3-1/2	1/8	50
1	500 Bulk 250 Reel	15 9	11/64	125
1-1/2	500 Bulk 200 Reel	21-1/2 10	13/64	175
2-G Gothic	500 Bulk 200 Reel	14 7	3/16	125
2	500 Bulk 125 Rel 100 Bulk	30 9-1/2 6-1/2	19/64	225
3	300 Bulk 60 Reel	42-1/2 10-1/4	7/16	475



Bold Links from 3/8" to 3"



Exclusive Gothic 2" Link



"O" Rings for use with the extension kit or for attachment of chain to one side of a stanchion as opposed to both.

"S" Hook 1", 2" or 3"

Master Link 1", 2" or 3"

Unique New C-Hooks are made to Two components which snap together. Reversing one component turns a C-Hook into an O-Ring for greater chain security