

**SECTION 6**  
**Chain and Chain Slings**

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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) | Inside length     | Inside width |                           |                            | Product code | UPC 43927- | Product code | UPC 43927- |          |
| 7/32       | 5.5  | .671              | .296         | 17.9                      | 44.7                       | 607020       | 20038      | 677010       | 20040      | 800      |
| 9/32       | 7.0  | .868              | .395         | 13.8                      | 74.2                       | 607028       | 20246      | 677011       | 20254      | 500      |
| 5/16       | 8.0  | 1.05              | .454         | 11.4                      | 90.6                       | 607031       | 20551      | —            | —          | —        |
| 3/8        | 10.0 | 1.222             | .572         | 9.8                       | 145.9                      | 607037       | 20717      | 677013       | 20725      | 500      |
| 1/2        | 13.0 | 1.404             | .720         | 8.5                       | 257.7                      | 607050       | 21038      | 677015       | 21045      | 300      |
| 5/8        | 16.0 | 1.733             | .854         | 6.9                       | 387.3                      | 607062       | 21271      | 677016       | 21279      | 200      |
| 3/4        | 20.0 | 2.160             | 1.052        | 5.5                       | 622.0                      | 607075       | 21437      | 677017       | 21441      | 100      |
| 7/8        | 22.0 | 2.250             | 1.137        | 5.3                       | 776.4                      | 607087       | 21551      | 677018       | 21554      | 100      |
| 1          | 26.0 | 2.664             | 1.348        | 4.5                       | 995.4                      | 607101       | 21626      | 677019       | 21630      | 100      |
| 1-1/4      | 32.0 | 3.250             | 1.656        | 3.7                       | 1,570.9                    | 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 | (mm) | Working load limits (lbs.) |         |         |        |         |         |         |
|------------|------|----------------------------|---------|---------|--------|---------|---------|---------|
|            |      | 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.

— continues —

## 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 on 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 | Minimum Allowable Thickness (T) |       |      |      |
|------------|---------------------------------|-------|------|------|
|            | (in)                            | (mm)  | (in) | (mm) |
| 7/32       | 5.5                             | 0.185 | 4.7  |      |
| 9/32       | 7.0                             | 0.239 | 6.1  |      |
| 3/8        | 10.0                            | 0.335 | 8.5  |      |
| 1/2        | 13.0                            | 0.435 | 11.1 |      |
| 5/8        | 16.0                            | 0.536 | 13.6 |      |
| 3/4        | 20.0                            | 0.669 | 17.0 |      |
| 7/8        | 22.0                            | 0.744 | 18.9 |      |
| 1          | 26.0                            | 0.870 | 22.1 |      |
| 1-1/4      | 32.0                            | 1.071 | 27.2 |      |



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 <sup>1</sup> | Permanent Reduction in WLL <sup>2</sup> |
|---------------------------|---------------------------------------|-----------------------------------------|
| < -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.**

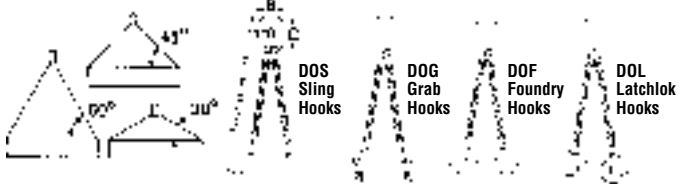
**Use only alloy chain and attachments for overhead lifting.**

### Single Chain Sling Type S & C



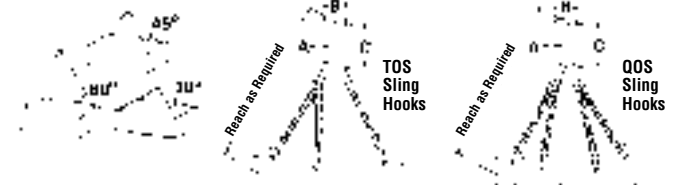
| Chain Size | WLL (lbs) | Master Link No. | Oblong Master Link Dimensions (in) |                |                 | Approx. Wt. (lbs) Type SOS 5 ft. reach |     |
|------------|-----------|-----------------|------------------------------------|----------------|-----------------|----------------------------------------|-----|
|            |           |                 | 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 | 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           | 3,000                              | 2,100          | HA40            | 13/32                                | 1-1/2 | 3      | 8   |
| 9/32       | 7         | 6,100           | 4,900                              | 3,500          | HA50            | 1/2                                  | 2-1/2 | 5      | 9   |
| 3/8        | 10        | 12,300          | 10,000                             | 7,100          | HA75            | 3/4                                  | 2-3/4 | 5-1/2  | 18  |
| 1/2        | 13        | 20,800          | 17,000                             | 12,000         | HA100           | 1                                    | 3-1/2 | 7      | 31  |
| 5/8        | 16        | 31,300          | 25,600                             | 18,100         | HA125           | 1-1/4                                | 4-3/8 | 8-3/4  | 49  |
| 3/4        | 20        | 49,000          | 40,000                             | 28,300         | HA150           | 1-1/2                                | 5-1/4 | 10-1/2 | 71  |
| 7/8        | 22        | 59,200          | 48,400                             | 34,200         | HA175           | 1-3/4                                | 6     | 12     | 98  |
| 1          | 26        | 82,600          | 67,400                             | 47,700         | HA200           | 2                                    | 7     | 14     | 132 |
| 1-1/4      | 32        | 125,200         | 102,200                            | 72,300         | HA225           | 2-1/4                                | 8     | 16     | 221 |

### Triple & Quad Chain Sling Type T & Q



| Chain Size | 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                        | 4,450                                           | 3,150          | HA50-SA         | 1/2               | 2-1/2             | 5      | 12  | 16  |
| 9/32       | 7          | 9,100                        | 7,400                                           | 5,200          | HA75-SA         | 3/4               | 2-3/4             | 5-1/2  | 14  | 18  |
| 3/8        | 10         | 18,400                       | 15,100                                          | 10,600         | HA100-SA        | 1                 | 3-1/2             | 7      | 28  | 36  |
| 1/2        | 13         | 31,200                       | 25,500                                          | 18,000         | HA125-SA        | 1-1/4             | 4-3/8             | 8-3/4  | 50  | 62  |
| 5/8        | 16         | 47,000                       | 38,400                                          | 27,100         | HA150-SA        | 1-1/2             | 5-1/4             | 10-1/2 | 79  | 97  |
| 3/4        | 20         | 73,500                       | 60,000                                          | 42,400         | HA175-SA        | 1-3/4             | 6                 | 12     | 112 | 137 |
| 7/8        | 22         | 88,900                       | 72,500                                          | 51,300         | HA200-SA        | 2                 | 7                 | 14     | 155 | 188 |
| 1          | 26         | 123,900                      | 101,200                                         | 71,500         | HA225-SA        | 2-1/4             | 8                 | 16     | 215 | 260 |
| 1-1/4      | 32         | 187,800                      | 153,400                                         | 108,400        | 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.

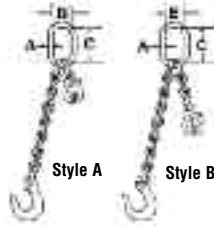
# Chain Slings

## 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<br>(in) (mm) | WLL (lbs) |        |       | Link No. | Oblong Master Link<br>Dimensions (in) |                |                 |
|-------------------------|-----------|--------|-------|----------|---------------------------------------|----------------|-----------------|
|                         | 60°       | 45°    | 30°   |          | 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             |                 |

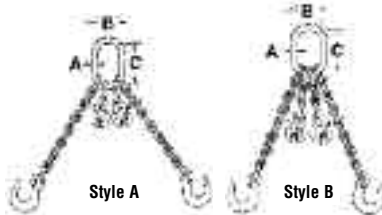


### Adjustable Double Loop Chain Sling (continued)

| Chain Size<br>(in) (mm) | WLL (lbs)* |         |         | Master Link Sub-Assembly No. | Oblong Master Link Sub-Assembly<br>Dimensions (in) |                |                 |
|-------------------------|------------|---------|---------|------------------------------|----------------------------------------------------|----------------|-----------------|
|                         | 60°        | 45°     | 30°     |                              | Dia. Material A                                    | Inside Width B | Inside Length C |
|                         |            |         |         |                              |                                                    |                |                 |
| 7/32                    | 5.5        | 5,450   | 4,450   | 3,150                        | 1/2                                                | 2-1/2          | 5               |
| 9/32                    | 7          | 9,100   | 7,400   | 5,200                        | 3/4                                                | 2-3/4          | 5-1/2           |
| 3/8                     | 10         | 18,400  | 15,100  | 10,600                       | 1                                                  | 3-1/2          | 7               |
| 1/2                     | 13         | 31,200  | 25,500  | 18,000                       | 1-1/4                                              | 4-3/8          | 8-3/4           |
| 5/8                     | 16         | 47,000  | 38,400  | 27,100                       | 1-1/2                                              | 5-1/4          | 10-1/2          |
| 3/4                     | 20         | 73,500  | 60,000  | 42,400                       | 1-3/4                                              | 6              | 12              |
| 7/8                     | 22         | 88,900  | 72,500  | 51,300                       | 2                                                  | 7              | 14              |
| 1                       | 26         | 123,900 | 101,200 | 71,500                       | 2-1/4                                              | 8              | 16              |
| 1-1/4                   | 32         | 187,800 | 153,400 | 108,400                      | 2-3/4                                              | 9              | 16              |

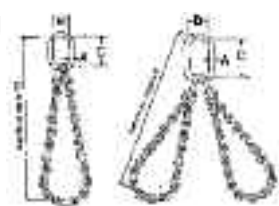
### Adjustable Double Chain Sling

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<br>(in) (mm) | WLL (lbs)* |         |         | Master Link No. | Oblong Master Link<br>Dimensions (in) |                |                 |
|-------------------------|------------|---------|---------|-----------------|---------------------------------------|----------------|-----------------|
|                         | 60°        | 45°     | 30°     |                 | Dia. Material A                       | Inside Width B | Inside Length C |
|                         |            |         |         |                 |                                       |                |                 |
| 7/32                    | 5.5        | 3,600   | 3,000   | 2,100           | 13/32                                 | 1-1/2          | 3               |
| 9/32                    | 7          | 6,100   | 4,900   | 3,500           | 1/2                                   | 2-1/2          | 5               |
| 3/8                     | 10         | 12,300  | 10,000  | 7,100           | 3/4                                   | 2-3/4          | 5-1/2           |
| 1/2                     | 13         | 20,800  | 17,000  | 12,000          | 1                                     | 3-1/2          | 7               |
| 5/8                     | 16         | 31,300  | 25,600  | 18,100          | 1-1/4                                 | 4-3/8          | 8-3/4           |
| 3/4                     | 20         | 49,000  | 40,000  | 28,300          | 1-1/2                                 | 5-1/4          | 10-1/2          |
| 7/8                     | 22         | 59,200  | 48,400  | 34,200          | 1-3/4                                 | 6              | 12              |
| 1                       | 26         | 82,600  | 67,400  | 47,700          | 2                                     | 7              | 14              |
| 1-1/4                   | 32         | 125,200 | 102,200 | 72,300          | 2-1/4                                 | 8              | 16              |

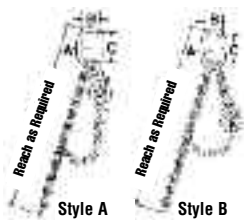
### Basket Type Chain Sling Single & Double



| Chain Size<br>(in) (mm) | WLL (lbs.)* |         | Oblong Master Link |                      |                     |                      |                  |                      |                     |                      |        |
|-------------------------|-------------|---------|--------------------|----------------------|---------------------|----------------------|------------------|----------------------|---------------------|----------------------|--------|
|                         | 60°         | 30°     | Single Basket      |                      |                     | Double Basket        |                  |                      |                     |                      |        |
|                         |             |         | Master Link No.    | Dia. Material A (in) | Inside Width B (in) | Inside Length C (in) | Sub-Assembly No. | Dia. Material A (in) | Inside Width B (in) | Inside Length C (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     |

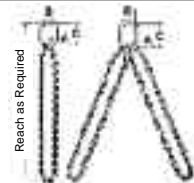
### Adjustable Single Loop Chain Sling

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



| Chain Size<br>(in) (mm) | WLL (lbs)* |         |         | Master Link No. | Oblong Master Link<br>Dimensions (in) |                |                 |
|-------------------------|------------|---------|---------|-----------------|---------------------------------------|----------------|-----------------|
|                         | 60°        | 45°     | 30°     |                 | Dia. Material A                       | Inside Width B | Inside Length C |
|                         |            |         |         |                 |                                       |                |                 |
| 7/32                    | 5.5        | 3,600   | 3,000   | 2,100           | 13/32                                 | 1-1/2          | 3               |
| 9/32                    | 7          | 6,100   | 4,900   | 3,500           | 1/2                                   | 2-1/2          | 5               |
| 3/8                     | 10         | 12,300  | 10,000  | 7,100           | 3/4                                   | 2-3/4          | 5-1/2           |
| 1/2                     | 13         | 20,800  | 17,000  | 12,000          | 1                                     | 3-1/2          | 7               |
| 5/8                     | 16         | 31,300  | 25,600  | 18,100          | 1-1/4                                 | 4-3/8          | 8-3/4           |
| 3/4                     | 20         | 49,000  | 40,000  | 28,300          | 1-1/2                                 | 5-1/4          | 10-1/2          |
| 7/8                     | 22         | 59,200  | 48,400  | 34,200          | 1-3/4                                 | 6              | 12              |
| 1                       | 26         | 82,600  | 67,400  | 47,700          | 2                                     | 7              | 14              |
| 1-1/4                   | 32         | 125,200 | 102,200 | 72,300          | 2-1/4                                 | 8              | 16              |

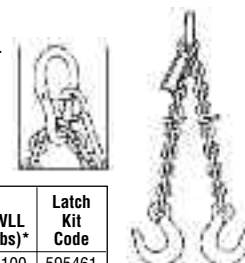
### Endless Basket Chain Sling Single & Double



| Chain Size<br>(in) (mm) | WLL (lbs.)* |        | Oblong Master Link |                 |                |                 |                     |                 |                |          |        |
|-------------------------|-------------|--------|--------------------|-----------------|----------------|-----------------|---------------------|-----------------|----------------|----------|--------|
|                         | 90°         | 60°    | Single Basket      |                 |                | Double Basket   |                     |                 |                |          |        |
|                         |             |        | Master Link No.    | Dia. Material A | Inside Width B | Inside Length C | Sub-Assembly Number | Dia. Material A | Inside Width B | Length C |        |
| 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

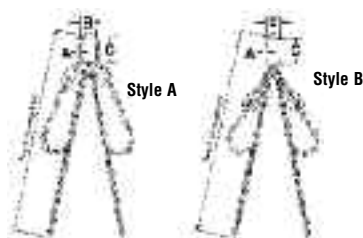
- Adjustable all-purpose utility sling.
- Lifts even/uneven loads easily.
- Lightweight & portable.
- Saves time.
- Available in 6' & 10' reach.
- Hook latch optional.



| Chain Size | Product Code | UPC 43927- | Total Length (ft) | WLL (lbs)* | Latch Kit Code |        |
|------------|--------------|------------|-------------------|------------|----------------|--------|
| 7/32       | 5.5          | 607970     | 20920             | 6          | 2100           | 595461 |
| 7/32       | 5.5          | 607973     | 20923             | 10         | 2100           | 595461 |

### Adjustable Double Loop Chain Sling

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



- continues -

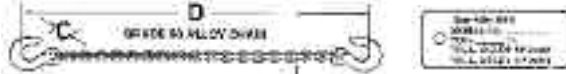
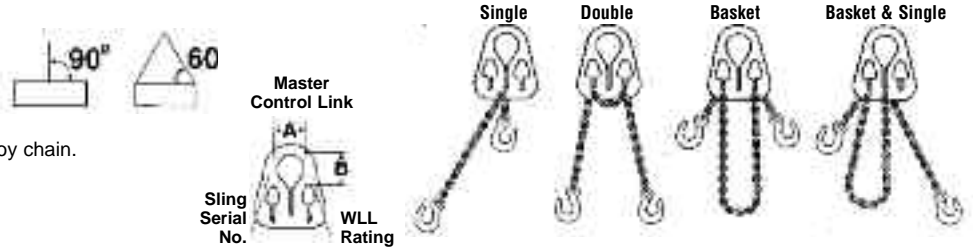
**Chains & Chain Slings**

**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.



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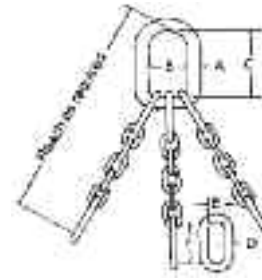
Chain and Chain Slings

**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                   |

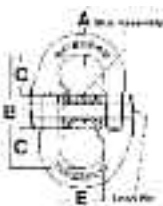
\*\*If additional reach is required, add 2 link increments to standard total reach.



**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.

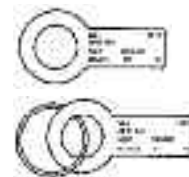
| Chain Size (in) | WLL (lbs) | Product code | UPC 43927- | Reach (in) |
|-----------------|-----------|--------------|------------|------------|
| 9/32            | 3,500     | 604261       | 32731      | 11-1/4     |
| 3/8             | 7,100     | 604262       | 32741      | 15-3/8     |
| 1/2             | 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

### Oblong Master Link



- CM Grade 80 Herc-Alloy 800
- Proof Tested

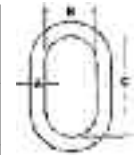
| Link no. | Product code | UPC 43927- | *† WLL (lbs) | Link size (in) |                |                 | Type & size of chain sling on which used |               |               |             | Wt. Each (lbs) |
|----------|--------------|------------|--------------|----------------|----------------|-----------------|------------------------------------------|---------------|---------------|-------------|----------------|
|          |              |            |              | Material A     | Inside width B | Inside length C | Single Type S&C                          | Double Type D | Triple Type T | Quad Type Q |                |
| HA40     | 554931       | 23327      | 3,600        | 13/32          | 1-1/2          | 3               | 7/32                                     | 7/32          | -             | -           | .33            |
| HA50     | 554932       | 23328      | 6,100        | 1/2            | 2-1/2          | 5               | 9/32                                     | 9/32          | 7/32          | 7/32        | .8             |
| HA75     | 554935       | 23329      | 12,300       | 3/4            | 2-3/4          | 5-1/2           | 3/8                                      | 9/32          | 9/32          | 9/32        | 2.1            |
| HA100    | 554938       | 23330      | 20,800       | 1              | 3-1/2          | 7               | 1/2 or 5/8                               | 1/2           | 3/8           | 3/8         | 4.6            |
| HA125    | 554940       | 23331      | 31,300       | 1-1/4          | 4-3/8          | 8-3/4           | 3/4                                      | 5/8           | 1/2           | 1/2         | 9.2            |
| HA150    | 554943       | 23333      | 49,000       | 1-1/2          | 5-1/4          | 10-1/2          | 7/8                                      | 3/4           | 5/8           | 5/8         | 15.7           |
| HA175    | 554946       | 23335      | 73,500       | 1-3/4          | 6              | 12              | 1                                        | 7/8           | 3/4           | 3/4         | 24.5           |
| HA200    | 554949       | 23337      | 88,900       | 2              | 7              | 14              | 1-1/4                                    | 1             | 7/8           | 7/8         | 37.3           |
| HA225    | 554951       | 23339      | 125,200      | 2-1/4          | 8              | 16              | -                                        | 1-1/4         | 1             | 1           | 54.0           |
| HA275    | 554957       | 23342      | 187,800      | 2-3/4          | 9              | 16              | -                                        | -             | 1-1/4         | 1-1/4       | 84.8           |

† Working load limit of master link only.

### Oblong Master Link – Special Sizes

- CM Grade 80 Herc-Alloy 800
- Special Sizes
- Proof Tested
- Heat Treated

| Dia. (in) | Product code | UPC 43927- | WLL (lbs)*† | Dim. (in) |    |    | Approx. Wt. each (lbs) |
|-----------|--------------|------------|-------------|-----------|----|----|------------------------|
|           |              |            |             | A         | B  | C  |                        |
| 1         | 554969       | 23345      | 18,200      | 1         | 4  | 8  | 5.3                    |
| 1-1/4     | 554942       | 23332      | 22,800      | 1-1/4     | 6  | 12 | 12.1                   |
| 1-1/2     | 554970       | 23346      | 42,900      | 1-1/2     | 6  | 12 | 17.6                   |
| 1-1/2     | 554944       | 23334      | 36,700      | 1-1/2     | 7  | 14 | 20.7                   |
| 1-3/4     | 554945       | 23359      | 63,000      | 1-3/4     | 7  | 14 | 27.9                   |
| 2         | 554952       | 23340      | 77,800      | 2         | 8  | 16 | 41.9                   |
| 2-1/2     | 554954       | 23341      | 147,300     | 2-1/2     | 8  | 16 | 67.0                   |
| 3         | 554958       | -          | 228,000     | 3         | 9  | 18 | 111.0                  |
| 3-1/4     | 554959       | -          | 262,200     | 3-1/4     | 10 | 20 | 144.0                  |
| 3-1/2     | 554960       | -          | 279,000     | 3-1/2     | 12 | 24 | 197.0                  |



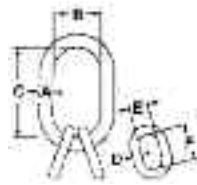
† Working load limit of master link only.

### Oblong Master Link Sub-Assembly\*\*

- CM Grade 80 Herc-Alloy 800
- For triple & quad branch chain slings
- Proof tested

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

| HA Chain (in) | Sub-Assembly No. | Product code | UPC 43927- | Oblong master link size (in) |       |        | Master coupling link size (in) |       |        | Wt. (lbs) |
|---------------|------------------|--------------|------------|------------------------------|-------|--------|--------------------------------|-------|--------|-----------|
|               |                  |              |            | A                            | B     | C      | D                              | E     | F      |           |
| 7/32          | HA50-SA          | 554974       | 23575      | 1/2                          | 2-1/2 | 5      | 11/32                          | 5/8   | 1-1/8  | 1.0       |
| 9/32          | HA75-SA          | 554975       | 23576      | 3/4                          | 2-3/4 | 5-1/2  | 15/32                          | 7/8   | 1-9/16 | 2.6       |
| 3/8           | HA100-SA         | 554976       | 23577      | 1                            | 3-1/2 | 7      | 21/32                          | 1-1/4 | 2-1/4  | 6.1       |
| 1/2           | HA125-SA         | 554977       | 23578      | 1-1/4                        | 4-3/8 | 8-3/4  | 29/32                          | 1-3/4 | 3-1/8  | 13.3      |
| 5/8           | HA150-SA         | 554978       | 23579      | 1-1/2                        | 5-1/4 | 10-1/2 | 1-5/32                         | 2-1/4 | 4      | 24.3      |
| 3/4           | HA175-SA         | 554979       | 23580      | 1-3/4                        | 6     | 12     | 1-9/32                         | 2-3/8 | 4-3/8  | 36.1      |
| 7/8           | HA200-SA         | 554980       | 23581      | 2                            | 7     | 14     | 1-17/32                        | 2-3/4 | 5-1/4  | 57.4      |
| 1             | HA225-SA         | 554981       | 23582      | 2-1/4                        | 8     | 16     | 1-25/32                        | 3     | 6      | 83.9      |
| 1-1/4         | HA275-SA         | 554983       | 23583      | 2-3/4                        | 9     | 16     | 2-1/32                         | 3-1/2 | 7      | 129.7     |



### Welded Coupling Link

- CM Grade 80 Herc-Alloy 800
- Proof Tested

| Chain Size (in) | Dimensions (in) |       |        |
|-----------------|-----------------|-------|--------|
|                 | D               | E     | F      |
| 9/32            | 11/32           | 5/8   | 1-1/8  |
| 3/8             | 15/32           | 7/8   | 1-9/16 |
| 1/2             | 21/32           | 1-1/4 | 2-1/4  |
| 5/8             | 25/32           | 1-1/2 | 2-5/8  |
| 3/4             | 29/32           | 1-3/4 | 3-1/8  |
| 7/8             | 1-1/32          | 2     | 3-1/2  |
| 1               | 1-5/32          | 2-1/4 | 4      |
| 1-1/8*          | 1-9/32          | 2-3/8 | 4-3/8  |
| 1-1/4           | 1-17/32         | 2-3/4 | 5-1/4  |
| 1-1/2**         | 1-25/32         | 3     | 6      |
| -               | 1-25/32         | 3-1/2 | 7      |
| -               | 2-1/32          | 3-1/2 | 7      |



\*\*Non-stock item.

### Pear-Shaped Master Link

- CM Grade 80 Herc-Alloy 800
- Proof Tested



† Working load limit of master link only.

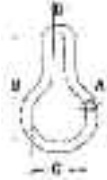
| Link No. | *† WLL (lbs) | Product Code | UPC 43927- | Dimensions (in) |       |       |        | Type & Size of Chain Sling on Which Used |       | Wt. Ea. (lbs) |
|----------|--------------|--------------|------------|-----------------|-------|-------|--------|------------------------------------------|-------|---------------|
|          |              |              |            | G               | H     | I     | J      | S&C                                      | D     |               |
| HA51     | 6,100        | 554702       | 23403      | 1/2             | 1-1/4 | 2-1/2 | 5-5/16 | 9/32                                     | 9/32  | .8            |
| HA79     | 12,300       | 554706       | 23405      | 3/4             | 2     | 2-3/4 | 5-5/8  | 3/8                                      | 3/8   | 2.1           |
| HA103    | 20,800       | 554710       | 23408      | 1               | 2-5/8 | 3-1/2 | 7-1/4  | 1/2 or 5/8                               | 1/2   | 4.6           |
| HA129    | 31,300       | 554714       | 23410      | 1-1/4           | 3-1/4 | 4-5/8 | 8-3/4  | 3/4                                      | 5/8   | 9.2           |
| HA153    | 49,000       | 554719       | 23413      | 1-1/2           | 3-7/8 | 5-1/4 | 10-1/2 | 7/8                                      | 3/4   | 15.3          |
| HA179    | 59,200       | 554723       | 23414      | 1-3/4           | 4-1/2 | 6     | 12     | 1                                        | 7/8   | 23.9          |
| HA201    | 82,600       | 554726       | 23415      | 2               | 3-1/2 | 7     | 14     | 1-1/4                                    | 1     | 35.9          |
| HA229    | 125,200      | 554731       | 23416      | 2-1/4           | 6     | 8     | 16     | -                                        | 1-1/4 | 52.8          |

### Grab Link

- CM Grade 80 Herc-Alloy 800
- Proof Tested

| Chain Size (in) | WLL (lbs) | Product code | UPC 43927- | Dimensions (in) |        |       |       | Wt. Each (lbs) |
|-----------------|-----------|--------------|------------|-----------------|--------|-------|-------|----------------|
|                 |           |              |            | A               | B      | C     | D     |                |
| 9/32            | 3,500     | 554320       | 23782      | 1/2             | 5-1/2  | 2-1/2 | 37/64 | .79            |
| 3/8             | 7,100     | 554326       | 23783      | 3/4             | 6-1/16 | 2-3/4 | 5/8   | 2.1            |
| 1/2             | 12,000    | 554332       | 23785      | 1               | 7-5/8  | 3-1/2 | 3/4   | 4.6            |
| 5/8             | 18,100    | 554337       | 23786      | 1-1/4           | 9-1/4  | 4-3/8 | 1     | 9.2            |
| 3/4             | 28,300    | 554342       | 23787      | 1-3/8           | 11-1/4 | 6     | 1-1/8 | 14.3           |
| 7/8             | 34,200    | 554347       | 20291      | 1-1/2           | 11-3/4 | 5-1/4 | 1-3/8 | 16.8           |
| 1               | 47,700    | 554352       | 23788      | 1-3/4           | 13-3/4 | 7     | 1-1/2 | 26.7           |
| 1-1/4           | 72,300    | 554362       | 20292      | 2-1/4           | 17-1/2 | 9     | 2-1/4 | 57.2           |

NOTE: Although CM can supply these types of master links and rings, the oblong link is recommended for general use.



### Master Ring

- CM Grade 80 Herc-Alloy 800
- Proof Tested

† Working load limit of master link only.

| Product code | UPC 43927- | *† WLL (lbs.) | Ring size (in)  |                       | Type & Size of Chain Sling on Which Used |               |               |             | Wt. Each (lbs) |
|--------------|------------|---------------|-----------------|-----------------------|------------------------------------------|---------------|---------------|-------------|----------------|
|              |            |               | Dia. Material K | Inside Dia. of Ring L | Single Type S&C                          | Double Type D | Triple Type T | Quad Type Q |                |
| 554611       | 23494      | 3,500         | 1/2             | 2-1/2                 | 9/32                                     | -             | -             | -           | .5             |
| 554613       | 23495      | 6,100         | 5/8             | 3                     | -                                        | 9/32          | -             | -           | 1.0            |
| 554615       | 23496      | 9,100         | 3/4             | 4                     | 3/8                                      | -             | 9/32          | 9/32        | 1.8            |
| 554617       | 23497      | 12,300        | 7/8             | 4                     | -                                        | 3/8           | -             | -           | 2.6            |
| 554619       | 23499      | 18,400        | 1               | 4                     | 1/2                                      | -             | 3/8           | 3/8         | 3.4            |
| 554623       | 23502      | 20,800        | 1-1/4           | 5                     | 5/8 or 3/4                               | 1/2           | -             | -           | 6.9            |
| 554627       | 23504      | 31,300        | 1-1/2           | 6                     | 7/8                                      | 5/8           | 1/2           | 1/2         | 11.7           |
| 554630       | 23506      | 49,000        | 1-3/4           | 7                     | 1                                        | 3/4           | 5/8           | 5/8         | 18.6           |
| 554635       | 23509      | 73,500        | 2               | 8                     | -                                        | 7/8           | 3/4           | 3/4         | 27.9           |
| 554636       | 23510      | 88,900        | 2-1/4           | 9                     | 1-1/4                                    | 1             | 7/8           | 7/8         | 39.9           |

### Clevlok® Grab Hooks

Columbus McKinnon is now offering traditional style Grade 80 alloy steel clevis grab hooks for lifting applications.

Available in popular sizes 9/32" to 5/8" for use on CM Herc-Alloy® 800 chain.

These hooks offer CM's Clevlok® style clevis for durability and ease of use.



| Prod Code | Size (in) | Desc.                                 | WLL* (lbs) | Finish         | Wt. (lbs) |
|-----------|-----------|---------------------------------------|------------|----------------|-----------|
| 659232    | 9/32      | Herc-Alloy Grade 80 Clevlok Grab Hook | 3,500      | Painted Orange | .7        |
| 659235    | 3/8       | Herc-Alloy Grade 80 Clevlok Grab Hook | 7,100      | Painted Orange | 2.0       |
| 659238    | 1/2       | Herc-Alloy Grade 80 Clevlok Grab Hook | 12,000     | Painted Orange | 3.8       |
| 659239    | 5/8       | Herc-Alloy Grade 80 Clevlok Grab Hook | 18,100     | Painted Orange | 6.5       |

\*Working Load Limit

**Chains & Chain Slings**

**Attachments**

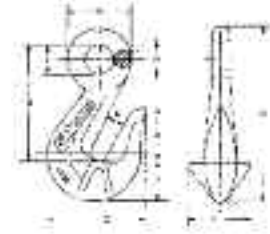
**CM GRADE 80 – HERC-ALLOY 800–WELDED – OVERHEAD LIFTING CHAIN AND CHAIN SLINGS**

**Cradle Grab Hook**

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

| Chain Size<br>(in) | WLL<br>(lbs) | Product<br>code | UPC<br>43927- | Dimensions (in) |      |      |      |       |      |      |      |      |       |      |       | Wt. Ea.<br>(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<br>(in) | WLL<br>(lbs) | Product<br>Code | UPC<br>43927- | Dimensions (in) |      |       |      |       |      |      |      |      |       |      |      | Wt. Ea.<br>(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 |

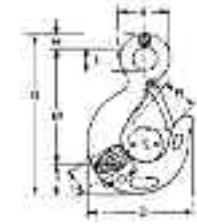
\*\* Available from stock with/without latch. Replacement latch kits are also available. User must determine if latch is required on the hook.



**Sling Hook with Latch**

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

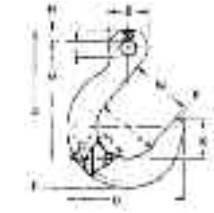
| Chain size<br>(in) | WLL<br>(lbs) | Product<br>Code | UPC<br>43927- | Dimensions (in) |      |       |       |      |      |      |       |      |      |      |      | Wt. Ea.<br>(lbs) |
|--------------------|--------------|-----------------|---------------|-----------------|------|-------|-------|------|------|------|-------|------|------|------|------|------------------|
|                    |              |                 |               | 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 | 3.75  | 1.20 | 1.05 | 1.06 | 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

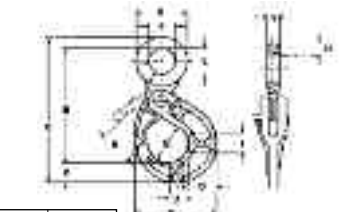
| Chain Size<br>(in) | WLL<br>(lbs) | Product<br>code | UPS<br>43927- | Dimensions (in) |      |       |      |       |      |      |      |      |       |      |      | Wt. Ea.<br>(lbs) |      |
|--------------------|--------------|-----------------|---------------|-----------------|------|-------|------|-------|------|------|------|------|-------|------|------|------------------|------|
|                    |              |                 |               | 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<br>(in) | WLL<br>(lbs) | Product<br>Code | UPC<br>43927- | Dimensions (in) |         |        |        |         |       |         |       |        |        |        |        |         |        |       |       | Wt. Ea.<br>(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 |                  |



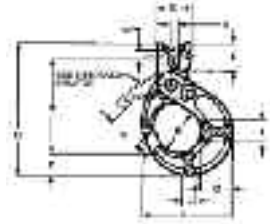


# Attachments

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

### Clevlok Latchlok Hook

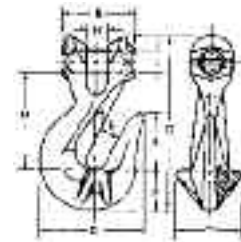
- CM Grade 80 Herc-Alloy 800
- 100% Proof Tested
- Alloy steel, forged & heat treated.
- Rated for grade 80 Herc-Alloy chain.
- Join directly to chain. No need for coupling links.
- Recessed push button release. Will not open accidentally, even when chain goes slack.
- Smooth contour prevents hooks snagging.



| 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) | (mm) | 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) | (mm) | 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) | (mm) | 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 |

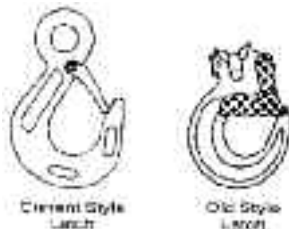
Replacement load pins and retainer pins available.



### 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

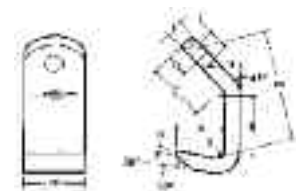
- CM Grade 80 Herc-Alloy 800
- 100% Proof Tested

| 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.

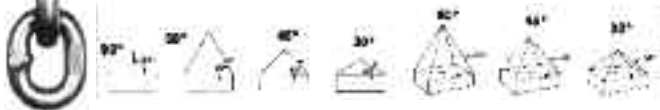
**Chains & Chain Slings**

# 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

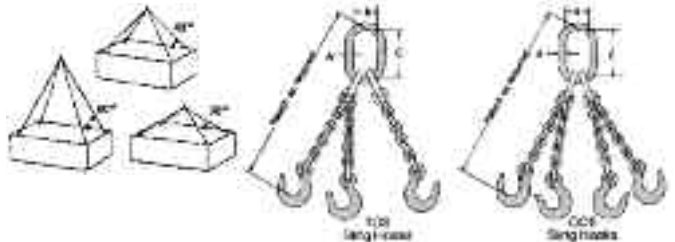
| Chain Size (in) | Nom. Dim. (in) |              | Approx. No. Links Per Ft. | Approx. Weight Per 100 ft. (lbs) | Per Foot Prod. Code | Drum Prod. Code | Feet Per Drum |
|-----------------|----------------|--------------|---------------------------|----------------------------------|---------------------|-----------------|---------------|
|                 | 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°                 | Double 45° |        | Triple & Quad |        |        |
|                 |                            | 90°        | 60°    | 45°           | 60°    | 45°    |
| 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 |

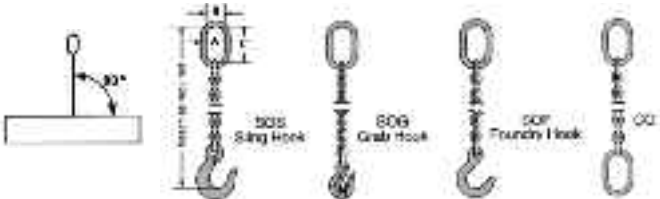
## CM Triple & Quad Chain Sling Type T & Q

**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

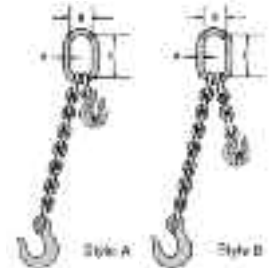


| Chain Size (in) | WLL (lbs)* | Oblong Master Link / Dim. (in) |                |                 | Approx. Wt. (lbs) Type SOS 5 ft. Reach |
|-----------------|------------|--------------------------------|----------------|-----------------|----------------------------------------|
|                 |            | 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                                     |

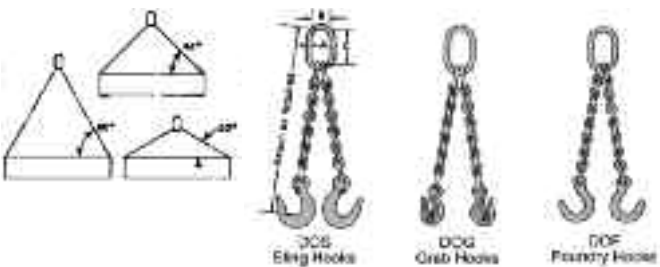
## CM Adjustable Single Chain Sling

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

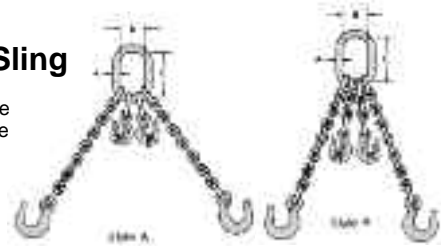


| Chain Size (in) | WLL (lbs)* |        |        | Oblong Master Link / Dim. (in) |                |                 | Approx. Wt. (lbs) Type DOS 5' Reach |
|-----------------|------------|--------|--------|--------------------------------|----------------|-----------------|-------------------------------------|
|                 |            |        |        | Dia. Material A                | Inside Width B | Inside Length C |                                     |
|                 | 60°        | 45°    | 30°    |                                |                |                 |                                     |
| 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 |
|                 | 60°        | 45°    | 30°    |                                |                |                 |
| 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              |



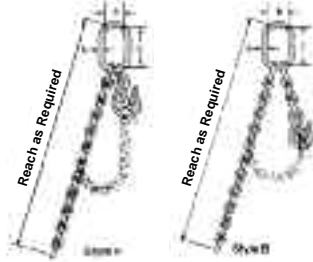
**!WARNING: Do not exceed Working Load Limit.**

## Chain Slings

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

#### CM Adjustable Single Loop Chain Sling

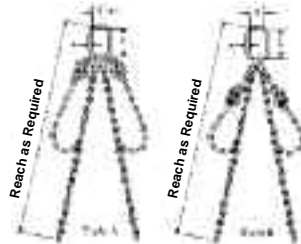
Style B furnished with approx. one (1) foot of chain in short branches.



| 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 | 1-1/4                        | 3-1/2        | 7             |
| 5/8             | 39,100     | 32,000 | 22,600 | 1-1/2                        | 4-3/8        | 8-3/4         |
| 3/4             | 61,100     | 49,900 | 35,300 | 1-1/2                        | 5-1/4        | 10            |

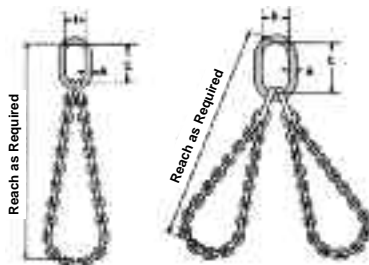
#### CM Adjustable Double Loop Chain Sling

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



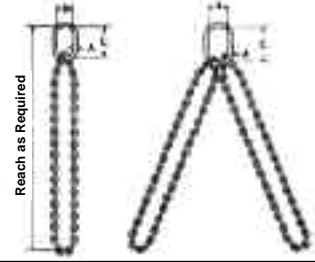
| Chain Size (in) | WLL (lbs)* |        |        | Oblong Master Link Sub-Assembly/Dim. (in) |              |               |
|-----------------|------------|--------|--------|-------------------------------------------|--------------|---------------|
|                 | 60°        | 45°    | 30°    | 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

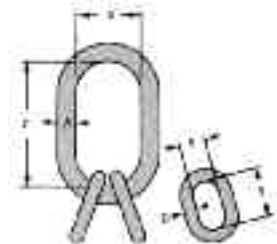


| Prod. Code | WLL (lbs)*† | Link Size (in)  |                |                 | Type & Size of Chain Sling on Which Used |               |               |             | Wt. Each (lbs) |
|------------|-------------|-----------------|----------------|-----------------|------------------------------------------|---------------|---------------|-------------|----------------|
|            |             | 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.

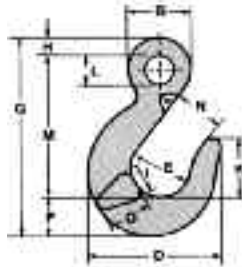
**Chains & Chain Slings**

**Chain Slings**

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

**CM Sling Hook\*\*  
Without Latch**

–100% Proof Tested



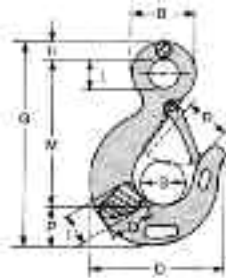
| Chain Size (in) | WLL (lbs)* | Prod. Code     | Wt. Ea. (lbs) |
|-----------------|------------|----------------|---------------|
| 7/32            | 2,700      | Use 9/32" Hook |               |
| 9/32            | 5,700      | 458622         | 1.1           |
| 3/8             | 8,800      | 458625         | 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**

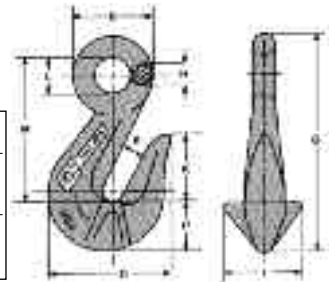
Kit includes all hardware for easy installation on CM eye & Clevlok sling hooks.

| 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

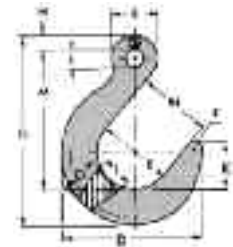


| Chain Size (in) | WLL (lbs)* | Prod. Code     | Wt. Ea. (lbs) |
|-----------------|------------|----------------|---------------|
| 7/32            | 2,700      | Use 9/32" Hook |               |
| 9/32            | 4,300      | 559725         | .55           |
| 3/8             | 8,800      | 559737         | 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



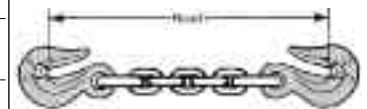
| Chain Size (in) | WLL (lbs)* | Prod. Code | Wt. Ea. (lbs) |
|-----------------|------------|------------|---------------|
| 9/32            | 5,700      | 474798     | 2.4           |
| 3/8             | 8,800      | 474799     | 4.5           |
| 1/2             | 15,000     | 474800     | 7.1           |
| 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:

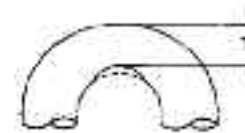
- It is important both to inspect chain slings regularly and to keep a record of all chain inspections. Follow this guide for such an inspection system.
- Before inspecting, clean chains with a non-acid/non-caustic solvent so that marks, nicks, wear and other defects are visible.
  - Inspect each link 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

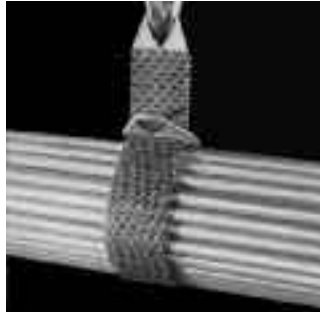
GRIPPER Slings can be manufactured of special alloys to meet operating conditions involving elevated temperatures or corrosive materials.

**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.



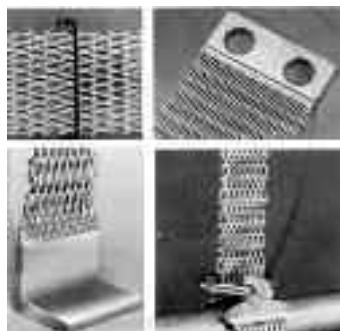
Clear, urethane plastic-covered slings also provide flexibility and long life, free of attack by weak nitric, hydrofluoric, sulphuric, hydrochloric acids and sodium hydroxide.

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:

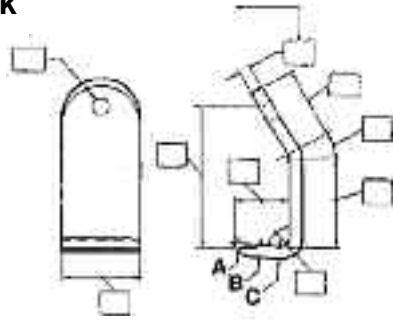
- When the exact load weight is in doubt.
- When there is a possibility of mechanical shock or jerking.
- When conditions are abnormal or severe.
- When there is exceptional hazard to personnel.
- Slings should not be used in pairs unless vertically attached to a spreader beam.
- Special care should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

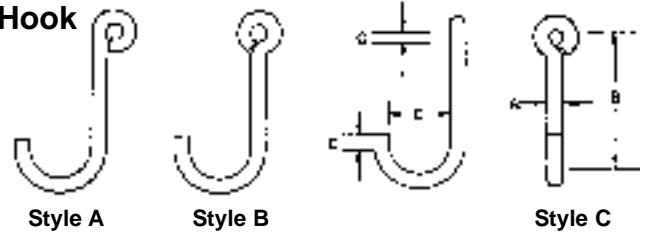
**Special Plate Hook**



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: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**J-Hook**



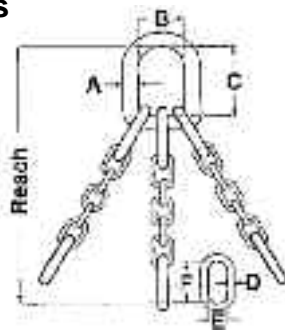
"A" \_\_\_\_\_  
 "B" \_\_\_\_\_  
 "C" \_\_\_\_\_  
 "D" \_\_\_\_\_  
 "E" \_\_\_\_\_  
 Capacity \_\_\_\_\_  
 Style \_\_\_\_\_

| 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.

**Chain Slings for Magnets**

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



**SPECIAL ASSEMBLY DIMENSIONS**

Working Load: \_\_\_\_\_  
 Chain Size: \_\_\_\_\_  
 Reach: \_\_\_\_\_

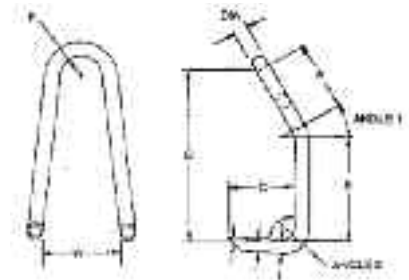
**MASTER LINK**

"A" Material Dia: \_\_\_\_\_  
 "B" Width: \_\_\_\_\_  
 "C" Length: \_\_\_\_\_

**END LINK**

"D" Material: \_\_\_\_\_  
 "E" Width: \_\_\_\_\_  
 "F" Length: \_\_\_\_\_

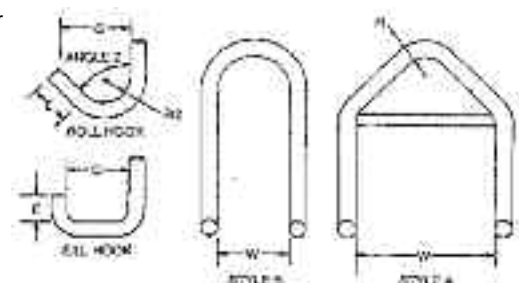
**Stirrup**



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

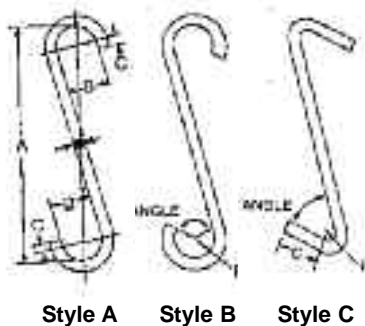
**Stirrup Hook Options**

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



**S-Hook**

"A" \_\_\_\_\_  
 "B" \_\_\_\_\_  
 "C" \_\_\_\_\_  
 "R" \_\_\_\_\_  
 Angle \_\_\_\_\_  
 Capacity \_\_\_\_\_  
 Style \_\_\_\_\_





# Chain & Attachments

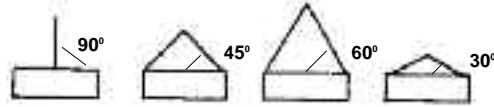
## STAINLESS STEEL CHAIN & ATTACHMENTS

### 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     |
| Incolloy (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



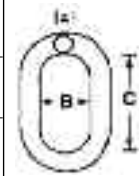
| Chain size (in) | Temp. (°F) | WLL (lbs)* |        |        |       | Chain size (in) | Temp. (°F) | WLL (lbs)* |       |        |       |
|-----------------|------------|------------|--------|--------|-------|-----------------|------------|------------|-------|--------|-------|
|                 |            | 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

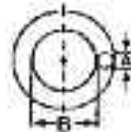
#### Oblong Master Link

| Cat. No. | Dimensions (in) |      |       | Cap. (lbs)       |          |           | Wt. Ea. (lbs) |
|----------|-----------------|------|-------|------------------|----------|-----------|---------------|
|          | A               | B    | C     | 304-316 Incolloy | 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 Incolloy | 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          |



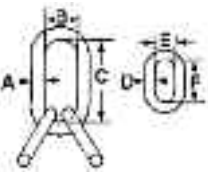
#### Pear Shaped Link • Stainless Steel

| 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.

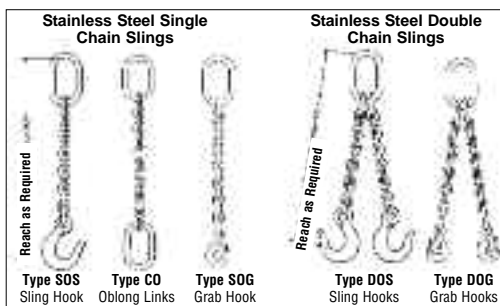
Type 347 chain is available in running lengths as well as single, double, triple & quad branch sling chains. Sling hooks and grab hooks are available. Chain is embossed SSTL.

#### 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.

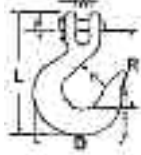
**Chains & Chain Slings**

**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               |

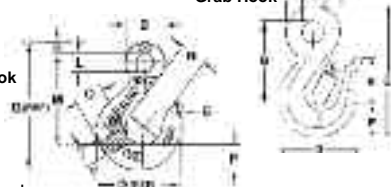


**Grab Hooks • Stainless Steel**

| 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 |               |

Grab Hook

Sling Hook



**Sling Hooks • Stainless Steel**

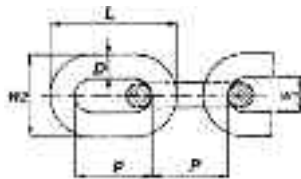
| Chain Size (in) | Product Code | UPC 43927- | Dimensions (in) |         |       |         |      |         |       |         |         |         |         | Wt. Ea. (lbs) |
|-----------------|--------------|------------|-----------------|---------|-------|---------|------|---------|-------|---------|---------|---------|---------|---------------|
|                 |              |            | 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           |

6 Chain and Chain Slings

**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

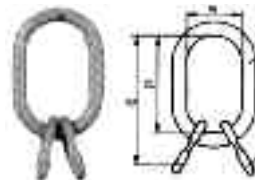


Master Link for single leg sling and 2 leg sling.

| 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

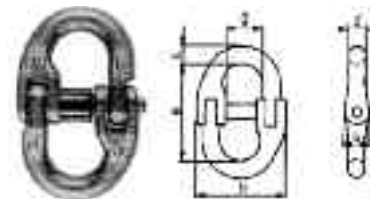


For 3- and 4-leg chain slings, also for wire rope slings.

| 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

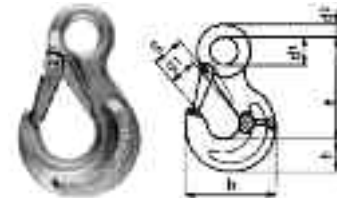


General connecting link for connection of: Master links to chain, Chain to chain, Hooks to chain

| For Chain (in) | Code G 50 SS | Work Load 4:1 G 50 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

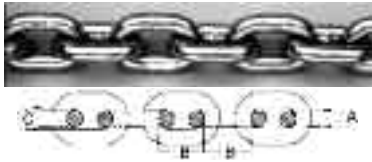


All purpose hook, also for wire rope slings

| 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

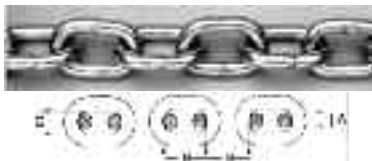
## Anchor Chain 316L Stainless Steel (S4)



| 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 lassses, it also complies with all requirements of DIN 766. Other types such as G4 available on special order.

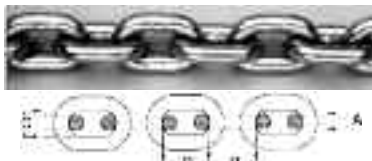
## High Test Chain 316L Stainless Steel (S3)



| 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

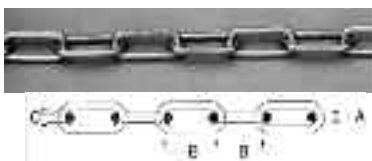
## Overhead Lifting Chain 316L Stainless Steel (S5)



| 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 in 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.

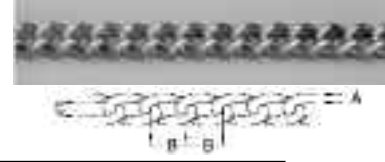
## Long Link Chain 316L Stainless Steel (S6)



| 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.

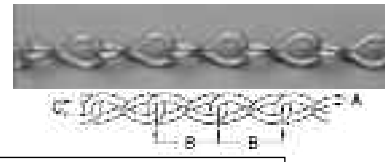
## Twist Chain 304 Stainless Steel (S8)



| 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.

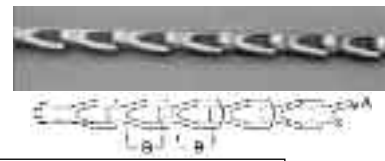
## Single Jack Chain 304/302 Stainless Steel (S9)



| 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.

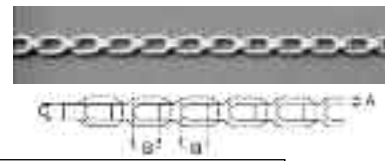
## Sash Chain 302 Stainless Steel (S10)



| 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          |

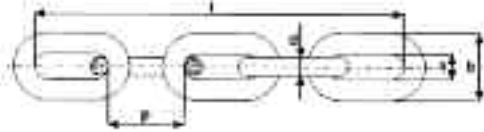
Note: Sold in 100 foot lengths only. WT/hd. = Weight per hundred feet. Ideal for fireplace fences, decorative items and to secure caps.

**Chains & Chain Slings**

**Chain & Attachments**

**CONVEYOR/MINING CHAINS**

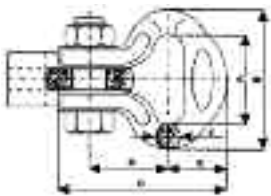
**Mining Chains –  
DIN 22252-2/ISO-610-1990 (E)**



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

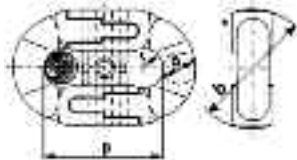
**Shackles**



| 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 <sup>+0.5</sup> | 64 <sup>+0.6</sup>  | 72          | 10          | 74200           | 92200               | 1.45         |
| 22 x 86                      | 22 <sup>+0.7</sup> | 86 <sup>+0.9</sup>  | 85          | 12          | 110200          | 137200              | 2.70         |
| 24 x 86                      | 24 <sup>+0.8</sup> | 86 <sup>+0.9</sup>  | 85          | 13          | 130400          | 161900              | 3.45         |
| 26 x 92                      | 26 <sup>+0.8</sup> | 92 <sup>+0.9</sup>  | 97          | 14          | 143900          | 202300              | 4.30         |
| 30 x 108                     | 30 <sup>+0.9</sup> | 108 <sup>+1.1</sup> | 109         | 16          | 191100          | 258500              | 6.30         |
| 34 x 126                     | 34 <sup>+1.0</sup> | 126 <sup>+1.3</sup> | 121         | 18          | 242800          | 337200              | 9.30         |
| 38 x 126                     | 38 <sup>+1.1</sup> | 126 <sup>+1.3</sup> | 134         | 20          | 305800          | 416000              | 11.70        |
| 38 x 137                     | 38 <sup>+1.1</sup> | 137 <sup>+1.4</sup> | 134         | 20          | 305800          | 416000              | 12.60        |
| 42 x 152                     | 42 <sup>+1.3</sup> | 152 <sup>+1.5</sup> | 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.



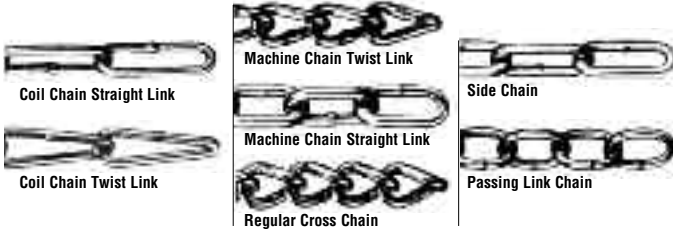
| Trade Size (in)                    | WLL (lbs)* | Inside Length (in) | Inside Width (in) | Wt. per 100ft. (lbs) |
|------------------------------------|------------|--------------------|-------------------|----------------------|
| <b>Grade 30 Proof Coil Chain †</b> |            |                    |                   |                      |
| 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                |
| <b>Grade 43 High Test Chain †</b>  |            |                    |                   |                      |
| 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                |
| <b>Grade 70 Binding Chain ††</b>   |            |                    |                   |                      |
| 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 Feet | 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.



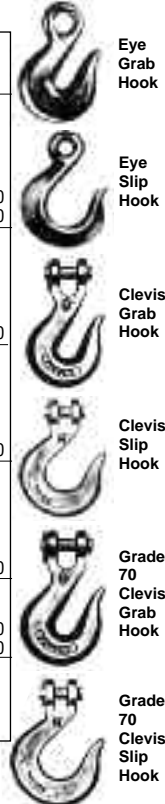
| Binder Chain Assemblies* |                       |          |          |          |          |
|--------------------------|-----------------------|----------|----------|----------|----------|
| Trade Size (in)          | Available Length (ft) | Grade 30 | Grade 43 | Grade 70 | Grade 80 |
| 3/16                     | 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      |
| Eye Slip Hook             | 5/16      | 2-3/4      | -                       | -                   | 58                      | 3,900      |
|                           | 3/8       | 3-5/16     | -                       | -                   | 100                     | 5,400      |
|                           | 7/16      | 3-15/16    | -                       | -                   | 150                     | 7,200      |
|                           | 1/2       | 4-5/16     | -                       | -                   | 250                     | 9,200      |
| Clevis Grab Hook          | 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 Grab 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      |
| Clevis Slip Hook          | 5/8       | 5-5/16     | -                       | 3/4                 | 376                     | 11,500     |
|                           | 1/4       | 2-5/16     | -                       | 5/16                | 47                      | 2,600      |
|                           | 5/16      | 2-9/16     | -                       | 3/8                 | 73                      | 3,900      |
| Clevis Slip Hook          | 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      |
| Grade 70 Clevis Grab Hook | 5/8       | 4-3/4      | -                       | 3/4                 | 424                     | 11,500     |
|                           | 5/16      | 2-3/8      | 5/16                    | 3/8                 | 75                      | 4,700      |
|                           | 3/8       | 2-5/16     | 3/8                     | 7/16                | 110                     | 6,600      |
| Grade 70 Clevis Grab Hook | 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              |



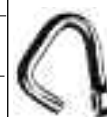
## Quick Links

| 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             |



**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      |



† 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 | 2/0                | .135               | 2.24          | 5.4                   | 41         | 255 |
| Safety Chain Brass |            | 8                  | .035               | .57           | 21                    | 4          | 75  |
|                    |            | 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                   |            |     |
| 50                 | .062       | .62                | 19-1/2             | 13            | 225                   |            |     |
| Safety Chain Brass | 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. (in) Length | 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<sup>®</sup> High Test Carbon Steel from 5/16" thru 5/8."
- Spectrum 8<sup>®</sup> 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.

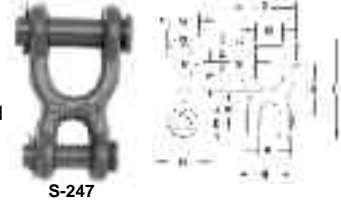


| Chain Size (in) | Stock No.   |            | WLL* (lbs) | Links Per Box | Wt. Per 100 (lbs) | Dimensions (in) |      |      |      |      |      |      |
|-----------------|-------------|------------|------------|---------------|-------------------|-----------------|------|------|------|------|------|------|
|                 | 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<sup>®</sup> and Spectrum 4<sup>®</sup> 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.

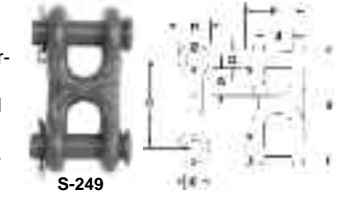


| Chain Size (in) | S-247 Stock No. | WLL* (lbs) | Wt. Each (lbs) | Dimensions (in) |      |     |     |     |      |      |      |      |      |      |      |
|-----------------|-----------------|------------|----------------|-----------------|------|-----|-----|-----|------|------|------|------|------|------|------|
|                 |                 |            |                | 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<sup>®</sup>, Spectrum 4 and Spectrum 7<sup>®</sup> chain.

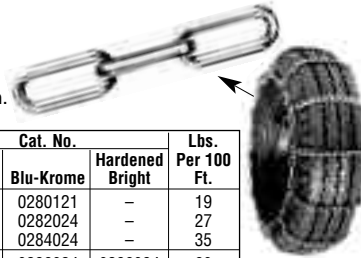


| Chain Size (in) | S-249 Stock No. | WLL* (lbs) | Wt. Each (lbs) | Dimensions (in) |      |      |     |      |     |      |     |
|-----------------|-----------------|------------|----------------|-----------------|------|------|-----|------|-----|------|-----|
|                 |                 |            |                | 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.

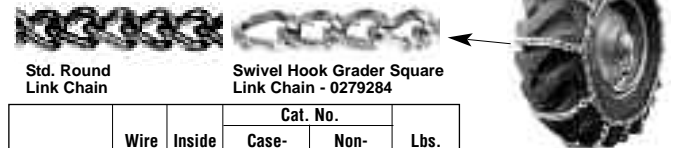


| Size        | Approx. Wire Dia. (in) | Inside Length (in) | Cat. No. |           |                 | Lbs. Per 100 Ft. |
|-------------|------------------------|--------------------|----------|-----------|-----------------|------------------|
|             |                        |                    | 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.

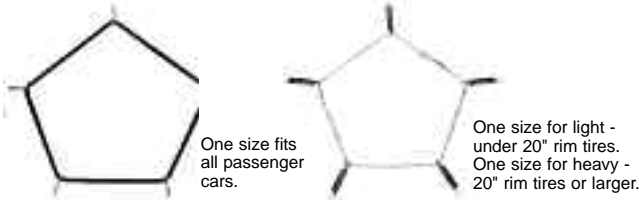
† Twist link coil chain for type PL.

## 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               |



0007795 Grader Chain Swivel Hook

\*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<br>200 Reel            | 3<br>2               | 1/16           | 25                   |
| 3/4                 | 500 Bulk<br>200 Reel            | 7-1/2<br>3-1/2       | 1/8            | 50                   |
| 1                   | 500 Bulk<br>250 Reel            | 15<br>9              | 11/64          | 125                  |
| 1-1/2               | 500 Bulk<br>200 Reel            | 21-1/2<br>10         | 13/64          | 175                  |
| 2-G<br>Gothic       | 500 Bulk<br>200 Reel            | 14<br>7              | 3/16           | 125                  |
| 2                   | 500 Bulk<br>125 Rel<br>100 Bulk | 30<br>9-1/2<br>6-1/2 | 19/64          | 225                  |
| 3                   | 300 Bulk<br>60 Reel             | 42-1/2<br>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