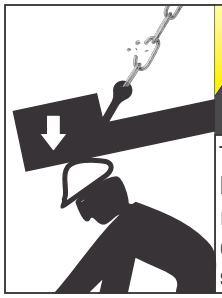
super slings inc.

20 YEARS of

Secure Solutions

CHAIN SLINGS



WARNING

This bulletin contains important safety information about the use of Alloy Chain slings, however; it **DOES NOT** contain all the information you need to know about handling, lifting and manipulating materials and loads safely. Sling use is one part of the lifting system and it is your responsibility to consider all risk factors prior to using and rigging device or product. Failure to do this may result in severe **INJURY** or **DEATH** due to sling failure and/or loss of load

Instructions Regarding Components & Fittings

Components, such as master links and hooks, should have at least the same working load limit (rated capacity) as the chain with which they are used. If not, the sling shall be rated to the capacity of the weakest component. Super Slings offers a full line of Grade 80 and Grade 100 sling components engineered specifically to be compatible with our alloy chain products.

WARNINGS AND CAUTIONS

- The use of chain, slings, and components are subject to certain hazards that cannot be met by mechanical or manufacturing means, but only by the exercise of intelligence, care, and common sense
- Sling use is subject to the Alberta Occupational Health & Safety Part 21 and American Society for Mechanical Engineers (ASME B30.9) safety standards, requiring the sling user to conduct safe working practices and perform inspections
- Do not exceed the working load limit of the sling or any component
- Chemically active environments may adversely affect chain slings. Do not use in highly acidic or caustic environments. Super Slings should be contacted if the sling will be exposed to chemically active environments during use
- High and low temperatures will affect chain slings. Super Slings should be contacted if temperatures below -40°F (-29°C) will be experienced. The Effect of Elevated Temperature on the Working Load Limit of Alloy Chain chart shows the reduction in strength that occurs when chain slings are used at or have been exposed to temperatures above 400°F (204°C)
- Never field weld or repair a chain sling. Chain slings should only be repaired by a qualified repair facility
- See information under the Care, Inspection, and Proper Use sections

CARE

- Chain slings should be stored in a clean and dry area, preferably on a rack, in order to extend their life
- Chain slings should not be stored in areas where they would be subject to damage, corrosion, chemical attack, or extreme temperatures
- Clean slings periodically, as dust and grit can accelerate wear
- During use, chain slings should not be dragged over abrasive surfaces. Loads should not be rested on the chain sling to avoid damage

PROPER USE

To protect the operators, the load, and the sling, the following safe practices should be followed. Super Slings also recommends compliance with the OH&S and ASME safety standard practices.

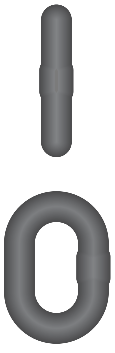
- Select a sling suitable for the load, type of hitch, angle of loading, and environment. The hooks and master links should be of a size to fit the intended connections
- Avoid shock loading
- Pad all sharp edges or corners in contact with the sling to prevent damage to either the sling or the load
- Balance the load to prevent shifting, to maintain control of the load, and to prevent overloading of any leg in a multiple leg sling
- Rig so that the load is properly seated in the hooks and master link. Avoid tip loading of hooks and side loading of master links
- Avoid twisting or kinking of sling legs
- Never knot chain legs
- Horizontal angles less than 30° should not be used
- For choker hitches, angles of choke greater than 120° should not be used without consulting Super Slings or a qualified person. Choker hitches reduce the working load limit by 20%
- For basket hitches, the minimum recommended diameter of the load is 6 times the nominal chain diameter. The attached D/d chart shows the reduction in the WLL for D/d ratios less than 6.

INSPECTION

ASME safety standards require the user to conduct:
a) Frequent Inspections: A visual inspection for damage, which should be performed each day the sling is used.
b) Periodic Inspections: A complete link by link and component inspection. Periodic inspection intervals vary depending on sling usage and conditions, but must occur at least annually. Written records of periodic inspections are required. The slings should be inspected for the presence damage. The sling should immediately be removed from service if any of the following conditions are present:

- Missing or unreadable identification tag
- Cracks in the chain or any component
- Excessive nicks, gouges or wear. Chain should be removed from service if the thickness at any point on the link is below the value shown in the **Alloy Chain Minimum Allowable Thickness** chart. All other components should be removed from service if any dimension is worn more than 10% from the original.

Alloy Chain - Minimum Allowable Thickness



Chain Stock Size		Actual Stock Dia.		Min Allowable Thickness	
[in]	[mm]	[in]	[mm]	[in]	[mm]
9/32	7	.282	7	.239	6.07
3/8	10	.402	10	.342	8.69
1/2	13	.522	13	.443	11.26
5/8	16	.643	16	.546	13.87
3/4	20	.802	20	.687	17.45
7/8	22	.881	22	.750	19.05
1	26	1.000	25	.887	22.53
1 1/4	32	1.250	32	1.091	27.71

Chain Sling Inspection

The inspection should follow a formal written inspection procedure to ensure complete examination:

1. Clean each chain sling prior to inspection. Chain that is coated with paint, dirt or oil may hide nicks, gouges or other damage.

2. Check the identification tag legibility. Ensure that its serial number, name of manufacturer, size, grade, working load limit and reach correspond to the original Chain Sling Certification when the sling was manufactured.

3. Measure the reach of sling legs to make sure they correspond to the values stamped on the chain sling identification tag. If one or more legs are longer, there is a possibility that the sling has been subjected to overloading or excessive wear.

4. Any chain sling removed from service should be tagged and returned to the central issuing department with data covering the detected during the inspection. The sling can then be returned to a Super Slings Service Centre for the appropriate repairs and proof testing.

5. If hooks have been opened more than 5% of the normal throat openings (measured at the narrowest point) or twisted more than 0 degrees from the plane of unbent hook, the sling shall be removed from service.

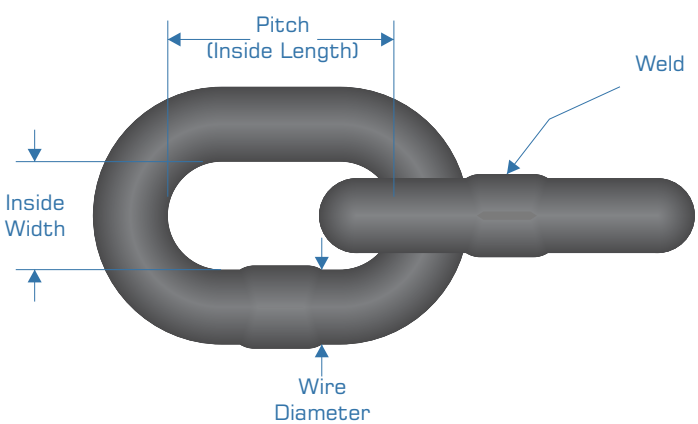
6. Attach **"Danger – Do Not Use"** warning tag to each sling removed from service. Record the removal of the sling on sling inspection report form.

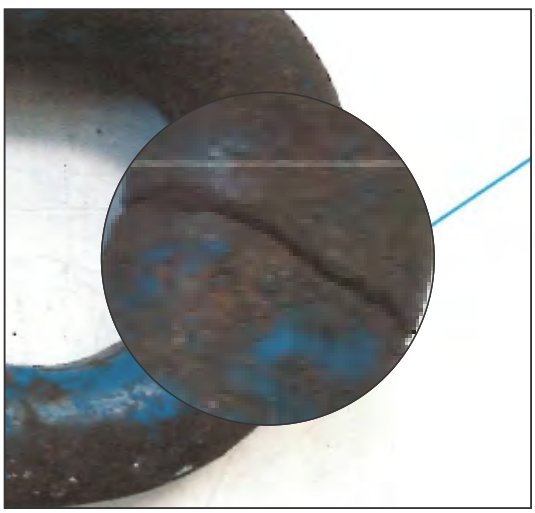
7. Inspect the master and coupling links for wear or damage.

8. Make a link-by-link inspection of the chain slings for:

- Excessive wear. If the wear on any portion of any link exceeds the allowable wear shown on this table remove from service.
- Twisted, bent or cut links.
- Cracks in the weld area or any portion of the link.
- Nicks or gouges.
- Stretched links.
- Severe corrosion.
- Any deformation or degradation of components.

How to Measure Chain






Heat / Welding Damage


Excessive Wear


Bent Hook


Heat Damage


Stretched Link Elongation


Metal Loss


Heat Gouge


Bent Link


Severe Corrosion Rusting


Missing Tag Improper Fabrication

Effect of Elevated Temperature on the Working Load Limit of Alloy Chain

WARNING: ALLOY STEEL CHAINS SLINGS MAY BE AFFECTED BY TEMPERATURES ABOVE 400°F (204°C)

Alloy steel chain sling WLL shall be reduced in accordance with the adjacent tables when heated between 400°F (204°C) and 1000°F (537°C).

Permanent WLL reduction shall be made in accordance with the adjacent tables for chain slings heated over temperatures indicated. Identification tag shall be replaced and the new tag shall have the reduced WLL.

For temperatures below -40°C(-40°F) please contact your Super Slings representative.

Temperature		Grade of Chain			
		GRADE 80		GRADE 100	
(F°)	(C°)	Reduction of Working Load Limit WHILE AT Temperature	Reduction of Working Load Limit AFTER EXPOSURE to Temperature	Reduction of Working Load Limit WHILE AT Temperature	Reduction of Working Load Limit AFTER EXPOSURE to Temperature
<400°	<204°	None	None	None	None
400°	204°	10%	None	15%	None
500°	260°	15%	None	25%	5%
600°	316°	20%	5%	30%	15%
700°	371°	30%	10%	40%	20%
800°	427°	40%	15%	50%	25%
900°	482°	50%	20%	60%	30%
1000°	538°	60%	25%	70%	35%
>1000°	>538°	Any chain sling which has experienced temperatures in excess of 1000° F (538°C) must be removed from service.			

Alloy Chain Specifications

Alloy steel chain is electrically welded alloy steel embodying the latest manufacturing technology. Alloy provides a superior chain sling with high tensile strength and excellent wear resistance. The following chains meet or exceed all existing OH&S, ANSI, ASME, NACM and ASTM specification requirements. The Alloy chain and attachments used in fabricating Super Slings chain slings offer a design factor of 4 to 1.

Trade Size		Grade	Nominal Dimensions (in & mm)						Working Load Limit		Feet/ Drum	Lbs. /foot	Links /ft.
			Material Diameter		Inside Dimensions								
					Length		Width						
[in]	[mm]		[in]	[mm]	[in]	[mm]	[in]	[mm]	Lbs	kgs			
9/32	7	100	.29	7	.86	22	.41	10	4,300	1,950	500	74	13.8
5/16	8	80	.32	8	.94	24	.46	12	4,500	2,000	500	92	12.8
5/16	8	100	.33	8	1.01	26	.50	13	5,700	2,600	500	104	12
3/8	10	100	.40	10	1.22	31	.57	14	8,800	3,990	500	148	10.0
1/2	13	100	.52	13	1.57	40	.75	19	15,000	6800	300	250	7.8
5/8	16	100	.64	16	1.93	49	.87	22	22,600	10,250	200	379	6.5
3/4	20	100	.80	20	2.42	61	1.09	28	35,300	16,000	100	610	4.9
7/8	22	100	.88	22	2.70	69	1.28	31	42,700	19,400	100	775	4.4
1	26	80	1.00	25	2.80	71	1.40	36	47,700	21,600	100	965	4.3
1 1/4	32	80	1.25	32	3.50	89	1.75	44	72,300	32,800	60	1525	3.5

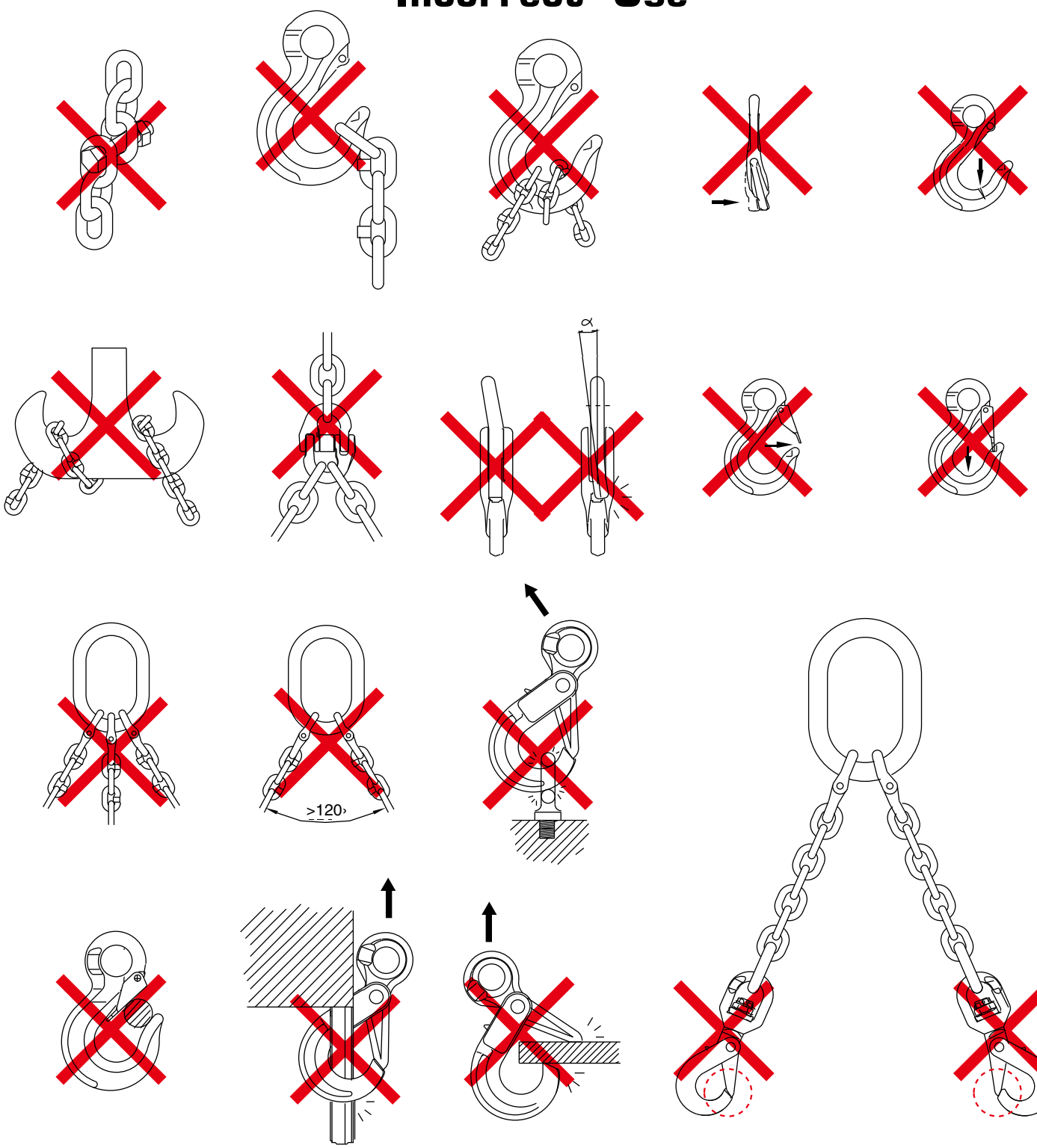
NOTICE: The product specifications and dimensions are as accurate as possible at the time of printing. However, because we are constantly improving the quality and design of our product, they can change without notice.

WARNING: PURCHASERS please note that all "Warnings and Cautions" apply to chain, components and fittings, as well as chain slings. Purchasers are responsible for conveying the "Warnings and Cautions" including the "Inspection, Care and Proper Use" section information to the end user. Super Slings denies any liability for damage that results from use in excess of the working load limit or any abuse or misuse of the product. Any questions concerning the use of Super Slings products may be directed to your Super Slings Sales Representative or Customer Service.

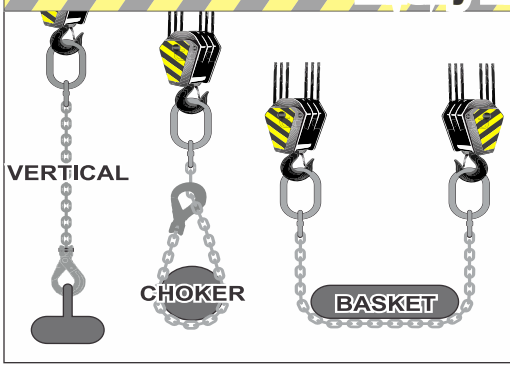
YOKE®

Safety is our first priority™

Chain Sling Use Limitations
Incorrect Use



Every Lift Uses 1 of 3 Basic Hitches



1. Vertical, a simple straight attachment connecting a lifting hook or other device to a load. Full rated load of the sling may be used, but never exceeded. A tagline should be used on such a lift to prevent rotation which can damage the sling. A sling with a hand-tucked splice can unlay and fail if the sling is allowed to rotate.

2. Choker hitches reduce lifting capability of a sling, since this method of rigging affects the ability of the wire rope components to adjust during the lift, places angular loading on the body of the sling, and creates a small diameter bend in the sling body at the choke point.

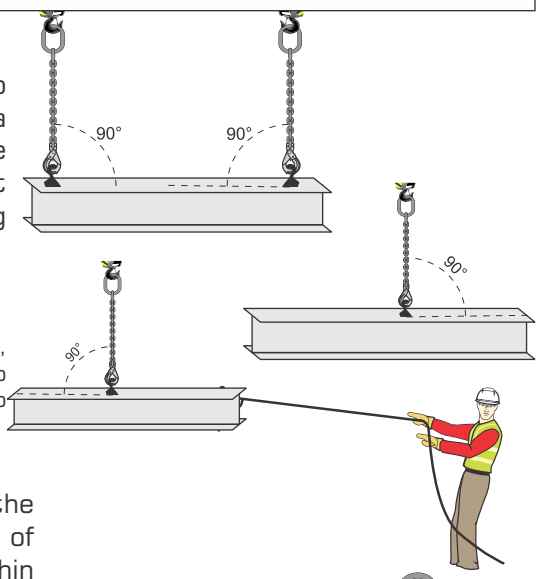
3. Basket hitches distribute a load equally between the two legs of a sling, within limitations imposed by the angles at which legs are rigged to the load.

Vertical Hitch

A vertical hitch, or straight hitch, is the most basic hitch used to directly connect a load to a lifting device. On a vertical hitch, the eye of a single chain sling, wire rope sling, or synthetic sling is connected to the crane or hoist hook, while the other eye is connected to an attachment point on the load. The Vertical Hitch will utilize 100% of the lifting capacity of the sling.

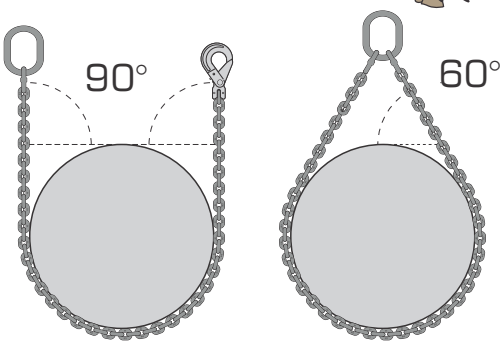
A single vertical hitch should never be used for lifting loose materials, long loads, or unbalanced loads.

WARNING: A twisted chain sling can cause uneven loading of individual links, potentially resulting in premature wear of failure. Use of a tagline is recommended to prevent the load from spinning. Always use caution when controlling a load, ensure no persons are in an area where they can be struck by the load or attached rigging.



Basket Hitch

A basket hitch is formed when both eyes of the sling are placed on the lifting hook, thereby forming a circular basket of the sling. This type of hitch distributes the load equally between the two legs of the sling, within limitations. A basket hitch has twice the capacity of a single leg only if D/d ratio is 6/1 and the sling to load angle is 90°. When the **sling to load angle** are less than 90°, increased tension is applied and must be accounted for.



Lifting Bridles

When you attach two or more slings to the same lifting hook, or are connected to a link rigged onto the hook, the total hitch becomes a lifting bridle, distributing the load among the individual slings. When using two or more slings as a lift-ing bridle, remember that the sling angle affects the slings' rated capacities. Also, the location of the lift's centre of gravity will affect the load on each sling leg.

Alloy Chain D/d Capacity Reduction

D/d is the ratio between the curvature taken by the sling **(D)**, and the diameter of the component chain **(d)**.

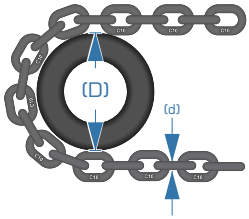
National Association of Chain Manufacturers (NACM) has conducted D/d testing on alloy chain and concluded the following

1) Effect of D/d is the same for all sizes and grades of alloy steel chain.
2) Strength loss is highly consistent with D/d ratio.
3) No damage to chain at WLL (working load limit) with a D/d as low as 2.
4) Minimum D/d pin diameter of 5 recommended for proof testing basket slings.
5) Strength loss is 10% or less once D/d is 5 or greater.

The adjacent chart shows reductions in working load limit of an endless alloy sling based on D/d ratio. Consult the manufacturer for any D/d below 2.

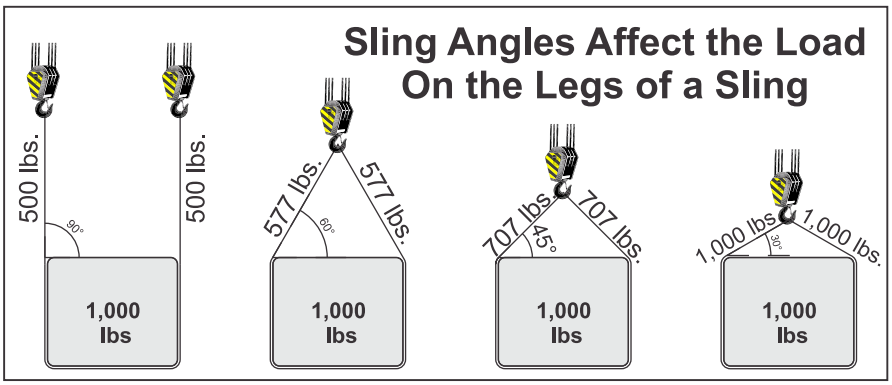
NACM Recommendation for rated load reductions for basket slings to account for D/d ratio

D/d	% of Rated Load
Less than 2	Not Recommended
2	60
3	70
4	80
5	90
6 & Above	100



SLING TO LOAD ANGLE

Sling Angles affect the Load on the Legs of a Sling: SLING ANGLE (also called Angle of Loading) is the angle measured between a horizontal line and the sling leg or body. This angle is very important and can have a dramatic effect on the rated load of a sling. As illustrated here, when this angle DECREASES, the LOAD ON EACH LEG INCREASES. This principle applies whether one sling is used with legs at an angle in a basket hitch, or for multi-leg bridle slings. Angles less than 30 degrees should not be used.



Sling Tension	
Angle/Deg Horizontal	Tension Factor
90	1.000
80	1.015
70	1.064
60	1.155
50	1.305
45	1.414
35	1.742
30	2.000

Effect of Angle - Sling tensions are affected by angle of lift (sling angle), measured from the horizontal, when used with multi-legged chain slings or basket hitches. The effect of this angle may be determined by using either of these two methods:

• **Sling Tension Method** (Recommended Method)

Example:

A two-leg sling lifting a 2,000 lbs object at 30° has a tension factor of 2.0. The resultant tension per leg is 2,000 lbs.

• **Reduced Sling Capacity** Method (Alternative Method)

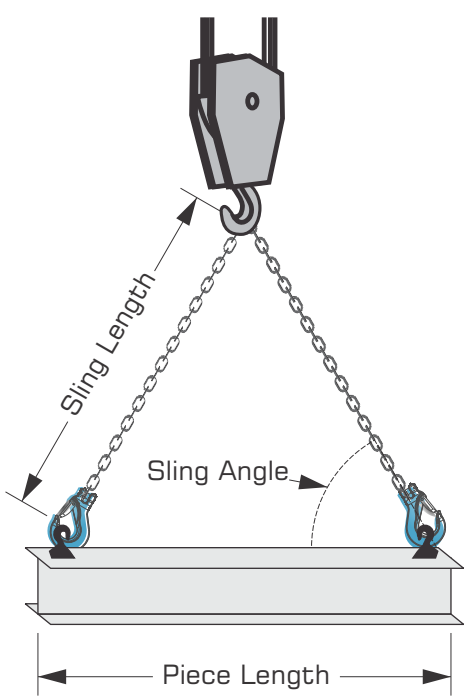
Example:

A two-leg sling with a capacity of 4,000 lbs total at 90° (4,000 lbs per leg) When used at an angle of 30° has a reduction factor of 0.5. The resultant capacity is 2,000 lbs total at 30°

Capacity Reduction	
Angle/Deg Horizontal	Loss Factor
90	1.000
80	0.985
70	0.940
60	0.866
50	0.766
45	0.707
35	0.574
30	0.500

Sling-to-Load Angle Quick Reference

Piece Length	60 Degrees		45 Degrees		30 Degrees	
	Sling Length	Pick Height	Sling Length	Pick Height	Sling Length	Pick Height
1	1	0.9	0.7	0.5	0.6	0.3
2	2	1.7	1.4	1.0	1.2	0.6
3	3	2.6	2.1	1.5	1.7	0.9
4	4	3.5	2.8	2.0	2.3	1.2
5	5	4.3	3.5	2.5	2.9	1.4
6	6	5.2	4.2	3.0	3.5	1.7
7	7	6.1	4.9	3.5	4.0	2.0
8	8	6.9	5.7	4.0	4.6	2.3
9	9	7.8	6.4	4.5	5.2	2.6
10	10	8.7	7.1	5.0	5.8	2.9
11	11	9.5	7.8	5.5	6.3	3.2
12	12	10.4	8.5	6.0	6.9	3.5
13	13	11.3	9.2	6.5	7.5	3.8
14	14	12.1	9.9	7.0	8.1	4.0
15	15	13.0	10.6	7.5	8.7	4.3
16	16	13.9	11.3	8.0	9.2	4.6
17	17	14.7	12.0	8.5	9.8	4.9
18	18	15.6	12.7	9.0	10.4	5.2
19	19	16.5	13.4	9.5	11.0	5.5
20	20	17.3	14.1	10.0	11.5	5.8
21	21	18.2	14.8	10.5	12.1	6.1
22	22	19.1	15.6	11.0	12.7	6.4
23	23	19.9	16.3	11.5	13.3	6.6
24	24	20.8	17.0	12.0	13.8	6.9
25	25	21.7	17.7	12.5	14.4	7.2
26	26	22.5	18.4	13.0	15.0	7.5
27	27	23.4	19.1	13.5	15.6	7.8
28	28	24.2	19.8	14.0	16.2	8.1
29	29	25.1	20.5	14.5	16.7	8.4
30	30	26.0	21.2	15.0	17.3	8.7
31	31	26.8	21.9	15.5	17.9	9.0
32	32	27.7	22.6	16.0	18.5	9.2
33	33	28.6	23.3	16.5	19.0	9.5
34	34	29.4	24.0	17.0	19.6	9.8
35	35	30.3	24.7	17.5	20.2	10.1
36	36	31.2	25.5	18.0	20.8	10.4
37	37	32.0	26.2	18.5	21.3	10.7
38	38	32.9	26.9	19.0	21.9	11.0
39	39	33.8	27.6	19.5	22.5	11.3
40	40	34.6	28.3	20.0	23.1	11.6
41	41	35.5	29.0	20.5	23.7	11.8
42	42	36.4	29.7	21.0	24.2	12.1
43	43	37.2	30.4	21.5	24.8	12.4
44	44	38.1	31.1	22.0	25.4	12.7
45	45	39.0	31.8	22.5	26.0	13.0
46	46	39.8	32.5	23.0	26.5	13.3
47	47	40.7	33.2	23.5	27.1	13.6
48	48	41.6	33.9	24.0	27.7	13.9
49	49	42.4	34.6	24.5	28.3	14.2
50	50	43.3	35.4	25.0	28.9	14.5

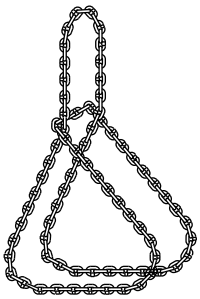


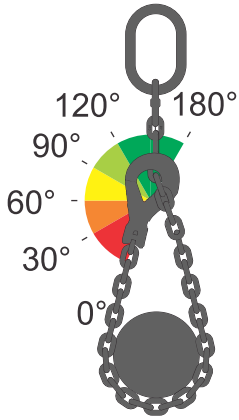
Choker Hitches:

In shortening applications, a 20% reduction of the Working Load Limit is required except when using Cradle Grab Hooks, Cradle Chain Shortener Link, or a Chain Choker Hook in-conjunction Chain Coupler Link. They can be used without any reduction to the Working Load Limit as long as the choke angle is not below 120°.

Whenever a sling is used in a choker hitch and results in a Choker Hitch Angle less than 120 degrees, Choker Working Load Limits must be adjusted. Determine the Choker Hitch Angle and multiply the Choker Hitch Work Load Limit by th appropriate Reduction Factor. The result is the actual, reduced Choker Work Load Limit.

Choker Hitches	
Angle of Choke (degrees)	Sling rated capacity factor as percentage of single leg choker hitch capacity
120-180	100%
105-120	82%
90-105	71%
60-90	58%
0-60	50%





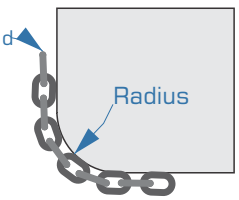
Cradle Grab Hook

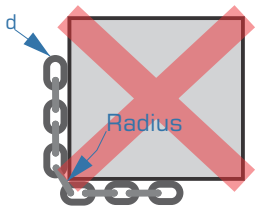
"Sharp" Edges

Always use edge protectors to prevent sharp edges from damaging the chain. If lifting over sharp edges reduce the working load with the adjacent reduction table.

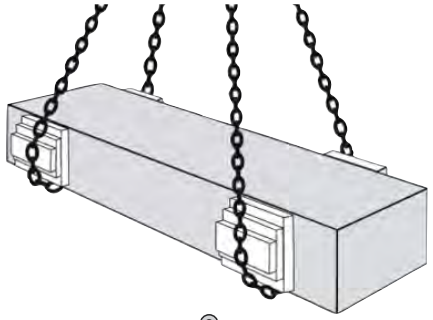
- The angle of the edge must not be below 90°
- Chain links shall be protected from being bent or deformed and from receiving cuts or gouges.
- Chain sling WLL is to be reduced when chain is rigged over an edge radius R less than two (2) x chain diameter (d).
- Reduced WLL equals chain sling WLL from identification tag x reduction factor.
- Slings shall be padded or protected from the edges of their loads when the edge radius is less than 0.5 of the chain diameter(d). Slings shall be rigged to prevent chain from sliding over a load edge radius while lifting.
- Slings used in basket hitch shall have the loads balanced to prevent slipping.

When lifting with chain directly on lugs the lug diameter > 3x the pitch of the chain, otherwise the WLL must be reduced by 50%.



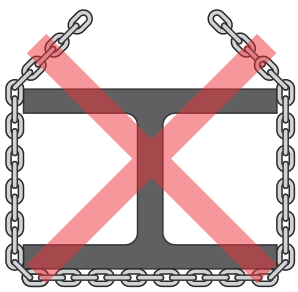


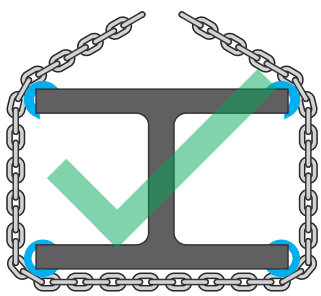
Radius	Reduction Factor	If WLL = 1,000
R > 2 X d	1	1,000
R > 1 X d	0.7	700
R < 1 X d	0.5	500

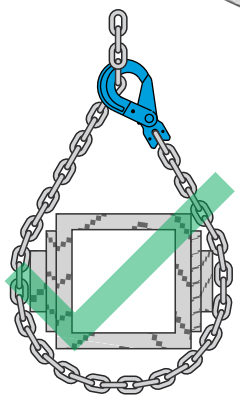


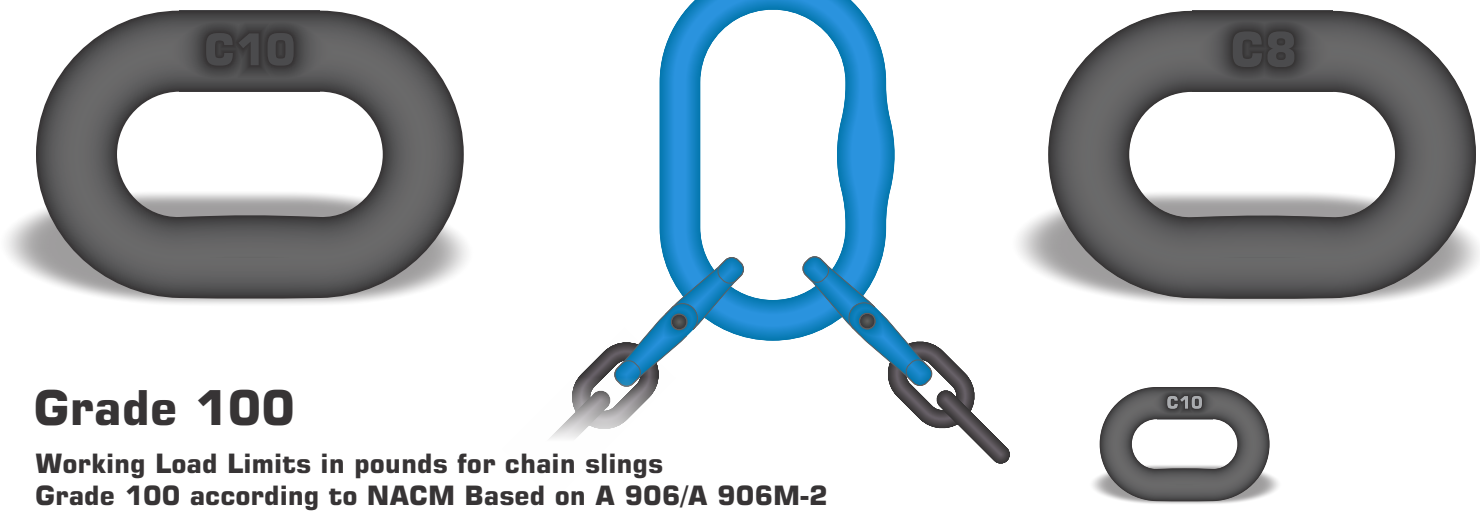
Edge Loading and Packing

Chain is designed to support a load in a straight line. Never tie knots in the chain and always make sure chain is free from twists before putting it under tension. Where chain has to pass round a sharp corner use suitable packaging to give the chain protection.









Grade 100

Working Load Limits in pounds for chain slings
Grade 100 according to NACM Based on A 906/A 906M-2

Grade 100 Chain Size		WORKING LOAD LIMITS [lbs]						
		1-leg	2-Leg			3 & 4-Leg		
[mm]	[in]	90°	60°	45°	30°	60°	45°	30°
6	7/32"	3,300	5,500	4,625	3,300	8,400	6,800	4,850
7	9/32"	4,300	7,400	6,100	4,300	11,200	9,100	6,400
8	5/16"	5,700	9,900	8,100	5,700	14,800	12,100	8,500
10	3/8"	8,800	15,200	12,400	8,800	22,900	18,700	13,200
13	1/2"	15,000	26,000	21,200	15,000	39,000	31,800	22,500
16	5/8"	22,600	39,100	32,000	22,600	58,700	47,900	33,900
20	3/4"	35,300	61,100	49,900	35,300	91,700	74,900	52,950
22	7/8"	42,700	74,000	60,400	42,700	110,900	90,600	64,000
26	1"	59,700	103,100	84,100	59,500	155,600	126,600	89,250
32	1-1/4"	88,160	152,700	124,600	88,160	229,000	186,950	132,200

Grade 80

Working Load Limits in pounds for chain slings
Grade 80, according to NACM Based on A 906/A 906M-2

Grade 80 Chain Size		WORKING LOAD LIMITS [lbs]						
		1-leg	2-Leg			3 & 4-Leg		
[mm]	[in]	90°	60°	45°	30°	60°	45°	30°
6	7/32"	2,450	4,200	3,300	2,425	6,400	5,050	3,525
7	9/32"	3,500	6,100	4,900	3,500	9,100	7,400	5,200
8	5/16"	4,500	7,800	6,400	4,500	11,700	9,500	6,800
10	3/8"	7,100	12,300	10,000	7,100	18,400	15,100	10,600
13	1/2"	12,000	20,800	17,000	12,000	31,200	25,500	18,000
16	5/8"	18,100	31,300	25,600	18,100	47,000	38,400	27,100
20	3/4"	28,300	49,000	40,000	28,300	73,500	60,000	42,400
22	7/8"	34,200	59,200	48,400	34,200	88,900	72,500	51,300
26	1"	47,700	82,600	67,400	47,700	123,900	101,200	71,500
32	1-1/4"	72,300	125,200	102,200	72,300	187,800	153,400	108,400

See Hardware Section for Available attachments and specifications.

How to Order Chain Slings

Masterlink Code

Adjustable Chain Slings add **[A]** to the beginning

Code **[SO]** Single

Code **[DO]** Double

Code **[TO]** Triple

Code **[QO]** Quadruple

Hook Codes

Code **[S]** Sling Hook

Code **[G]** Grab Hook

Code **[H]** Hammerlock

Code **[SC]** Self-Locking Clevis Hook

Code **[F]** Foundry Hook

Code **[SE]** Self-Locking Eye Hook

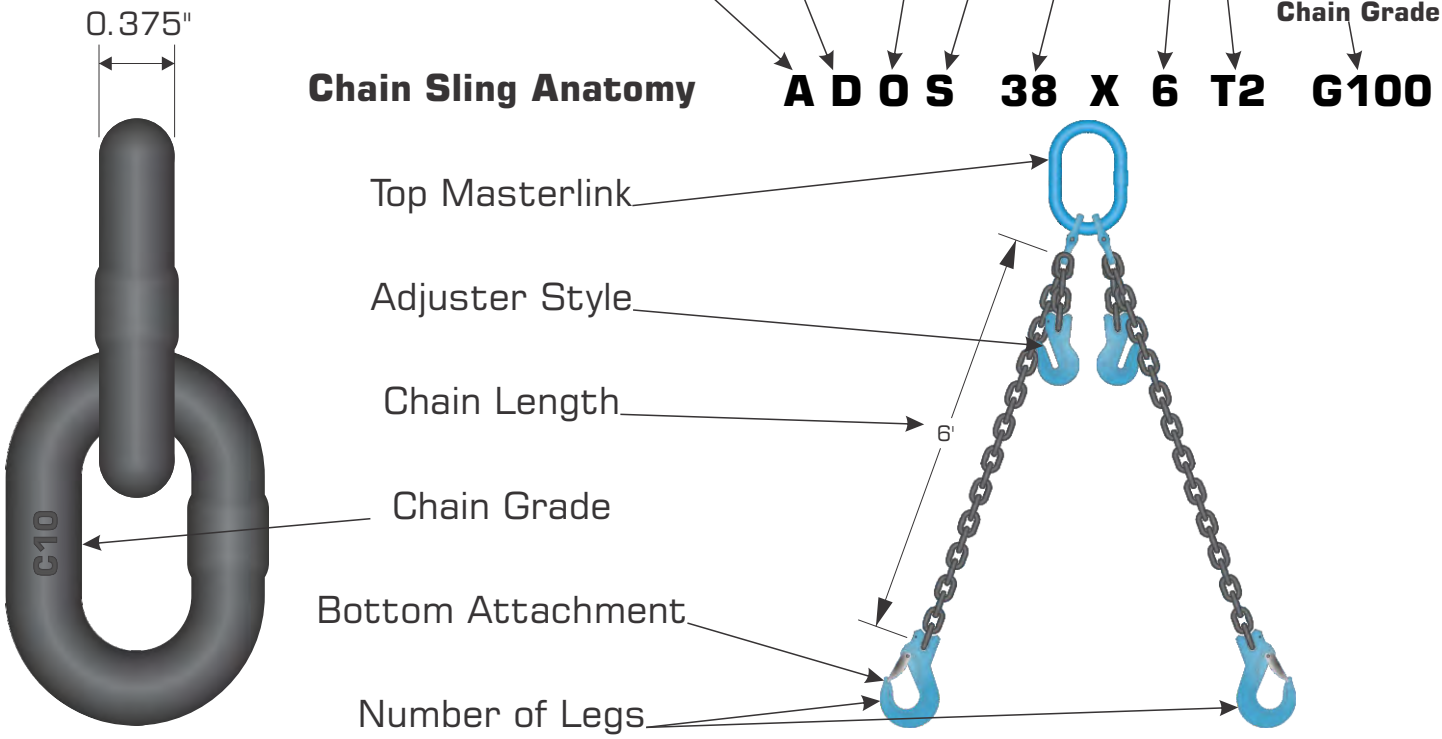
Code **[SS]** Self-Locking Swivel Hook

Adjuster Code

Code **[T2]** Grab Hook Adjuster

Code **[SC]** Shortening Clutch

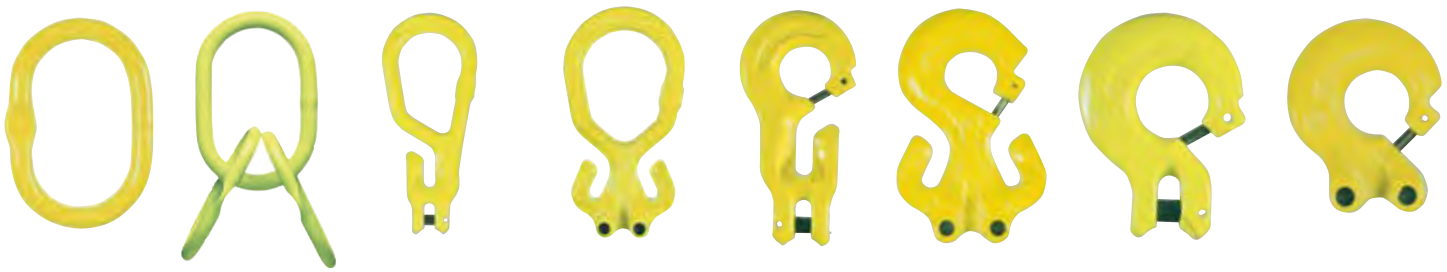
Chain Sling Anatomy



GrabIQ™

GUNNEBO Industries

GrabIQ Grade 100 Chain Sling Components



Master Link (MF) (MFX) | Master Link (MTX) | MasterGrab (MG) | MasterGrab Dual (MGD) | C-Grab (CG) | C-Grab Dual (CGD) | C-Lok (CL) | C-Lok Dual (CLD)

Alloy Coupling Link (G) | Sling Hook (EGKN) | Chain (KL) | Clevis Grab (GG) | Self Locking (GBK) | Foundry Hk (OKE) | Self Locking (LBK) | Self Locking (LKBK)

GrabIQ Grade 100

Working Load Limits in pounds for chain slings
Grade 100 according to NACM Based on A 906/A 906M-2

Grade 100 Chain Size		WORKING LOAD LIMITS [lbs]						
		1-leg	2-Leg			3 & 4-Leg		
[mm]	[in]	90°	60°	45°	30°	60°	45°	30°
6	7/32"	3,300	5,500	4,625	3,300	8,400	6,800	4,850
7	9/32"	4,300	7,400	6,100	4,300	11,200	9,100	6,400
8	5/16"	5,700	9,900	8,100	5,700	14,800	12,100	8,500
10	3/8"	8,800	15,200	12,400	8,800	22,900	18,700	13,200
13	1/2"	15,000	26,000	21,200	15,000	39,000	31,800	22,500
16	5/8"	22,600	39,100	32,000	22,600	58,700	47,900	33,900
20	3/4"	35,300	61,100	49,900	35,300	91,700	74,900	52,950
22	7/8"	42,700	74,000	60,400	42,700	110,900	90,600	64,000
26	1"	59,700	103,100	84,100	59,500	155,600	126,600	89,250
32	1-1/4"	88,160	152,700	124,600	88,160	229,000	186,950	132,200

X-003 G-100 Masterlink

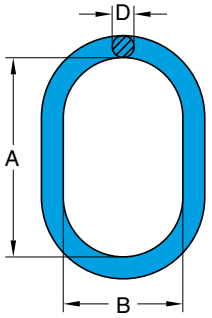
YOKE
Safety is our first priority™

Masterlink

Product details

Aapplication

- Quenched and Tempered Alloy Steel.
- At least 25% greater WLL than traditional G80 products.
- Manufactured in accordance with ASTM A906/A906M, ASTMA952/A952M, ASME B30.9, ASME B30.10, ASME B30.26 andOHSA 1910.184, EN-1677-4
- Proof Load tested at 2.5 times the WLL with certification for each batch manufactured.
- Design Factor 4:1.
- Fatigue rated to 20,000 cycles at 1.5 times the WLL.
- Tempering temperature at a minimum of 400°C.
- Designed for Wire Rope and Chain.
- Each link is marked with batch number that links to the test certificate with traceability to raw materials.



Item No.	WLL 0-45°		Chain Size Grade 100 (in)		Trade Size	Dimensions (in)			Net Weight
	4:1 lbs	5:1 lbs	1 Leg	2 Leg	(in)	D	IL	IW	lbs
X-003-06	3,100	2,500	7/32		3/8	0.43	3.94	2.36	0.44
X-003-0806	6,400	5,100	9/32-5/16	7/32	1/2	0.55	4.72	2.76	1.10
X-003-1008	12,000	9,000	3/8	9/32-5/16	5/8	0.67	5.51	3.15	1.54
X-003-13	15,000	12,300	1/2		3/4	0.75	5.91	3.54	2.43
X-003-1310	19,000	15,000	1/2	3/8	7/8	0.87	6.30	3.74	3.31
X-003-16	22,000	17,600	5/8		1	0.98	7.48	4.33	5.07
X-003-1613	31,100	24,900	5/8	1/2	1 1/8	1.10	7.09	4.13	5.95
X-003-19	35,300	28,200	3/4		1 1/4	1.18	7.87	4.72	7.72
X-003-2216	46,300	37,000	7/8	5/8	1 3/8	1.34	9.45	5.51	11.68
X-003-26	58,400	46,700	1		1 1/2	1.50	9.84	5.91	16.31

DNV 2.7-1 Master Link Assembly

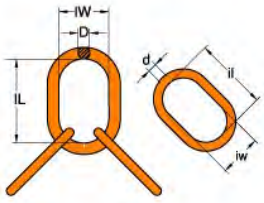
OCEANSIDE EQUIPMENT LIMITED

Clevis Shackle

Product details

Aapplication

- Material: Alloy Steel
- Standard: EN 1677-4, ASME B30.26, DNV 2.7-1
- Finish: Painted Orange
- Design Factor: 5:1 (Wire Sling)
- Identification: Trademark, Size/WLL, Batch Code
- Rated in Metric Ton(s)



Item Code	WLL		Dimensions (in)						Weight
	lbs (4:1)	lbs (5:1)	D	IL	IW	d	il	Iw	lbs
2-MA16QA	11,200	9,000	0.63	5.91	2.95	0.51	4.92	2.36	2.90
2-MA23QA	15,900	12,800	0.87	10.63	5.51	0.63	5.91	2.95	8.40
2-MA22QAS	24,200	19,500	0.87	6.38	3.54	0.79	5.51	2.76	7.90
2-MA25QA	24,200	19,500	0.98	10.63	5.51	0.79	5.51	2.76	11.70
2-MA26QA	32,400	26,000	1.10	10.63	5.51	0.79	5.51	2.76	13.00
2-MA28QAS	39,900	32,000	1.10	7.87	4.33	0.87	5.51	2.76	12.10
2-MA32QA	46,900	37,700	1.26	10.63	5.51	1.02	7.48	4.02	21.40
2-MA36QA	63,300	50,700	1.42	10.63	5.51	1.10	7.48	3.94	26.20
2-MA40QA	77,400	61,900	1.57	11.02	6.10	1.26	7.87	4.33	36.10
2-MA45QA	105,400	84,400	1.77	12.60	6.89	1.42	8.86	4.92	51.80
2-MA50QA	123,900	99,200	1.97	13.78	7.68	1.57	10.24	5.12	71.20

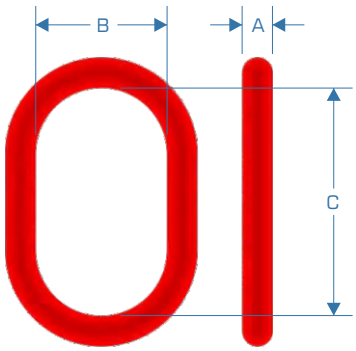
V-line Grade 80 Alloy Master Links

Masterlink

Product details

Application

- Alloy Steel – Quenched and Tempered
- Individually proof tested per ASTM 906/952 prescribed loads
- Meet EN1677 standard (20,000 cycle fatigue test)
- Permanently embossed with VGD, size, model number and trace code
- Approved for overhead lifting when all components are grade 80
- Proof tested to 2 times the Working Load Limit (WLL)
- Design factor 4:1



Item Code	Dimensions			WLL (lbs)		Weight	Chain Size Gr. 80	
	A	B	C	(4:1)	(5:1)	(lbs)	Single	Double
5983-00046	(1/2") 0.50	2.75	4.72	6,100	4,900	0.83	9/32-5/16	9/32
5983-10001	(5/8") 0.63	3.15	5.50	7,750	6,200	1.50	3/8	5/16
5983-10002	(3/4") 0.75	3.75	6.30	12,300	9,800	2.60	1/2	3/8
5983-10003	(1") 1.00	4.33	7.50	20,800	16,600	5.40	5/8	1/2
5983-10004	(1-1/4") 1.25	5.10	9.00	31,300	25,000	10.30	3/4	5/8
5983-10005	(1-1/2") 1.50	5.90	10.80	49,000	39,200	16.50	7/8	3/4
5983-10006	(1-3/4") 1.75	7.10	13.40	73,500	58,800	28.20	1	7/8

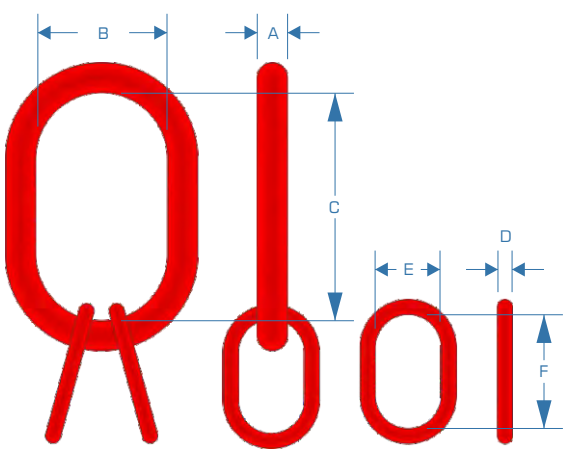
V-line Grade 80 Alloy Sub-assembly

Masterlink Assembly

Product details

Aapplication

- Alloy Steel – Quenched and Tempered
- Individually proof tested per ASTM 906/952 prescribed loads
- Meet EN1677 standard (20,000 cycle fatigue test)
- Permanently embossed with VGD, size, model number and trace code
- Approved for overhead lifting when all components are grade 80
- Proof tested to 2 times the Working Load Limit (WLL)
- Design factor 4:1



Item Code	Chain Size	Dimensions (in)						WLL @ 60°	Weight
		A	B	C	D	E	F	(lbs)	(lbs)
5994-00401	9/32	(3/4") 0.75	3.75	6.30	0.50	2.36	4.33	12,300	4.20
5994-00601	3/8	(1") 1.00	4.33	7.50	0.75	3.75	6.30	20,800	10.70
5994-00801	1/2	(1-1/4") 1.25	5.10	9.00	1.00	4.33	7.50	31,300	22.30
5994-01001	5/8	(1-1/2") 1.50	5.90	10.80	1.13	5.10	9.05	49,000	32.40
5994-01201	3/4	(1-3/4") 1.75	7.10	13.40	1.25	5.10	9.05	73,500	58.60

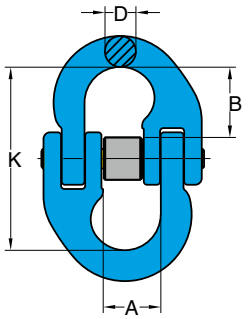
X-015 G-100 Connecting Link.

YOKE® Safety is our first priority™

Connecting Link

Product details

Item Code	WLL	Chain Size	Dimensions [in]				Net Weight
	4:1 lbs	[in]	A	B	D	K	lbs
X-015-06	3,200	7/32	0.59	0.71	0.28	1.77	0.18
X-015-07	5,700	9/32-5/16	0.71	0.98	0.35	2.32	0.44
X-015-10	8,800	3/8	0.98	1.10	0.43	2.72	0.66
X-015-13	15,000	1/2	1.18	1.50	0.63	3.62	1.54
X-015-16	22,600	5/8	1.42	1.61	0.75	3.98	2.65
X-015-20	35,300	3/4	1.65	1.97	0.91	4.80	4.63
X-015-22	42,700	7/8	1.93	2.48	0.94	5.98	7.72
X-015-26	59,700	1	2.17	2.60	1.18	6.38	10.58



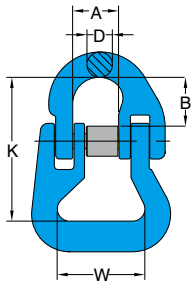
X-016 G-100 Web Sling Connector

YOKE® Safety is our first priority™

Connecting Link

Product details

Item Code	WLL	Chain Size	Dimensions [in]					Net Weight
	4:1 lbs	[in]	A	B	D	K	W	lbs
X-016-06	3,200	7/32	0.59	0.67	0.28	2.17	1.50	0.44
X-016-07	5,700	9/32-5/16	0.71	0.87	0.35	2.44	1.57	0.66
X-016-10	8,800	3/8	0.98	1.02	0.43	3.07	1.85	1.32
X-016-13	15,000	1/2	1.18	1.38	0.63	3.74	2.09	2.43
X-016-16	22,600	5/8	1.42	1.50	0.75	4.53	2.64	4.41
X-016-20	35,300	3/4	1.65	1.81	0.87	5.20	3.15	7.05
X-016-22	42,700	7/8	1.93	2.32	0.94	7.36	4.92	16.98



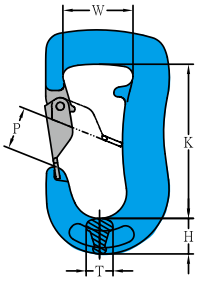
X-032 G-100 100 Web Sling Hook

YOKE® Safety is our first priority™

Coupling Self-Locking Hook

Product details

Item No.	Working Load Limit (lbs)		Dimensions (mm)					Net Weight
	4:1	5:1	H	K	P	T	W	lbs
74-X-032-01	2,200	1,700	0.79	3.50	0.98	0.59	1.69	1.54
74-X-032-02	4,400	3,500	1.06	4.57	1.18	0.79	2.09	3.31
74-X-032-03	6,600	5,200	1.26	4.69	1.26	1.02	2.52	5.29
74-X-032-05	11,000	8,800	1.73	5.71	1.77	1.50	2.40	7.72



8-066 G-80 "YR" Clevis Shackle

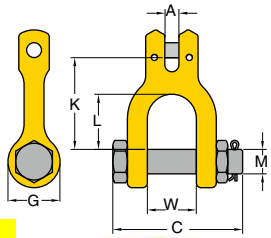
YOKE® Safety is our first priority™

Connecting Link

Product details

Special Order

Item Code	WLL [lbs]	Chain Size	Dimensions [in]							Net Weight
	4:1	[in]	A	C	G	K	L	M	W	lbs
8-066-07	4,500	9/32-5/16	0.35	3.11	1.34	2.32	1.38	0.63	1.30	0.88
8-066-10	7,100	3/8	0.43	3.66	1.57	3.07	1.89	0.79	1.34	1.76
8-066-13	12,000	1/2	0.55	4.65	1.73	3.86	2.52	0.87	1.93	3.09
8-066-16	18,100	5/8	0.71	5.55	2.13	4.41	2.72	1.10	2.36	5.29



X-043 G-100 Clevis Sling Hooks

Clevis Sling Hook

Product details

Aapplication

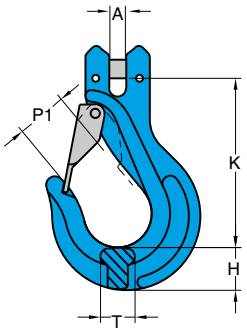
- Quenched and Tempered Alloy Steel.
- At least 25% greater WLL than traditional G80 products.
- Manufactured in accordance with EN 1677- 2 and ASME B30.26, ASME B30.10, PAS1061.
- Certified by DGUV GS-OA-15-05 & DGUV GS-MO-15-05

YOKE® *Safety is our first priority™*

- Proof Load tested at 2.5 times the WLL with certification for each batch manufactured.
- Design Factor 4:1.
- Fatigue rated to 20,000 cycles at 1.5 times the WLL.
- Tempering temperature minimum 400°C
- Magnaflux crack detection is performed 100% on each batch.

X-P026
For load pin replacement

8-P044
For latch replacement



Item Code	WLL	Chain Size	Dimensions [in]					Net Weight
	4:1 lbs	[in]	A	H	K	P1	T	lbs
X-043/S-06	3,200	7/32	0.24	0.91	3.82	0.91	0.59	0.66
X-043/S-07	5,700	9/32-5/16	0.35	0.87	3.86	1.06	0.71	1.32
X-043/S-10	8,800	3/8	0.43	1.18	4.80	1.34	0.94	2.43
X-043/S-13	15,000	1/2	0.55	1.46	5.79	1.73	1.18	5.07
X-043/S-16	22,600	5/8	0.67	1.65	6.54	1.89	1.54	8.38
X-043/S-20	35,300	3/4	0.94	2.52	8.15	2.24	1.89	19.18
X-043/S-22	42,700	7/8	0.98	2.40	8.54	2.87	2.05	20.94

X-026 G-100 Self-Locking Clevis Hook

Clevis Self-Locking Hook

Product details

Aapplication

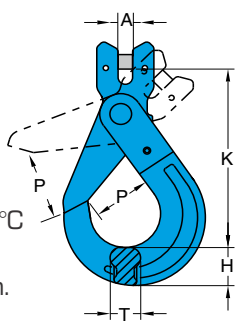
- Quenched and Tempered Alloy Steel.
- At least 25% greater WLL than traditional G80 products.
- Manufactured in accordance with EN 1677- 3 and ASME B30.26, ASME B30.10, PAS1061.
- Certified by DGUV GS-MO-15-05

YOKE® *Safety is our first priority™*

- Proof Load tested at 2.5 times the WLL with certification for
- each batch manufactured.
- Design Factor 4:1.
- Fatigue rated to 20,000 cycles at 1.5 times the WLL.
- Tempering temperature min 400°C
- Magnaflux crack detection is performed 100% on each batch.

X-P026
For load pin replacement

8-P025T
For trigger replacement



Item Code	WLL	Chain Size	Dimensions [in]					Net Weight
	4:1 lbs	[in]	A	H	K	P	T	lbs
X-026-06	3,200	7/32	0.24	0.75	3.66	1.10	0.59	0.88
X-026-07	5,700	9/32-5/16	0.35	0.94	4.69	1.34	0.79	1.98
X-026-10	8,800	3/8	0.43	1.18	5.59	1.73	1.02	3.09
X-026-13	15,000	1/2	0.55	1.54	7.01	2.01	1.18	6.61
X-026-16	22,600	5/8	0.71	1.93	8.39	2.36	1.42	11.02
X-026-20	35,300	3/4	0.83	2.56	9.61	2.76	2.09	24.25
X-026-22	42,700	7/8	0.94	2.48	10.75	3.15	1.93	29.76

X-042N G-100 Clevis Grab Hook

Clevis Sling Hook

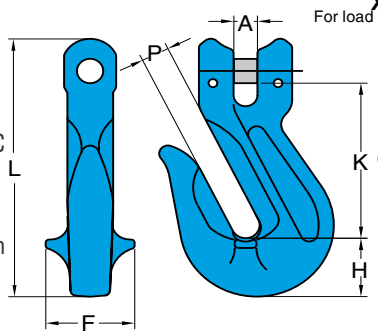
Product details

YOKE® Safety is our first priority™

X-P026
For load pin replacement

Aapplication

- Quenched and Tempered Alloy Steel.
- At least 25% greater WLL than traditional G80 products.
- Manufactured in accordance with DIN PAS 1061, EN 1677-1 and ASTM A952/A 952M.
- Proof Load tested at 2.5 times the WLL with certification for each batch manufactured.
- Design Factor 4:1, Fatigue rated to 20,000 cycles at 1.5 times the WLL.
- Tempering temperature min 400°C
- Not for use with Omega Link
- Enables full WLL while in use, thanks to supporting wings which prevent chain link deformation.
- Certified by DGUV GS-MO-15-05



Item Code	WLL	Chain Size	Dimensions [in]						Net Weight
	4:1 lbs	[in]	A	F	H	K	L	P	lbs
X-042-06	3,200	7/32	0.28	0.98	0.71	1.85	3.11	0.31	0.44
X-042-07	5,700	9/32-5/16	0.39	1.18	0.87	2.13	3.66	0.39	0.88
X-042-10	8,800	3/8	0.43	1.61	1.14	3.03	5.04	0.51	1.76
X-042-13	15,000	1/2	0.59	2.05	1.50	3.90	6.50	0.67	3.53
X-042-16	22,600	5/8	0.71	2.24	1.77	4.49	7.68	0.83	5.95
X-042-20	35,300	3/4	0.87	2.87	2.05	5.12	8.74	0.91	10.58
X-042-22	42,700	7/8	0.94	2.76	2.20	5.47	9.72	1.02	14.11

X-046 G-100 Clevis Foundry Hook

Clevis Foundry Hook

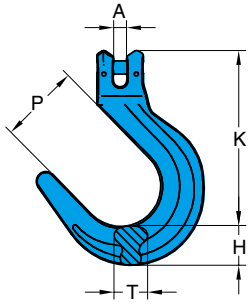
Product details

YOKE® Safety is our first priority™

X-P026
For load pin replacement

Aapplication

- Quenched and Tempered Alloy Steel.
- At least 25% greater WLL than traditional G80 products.
- Manufactured in accordance with DIN PAS 1061 and ASTM A952/A 952M,EN 1677- 1,
- Proof Load tested at 2.5 times the WLL with certification for each batch manufactured.
- Design Factor 4:1.
- Fatigue rated to 20,000 cycles at 1.5 times the WLL.
- Tempering temperature minimum 400°C
- Not used for general chain sling applications, rather for use where a large throat opening is necessary.
- Before using the hook, check whether hooks without safety latches are allowed to be used for the particular application.



Item Code	WLL	Chain Size	Dimensions [in]					Net Weight
	4:1 lbs	[in]	A	H	K	P	T	lbs
X-046-07	5,700	9/32-5/16	0.35	1.06	5.24	2.44	0.75	2.09
X-046-10	8,800	3/8	0.43	1.26	6.42	2.91	0.91	3.97
X-046-13	15,000	1/2	0.55	1.54	7.87	3.46	1.26	7.94
X-046-16	22,600	5/8	0.71	1.85	9.41	3.86	1.61	14.11
X-046-20	35,300	3/4	0.83	2.44	12.01	4.45	1.81	24.69

X-027 G-100 Self-Locking Swivel Hook

G-100 Eye Self Locking Hook

Product details

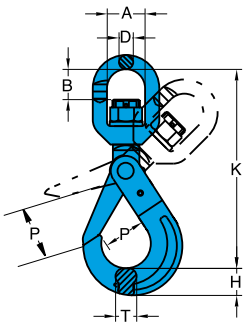
Aapplication

- Quenched and Tempered Alloy Steel.
- At least 25% greater WLL than traditional G80 products.
- Manufactured in accordance with EN 1677- 3 and ASME B30.26, ASME B30.10.
- Certified by DGUV GS-OA-15-05 & DGUV GS-MO-15-05
- Proof Load tested at 2.5 times the WLL with certification for each batch manufactured.
- Design Factor 4:1, Fatigue rated to 20,000 cycles at 1.5 times the WLL.
- Tempering temperature minimum 400°C
- Magnaflux crack detection is performed 100% on each batch.

YOKE® *Safety is our first priority™*

8-P025
For most sizes

8-P025T
For 26mm



Item Code	WLL [lbs]		Chain Size	Dimensions [in]							Net Weight
	4:1	5:1	[in]	A	B	D	H	K	P	T	Lbs
X-027-06	3,200	2,600	7/32	1.26	0.87	0.47	0.75	5.87	1.10	0.59	1.54
X-027-07	5,700	4,600	9/32-5/16	1.42	1.14	0.51	0.94	7.32	1.34	0.79	2.65
X-027-10	8,800	7,000	3/8	1.61	1.34	0.63	1.18	8.58	1.73	1.02	4.41
X-027-13	15,000	12,000	1/2	1.81	1.69	0.83	1.54	10.87	2.01	1.18	9.04
X-027-16	22,600	18,100	5/8	2.40	1.97	0.91	1.93	12.95	2.36	1.42	15.87
X-027-20	35,300	28,200	3/4	2.91	3.23	0.98	2.56	15.24	2.76	2.09	28.66
X-027-22	42,700	34,200	7/8	3.82	3.74	1.30	2.48	17.99	3.15	1.93	44.09
X-027-26	59,700	47,800	1	4.84	4.53	2.05	2.72	21.06	3.90	2.20	72.75

VCGH Cobra - Clevis Hoist Hooks

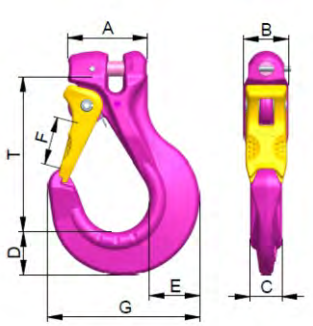
Clevis Type Hoist Hook

Product details

Aapplication

- A robust improved version without a protruding hook tip.
- The forged safety latch engages in the tip of the hook and is thus protected against lateral bending.
- With a triple coiled corrosion protected double leg spring.
- Thickened tip of the hook to prevent misuse.
- Wear marks on both sides.
- Gauge marks for measuring the width of the hook opening
- Connecting bolt and tensioning sleeve are pre-assembled.

RUD®



Item Code	WLL [lbs]	Chain Size	Dimensions [in]								Net Weight
	4:1	[in]	T	A	B	C	D	E	F	G	Lbs
7984439	1,390	5/32	2.20	0.79	0.55	0.49	0.51	0.55	0.71	2.05	0.26
7100498	3,300	7/32	2.99	1.50	0.87	0.63	0.79	0.94	0.98	2.83	0.86
7100499	5,500	5/16	3.82	1.97	1.10	0.79	1.10	1.26	1.18	3.74	1.72
7100500	8,800	3/8	4.25	2.36	1.42	1.02	1.42	1.54	1.38	4.65	3.31
7100501	15,000	1/2	4.96	2.99	1.81	1.18	1.46	1.89	1.57	5.31	6.26
7100502	22,000	5/8	5.98	3.27	2.20	1.42	1.93	2.28	1.89	6.34	10.34

WARNING: NEVER EXCEED WORKING LOAD LIMIT!

Failure to follow instructions can result in serious property damage, injury or death!

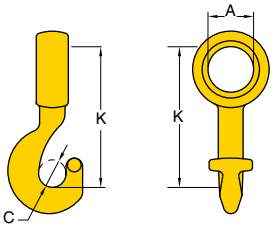
For full user manual please visit www.superslings.ca

8-063 Twist Eye Choke Hook Code "KE"

Sliding Choker Hook

Product details

YOKE® Safety is our first priority™

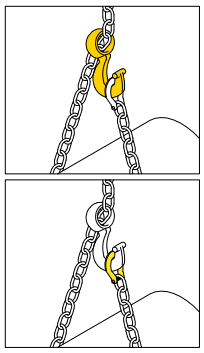


Aapplication

- Material: Steel
- Finish: Powder Coated
- Design Factor: 4:1
- Identification: Trademark, Size/WLL, Batch Code
- Rated in Metric Ton(s)

Special Order

Item Code	WLL [lbs]	Dimensions [in]				Net Weight
	4:1	mm	A	C	K	Lbs
8-063-07	4,400	9/32-5/16	1.26	0.75	3.74	0.88
8-063-10	6,900	3/8	1.61	0.83	4.57	1.76
8-063-13	11,700	1/2	1.97	1.06	5.91	4.41
8-063-16	17,600	5/8	2.64	1.26	7.28	6.83



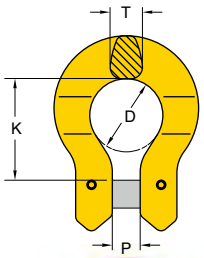
8-018 Omega Link Code "YO"

Connecting Link

Product details

YOKE® Safety is our first priority™

Special Order

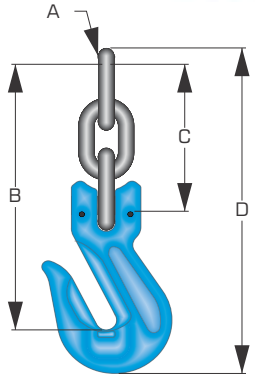


Item Code	WLL [lbs]	Chain Size	Dimensions [in]				Net Weight
	4:1	[in]	D	K	P	T	Lbs
8-018-06	2,100	7/32	0.83	1.18	0.31	0.35	0.22
8-018-07	4,500	9/32-5/16	1.06	1.42	0.35	0.43	0.44
8-018-10	7,100	3/8	1.26	1.73	0.47	0.59	0.88
8-018-13	12,000	1/2	1.65	2.17	0.63	0.67	1.76
8-018-16	18,100	5/8	1.97	2.72	0.71	0.87	3.53

Grade 100 Grab Hook Shortening Leg

Chain Shortener

Product details



Item Code	WLL [lbs]	Chain Size	Dimensions [in]				Net Weight
	4:1	[in]	A	B	C	D	lbs
53-ADJ932	5,700	9/32-5/16	0.29	4.91	2.55	6.05	1.76
53-ADJ38	8,800	3/8	0.40	5.49	3.59	7.95	3.53
53-ADJ12	15,000	1/2	0.52	8.82	4.71	10.88	7.06
53-ADJ58	22,600	5/8	0.64	10.95	5.79	13.55	11.9

8-078 Grade 80 Shortening Clutch w/ Half-Link

Chain Shortener

Product details

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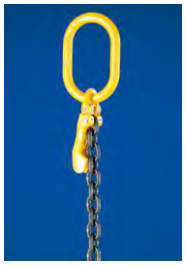
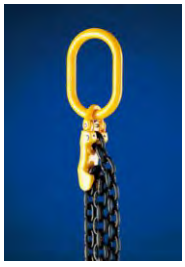
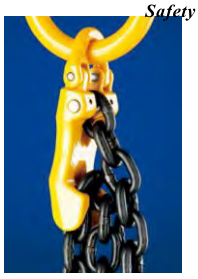
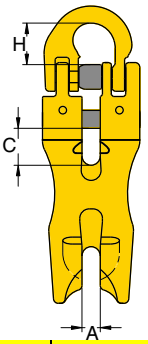
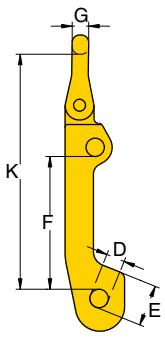










Item Code	WLL [lbs]	Chain Size	Dimensions [in]								Net Weight
	4:1	[in]	A	C	D	E	F	H	G	K	lbs
8-078-07	4,500	9/32-5/16	0.47	0.79	0.39	0.91	2.76	0.87	0.35	5.04	1.54
8-078-10	7,100	3/8	0.51	1.02	0.47	1.14	3.43	1.02	0.43	6.06	2.87
8-078-13	12,000	1/2	0.59	1.30	0.63	1.46	4.53	1.42	0.59	7.99	6.17
8-078-16	18,100	5/8	0.83	1.54	0.75	1.81	5.63	1.54	0.75	9.76	11.68

Midgrab Chain Shortener

Chain Shortener

Product details

Aapplication

- Instant mounting and positioning on any part of the chain.
- Designed to prevent inadvertent chain disengagement.
- Can be set idle on the chain leg when shortening is not required
- For high visibility in the field.
- Fatigue tested
- Forged alloy steel
- Quenched and tempered
- 100% proof load of each MIG
- Secure mounting with locking set on any desired part of the chain with one chain direction open for shortening
- Close-open function in both chain directions for safe retention of the chain
- Spring and trigger in stainless steel
- Easy-to-use shortening in either chain direction up-down
- The design makes it easy to place the MIG on the chain correctly.

Locking options

MIG C

MIG CC

MIG L

MIG LC

f-locking devices for MIG

Note! The MIG should be used with at least one locking devices.

L - fixed locking sel

for fixed mounting

Code:

L-8: B14905
L-10: B14915
L-13: B14917

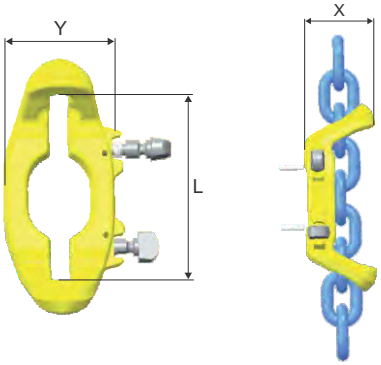
C - close/open locking set

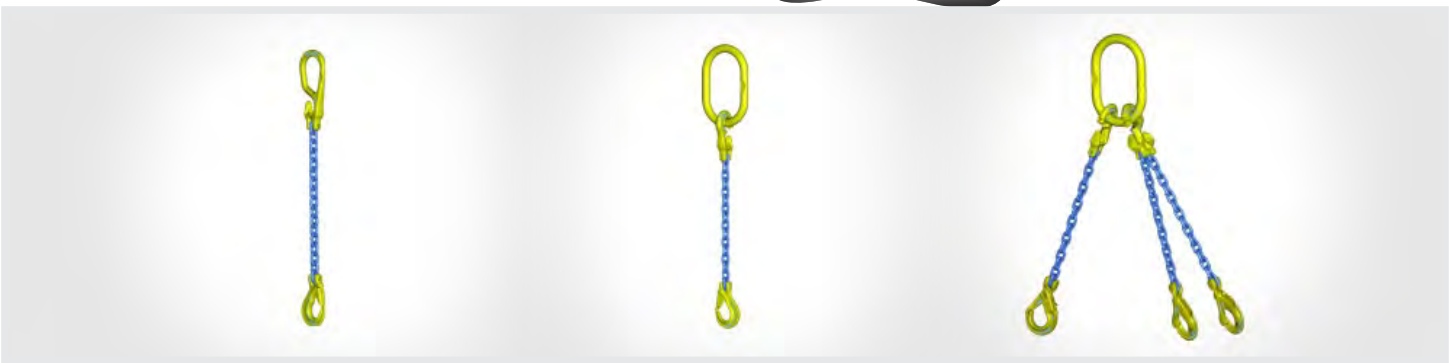
Spring operated locking device. Can be placed either in open or closed position.

Code:

C-8: B14904
C-10: B14914
C-13: B14916

Item Code	WLL (lbs) 4:1	Dimensions (in)			Net Weight
	EN 1677-4	L	X	Y	lbs
MIG- 8-10	5,700.00	3.74	1.97	2.36	1.38
MIG-10-10	8,800.00	4.92	2.76	3.03	2.34
MIG-13-10	15,000.00	5.91	3.54	3.15	5.38
MIG CC-8-10	5,700.00	3.74	1.97	2.36	2.18
MIG CC-10-10	8,800.00	4.92	2.76	3.03	2.18
MIG CC-13-10	15,000.00	5.91	3.54	3.15	5.73





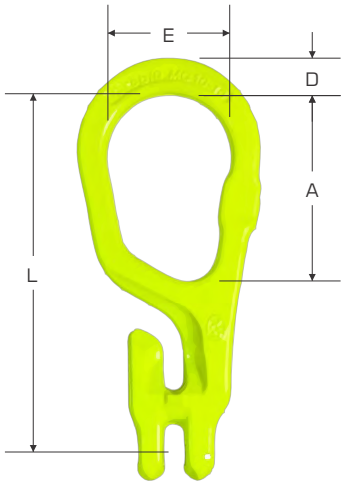
MG - Master Grab

Masterlink

Product details

GrabIQ GUNNEBO Industries

All-in-one compact top link.
Safety factor 4:1



Item Code	WLL [lbs]	Chain Size	Dimensions [in]				Net Weight
	4:1	[in]	L	A	E	D	lbs
MG-6-10	3,300	7/32	5.71	3.46	2.36	0.59	1.11
MG-8-10	5,700	9/32-5/16	6.73	3.62	2.36	0.71	2.12
MG-10-10	8,800	3/8	8.31	4.45	2.95	0.87	4.09
MG-13-10	15,000	1/2	10.28	5.43	3.54	1.02	7.88
MG-16-10	22,600	5/8	12.24	6.18	4.13	1.22	13.30

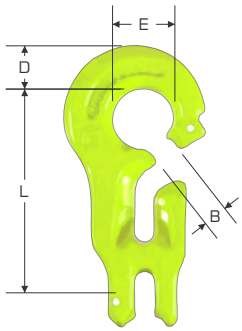
CG - C-Grab

Masterlink

Product details

GrabIQ GUNNEBO Industries

For use with master link, eye hooks and choke. All GrabiQ C-connectors can be equipped with Quick Pin.



Item Code	WLL [lbs]	Chain Size	Dimensions [in]				Net Weight
	4:1	[in]	L	B	E	D	lbs
CG-6-10	3,300	7/32	3.15	0.43	0.94	0.75	0.79
CG-8-10	5,700	9/32-5/16	4.21	0.47	1.26	0.94	1.74
CG-10-10	8,800	3/8	5.28	0.59	1.57	1.14	3.48
CG-13-10	15,000	1/2	6.77	0.71	2.05	1.50	7.28
CG-16-10	22,600	5/8	8.46	0.87	2.52	1.85	13.40

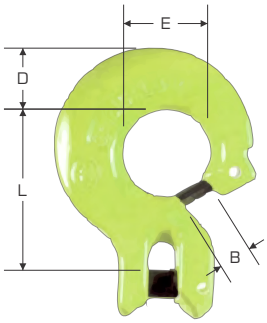
CL - C-Lok

Masterlink

Product details

GrabIQ GUNNEBO Industries

For use with master links, eye hooks and choke. All GrabiQ C-connectors can be equipped with Quick Pin.



Item Code	WLL [lbs]	Chain Size	Dimensions [in]				Net Weight
	4:1	[in]	L	B	E	D	lbs
CL-6-10	3,300	7/32	1.69	0.43	0.94	0.71	0.49
CL-8-10	5,700	9/32-5/16	2.28	0.47	1.26	0.94	1.12
CL-10-10	8,800	3/8	2.91	0.59	1.57	1.14	2.10
CL-13-10	15,000	1/2	3.70	0.71	2.05	1.50	4.69
CL-16-10	22,700	5/8	4.69	0.87	2.52	1.89	8.20

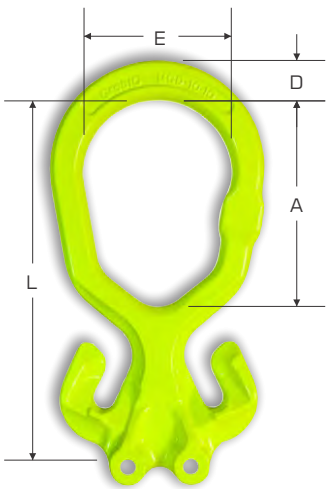
MGD - Master Grab Duo

Masterlink

Product details

GrabIQ GUNNEBO Industries

All-in-one compact top link for 2-leg slings.
Safety factor 4:1



Item Code	WLL [lbs]	Chain Size	Dimensions [in]				Net Weight
	4:1	[in]	L	A	E	D	lbs
MGD-6-10	4,600	7/32	5.67	3.54	2.36	0.67	1.46
MGD-8-10	7,700	9/32-5/16	6.73	3.94	2.95	0.83	2.97
MGD-10-10	12,300	3/8	8.31	4.88	3.54	0.94	5.32
MGD-13-10	20,900	1/2	10.31	5.87	4.13	1.22	10.46
MGD-16-10	30,900	5/8	12.20	6.89	4.72	1.38	17.98

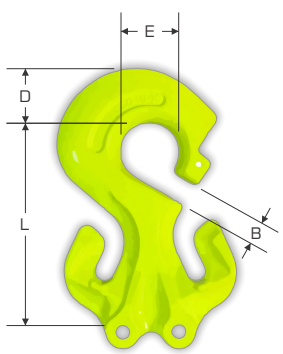
CGD - C-Grab Duo

Masterlink

Product details

GrabIQ GUNNEBO Industries

For use with master links. All GrabiQ C-connectors can be equipped with Quick Pin.



Item Code	WLL [lbs]	Chain Size	Dimensions [in]				Net Weight
	4:1	[in]	L	B	E	D	lbs
CGD-6-10	4,600	7/32	3.11	0.43	0.94	0.87	1.12
CGD-8-10	7,700	9/32-5/16	4.21	0.47	1.26	1.14	2.61
CGD-10-10	12,300	3/8	5.28	0.59	1.57	1.46	5.20
CGD-13-10	20,900	1/2	6.81	0.75	1.89	1.89	12.06
CGD-16-10	30,900	5/8	8.46	0.87	2.52	2.24	20.70

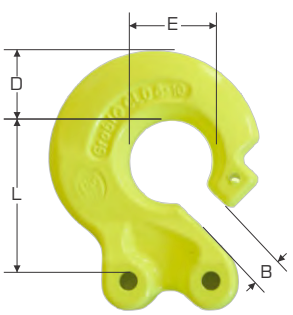
CLD - C-Lok Duo

Masterlink

Product details

GrabIQ GUNNEBO Industries

For use with master links. All GrabiQ C-connectors can be equipped with Quick Pin.



Item Code	WLL [lbs]	Chain Size	Dimensions [in]				Net Weight
	4:1	[in]	L	B	E	D	lbs
CLD-6-10	4,600	7/32	1.69	0.43	0.94	0.87	0.70
CLD-8-10	7,700	9/32-5/16	2.28	0.47	1.26	1.14	1.55
CLD-10-10	12,300	3/8	2.91	0.59	1.57	1.46	3.00
CLD-13-10	20,900	1/2	3.70	0.71	2.05	1.81	5.85
CLD-16-10	30,900	5/8	4.69	0.98	2.52	2.24	11.91

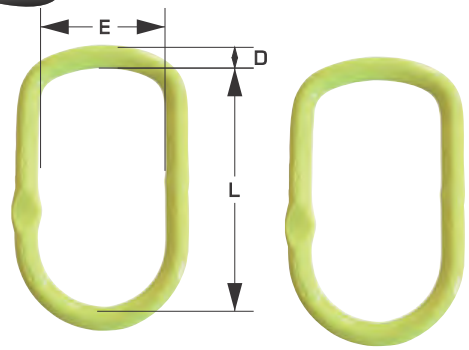
MFH - Masterlink Hybrid

Masterlink

Product details

GrabIQ™ GUNNEBO Industries

Designed for crane hooks DIN 15401 and 15402. Designed for use with CL, CLD, CG and CGD. 3- and 4-leg chain slings require CLD / CGD.



Item Code	WLL [lbs]		Chain Size [in]			Dimensions [in]			Net Weight
	(SF 5:1) EN 1677-4	(SF 5:1) ASTM A-952	1-leg	2-leg	3-4-leg	L	E	D	lbs
MFH-1310-10	16,500	17,600	1/2	3/8	9/32-5/16	9.06	4.92	0.87	4.63
MFH-1613-10	22,000	30,000	5/8	1/2	3/8	9.84	5.31	1.10	8.09
MFH-2016-10	37,500	45,400	3/4	5/8	1/2	11.02	5.31	1.26	11.62
MFH-2220-10	61,700	68,100	1	3/4	5/8	12.60	6.89	1.57	21.50
MFHW-2220-10	58,600	61,700	1	3/4	5/8	13.98	8.86	1.57	24.43

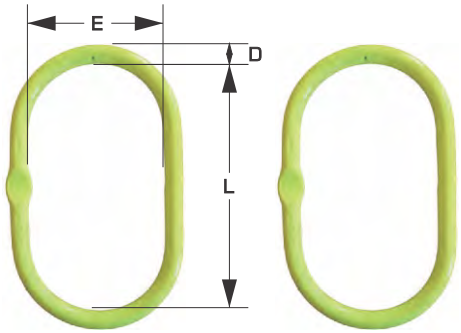
MFX - Oversized Masterlink

Masterlink

Product details

GrabIQ™ GUNNEBO Industries

Oversized, for 1- and 2-leg sling. Designed for use with CL, CLD, CG and CGD.



Item Code	WLL [lbs]		Chain Size [in]		Dimensions [in]			Net Weight
	(SF 5:1) EN1677-4	(SF 5:1) ASTM A-952	1-Leg	2-Leg	L	E	D	lbs
MFX-108-10	9,400	11,500	-	9/32-5/16	13.39	7.09	0.98	8.06
MFX-1310-10	16,500	17,600	1/2	3/8	13.39	7.09	1.10	10.18
MFX-1613-10	24,700	30,000	5/8	1/2	13.39	7.09	1.34	15.43
MFX-2016-10	35,300	45,400	3/4	5/8	13.39	7.09	1.57	21.29

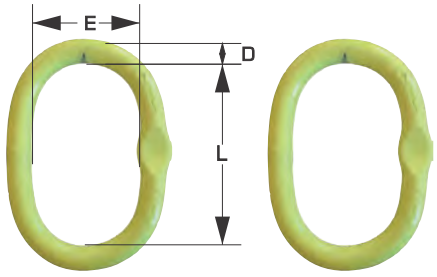
MF - Masterlink w/ Engineered Flat

Masterlink

Product details

GrabIQ™ GUNNEBO Industries

For 1-, 2-, 3- and 4-leg slings. Designed for use with CL, CLD, CG and CGD. 3- and 4-leg chain slings require CLD / CGD.



Item Code	WLL [lbs]		Chain Size [in]			Dimensions [in]			Net Weight
	(SF 5:1) EN 1677-4	(SF 5:1) ASTM A-952	1-leg	2-leg	3-4-leg	L	E	D	lbs
MF-6-10	3,300	3,300	7/32	-	-	3.94	2.36	0.43	0.51
MF-86-10	5,500	7,100	7/32, 5/16	7/32	-	4.92	2.76	0.55	0.97
MF-108-10	8,800	11,500	3/8	9/32-5/16	7/32	5.51	3.15	0.67	1.70
MF-1310-10	16,500	17,600	1/2	3/8	9/32-5/16	6.30	3.74	0.87	3.26
MF-1613-10	22,000	30,000	5/8	1/2	3/8	7.48	4.33	1.10	6.17
MF-2016-10	37,500	45,400	3/4	5/8	1/2	9.45	5.51	1.34	11.64
MF-2220-10	55,100	68,100	7/8	3/4	5/8	9.84	5.91	1.57	17.13