pewag

WORLD'S STRONGEST CHAIN

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Industrial Products

Catalog #IND08

THE POWER OF PEWAG

- The **PEWAG** Group is one of the world's largest chain manufacturers.

- **PEWAG** was established in 1730 in Austria and has 275 years of experience in manufacturing chains.

- **PEWAG** is ISO 9001 certified and meets or exceeds all international standards such as the European-EN Standards and US- NACM, ASTM or ANSI.

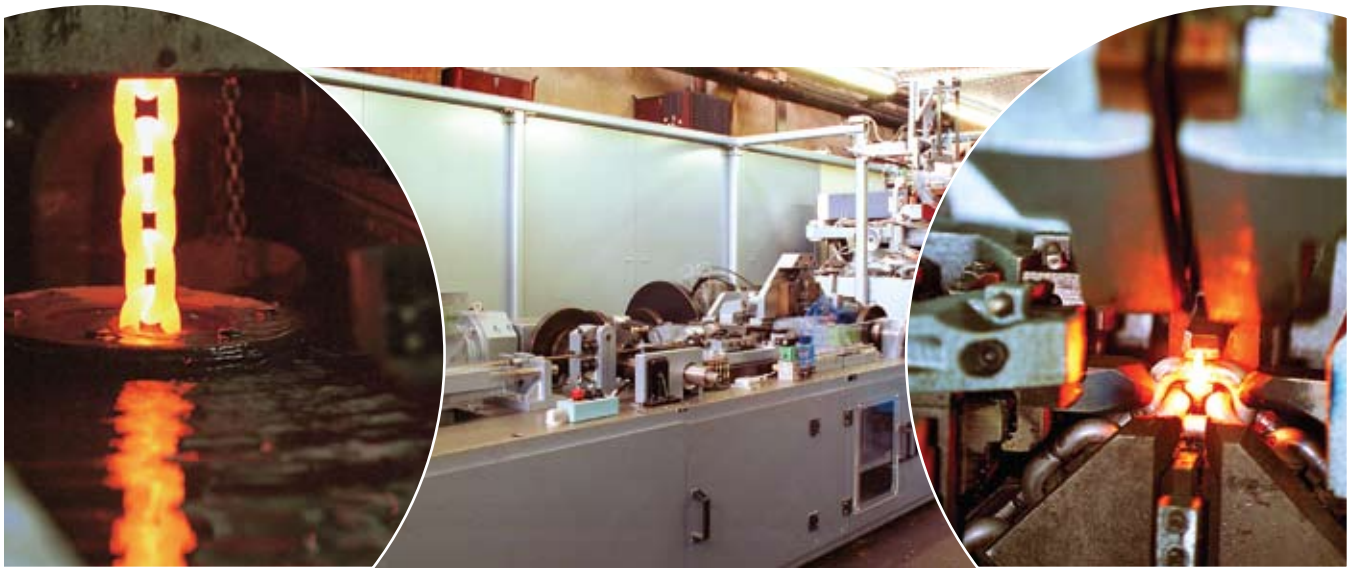
- No other chain manufacturer world-wide has more technological experience, engineering expertise, product offering and distribution network than PEWAG.

PEWAG North America:

- **PEWAG North America** was founded in 1975

- **PEWAG** has established itself as a
  - Technological innovator (first to introduce Grade 100 and Grade 120)
  - Supplier of high-quality chain whether Industrial, Traction Chain or Tire Protection Chains
  - Service oriented company that provides solutions for our customers

OVER 30 YEARS IN NORTH AMERICA



INDEX

Continuous Maintenance:

Chain and fittings must be withdrawn from service if any damage or deformation is noticed.

Maintenance:

Keep a record on all chain slings. Depending on the use of the slings, they should be inspected regularly in accordance with national regulations (ASME B30.9).

Inspection Procedure:

Each link and each attachment shall be examined individually, taking care to expose inner link surfaces of the chain and attachments.

Visual Inspection:

Check for wear, nicks, cracks, breaks, gouges, stretch, bends, weld splatter, discoloration from excessive heat and throat opening of hooks.

Measuring:

The medium link thickness must not be reduced by more than 10% of the nominal diameter on any part of the chain. The elongation of the chain should not exceed 5% at any point.

Inspection and testing should be carried out in accordance with national regulations.

WARNING

Lifting...

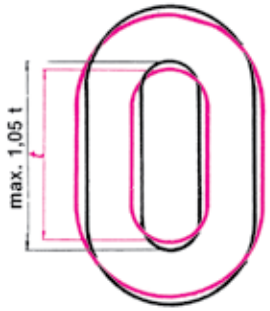
...is dangerous work only competent persons are allowed to do. Please keep in mind all the hazards and risks covered in ASTM-A906, ISO 3056, EN 818-6 and other relevant standards.

Maximum Tolerances

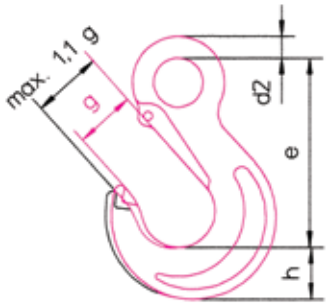
(For all chain and components)

Designation	Dimension	Max. Tolerance
Chain and Master rings	d t	-10% +5%
HS, HSK, LH, F PS, P, KHS, KLH, KF, KP, XK, KO	e d2 and h g	+5% -10% +10%
C, CL, CK, CAR	e c (same as d2)	+5% -10%
BW	e angle	+5% ≥ 90

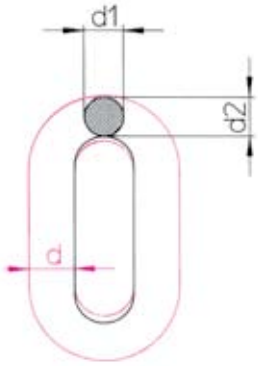
To be removed whenever $dm = \frac{d1 + d2}{2} <= 0.9\ d$



Pitch (p) stretched due to elongation (overloading)



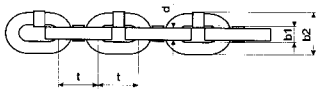
Hook bent open



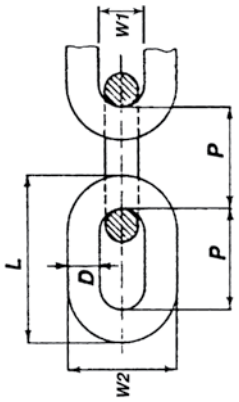
Pitch (p) increased due to wear

To be removed whenever a deformation is noticed

Chain: Dimensions, Weights



Grade 120 Alloy	Nominal Thickness d	Pitch t	Width		WLL lb Design Factor 4:1	Breaking Load lb	Weight lb/ft
			Inside b1 min.	Outside b2 max			
Nl 720 (9/32")	.276 (7mm)	.866	.393	1.024	5200	20800	.874
Nl 1020 (3/8")	.394 (10mm)	1.300	.559	1.457	10600	42400	1.747
Nl 1320 (1/2")	.512 (13mm)	1.614	.732	1.949	17900	71600	3.091



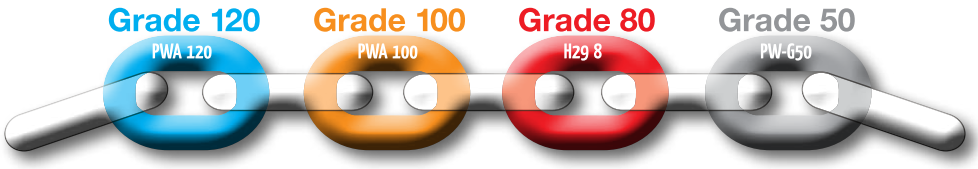
Diameter	Grade 100 Alloy	Grade 80 Alloy	Grade 50 Stainless Steel	Nominal Diameter D	Pitch P	Inside W1 min	Outside W2 max.	Weight lb/ft
3/16"	-	-	Nik 5	.197	.630	.295	.728	.376
7/32"	Ni 5.50	Ni 5.5	-	.217	.680	.319	.787	.470
9/32"	Ni 70	Ni 7	Nik 7	.276	.826	.375	.992	.738
5/16"	Ni 80	Ni 8	-	.315	.945	.430	1.134	.939
3/8"	Ni 100	Ni 10	Nik 10	.394	1.181	.531	1.417	1.475
1/2"	Ni 130	Ni 13	Nik 13	.512	1.535	.689	1.843	2.548
5/8"	Ni 160	Ni 16	Nik 16	.630	1.890	.846	2.268	3.830
3/4"	Ni 200	Ni 20	-	.787	2.440	1.008	2.776	5.780
7/8"	Ni 220	Ni 22	-	.866	2.598	1.161	3.118	7.324
* 1"	Ni 260	Ni 26	-	1.024	3.071	1.378	3.704	10.214
1-1/4"	-	Ni 32	-	1.260	3.780	1.657	4.646	15.455

* Dimensions are for Grade 100, for Grade 80 the inner width minimum is smaller, also W2 max is bigger.

Chain: Load Rating

Grade 120 Alloy				Grade 100 Alloy				Grade 80 Alloy				Grade 50 Stainless Steel			
Diameter	Working load lb Design factor 4:1	Manufac-turing test load lb	Breaking load lb	Diameter	Working load lb Design factor 4:1	Manufac-turing test load lb	Breaking load lb	Diameter	Working load lb Design factor 4:1	Manufac-turing test load lb	Breaking load lb	Diameter	Working load lb Design factor 4:1	Manufac-turing test load lb	Breaking load lb
												3/16"	1100	2200	4400
				7/32"	2700	5400	10800	7/32"	2100	4200	8400				
9/32"	5200	10400	20800	9/32"	4300	8600	17200	9/32"	3500	7000	14000	9/32"	2200	4400	8800
				5/16"	5700	11400	22800	5/16"	4500	9000	18000				
3/8"	10600	21200	42400	3/8"	8800	17600	35200	3/8"	7100	14200	28400	3/8"	4400	8800	17600
1/2"	17900	35800	71600	1/2"	15000	30000	60000	1/2"	12000	24000	48000	1/2"	7100	14200	28200
				5/8"	22600	45200	90400	5/8"	18100	36200	72400	5/8"	11000	22000	44000
				3/4"	35300	70600	141200	3/4"	28300	56600	113200				
				7/8"	42700	85400	170800	7/8"	34200	68400	136800				
				1"	59700	119400	238800	1"	47700	95400	190800				
								1 1/4"	72300	144600	289200				

Special G100 750 F chain for elevated temperature available. Call for details.

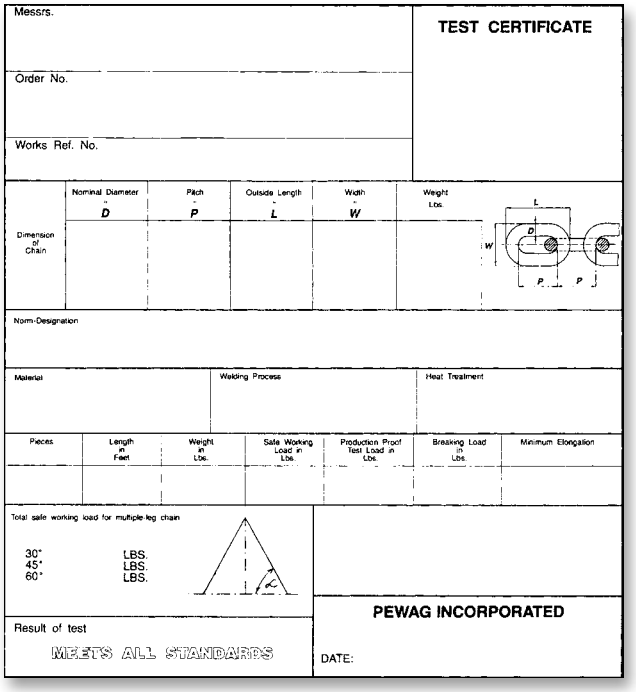


Identification & Testing

Pewag lifting chain and fitings are marked with a batch identification number and the manfaturer's identifcation marking: the number "120" or "12" to indicate Grade 120 Alloy, "100", "10" or "V" to indicate Grade 100 Alloy, "8" to indicate Grade 80 Alloy and "50" to indicate grade 50 Stainless.

All Alloy chains are 100% tested to 2 times the working load values and are furnished with a test certificate to this effect.

Every chain sling manufactured by Pewag is supplied with a steel tag and test certificate as shown.



Messrs.

TEST CERTIFICATE

Order No.

Works Ref. No.

Dimension of Chain	Nominal Diameter d	Pitch p	Outside Length L	Width W	Weight Lbs.

Norm-Designation

Material	Welding Process	Heat Treatment

Pieces	Length in Feet	Weight in Lbs.	Safe Working Load in Lbs.	Production Proof Test Load in Lbs.	Breaking Load in Lbs.	Minimum Elongation

Total safe working load for multiple-leg chain

30° LBS.
45° LBS.
60° LBS.

PEWAG INCORPORATED

Result of test

MEETS ALL STANDARDS

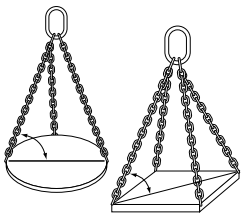
DATE:

Reduction Factors

To be used for various slinging methods and conditions without shock loads.

Load factor:	0.8	1.4	1.4	1.6	Reduction factor:	0.7	1	0.7	0.5
						Asymmetrical distribution of load	R = more than 2 x chain dia.	R = more than chain dia.	Sharp corners

Maximum Work Load of Various Chain Sling Applications

Design Factor		1-leg-Slings	2-leg-slings			3-leg slings and 4-leg slings			
4:1									
Angle		90 degrees	60 degrees	45 degrees	30 degrees	60 degrees	45 degrees	30 degrees	
Load Factor		1	1.7	1.4	1	2.6	2.1	1.5	
Grade 120 Alloy									Temperature Resistance
Ni 720	9/32"	5200	9000	7400	5200	13500	11000	7800	Retains 100% of work load limit at minus 40-400 degrees F. Not for temperatures over 400 degrees F.
Ni 1020	3/8"	10600	18400	15000	10600	27500	22500	15900	
NI 1320	1/2"	17900	31000	25300	17900	46500	38000	26900	
Grade 100 Alloy									
NI 5.50	7/32"	2700	4700	3800	2700	7000	5700	4000	Retains 100% of work load limit at minus 40-400 degrees F. Not for temperatures over 400 degrees F. Special G100 750 F chain for elevated temperature available. Call for details
NI 70	9/32"	4300	7400	6100	4300	11200	9100	6400	
NI 80	5/16"	5700	9900	8100	5700	14800	12100	8500	
NI 100	3/8"	8800	15200	12400	8800	22900	18700	13200	
NI 130	1/2"	15000	26000	21200	15000	39000	31800	22500	
NI 160	5/8"	22600	39100	32000	22600	58700	47900	33900	
NI 200	3/4"	35300	61100	49900	35300	91700	74900	53000	
NI 220	7/8"	42700	74000	60400	42700	110900	90600	64000	
NI 260	1"	59700	103400	84400	59700	155100	126600	89550	
Grade 80 Alloy									
NI 5.5	7/32"	2100	3600	3000	2100	5500	4400	3200	Retains 100% of work load limit at minus 40-400 degrees F, 90% at 400-570 degrees F, and 75% at 570-750 degrees F. Not for temperatures over 750 degrees F.
NI 7	9/32"	3500	6100	4900	3500	9100	7400	5200	
NI 8	5/16"	4500	7800	6400	4500	11700	9500	6800	
NI 10	3/8"	7100	12300	10000	7100	18400	15100	10600	
NI 13	1/2"	12000	20800	17000	12000	31200	25500	18000	
NI 16	5/8"	18100	31300	25600	18100	47000	38400	27100	
NI 20	3/4"	28300	49000	40000	28300	73500	60000	42400	
NI 22	7/8"	34200	59200	48400	34200	88900	72500	51300	
NI 26	1"	47700	82600	67400	47700	123900	101200	71500	
NI 32	1-1/4	72300	125200	102200	72300	187800	153400	108400	
Grade 50 Stainless Steel									
Nik 5	3/16"	1100	1900	1600	1100	2900	2300	1700	Retains 100% of work load limit at minus 50-750 degrees F, 75% at 750-1100 degrees F, and 50% at 1100-1290 degrees F, not for temperatures over 1290 degrees F.
Nik7	9/32"	2200	3800	3100	2200	5700	4600	3300	
Nik 10	3/8"	4400	7500	6200	4400	11500	9300	6600	
Nik 13	1/2"	7100	12100	10000	7100	18500	14900	10700	
*Nik 16	5/8"	11000	18700	15600	11000	23100	23100	16500	

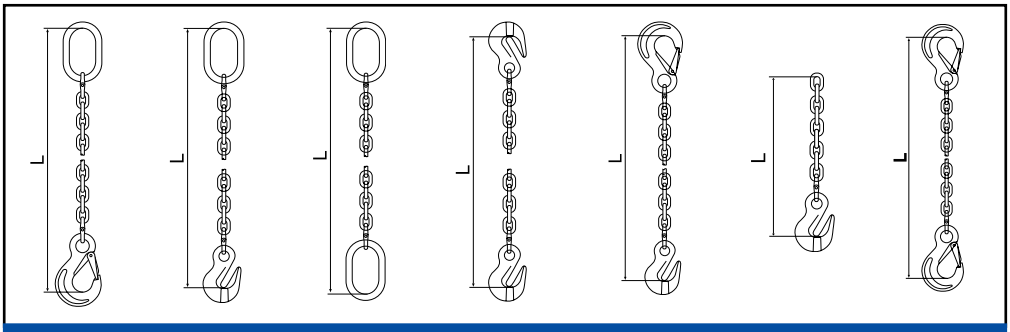
*Sling work load limits are reduced 10% when the HSK16 eye sling hook is used.

Alloy Slings can be assembled with the XK Shortening Hook

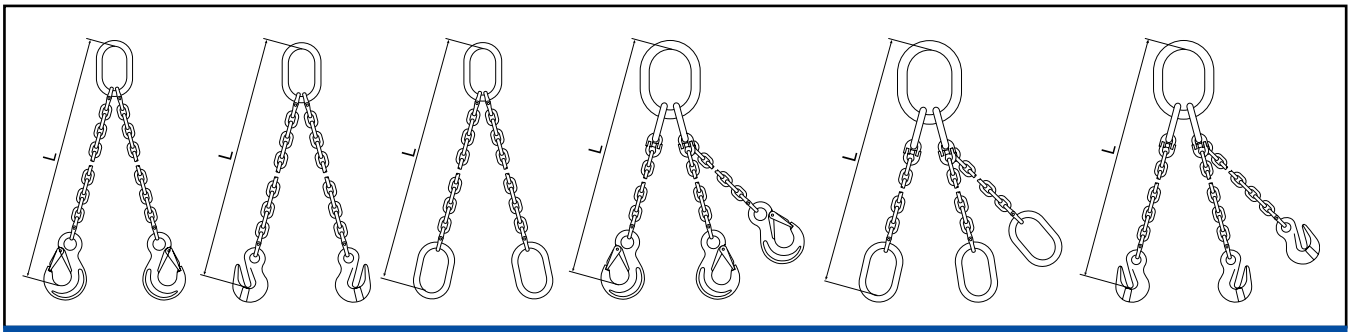
Standard Assemblies of Pewag Chain

Chain slings can be delivered with Connex connecting links and accessories ready fitted, with clevis fittings, or in welded construction.

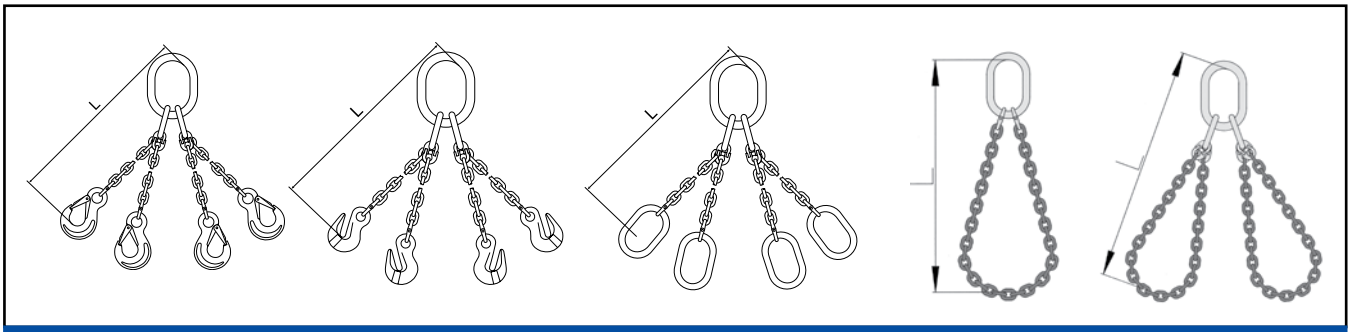
Should you require any chain sling assemblies other than those in this brochure, please send us a sketch of the desired model. The standard tolerance of the length "L" is + 2 – 0 chain pitch.



SOS SOG SOO SGG SSG SG SSS



DOS DOG DOO TOS TOO TOG



QOS QOG QOO Single Basket Double Basket

Ordering Data Example of How to Order

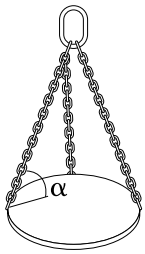
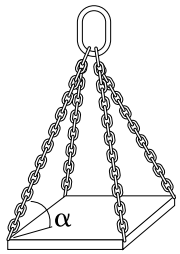
1. Determine the maximum load to be lifted.
2. Determine the type of slings needed (single, double, etc.).
3. Estimate the proper angle between the leg of the sling and the load during operation (see page 7).
4. Select the proper fittings (hooks, master links, etc.).
5. Determine the overall reach (measured from bearing point on master link to bearing point of fitting).
6. Choose chain size which meets your required work load, angle and reduction factor (see page 7).
7. Choose grade, type and finish of steel which meets your requirements.

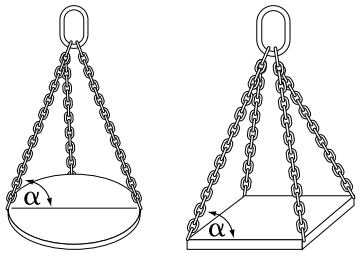
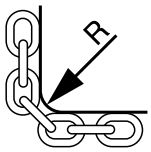
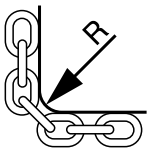
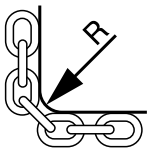
Winner Pro G120
The New Generation

pewag

WORLD'S STRONGEST CHAIN

Winner Pro G120
The New Generation of High Performance Overhead Lifting Equipment

Design Factor		1-leg-sling	2-leg-sling			3-leg and 4-leg-slings		
4:1								
Angle		90 degrees	60 degrees	45 degrees	30 degrees	60 degrees	45 degrees	30 degrees
Code	dim	WLL						
NI 720	9/32"	5200	9000	7400	5200	13500	11000	7800
NI 1020	3/8"	10600	18400	15000	10600	27500	22500	15900
NI 1320	1/2"	17900	31000	25300	17900	46500	38000	26900

Actual Chain temperature	-40°F TO 400°F					
Reduction factor	1					
For asymmetrical load distribution use single leg value for all angles of 2 leg sling, use 2 leg value for 3 and 4 leg sling						
Angle	30 degrees	45 degrees	60 degrees	30 degrees	45 degrees	60 degrees
Load factor with symmetrical load distribution	1	1.4	1.7	1.5	2.1	2.6
Load factor with asymmetrical load distribution	1	1	1	1	1.4	1.7
	 R larger than 2x chain dimension		 R larger than chain dimension		 R smaller than chain dimension	
Reduction factor	1		0.7		0.5	

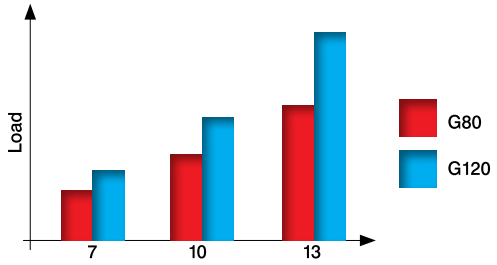
WARNING

Lifting... ...is dangerous work only competent persons are allowed to do. Please keep in mind all the hazards and risks covered in ASTM-A906, ISO 3056, EN 818-6 and other relevant standards.

Winner Pro G120
The New Generation of High Performance Overhead Lifting Equipment

50 % Higher Work Load Limit

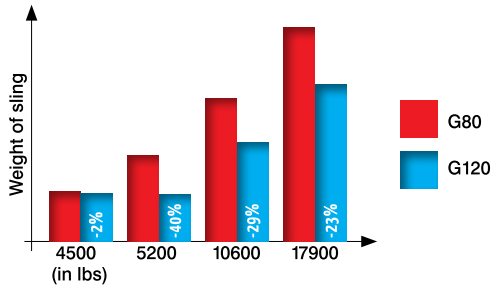
Grade 120 offers + 50% higher WLL over Grade 80 allowing a downsizing of chains:



Load (lbs)	Grade 80 chain size	Grade 120 chain size
4,500	5/16" (8mm)	9/32" (7mm)
5,200	3/8" (10 mm)	9/32" (7mm)
10,600	1/2" (13mm)	3/8" (10mm)
17,900	5/8" (16mm)	1/2" (13mm)

Weight Reduction

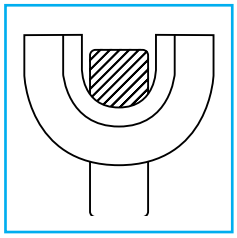
The downsizing of the chains results in lower weights for chain-slings:



Load (lbs)	Weight of average DOS chain-sling (5ft)		% Reduction
	Weight G80 (lbs)	Weight G120 (lbs)	
4,500	14.73	14.56	-2%
5,200	24.59	14.56	-40%
10,600	42.77	30.45	-29%
17,900	67.74	52.06	-23%

Higher Wear Resistance

Due to the special form of the profile chain, a larger contact is achieved between the bearing surfaces of the links (see diagram). This, in turn, reduces the surface pressure on the chain and consequently reduces wear substantially. This is a real advantage in abrasive environments.

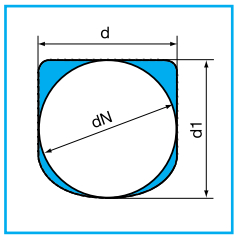


Bending Resistance

The new profile of the G120 chain has up to 38% higher moment of resistance compared to regular round-link chains with the same diameter. Therefore, the chain can withstand bending forces better than round-link chains and is well equipped for heavy applications.

Higher Design Factor

With same dimension of chain and workload, G120 offers a design factor of 6:1 compared to G80 with 4:1.



Color-Coded Corrosion Protection

G120 has a powder coated finish in blue, which provides easy identification and corrosion protection.

G120 meets or exceeds the G100 NACM/ASTM-test requirements for lifting chains

Exceeds the 4:1 NACM design factor if G80 loading is used
meets the NACM standard for heat resistance with 400° F
meets the 20,000 cycle ASTM-Standard fatigue test for Grade 100

Technical Data:

Hardness approx. 41 HRC
Nominal proof stress* 600N/mm2
Nominal breaking stress* 1200 N/mm2
Elongation min. 20%

Heat resistance up to 400°F
Components fatigue tested to 20,000 cycles
Surface powder coated blue
*calculated acc. usual definition for round steel chain

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WORLD'S STRONGEST CHAIN
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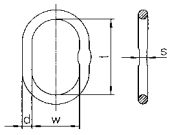
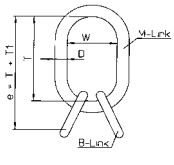
Enlarged Master Links M-G120



Master link for one leg slings or end link.
Working load limit of master link only.
For sling WLL see page 7 and 10.

Code	For single leg sling	WLL lb	d	t	w	s	weight lb/pc
M 1320	9/32" (7mm)	6100	0.551	4.724	2.756	0.394	0.97
M 1820	3/8" (10mm)	12800	0.748	6.299	3.740	0.551	2.67
M 2620	1/2" (13mm)	30000	1.063	7.480	4.331	0.787	5.84

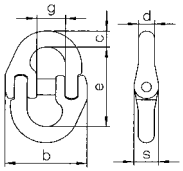
Enlarged Master Link Assemblies VM-G120



Master link assembly for multi leg slings.
For sling WLL see page 7 and 10.

Code	consisting of	for double leg sling	for 3-and 4 leg sling	e	weight lb/pc	M-Link		
						D	T	W
VM 720	M18+2B13	9/32 "(7mm)	–	8.425	3.42	0.748	6.299	3.740
VM 10720	M26+ 2B16	3/8" (10mm)	9/32" (7mm)	10.236	7.43	1.063	7.480	4.331
VM 131020	M32+2B20	1/2" (13mm)	3/8" (10mm)	12.402	13.23	1.300	9.055	5.118
VM 1320	M36+2B26	–	1/2" (13mm)	16.339	24.52	1.496	10.827	5.906

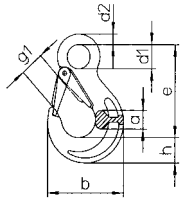
Connex-Connecting Link C-G120



General connecting link for connection of Master links to chain and chain to components.

Code	WLL lb	for chain	e	c	s	d	b max	g	weight lb/p
C 720	5200	9/32"	2.008	0.433	0.516	0.354	1.831	0.642	0.26
C 1020	10600	3/8"	2.772	0.630	0.787	0.496	2.579	0.846	0.73
C 1320	17900	1/2"	3.740	0.827	0.945	0.657	3.307	1.024	1.54

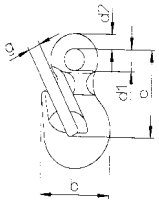
Eye Sling Hook HS-G120



General Purpose hook with forged safety latch.

Code	WLL lb	for chain	e	h	a	d1	d2	g1	b	weight lb/p
HS 720	5200	9/32"	4.173	1.060	0.748	0.984	0.433	1.024	3.465	1.10
HS 1020	10600	3/8"	5.158	1.299	1.024	1.339	0.630	1.220	4.272	2.38
HS 1320	17900	1/2"	6.457	1.713	1.299	1.693	0.748	1.535	5.264	4.03

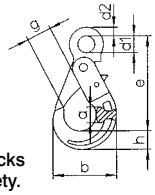
Eye Grab Hook P-G120



General Purpose hook.

Code	WLL lb	for chain	e	b	d1	d2	g	weight lb/p
P 720	5200	9/32"	2.776	2.291	0.787	0.453	0.413	0.66
P 1020	10600	3/8"	3.465	2.988	0.866	0.591	0.512	1.43
P 1320	17900	1/2"	4.449	3.976	1.024	0.709	0.669	3.00

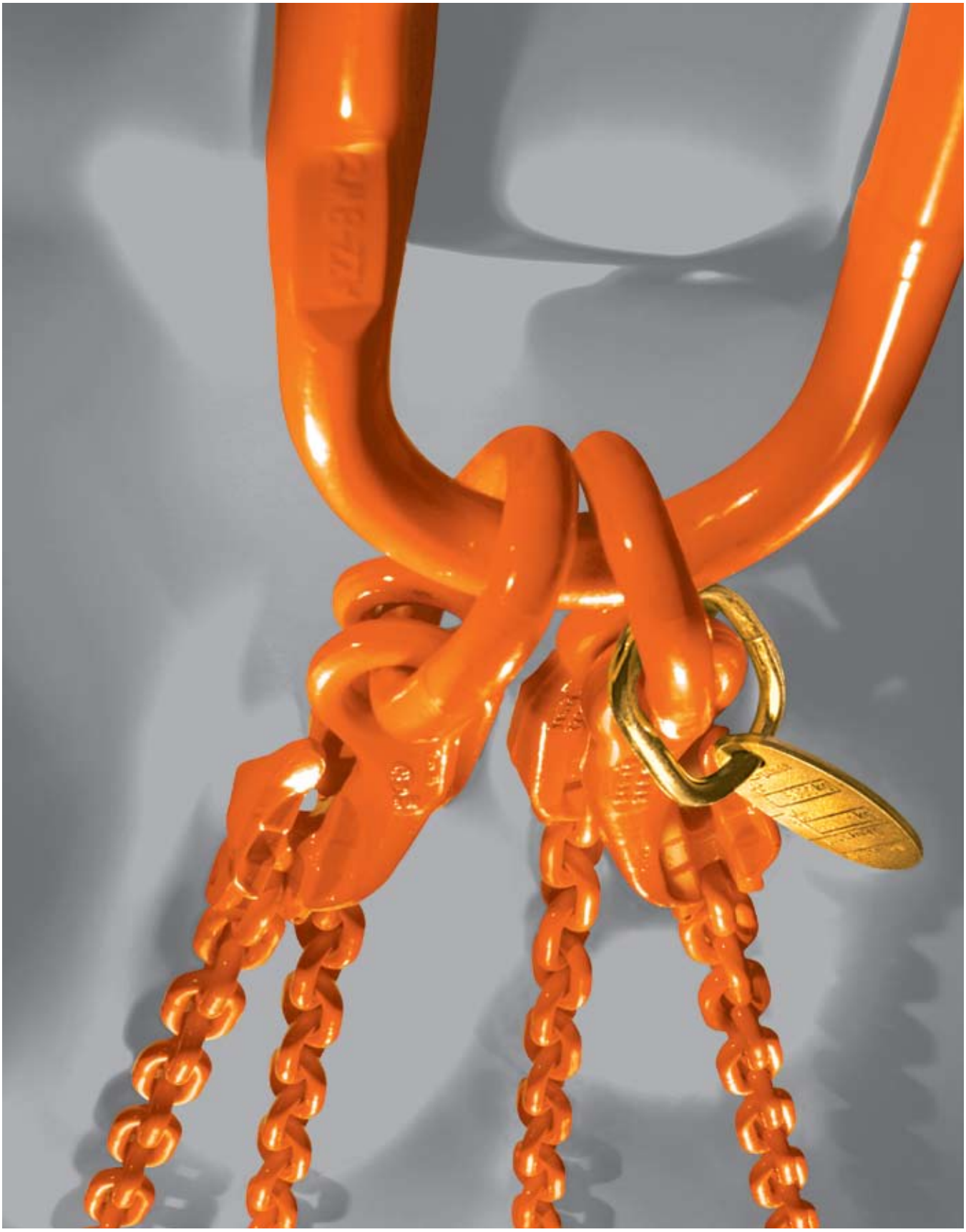
Self-Locking Hook LH-G120



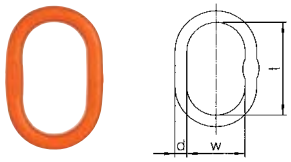
Automatically closes & locks under load for higher safety.

Code	WLL lb	for chain	e	h	a	b	d1	d2	g	weight lb/p
LH 720	5200	9/32"	4.97	1.00	0.93	3.52	0.97	0.53	1.34	2.0
LH 1020	10600	3/8"	6.20	1.23	1.09	4.39	1.21	0.66	1.83	3.5
LH 1320	17900	1/2"	8.07	1.56	1.32	5.72	1.57	0.86	2.18	7.5

Winner G100



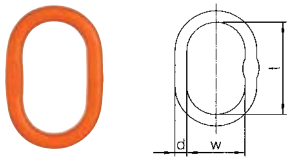
Master Link A



Master link for single leg slings and 2-leg slings.
Working load limit of master link only.
For sling WLL see page 7.

Code	WLL lb 4:1	stock dia.	d	t	w	Weight lb/pc.	Master link for chain Ø	
							1- leg	2-leg
A 100	3800	3/8"	0.39	3.15	1.97	0.31	7/32"	-
A 130	5800	1/2"	0.51	4.33	2.36	0.75	9/32"	7/32"
A 160	7500	5/8"	0.65	4.33	2.36	1.17	5/16"	9/32"
A 180	10000	3/4"	0.75	5.31	2.95	1.90	3/8"	5/16"
A 220	16700	7/8"	0.91	6.30	3.54	3.53	1/2"	3/8"
A 260	26000	1"	1.06	7.09	3.94	5.42	5/8"	1/2"
A 320	39100	1-1/4"	1.30	7.87	4.33	9.13	3/4"	5/8"
A 360	61100	1-1/2"	1.42	10.24	5.51	13.71	7/8"	3/4"
A 450	83100	1-3/4"	1.77	13.39	7.09	28.26	1"	7/8"
A 500	111000	2"	1.97	13.78	7.48	36.49	1-1/4"	1"
A 560	147300	2-1/4"	2.36	15.75	7.87	59.55		1-1/4"

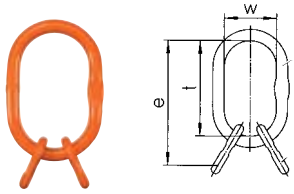
Enlarged Master Link M



The same as master link A above, however because of their larger inner dimensions, suitable for larger crane hooks or special hooks.
Working load limit of master link only.
For sling WLL see page 7.

Code	WLL lb 5:1	stock dia.	d	t	w	Weight lb/pc.	Master link for chain Ø	
							1- leg	2-leg
M 100	3800	3/8"	0.43	3.54	2.56	0.49	7/32	-
M 130	6100	1/2"	0.55	4.72	2.76	0.97	9/32	7/32"
M 160	8400	5/8"	0.63	5.51	3.15	1.48	5/16"	9/32"
M 180	12800	3/4"	0.75	6.30	3.74	2.40	3/8"	5/16"
M 220	18500	7/8"	0.91	6.30	4.33	3.73	1/2"	3/8"
M 260	30000	1"	1.06	7.48	4.33	5.84	5/8"	1/2"
M 320	45000	1-1/4"	1.30	9.06	5.12	10.54	3/4"	5/8"
M 360	61100	1-1/2"	1.50	10.83	5.91	16.49	7/8"	3/4"

Master Link Assemblies V



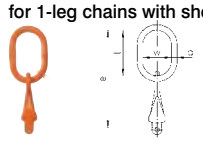
For asembling 3- and 4-leg chains with connex links, and for rope slings.
For sling WLL see page 7.

Code	stock dia.	e	t	w	Weight lb/pc.	Assembly forchain Ø 3- and 4-leg
V 5.50	3/4"	7.44	5.31	2.95	2.78	7/32"
V 70-80	7/8"	9.06	6.30	3.54	5.11	9/32"+5/16"
V 100	1"	10.43	7.09	3.94	8.11	3/8"
V 130	1-1/4"	12.40	7.87	4.33	14.24	1/2"
V 160	1-1/2"	15.75	10.24	5.51	22.18	5/8"
V 200	2"	19.69	13.78	7.48	50.42	3/4"
V 220	2"	20.47	13.78	7.48	54.65	7/8"
V 260	2-3/8"	22.44	15.75	7.87	83.20	1"
V 32	2-3/4"	25.98	18.11	9.84	146.83	1-1/4"

Master Link w/ Shortening Hooks

Master sets for single and multi-leg chains with welded-in XK shortening hook.

VXK 1 for 1-leg chains with shortening hook.



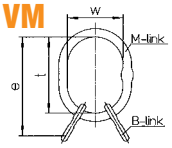
VXK 2 for 2-leg slings with shortening hooks.

VXK 4 for 3-& 4-leg slings w/ shortening hooks.

For sling WLL see page 7.

Code	For chain Ø	d	t	w	e	weight lb/pc
VXK 1-70	9/32"	0.51	4.33	2.36	9.13	2.12
VXK 1-100	3/8"	0.71	5.31	2.95	11.57	4.65
VXK 1-130	1/2"	0.91	6.30	3.54	14.29	9.48
VXK 1-160	5/8"	1.06	7.09	3.94	16.26	16.01
Code	**For chain Ø**	**d**	**t**	**w**	**e**	**weight lb/pc**
VXK 2-70	9/32"	0.63	4.33	2.36	9.13	3.90
VXK 2-100	3/8"	0.91	6.30	3.54	12.56	9.04
VXK 2-130	1/2"	1.06	7.09	3.94	15.08	17.33
VXK 2-160	5/8"	1.30	7.87	4.33	17.05	30.29
Code	**For chain Ø**	**d**	**t**	**w**	**e**	**weight lb/pc**
VXK 4-70	9/32"	0.91	6.30	3.54	13.86	10.67
VXK 4-100	3/8"	1.06	7.09	3.94	16.69	19.44
VXK 4-130	1/2"	1.30	7.87	4.33	20.39	38.05
VXK 4-160	5/8"	1.42	10.24	5.51	24.92	64.51

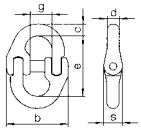
Enlarged Master Link Assemblies VM



For 3- and 4-leg slings. Larger inner width.
For sling WLL see page 7.

Code	stock dia.	e	t	w	Weight lb/pc.	Assembly for chain Ø 3- and 4-leg
VM 5.50	3/4"	8.43	6.30	3.74	3.15	7/32"
VM 70-80	7/8"	9.06	6.30	4.33	5.31	9/32" + 5/16"
VM 100	1"	10.83	7.48	4.33	8.84	3/8"
VM 130	1-1/4"	13.58	9.06	5.12	15.21	1/2"
VM 160	1-1/2"	16.34	10.83	5.91	24.52	5/8"

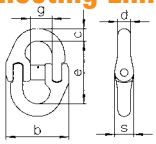
Connex Connecting Link C



General connecting link for connection of: master links to chain, chain to chain, hooks to chain.

Code	WLL lb 4:1	for chain	e	c	s	d	b	g	weight lb/pc.
C 5.50	2700	7/32"	1.75	0.31	0.43	0.30	1.54	0.56	0.13
C 70	4300	9/32"	2.01	0.39	0.51	0.35	1.83	0.67	0.26
C 80	5700	5/16"	2.42	0.45	0.59	0.39	2.09	0.72	0.40
C 100	8800	3/8"	2.83	0.50	0.70	0.50	2.48	0.91	0.73
C 130	15000	1/2"	3.46	0.75	0.87	0.66	3.11	1.09	1.54
C 160	22600	5/8"	4.06	0.83	1.14	0.83	4.17	1.30	2.51
C 200	35300	3/4"	4.53	1.16	1.37	0.96	4.65	1.64	4.72
C 220	42700	7/8"	6.34	1.34	1.54	1.00	5.83	2.00	9.04
C 260	59700	1"	7.48	1.57	1.81	1.18	6.88	2.36	15.77
C 32	72300	1-1/4"	7.64	1.57	1.27	1.26	7.56	3.11	18.73

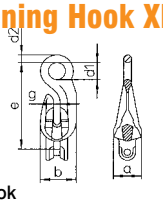
Connex Connecting Link CL



Non-removable.

Code	WLL lb 4:1	for chain	e	c	s	d	b	g	weight lb/pc.
CL 70	4300	9/32"	2.01	0.39	0.51	0.35	1.83	0.67	0.26
CL 100	8800	3/8"	2.83	0.50	0.70	0.50	2.48	0.91	0.73
CL 130	15000	1/2"	3.46	0.75	0.87	0.66	3.11	1.09	1.54
CL 160	22600	5/8"	4.06	0.83	1.14	0.83	4.17	1.30	2.51

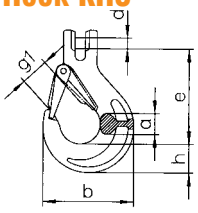
Clevis Shortening Hook XK



In line shortening hook not for basket configurations.

Code	WLL lb 4:1	for chain	e	b	a	d1	d2	g	weight lb/pc.
XK 5.50	2700	7/32"	3.31	1.46	1.12	0.71	0.35	0.31	0.66
XK 70	4300	9/32"	4.823	2.13	1.54	0.94	0.47	0.41	1.37
XK 80	5700	5/16"	4.80	2.13	1.54	0.94	0.47	0.41	2.76
XK 100	8800	3/8"	6.26	2.74	1.97	1.22	0.55	0.51	2.76
XK 130	15000	1/2"	7.99	3.62	2.52	1.46	0.71	0.59	5.95
XK 160	22600	5/8"	9.21	4.02	3.15	1.89	0.94	0.77	10.58

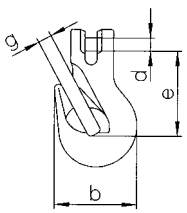
Clevis Sling Hook KHS



General purpose hook, with forged safety catch.

Code	WLL lb 4:1	for chain	e	h	a	d	g1	b	weight lb/pc.
KHS 5.50	2700	7/32"	2.72	0.79	0.59	0.29	0.75	2.60	0.44
KHS 70	4300	9/32"	3.74	1.10	0.75	0.35	1.02	3.54	1.16
KHS 80	5700	5/16"	3.72	1.10	0.75	0.39	1.02	3.54	1.16
KHS 100	8800	3/8"	4.29	1.36	0.98	0.49	1.22	4.25	2.43
KHS 130	15000	1/2"	5.35	1.61	1.34	0.63	1.54	5.16	4.41
KHS 160	22600	5/8"	6.10	1.93	1.46	0.79	1.77	6.02	7.67
KHS 200	35300	3/4"	7.22	2.09	2.00	0.94	2.09	6.97	11.02
KHS 220	42700	7/8"	8.41	2.44	2.05	1.06	2.44	7.72	19.85

Clevis Grab Hook KP



First G100 grab hook that does not require WLL reduction when used for shortening.

Code	WLL lb 4:1	for chain	e	b	d	g	weight lb/pc.
KP 5.50	2700	7/32"	1.77	1.87	0.29	0.31	0.42
KP 70	4300	9/32"	2.40	2.28	0.35	0.41	0.84
KP 80	5700	5/16"	2.38	2.28	0.39	0.41	0.84
KP 100	8800	3/8"	2.99	2.99	0.49	0.51	1.87
KP 130	15000	1/2"	4.09	3.98	0.63	0.67	4.19
KP 160	22600	5/8"	4.57	4.72	0.79	0.77	7.94
KP 200	35300	3/4"	5.51	5.90	0.94	0.96	13.60
KP 220	42700	7/8"	6.59	6.50	1.06	1.06	19.85

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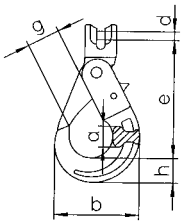
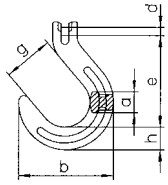
Clevis Safety Hook KLH



Automatically closes and locks under load.

Code	WLL lb 4:1	for chain	e	h	a	b	d	g	weight lb/pc.
KLH 5.50	2700	7/32"	3.70	0.78	0.63	2.79	0.29	1.10	1.10
KLH 70	4300	9/32"	4.84	1.02	0.79	3.46	0.35	1.34	1.98
KLH 80	5700	5/16"	4.84	1.02	0.79	3.46	0.39	1.34	1.98
KLH 100	8800	3/8"	5.67	1.18	0.94	4.21	0.49	1.77	3.53
KLH 130	15000	1/2"	7.09	1.57	1.37	5.43	0.63	2.05	6.39
KLH 160	22600	5/8"	8.58	1.97	1.61	6.61	0.79	2.36	12.79

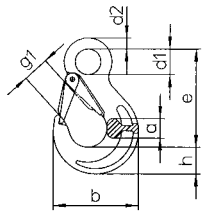
Clevis Foundry Hook KF



Used when throat opening of sling hook is to small.

Code	WLL lb 4:1	for chain	e	h	a	g	d	b	weight lb/pc.
KF 70	4300	9/32"	4.74	1.14	0.98	2.52	0.35	4.65	2.20
KF 80	5700	5/16"	4.72	1.14	0.98	2.52	0.39	4.65	2.20
KF 100	8800	3/8"	5.51	1.38	1.26	2.99	0.49	5.63	3.92
KF 130	15000	1/2"	6.67	1.65	1.57	3.5	0.63	6.69	6.53

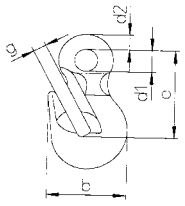
Eye Sling Hook HS



For general lifting applications.
All hooks with forged safety catch.

Code	WLL lb 4:1	for chain	e	h	a	d1	d2	g1	b	weight lb/pc.
HS 5.50	2700	7/32"	3.33	0.83	0.65	0.79	0.39	0.75	2.68	0.44
HS 70-80	5700	9/32"+5/16"	4.17	1.06	0.75	0.98	0.43	1.02	3.46	1.10
HS 100	8800	3/8"	5.16	1.30	1.02	1.34	0.63	1.22	4.27	2.43
HS 130	15000	1/2"	6.46	1.71	1.30	1.69	0.75	1.54	5.26	4.41
HS 160	22600	5/8"	7.19	1.97	1.57	1.97	0.96	1.77	6.09	7.72
HS 200	35300	3/4"	8.07	2.17	1.89	2.17	1.06	2.09	6.99	10.36
HS 220	42700	7/8"	8.86	2.44	1.97	2.36	1.14	2.44	7.72	17.64
HS 260	59700	1"	10.19	2.95	2.36	2.75	1.46	2.87	9.25	26.44
HS 32	72300	1-1/4"	11.77	3.5	3.07	2.6	1.53	2.87	10.5	49.39

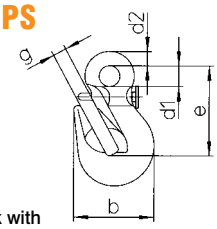
Eye Grab Hook P



First G100 grab hook that does not require WLL reduction when used for shortening.

Code	WLL lb 4:1	for chain	e	b	d1	d2	g	weight lb/pc.
P 5.50	2700	7/32"	2.01	1.87	0.47	0.33	0.31	0.33
P 70-80	5700	9/32"+5/16"	2.78	2.28	0.79	0.45	0.41	0.66
P 100	8800	3/8"	3.46	2.98	0.87	0.59	0.51	1.43
P 130	15000	1/2"	4.45	3.98	1.02	0.71	0.67	3.00
P 160	22600	5/8"	5.08	4.65	1.26	0.97	0.75	4.41
P 200	35300	3/4"	5.94	5.91	1.42	1.06	0.96	6.61
P 220	42700	7/8"	6.69	6.50	1.65	1.22	1.06	11.02
P 260	59700	1"	7.91	7.67	1.96	1.44	1.25	30.40
P 32	72300	1-1/4"	9.44	8.12	2.36	1.57	1.53	41

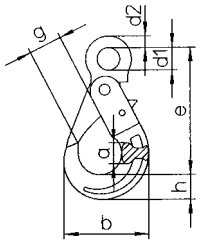
Eye Grab Hook with safety catch PS



Same as above hook with added "safety catch" feature.

Code	WLL lb 4:1	for chain	e	b	d1	d2	g	weight lb/pc.
PS 70-80	5700	9/32"+5/16"	2.78	2.28	0.79	0.45	0.41	0.88
PS 100	8800	3/8"	3.46	2.99	0.87	0.59	0.51	1.98
PS 130	15000	1/2"	4.45	3.98	1.02	0.71	0.67	3.97
PS 160	22600	5/8"	5.08	4.65	1.26	0.91	0.75	7.94

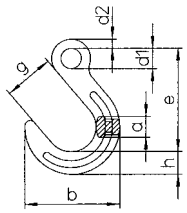
Safety Hook LH



Automatically closes and locks under load.

Code	WLL lb 4:1	for chain	e	h	a	b	d1	d2	g	weight lb/pc.
LH 5.50	2700	7/32"	4.33	0.78	0.63	2.79	0.82	0.43	1.10	1.10
LH 70-80	5700	9/32"+5/16"	5.35	1.02	0.79	3.46	1.06	0.47	1.34	1.98
LH 100	8800	3/8"	6.65	1.18	0.94	4.21	1.36	0.59	1.77	3.31
LH 130	15000	1/2"	8.07	1.57	1.38	5.43	1.57	0.79	2.05	5.95
LH 160	22600	5/8"	9.88	1.97	1.61	6.61	1.97	1.06	2.36	12.57
LH 200	35300	3/4"	11.42	2.44	1.97	7.64	2.36	1.18	2.76	17.42
LH 220	42700	7/8"	12.68	2.56	2.05	8.31	2.76	1.26	3.19	24.69

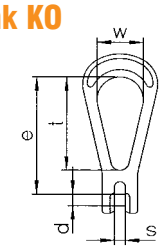
Foundry Hook F



Used when throat opening of sling hook is to small.

Code	WLL lb 4:1	for chain	e	h	a	d1	d2	g	b	weight lb/pc.
F 70-80	5700	9/32"+5/16"	5.16	1.14	0.98	0.94	0.43	2.52	4.65	2.03
F 100	8800	3/8"	6.22	1.38	1.26	1.22	0.55	2.99	5.63	3.90
F 130	15000	1/2"	7.48	1.65	1.57	1.54	0.67	3.5	6.69	6.22
F 160	22600	5/8"	8.82	1.97	1.81	1.85	0.87	4.02	7.87	11.09
F 200	35300	3/4"	10.23	2.40	2.12	2.20	1.10	4.48	9.09	16.75

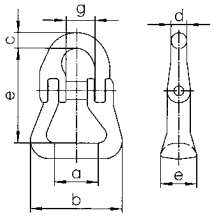
Clevis Reevable Master Link KO



Master link used for choker/reeving slings.

Code	WLL lb 4:1	for chain	e	t	w	d	s	weight lb/pc.
KO 70	4300	9/32"	3.60	2.76	1.34	0.35	0.35	0.62
KO 80	5700	5/16"	3.58	2.76	1.34	0.39	0.35	0.66
KO 100	8800	3/8"	5.04	4.02	1.97	0.49	0.47	1.54
KO 130	15000	1/2"	6.65	5.35	2.60	0.63	0.59	3.09
KO 160	22600	5/8"	8.43	6.77	3.27	0.79	0.69	6.04

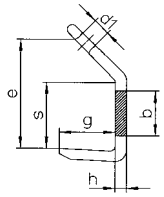
Webbing Sling Connecting Link CAR



Connecting link for round web slings.

Code	WLL lb 4:1	for chain	a	e	c	d	b	g	weight lb/pc.
CAR 80	5700	5/16"	1.14	2.60	0.45	0.39	2.56	0.72	0.66
CAR 100	8800	3/8"	1.57	3.19	0.50	0.50	3.23	0.91	1.10
CAR 130	15000	1/2"	1.97	4.09	0.75	0.66	3.94	1.09	2.43
CAR 160	22600	5/8"	1.83	4.43	0.83	0.83	4.33	1.30	4.41
CAR 220	42700	7/8"	4.29	6.99	1.14	1.06	8.46	1.89	14.33

Plate Hook BW



For lifting sheet metal stacks and boards.

Code	WLL lb 4:1	for chain	e	s	b	h	d1	g	weight lb/pc.
BW 70-80	5700	9/32"-5/16"	5.16	3.15	1.97	0.71	1.10	2.17	2.47
BW 100	8800	3/8"	6.18	3.94	2.76	0.79	1.26	2.56	5.73
BW 130	15000	1/2"	8.15	5.12	3.15	1.02	1.57	3.54	13.01
BW 160	22600	5/8"	10.28	6.30	3.94	1.30	1.97	4.33	23.81
BW 200	35300	3/4"	11.89	7.28	4.72	1.57	2.36	5.12	37.92
BW 220	42700	7/8"	14.29	8.66	5.51	1.97	2.95	5.91	69.00

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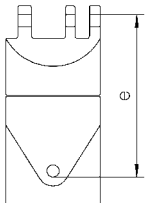
DF Swivel

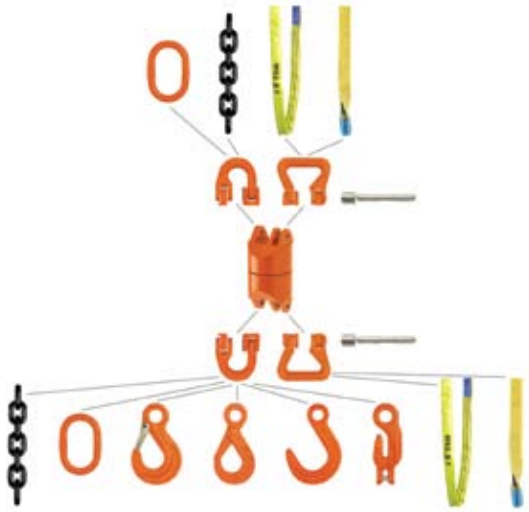
Can be rotated when loaded because of roller bearing.



Code	WLL lb 4:1	e	d	weight lb/pc.
DF 70	4300	3.58	2.09	2.65
DF 80	5700	3.58	2.09	2.65
DF 100	8800	4.37	2.48	4.19

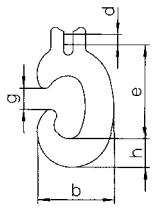
Assembly Options

Many other combinations with our wide product range are possible.



KCH Clevis C-Hook

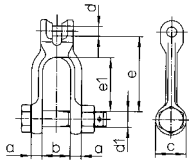
Suitable for simple and fast hooking and removal. Only for applications without safety catch requirement.



Code	WLL lb 4:1	e	h	d	b	g	weight lb/pc.
KCH 70	4300	3.56	1.08	0.35	2.89	0.79	1.10
KCH 80	5700	3.54	1.08	0.39	2.89	0.79	1.10
KCH 100	8800	5.08	1.52	0.49	4.21	1.10	3.09
KCH 130	15000	6.54	2.01	0.63	5.39	1.61	6.62
KCH 160	22600	8.07	2.36	0.79	6.54	1.77	11.69

KSCH Clevis Shackle

Directly attached to the chain. Allows direct connection with other components such as spreader beams.



Code	WLL lb 4:1	e	e1	b	a	d	c	d1	weight lb/pc.
KSCH 70	4300	2.99	2.13	1.10	0.45	0.35	1.20	0.63	1.10
KSCH 70	5700	2.97	2.13	1.10	0.45	0.39	1.20	0.63	1.10
KSCH 100	8800	4.11	2.99	1.34	0.63	0.49	1.52	0.79	2.09
KSCH 130	15000	4.45	3.03	1.73	0.81	0.63	1.97	0.94	4.19

Load Securement Systems
G100 and G120

NEW

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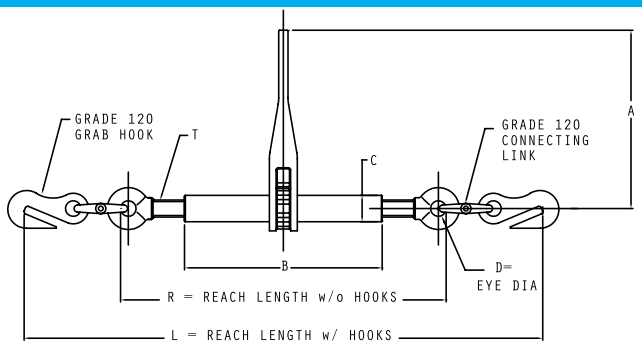
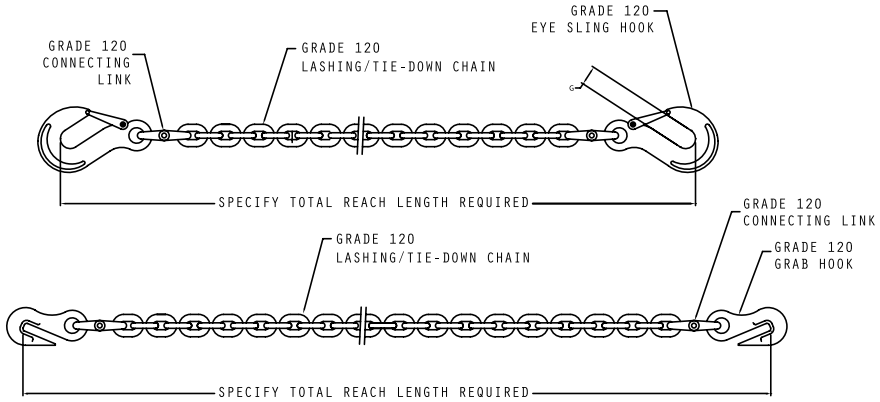
Load Securement Systems G120

Load Binders for Cargo Securement and Tightening of Chains

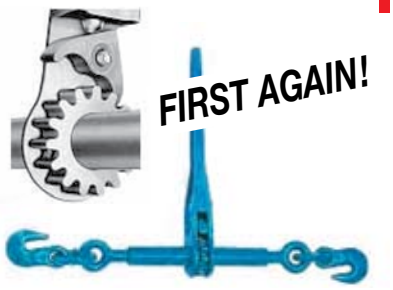


Code	WLL=Working Load Limit (lb)	Chain Size (inch)	A	B	C	D	L= Reach length with Hooks		R= Reach length without Hooks		T= thread size	Weight ea. w/ Hooks (lb)
			Dimensions in inches				max	min	max	min		approx
7G120RLB	5,200	9/32	9.3	10	1.34	0.787	29.97	23.47	20.4	13.9	22 mm	9
10G120RLB	10,600	3/8	14	10	1.46	1.02	32.78	26.68	20.31	14.21	24 mm	12
13G120RLB	17,900	1/2	14.13	16.93	1.97	1.22	50.87	38.86	34.49	22.48	30 mm	15

Lashing/Tie-Down Chain



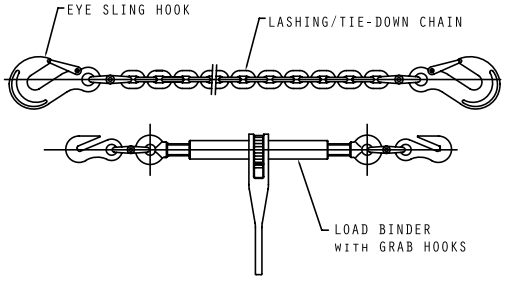
Code	WLL=Working Load Limit (lb)	Chain Size (inch)	Chain Size (mm)	G= Hook throat Opening	Weight per 20 ft (lb) approx
7G120TD/20	5,200	9/32	7	1.02	20
10G120TD/20	10,600	3/8	10	1.22	37
13G120TD/20	17,900	1/2	13	1.54	65



Features and Benefits

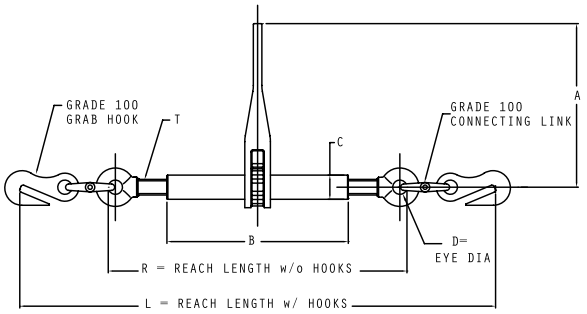
- High strength Grade 120 construction for maximum working loads
- Forged steel eye bolt, Steel barrel construction and cast handle assembly
- High load capacity trapezoidal thread form
- Hooks and links heat treated to Grade 120 strength standards
- Short reach hooks provide for maximum take-up
- Double acting spring loaded pawls
- Working load limit, chain size and batch code stamped on handle with 1/4" tall raised letters
- Meets NACM specification of 4:1 Design factor on Working Load Limit
- Meets or exceeds US FMCSA and CVSA regulations including 49 CFR parts 392 and 393

2-Part Binding & Tie Down System



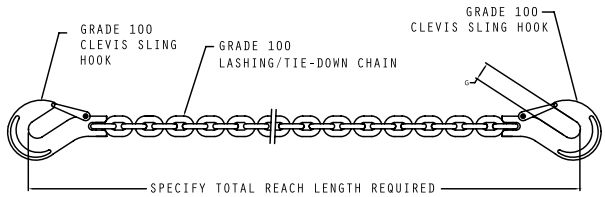
Load Securement Systems G100

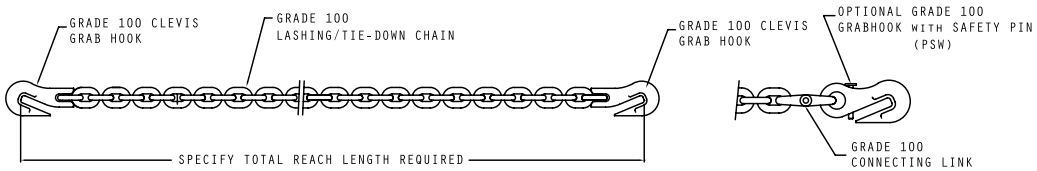
Load Binders for Cargo Securement and Tightening of Chains



Code	WLL=Working Load Limit (lb)	Chain Size (inch)	A	B	C	D	L= Reach length with Hooks		R= Reach length without Hooks		T= thread size	Weight ea. w/ Hooks (lb)
			Dimensions in inches				max	min	max	min		approx
8G100RLB	5,700	5/16	9.3	10	1.34	0.787	30.8	24.3	20.4	13.9	22 mm	10
10G100RLB	8,800	3/8	14	10	1.46	1.02	32.89	26.79	20.31	14.21	24 mm	12
13G100RLB	15,000	1/2	14.13	16.93	1.97	1.22	50.31	38.3	34.49	22.48	30 mm	15

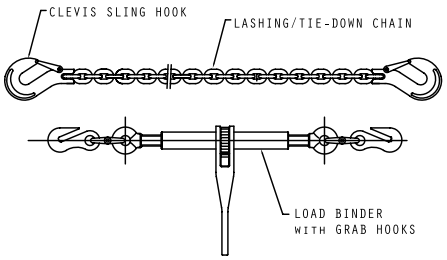
Lashing/Tie-Down Chain





Code	WLL=Working Load Limit (lb)	Chain Size (inch)	Chain Size (mm)	G= Hook throat Opening	Weight per 20 ft (lb)
					approx
8G100TD/20	5,700	5/16	8	1.02	20
10G100TD/20	8,800	3/8	10	1.22	37
13G100TD/20	15,000	1/2	13	1.54	65

2-Part Binding & Tie Down System



Features and Benefits

- High strength Grade 100 construction for high Working Load Limits
- Forged steel eye bolt, steel barrel construction and cast handle assembly
- High load capacity trapezoidal thread form
- Hooks and links heat treated to Grade 100 strength standards
- Short reach hooks provide for maximum take-up
- Double acting spring loaded pawls
- Working load limit, chain size and batch code stamped on handle with 1/4" tall raised letters
- Meets NACM specification of 4:1 Design factor on Working Load Limit
- Meets or exceeds US FMCSA and CVSA regulations including 49 CFR parts 392 and 393

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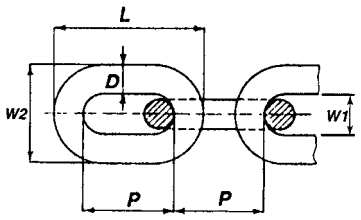
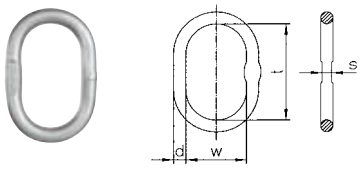
Lifting Chain



Code	stock dia.	WLL lb 4:1	Nominal Diameter D	Pitch P	Width		weight lb/pc.
					Inside W1 Min	Outside W2 max.	
NIK 5	3/16" (7/32")	1100	0.197	0.630	0.295	0.728	0.376
NIK 7	9/32"	2200	0.276	0.826	0.375	0.992	0.739
NIK 10	3/8"	4400	0.394	1.181	0.531	1.417	1.478
NIK 13	1/2"	7100	0.512	1.535	0.689	1.842	2.553
NIK 16	5/8"	11000	0.630	1.890	0.846	2.268	3.830

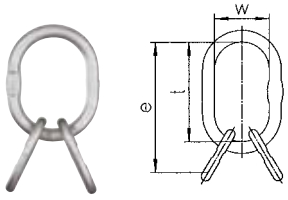
Master Link AK



Master link for single leg sling and 2 leg sling.
Working load limit of master link only.
For sling WLL see page 7.

Code	WLL lb 4:1	stock dia.	t	w	s	weight lb/pc.	Master link for chain Ø	
							1 - leg	2-leg
AK 10	1900	3/8"	3.15	1.97	0.39	0.44	3/16" (7/32")	3/16" (7/32")
AK 13	2900	1/2"	4.33	2.36	0.39	0.66	9/32"	-
AK 16	3800	5/8"	4.33	2.36	0.55	1.10	-	9/32"
AK 18	4400	11/16"	5.31	2.95	0.55	1.76	3/8"	-
AK 22	7500	7/8"	6.30	3.54	0.67	3.30	1/2"	3/8"
AK 26	12100	1"	7.09	3.94	0.79	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	-	-

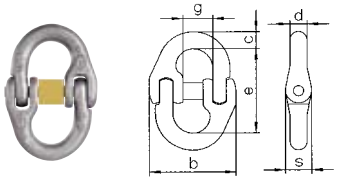
Master Link Assemblies VK



For 3- and 4-leg chain slings, also for wire rope slings. For sling WLL see page 7.

Code	for chain	Assembly	t	p	w	weight lb/pc.
VK 5	3/16" (7/32")	AK13+2BK10	6.06	4.33	2.36	1.15
VK 7	9/32"	AK22+2BK16	9.06	6.30	3.54	4.89
VK 10	3/8"	AK26+2BK20	10.43	7.09	3.94	7.47
VK 13	1/2"	AK32+2BK22	12.40	7.87	4.33	13.27
VK 16	5/8"	AK36+2BK26	15.75	10.24	5.51	22.02

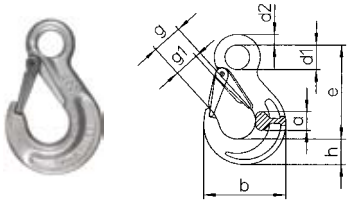
Connex Connecting Link CK



General connecting link for connection of:
master links to chain, chain to chain,
hooks to chain.

Code	for chain	WLL lb 4:1	e	c	s	d	b	g	weight lb/pc.
CK 5	3/16" (7/32")	1100	1.42	0.28	0.37	0.28	1.35	0.50	0.11
CK 7	9/32"	2200	2.12	0.35	0.51	0.35	2.00	0.65	0.26
CK 10	3/8"	4400	2.87	0.51	0.71	0.51	2.75	0.97	0.73
CK 13	1/2"	7100	3.62	0.67	0.91	0.67	3.36	1.12	1.54
CK 16	5/8"	11000	4.09	0.83	1.10	0.83	4.14	1.43	2.68

Eye Sling Hook HSK



All purpose hook, also for wire rope slings.

Code	for chain	WLL lb 4:1	e	h	a	d1	d2	b	g1	weight lb/pc.
HSK5	3/16" (7/32")	1100	3.15	.79	.55	.83	0.31	2.60	.87	.44
HSK7	9/32"	2200	4.09	1.10	0.75	0.94	0.43	3.54	1.14	1.10
HSK10	3/8"	4400	4.92	1.30	1.12	1.22	0.55	4.25	1.38	2.20
HSK13	1/2"	7100	6.10	1.69	1.34	1.54	0.67	5.28	1.69	4.19
HSK16*	5/8"	11000	6.89	1.95	1.61	1.81	0.91	6.06	1.89	7.72

* For HSK 16 with batch code up from "G"

Stainless Steel Chain

Type 316 L

316 L will resist pitting and most kinds of corrosion. Chain has excellent resistance to pitting in phosphoric and acetic solution.

WARNING ! NOT FOR OVERHEAD LIFTING !

Trade size In.	Trade size mm	Actual Material Dia. In	Norm/Inside Link Size Wd. In.	Norm/Inside Link Size Lg. In.	WLL lb	weight lb/ft.
5/64"	2	0.079	0.14	0.87	55	0.04
7/64"	3	0.118	0.21	1.02	132	0.10
1/8"	4	0.158	0.26	0.94	410	0.19
3/16"	5	0.200	0.38	0.95	1200	0.32
9/32"	7	0.276	0.43	0.87	2000	0.73
5/16"	8	0.315	0.46	0.94	2850	0.96
3/8"	10	0.393	0.55	1.10	3550	1.53
1/2"	13	0.512	0.69	1.54	7400	2.49

Type 304 L

304 L has good resistance to atmospheric corrosion.

WARNING ! NOT FOR OVERHEAD LIFTING !

Trade size In.	Trade size mm	Actual Material Dia. In	Norm/Inside Link Size Wd. In.	Norm/Inside Link Size Lg. In.	WLL lb	weight lb/ft.
1/8"	4	0.158	0.26	0.94	410	0.19
3/16"	5	0.200	0.38	0.95	1200	0.32
9/32"	7	0.276	0.45	0.86	2000	0.73
5/16"	8	0.315	0.46	0.94	2450	0.96
3/8"	10	0.393	0.55	1.10	3550	1.53

Alloy Steel Hoist Chains

Pewag to OEM Crossover Chart

Hoist Brand	Pewag chain #	OEM's Chain #	Chain Description
Loedstar (CM)	19790	85944	G-80 RDS Z/P
Loedstar (CM)	19801	85949	G-80 RDS Z/P
Coffing EC/ELC	20575	JL-19-B	G-80 RD
Coffing EC/ELC	20577	JL-19-1	G-80 RD
Yale KEL-KAL	20576	642700424	G-80 RD Z/P Yellow Chromate
Budgit	64392	910126 Z/P 208776-3	G-80 RD Z/P
Budgit	63632	910142 Z/P 209156-3	G-80 RD Z/P
CM (Manual)	63273	85839	G-80 HEO S/C
CM (Manual)	63274	85847	G-80 HEO S/C
Harrington (electric)	64403	LCER010C	G-80 HE RDS S/C
Harrington	32060	KLB5056NP/LCL5010NP	G-100 HEO S/C
Harrington	32072	KLB5071NP/LCL5015NP	G-100 HEO S/C
Harrington	32073	KLB5100NO/LCL503NP	G-100 HEO S/C

All Square Casehardened Security Chain

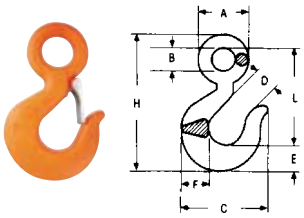
All Square Casehardened Security Chain

Chain Diameter In.	Chain Diameter mm	Inch	Stock Number.	Standard Package	weight 100 ft.	Finish
9/32	7	0.276	14827	100'	75	EG
3/8	10	0.394	11696	100'	165	EG

WARNING ! NOT FOR OVERHEAD LIFTING !

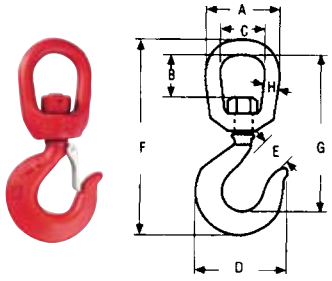
Compatible lock for 3/8" security Chain offers anti-drill steel case for the ultimate protection.

Alloy and Carbon Eye Sling Hook with Latch



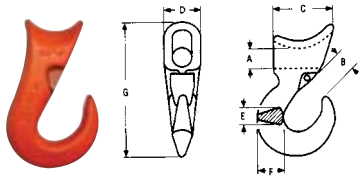
Alloy Item Number	WLL 4:1 Metric Tons	Carbon Item Number	WLL 5:1 Metric Tons	a	b	c	d	e	f	h	i	weight lb/pc.
101010 ES	1.25	101007 DS	0.8	1.50	0.75	2.95	0.78	0.79	0.83	4.33	3.29	0.60
101015 ES	1.6	101010 DS	1	1.81	0.90	3.18	0.89	0.86	0.98	4.92	3.66	0.88
101020 ES	2.5	101015 DS	1.6	2.05	1.10	3.62	0.90	1.02	1.18	5.55	4.09	1.21
101030 ES	3.2	101020 DS	2	2.44	1.22	4.09	1.06	1.18	1.33	6.37	4.68	1.82
101045 ES	5.4	101030 DS	3.2	2.99	1.53	4.92	1.25	1.49	1.65	7.87	5.74	4.18
101070 ES	8	101050 DS	5	3.82	2.00	6.50	1.61	1.81	2.08	10.07	7.36	7.26
101110 ES	11.5	101075 DS	7.5	4.69	2.44	7.60	1.89	2.28	2.64	12.48	9.06	12.54
101150 ES	16	101100 DS	10	5.35	2.83	8.70	2.28	2.60	2.95	13.94	10.04	18.48
101220 ES	22	-	-	6.61	3.50	11.10	3.07	3.03	3.54	17.13	12.52	37.40

Alloy and Carbon Swivel Hook with Latch



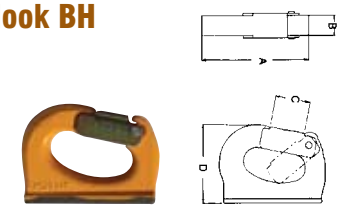
Alloy Item Number	WLL 4:1 Metric Tons	Carbon Item Number	WLL 5:1 Metric Tons	a	b	c	d	e	f	g	h	weight lb/pc.
147010 ES	1.25	147007 DS	0.75	2.05	1.10	1.22	2.95	0.78	5.75	4.57	0.41	0.95
147015 ES	1.6	147010 DS	1	2.63	1.41	1.57	3.18	0.86	7.08	5.70	0.51	1.87
147020 ES	2.5	147015 DS	1.6	3.18	1.93	1.85	3.62	0.90	8.19	6.50	0.67	2.66
147030 ES	3.2	147020 DS	2	3.18	1.77	1.85	4.09	1.06	8.74	6.88	0.67	3.32
147045 ES	5.4	147030 DS	3.2	4.17	2.16	2.51	4.92	1.25	10.78	8.42	0.82	8.14
147070 ES	8	147050 DS	5	5.08	2.76	3.03	6.50	1.61	13.27	10.39	1.02	14.52
147110 ES	11.5	147075 DS	7.5	5.83	2.91	3.54	7.60	1.89	15.55	12.13	1.14	22.55
147150 ES	16	147100 DS	10	6.50	3.39	3.78	8.70	2.28	17.52	13.54	1.34	34.76
147200 ES	22	-	-	7.87	4.49	4.72	11.10	3.07	21.38	16.81	1.57	57.20

Alloy Sliding Choker Hook



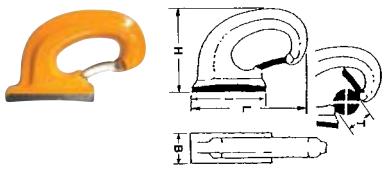
Alloy Item Number	WLL 5:1 Metric Tons	For Rope Size	a	b	c	d	e	f	g	weight lb/pc.
112015 AN	1.5	3/8"-1/2"	0.62	0.94	2.00	1.18	0.78	0.94	5.11	1.21
112020 AN	2	5/8"	0.78	1.06	2.44	1.41	0.94	1.14	5.78	1.98
112030 AN	3	3/4"	1.02	1.33	2.75	1.88	1.18	1.41	7.00	3.08
112050 AN	5	7/8"-1"	1.25	1.69	3.14	2.36	1.61	1.77	8.26	7.70

Alloy Weld On Bucket Hook BH



Code	WLL lb 4:1	a	b	c	d	weight lb/pc.
BH-1	2000	4.12	1.00	0.87	3.00	1.25
BH-3	6000	4.87	1.25	1.12	3.37	2.30
BH-4	8000	5.75	1.37	1.25	4.00	4.25
BH-5	10000	6.00	1.37	1.25	4.25	4.75
BH-8	16000	8.12	1.62	1.75	5.00	8.50
BH-10	20000	8.50	2.00	1.75	5.50	11.75

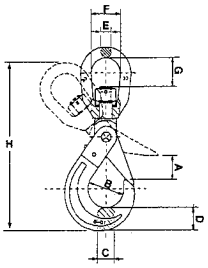
Alloy Weld On Bucket Hook C



Code	WLL 5:1 Metric Tons	l	i	h	b	t	weight lb/pc.
BH-C8	8	9.84	5.90	6.69	2.36	1.77	15.61
BH-C10	10	10.04	6.30	6.89	2.75	1.97	17.63
BH-C18	18	11.41	6.69	7.48	3.15	1.97	23.80

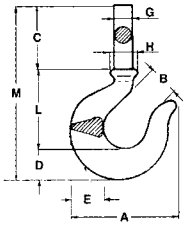
Note 1 Metric Ton = 2200 lbs

Swivel Locking Hook



Code	for chain	WLL lb 4:1	a	b	c	d	e	f	g	h	weight lb/pc.
102007 AS	9/32"-5/16"	4500	1.30	1.77	0.78	0.98	0.51	1.57	1.18	7.55	2.86
102010 AS	3/8"	7100	1.73	2.28	1.06	1.37	0.66	1.85	1.77	8.93	4.62
102013 AS	1/2"	12000	2.12	2.79	1.22	1.57	0.82	2.51	2.16	11.22	9.47
102016 AS	5/8"	18100	2.63	3.30	1.57	2.04	1.02	3.03	2.75	13.46	17.63

Alloy and Carbon Eye Shank Hooks



Alloy Item Number	WLL 4:1 Metric Tons	Carbon Item Number	WLL 5:1 Metric Tons	a	b	c	d	e	g	i	m	weight lb/pc.
121010 AS	1.25	121007 CS	0.8	2.95	0.98	2.00	0.79	0.83	0.59	2.20	5.00	0.59
121015 AS	1.6	121010 CS	1	3.19	1.06	2.25	0.87	0.94	0.67	2.52	5.63	1.00
121020 AS	2.5	121015 CS	1.6	3.62	1.10	2.52	1.02	1.18	0.75	2.64	6.18	1.32
121030 AS	3.2	121020 CS	2	4.06	1.26	2.72	1.14	1.30	0.98	3.07	6.93	2.00
121045 AS	5.4	121030 CS	3.2	4.92	1.50	3.19	1.46	1.61	1.18	3.82	8.46	4.51
121070 AS	8	121050 CS	5.4	6.50	1.89	3.74	1.81	2.09	1.42	4.76	10.31	8.25
121110 AS	11.5	121075 CS	7.5	7.60	2.28	4.25	2.28	2.64	1.69	5.87	12.40	13.00
121150 AS	16	121100 CS	10	8.70	2.56	4.49	2.64	2.95	1.89	6.50	13.62	21.56
121200 AS	22	-	-	11.10	3.50	5.71	3.07	3.54	2.32	7.87	16.65	36.08
121300 AS	30	-	-	13.70	3.98	10.00	3.90	4.76	2.83	9.49	23.23	74.80

Note 1 Metric Ton = 2200 lbs

WARNING

Lifting...

...is dangerous work only competent persons are allowed to do.
Please keep in mind all the hazards and risks covered in ASTM-A906, ISO 3056, EN 818-6 and other relevant standards.

Warranty...

...to materials and workmanship

The procedures for purchase of raw materials, workmanship, quality inspections, packing, dispatch, identification and traceability of our products is carried out according to quality assurance ISO 9001

pewag QUALITY APPROVED ISO 9001

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WORLD'S STRONGEST CHAIN
www.pewag.com

Safety Latch Kits for HS / KHS Grade 80 / Grade 100 / Grade 120

Part #	Description
18086	SFG5 - 7/32"
12946	SFG7/8 - 9/32"-5/16"
12948	SFG10 - 3/8"
12949	SFG13 - 1/2"
18088	SFG16 - 5/8"
63760	SFG20 - 3/4"
63761	SFG22 - 7/8"
63762	SFG26/32 - 1" / 1-1/4"

Stainless Steel Latch Kits for HSK Hooks Grade 50

Part #	Description
1078	3/16" (7/32")
1080	9/32"-5/16"
1094	3/8"
1095	1/2"

Swivel Assemblies for LH / KLH Hooks Grade 80 / Grade 100

Part #	Description
49248	VLH 7/8 - 9/32" - 5/16"
49249	VLH 10 - 3/8"
49250	VLH 13 - 1/2"
49251	VLH 16 - 5/8"
67121	VLH 20/22 - 3/4" - 7/8"

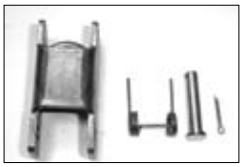
Swivel Assemblies for E.L.D. Locking Hooks Grade 80

Part #	Description
102007KR	9/32"
102010KR	3/8"
102013KR	1/2"
102016KR	5/8"

ELD Safety Kits Eye, Swivel

Part #	Description
1DS0D1	0.75 T- C- 1 T A
1DS0D2	1 T -C-1.5 T A
1DS0D3	1.5/2 T -C- 2/3 T A
1DS0D4	3 T -C- 4.7 T A
1DS0D5	5 T -C- 7 TA
1DS0D6	7.5 T -C- 11 T A
1DS0D7	10 T -C- 15 T A
1DS0D8	15 T -C- 22 T A

ELD Safety Kits & Buckets Hooks



Part #	Description
SPC204/206	4/5/6 T BUCKET C
SPC215	8/10/18 BUCKET C
SPU201	1 T BUCKET BH
SPU202	3 T BUCKET BH
SPU203	4/5 T BUCKET BH
SPU206	8/10 BUCKET BH

Chain Sling ID Tags

ID Tags

Grade 120

Grade 80 & 100

Part #	Description
Sling Warning	New Stainless Steel Warning Tags
ID9020	Single Leg
ID306020	Double, Triple, Quad leg
15491	Single Leg
ID3060	Double, Triple, Quad leg

Spare Parts

Bushing & Pin kit for connecting links

Part #	Description
62131	CBH5.5/60 GRADE 100
62132	CBH70 GRADE 100
62133	CBH80 GRADE 100
62134	CBH100 GRADE 100
62135	CBH130 GRADE 100
62136	CBH160 GRADE 100
62126	CBH200 GRADE 100
62127	CBH220 GRADE 100
22840	CBH260 GRADE 100

Load Pin & Cotter Pin kit for Clevis Hooks

Part #	Description
PIN5/6	3/16 -7/32 KBSW 5.50 GRADE 100
PIN/7	9/32 KBSW 70 GRADE 100
PIN/8	5/16 KBSW 80 GRADE 100
PIN/10	3/8 KBSW 100 GRADE 100
PIN/13	1/2 KBSW 130 GRADE 100
PIN/16	5/8 KBSW 160 GRADE 100
PIN/19	3/4 KBSW 200 GRADE 100
PIN/22	7/8 KBSW 220 GRADE 100

Terms:

Net 30 days – credit must be established with Pewag, Inc.

Freight Policy:

Prepaid on Shipments over 1200 lbs. within the Continental USA.
Shipments under 1200 lbs. will be prepaid and added to invoice.

Minimum Order:

$100.00 all prices in U.S. Dollars. Orders will be accepted, subject to prevailing prices at time of order. Prices are subject to change without notice.

Return Policy:

No merchandise will be accepted without prior authorization.
All returns are subject to a 25% restocking fee which will be deducted from the amount of credit memo.
Returned shipments must be prepaid. Collect or unauthorized shipment will be refused.