

Industrial Products

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**WORLD'S
STRONGEST
CHAIN**
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M^cLaughlin Hoist & Crane

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**Winner Pro G120
The New Generation**



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



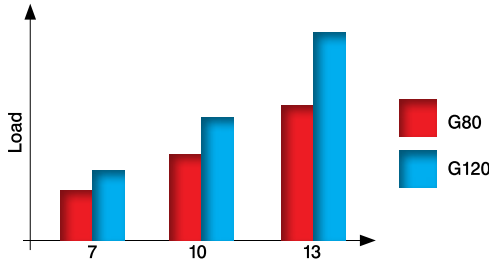
Lifting...

...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.

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50 % Higher Work Load Limit

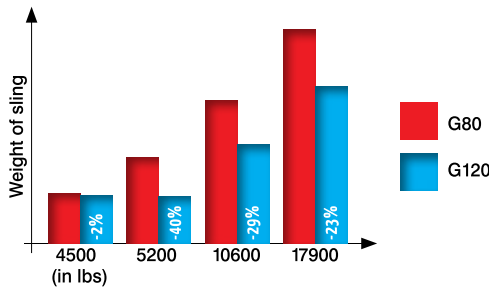
Grade 120 offers + 50% higher WLL over Grade 80 allowing a downsizing of chains:



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

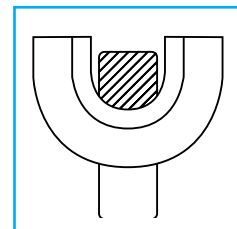
The downsizing of the chains results in lower weights for chain-slings:



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%

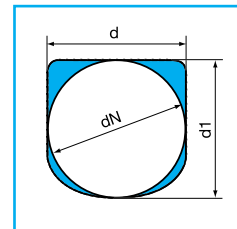
Higher Wear Resistance

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



Enlarged Master Links M-G120	Code	For single leg sling	WLL lb	d	t	w	s	weight lb/pc
Master link for one leg slings or end link. Working load limit of master link only. For sling WLL see page 7 and 10.								
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	Code	consisting of	for double leg sling	for 3-and 4 leg sling	e	weight lb/pc	M-Link		
							D	T	W
Master link assembly for multi leg slings. For sling WLL see page 7 and 10.									
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	Code	WLL lb	for chain	e	c	s	d	b max	g	weight lb/p
General connecting link for connection of Master links to chain and chain to components.										
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	Code	WLL lb	for chain	e	h	a	d1	d2	g1	b	weight lb/p
General Purpose hook with forged safety latch.											
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	Code	WLL lb	for chain	e	b	d1	d2	g	weight lb/p
General Purpose hook.									
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	Code	WLL lb	for chain	e	h	a	b	d1	d2	g	weight lb/p
Automatically closes & locks under load for higher safety.											
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	

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