GRABIQ CHAIN

WARNING AND USE LIMITATIONS

- **Never use a sling without a legible identification tag…** Sling Identification is required to ensure proper sling application.

  "Alloy steel chain slings shall have permanently affixed durable identification stating size, grade, rated capacity, and reach." - OSHA 1910.184 (e) (1)

  "Hooks, rings…or other attachments shall have a rated capacity equal to the alloy steel chain with which they are used or the sling shall not be used in excess of the rated capacity of the weakest component…" – OSHA 1910.184(e)(2)(1)

  "Makeshift links or fasteners shall not be used." – OSHA 1910.184(e)(2)(ii)

  GrabiQ components shall be used only with Gunnebo Lifting Grade 100 Alloy Steel Chain.

  Product identifier is forged into GrabiQ sling components and is designated as GrabiQ-(Model Designator) – (Trade Size) – (Grade); Example: GrabiQ-MG-13-10.

  Gunnebo Johnson Corp. has available a blank identification tag, attached by a cable tie, to be stamped with sling WLL, minimum working range angle, serial number, chain size, grade, reach, type and manufacturer. Order 547303 for replacement.

  Grade of component with the lowest breaking strength shall be specified on the identification tag. Nonstandard grades shall be designated by "NS".

  Working Load Limit (WLL) is the maximum working load for a specified working range. Sling working range includes sling leg angles from 90° to a specified minimum. The specified minimum working range angle is given on the identification tag.

  Working load is to be applied vertically to a sling assembly having symmetric leg angles. WLL applies to loads lifted vertically and does not include torsional, binding, shock or non-symmetrical load effects.

  Gunnebo Lifting GrabiQ Grade 100 Alloy Steel Chain Sling Working Load Limits for selected working ranges of symmetric sling leg angles are listed in pounds and given in TABLE 1. No chain sling shall be rigged with a leg angle less than 30° from the horizontal.

  Double Leg Sling WLL for an alternate working range of symmetric sling leg angles equals (=) 2 * TABLE 1 single leg WLL * sine of the minimum working range angle.

  Triple and Quadruple Leg Sling WLL for an alternate working range of symmetric sling leg angles equals (=) 3 * TABLE 1 single leg WLL * sine of the minimum working range angle.

  TABLE 2 lists for convenience sine values for selected sling leg angles.

TABLE 2

Angle	Sine	Angle	Sine	Angle	Sine
85	0.9962	70	0.9397	50	0.7660
80	0.9848	65	0.9063	40	0.6482
75	0.9659	55	0.8192	35	0.5736

  Multi Leg Sling WLL for non-symmetrical loading can only be determined by engineering analysis of the specific rigging condition. In the absence of an engineering analysis, WLL shall be equal to single leg sling WLL given in TABLE 1.

  Choked endless chain sling WLL for selected working ranges of symmetric leg angles are listed in pounds and given in Table 3.

TABLE 3 – CHOKED ENDLESS CHAIN SLING WORKING LOAD LIMITS IN POUNDS - DESIGN FACTOR OF 4*

	G100 CHAIN SIZE		CHOKED ENDLESS		
	MM	IN	90°	90°-60°	90°-45°
	8	5/16	8500	7400	6100
	10	3/8	13200	11400	9300
	13	1/2	22500	19500	15900
	16	5/8	33900	29300	24000

**Working Load Limits are valid between temperatures of –40° and 400°F*

TABLE 1

GRABIQ G100 ALLOY STEEL CHAIN SLING WORKING LOAD LIMITS* IN POUNDS – DESIGN FACTOR OF 4

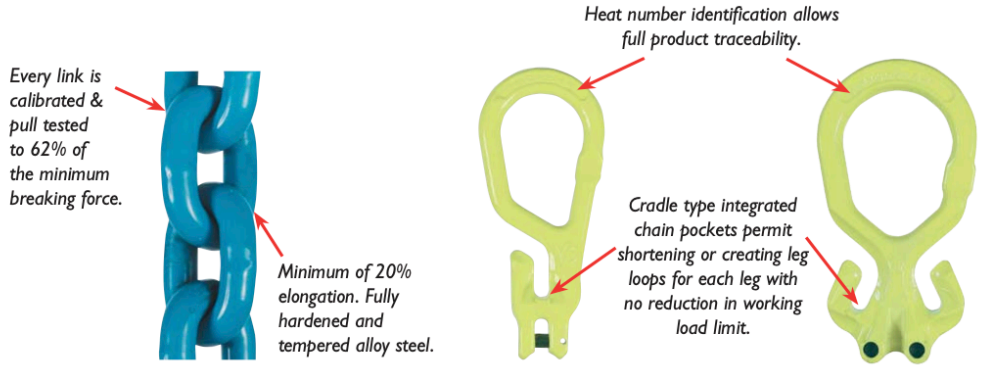
G100 CHAIN SIZE		SINGLE LEG 	DOUBLE LEG 			TRIPLE & QUAD LEG 		
MM.	IN.	90°	90° - 60°	90° - 45°	90° - 30°	90° - 60°	90° - 45°	90° - 30°
8	5/16	5,700	9,900	8,100	5,700	14,800	12,100	8,500
10	3/8	8,800	15,200	12,400	8,800	22,900	18,700	13,200
13	1/2	15,000	26,000	21,200	15,000	39,000	31,800	22,500
16	5/8	22,600	39,100	32,000	22,600	58,700	47,900	33,900

**Working Load Limits are valid between temperatures of –40° and 400°F*

WARNING: DO NOT EXCEED RATED CAPACITIES

GRABIQ CHAIN

COMPONENTS

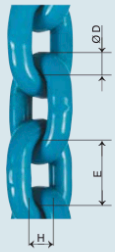


ALLOY CHAIN | MASTERGRAB MG | MASTERGRAB DUAL MGD

ALLOY CHAIN - GRADE 100

Model	Chain Size Inches	Working Load Limit *(Lbs)	OD	E	H	Weight 100 ft. (Lbs)
KLA-8-10	5/16"	5,700	0.32	0.95	0.45	97
KLA-10-10	3/8"	8,800	0.40	1.2	0.58	151
KLA-13-10	1/2"	15,000	0.52	1.5	0.72	253
KLA-16-10	5/8"	22,600	0.63	1.9	0.87	450

*Design factor 4

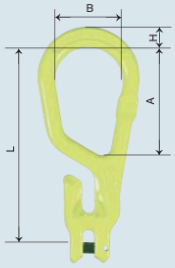


MASTER GRAB TYPE MG

An all in one fitting, combining master link, connector and shortening function for single leg sling.

Model	Chain Size Inches	Working Load Limit *(Lbs)	L (In)	A	B	H	Weight Each (Lbs)
MG-8-10	5/16"	5,700	6.7	3.7	2.4	0.71	2.2
MG-10-10	3/8"	8,800	8.3	4.6	3.0	0.87	4.0
MG-13-10	1/2"	15,000	10.3	5.6	3.5	1.0	7.7
MG-16-10	5/8"	22,600	12.2	6.4	4.1	1.2	12.8

*Design factor 4

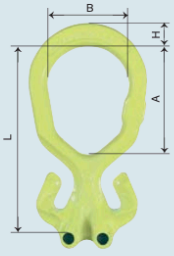


MASTER GRAB DUAL TYPE MGD

An all in one fitting, combining master link, connector and shortening function for a two leg sling.

Model	Chain Size Inches	Working Load Limit *(Lbs) at 60°	L (In)	A	B	H	Weight Each (Lbs)
MGD-8-10	5/16"	9,900	6.7	3.9	3.0	0.83	3.1
MGD-10-10	3/8"	15,200	8.3	4.9	3.5	0.95	5.5
MGD-13-10	1/2"	26,000	10.3	5.8	4.1	1.1	11.0
MGD-16-10	5/8"	39,100	12.2	6.9	4.7	1.4	19.6

*Design factor 4



WARNING: DO NOT EXCEED RATED CAPACITIES