Classic Components

GUNNEBO Industries

The SK-system with endless possibilities

A range of specialized components for safe and easy assembly to chain, steel wire rope, webbing and roundsling, designed to solve your below-the-hook problems.

The polyester sling system provides:

- Universal coupling of components to chain, wire and synthetic slings.
- Quick and simple assembly - only a hammer needed.
- Easy assembly - standardized dimensions within each size range effectively eliminates the incorrect assembly of components with different safe working loads.
- Heavy hoisting with strong yet lightweight equipment, all components are manufactured from alloy steel for use with Grade 8 chain.

2

SKA - pin & collar

The SKA set, containing pin and collar, can be used to connect all products in the SK-range. This creates a multitude of available combinations, each adaptable to the unique lifting situation.

The SKA-set gives you flexibility - it can be disassembled and put in new combinations, to provide solutions for a versatile lifting environment.

SKLI/SKLU

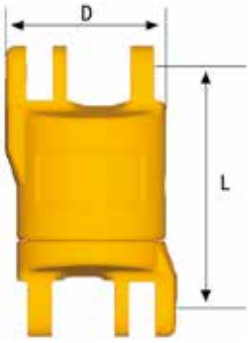
Electrically insulated, lubricated, sealed roller bearing swivel. Fully rotational even at maximum load. Tested to resist 1000 V. Suitable for protection of overhead cranes during welding operations on suspended loads.

By using the SKLI/SKLU with the SK-system you get a versatile solution that will fit almost any situation.

Roller-Bearing Swivel SKLI/SKLU

Electrically insulated, lubricated, sealed roller bearing swivel. Fully rotational even at maximum load. Tested to resist 1000 V. Suitable for protection of overhead cranes during welding operations on suspended loads.

The Gunnebo Industries SKLI is equipped with a heavy duty roller bearing, enabling high durability and safe use also under severe load. It also has heavy duty nylon insulation inside to decrease friction when in use. The SKLI is compatible with the entire Gunnebo Industries SK-range for versatile use.

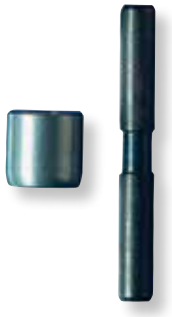


Roller-bearing Swivel SKLI/SKLU

Art. no.	Code	WLL tonnes*	For chain dim.	L	D	Weight kg
Z100316	SKLI-7/8-8	2.0	7, 8	75	48	0.7
Z100414	SKLI-10-8	3.2	10	97	59	1.3
Z100415	SKLI-13-8	5.4	13	120	75	2.8
Z100416	SKLI-16-8	8.0	16	137	90	4.6
Z100417	SKLI-18/20-8	12.8	19	159	104	7.3
RS16520	SKLU-22-8*	15.5	22	160	109	9.2
RS16530	SKLU-26-8*	21.7	26	207	135	18.3

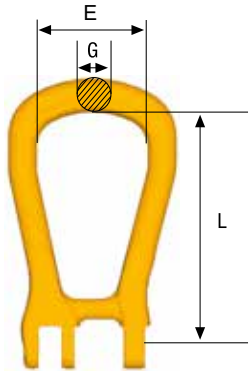
Fulfills requirements in: EN 1677:2008, ISO 8539:2009, ASTM A952/A952M-02, AS 3776:2015 and SANS 1595:2003.

* Uninsulated



Load Pin and Locking Collar - SKA

Art. no.	Code	Weight kg
Z700674	SKA-6-8	0.01
Z323624	SKA-7/8-8	0.02
Z318024	SKA-10-8	0.04
Z303822	SKA-13-8	0.08
Z303725	SKA-16-8	0.14
Z145048	SKA-18/20-8	0.26
Z133530	SKA-22-8	0.35
Z605407	SKA-26-8	0.63
Z650554	SKA-32-8	1.05



Master Link SKG (closed)

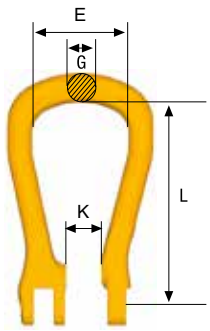
Art. no.	Code	WLL tonnes*	For chain dim.	L	E	G	Weight kg
Z419684	SKG-7/8-8	2.0	7, 8	99	50	14	0.3
Z419781	SKG-10-8	3.2	10	127	66	18	0.6
Z419888	SKG-13-8	5.4	13	145	72	22	1.1
Z419985	SKG-16-8	8.2	16	175	82	25	1.5
Z420086	SKG-18/20-8	12.8	19	204	105	30	3.0

Fulfills requirements in: EN 1677:2008, ISO 8539:2009, ASTM A952/A952M-02, AS 3776:2015 and SANS 1595:2003.

*Safety factor 4:1

All dimensions in mm

Master Link SKO (open)



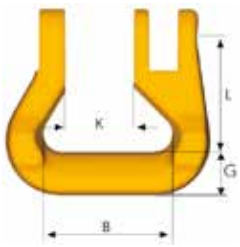
Art. no.	Code	WLL tonnes*	For chain dim.	L	E	G	K	Weight kg
Z418683	SKO-7/8-8	2.0	7, 8	99	50	14	15	0.3
Z418780	SKO-10-8	3.2	10	127	66	18	20	0.6
Z419383	SKO-13-8	5.4	13	145	72	22	25	1
Z419480	SKO-16-8	8.2	16	175	82	25	30	1.5
Z419587	SKO-18/20-8	12.8	19	204	105	30	36	2.9

Fulfills requirements in: EN 1677:2008, ISO 8539:2009, ASTM A952/A952M-02, AS 3776:2015 and SANS 1595:2003.

2

Roundsling Coupling SKR

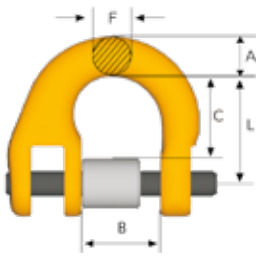
Special shape for full WLL of the roundsling.



Art. no.	Code	WLL tonnes*	L	B	G	K	Weight kg
Z127840	SKR-7/8-8	2.0	35	40	13	18	0.2
Z143143	SKR-10-8	3.2	42	47	16	24	0.4
Z302538	SKR-13-8	5.4	50	53	19	29	0.7
Z143240	SKR-16-8	8.2	62	67	23	35	1.3
Z143347	SKR-18/20-8	12.8	71	80	28	43	1.9
Z100057	SKR-22-8	15.5	111	125	40	50	5.3
Z100055	SKR-26-8	21.7	129	150	48	58	8.9

Fulfills requirements in: EN 1677:2008, ISO 8539:2009, ASTM A952/A952M-02, AS 3776:2015 and SANS 1595:2003.

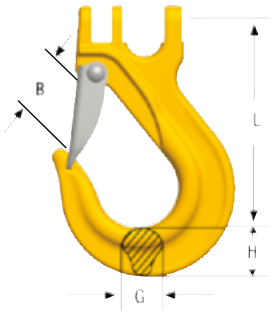
Half-link SKT (incl. locking set)



Art. no.	Code	WLL tonnes*	For chain dim.	L	B	F	A	C	Weight kg
Z426286	SKT-7/8-8	2.0	7, 8	28	18	9	11	22	0.1
Z426383	SKT-10-8	3.2	10	34	25	11	13	26	0.2
Z426480	SKT-13-8	5.4	13	44	30	15	16	33	0.4
Z426587	SKT-16-8	8.2	16	52	36	19	20	40	0.6
Z426684	SKT-18/20-8	12.8	19	63	43	22	23	47	1.1
Z100225	SKT-22-8	15.5	22	76	50	24	26	59	1.7
Z100226	SKT-26-8	21.7	26	80	58	30	33	61	2.6
Z100227	SKT-32-8	32.8	32	100	70	38	40	78	4.9

Fulfills requirements in: EN 1677:2008, ISO 8539:2009, ASTM A952/A952M-02, AS 3776:2015 and SANS 1595:2003.

Sling Hook SKN/ESKN with latch



Art. no.	Code	WLL tonnes*	For chain dim.	L	B	G	H	Weight kg
Z424682	SKN-7/8-8	2.0	7, 8	90	27	18	21	0.4
Z424789	SKN-10-8	3.2	10	115	34	23	29	0.8
Z101214	ESKN-13-8	5.4	13	145	42	28	36	1.8
Z100786	ESKN-16-8	8.2	16	178	52	36	43	3.4
Z100781	ESKN-18/20-8	12.8	19	197	54	42	51	5.0

Fulfills requirements in: EN 1677:2008, ISO 8539:2009, ASTM A952/A952M-02, AS 3776:2015 and SANS 1595:2003.

*Safety factor 4:1

All dimensions in mm

Universal weld-on hook UKN
The original excavator hook

Excavators are often used for material handling and lifting as they are frequently available on most construction sites. However, rigging gear is often incorrectly attached either to the teeth of the bucket or directly on the excavator arm, which is a dangerous practice that can lead to accidents.

Back in 1975 Gunnebo Industries developed the UKN hook, a solution that transformed the excavator into a lifting crane. The UKN hook has been fitted to excavators, and other applications, for over 40 years, either as an aftermarket product or directly by the manufacturer. Today the UKN is the hook of choice for leading international excavator manufacturers.

Quality is top priority
- Forged alloy steel
- Hardened and tempered

100% Proof-loaded
- Every hook is individually proof-loaded at 3 x WLL.

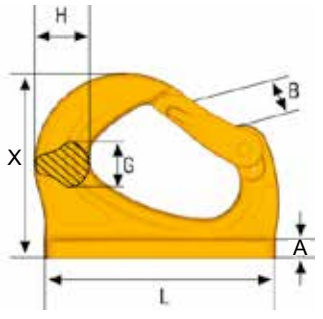
High durability
- Forged
- Rated with a 5:1 safety factor

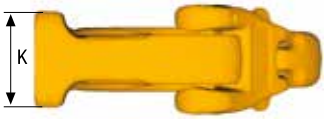
Clear markings
- Country of origin
- Traceability code
- Model and size

Heavy duty latch
- Latch with handles for easy opening
- Hardened and tempered

Prepared for welding
- Base plate prepared for welding

Pin & spring
- Spring protection
- Hardened and tempered hinge pin
- Stainless steel spring





Universal Weld-On Hook - UKN

Art. no.	Code	WLL tonnes**	B	G	H	K	L	A	X	Weight kg
Z1002560	UKN-0,75*	0.75	20	13	20	19	81.5	5	56	0.2
Z6511810	UKN-1*	1.0	27	17	25	25	95	6	72	0.6
Z7009060	UKN-2*	2.0	33	20	30	30	114	8	86	0.9
Z6455730	UKN-3	3.0	30	23	32	35	132	10	105	1.3
Z6521160	UKN-4	4.0	30	29	38	42	140	11	114	2.0
Z6455800	UKN-5	5.0	34	30	47	45	165	12	131	3.2
Z6515390	UKN-8	8.0	34	40	51	50	172	13	133	3.6
Z6456030	UKN-10	10.0	47	43	58	55	220	14	170	8.2
Z1007850	UKN-15	15.0	55	50	67	60	240	15	188	9.8
Z1007851	UKN-20	20.0	65	60	85	60	275	15	207	12.4

* Welding plate slightly curved

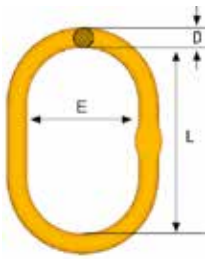
** Safety factor 5:1

Fulfills requirements in: EN 474-1 :2006

All dimensions in mm

Master Link MF

Art. no.	Code	WLL (SF 5:1) tonnes		L	E	D	Weight kg
		EN1677-4	A-952/A952M				
Z100860	MF-86-10	2.5	3.2	125	70	14	0.4
Z100861	MF-108-10	4.0	5.2	140	80	17	0.8
Z100862	MF-1310-10	7.5	8.0	160	95	22	1.5
Z100863	MF-1613-10	10.0	13.6	190	110	28	2.5
Z100864	MF-2016-10	17.0	20.6	240	140	34	5.2
Z100865	MF-2220-10	25.0	30.9	250	150	40	7.3

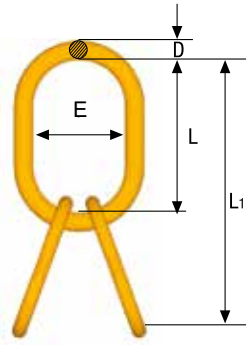


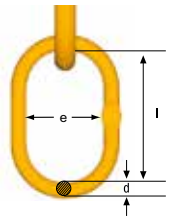
Fulfills requirements in: EN 1677:2008 (WLL +25%), ASTM A952/A952M-02 and AS 3776:2015.

Master Link with Sub Links MT

Flattened section on the sublinks.

Art. no.	Code	WLL (SF 5:1) tonnes		For chain 3-4-leg	L1	L	E	D	l	e	d	Weight kg
		EN1677-4	A-952/A952M									
Z100888	MT-6-10	3.5	5.0	6	270	150	90	19	125	70	14	1.8
Z100889	MT-8-10	5.2	8.0	7, 8	300	160	95	22	140	80	17	3.0
Z100890	MT-10-10	11.5	16.0	10	360	200	120	30	160	95	22	6.4
Z100891	MT-13-10	17.0	26.0	13	440	250	150	40	190	110	28	14.2
Z100892	MT-16-10	28.0	35.0	16	500	300	200	50	200	120	32	23

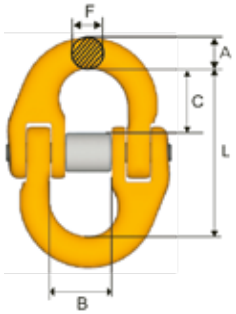




Fulfills requirements in: EN 1677:2008 (WLL +25%), ASTM A952/A952M-02 and AS 3776:2015.

Coupling Link G

Art. no.	Code	WLL tonnes*	For chain dim.	L	B	F	A	C	Weight kg
Z622882	G-6-8	1.1	6	45	15	7	8	17	0.1
Z279333	G-7/8-8	2.0	7, 8	56	18	9	11	22	0.2
Z279430	G-10-8	3.2	10	68	25	11	13	26	0.3
Z279537	G-13-8	5.4	13	89	30	15	16	33	0.7
Z279634	G-16-8	8.2	16	105	36	19	20	40	1.2
Z279731	G-18/20-8	12.8	19	125	43	22	23	47	1.9
Z279838	G-22-8	15.5	22	152	50	24	26	59	3.0
Z349171	G-26-8	21.7	26	161	58	30	33	61	5.2
Z349189	G-32-8	32.8	32	200	70	38	40	77	9.5

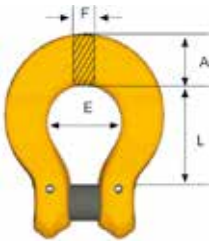


Fulfills requirements in: EN 1677:2008, ISO 8539:2009, ASTM A952/A952M-02, AS 3776:2015 and SANS 1595:2003.

*Safety factor 4:1

All dimensions in mm

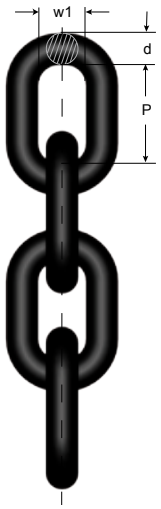
Berglok Chain Coupler BL



Art. no.	Code	WLL tonnes*	For chain dim.	L	E	F	A	Weight kg
Z622036	BL-6-8	1.1	6	27	20	9	14	0.1
Z195823	BL-7/8-8	2.0	7, 8	35	25	11	18	0.2
Z208022	BL-10-8	3.2	10	45	32	14	22	0.4
Z217820	BL-13-8	5.4	13	56	40	17	28	0.8
Z208226	BL-16-8	8.2	16	68	50	22	35	1.4

Fulfills requirements in: EN 1677:2008, ISO 8539:2009, ASTM A952/A952M-02, AS 3776:2015 and SANS 1595:2003.

Chain, Classic Grade 8



Heat treatment
Hardened and tempered.

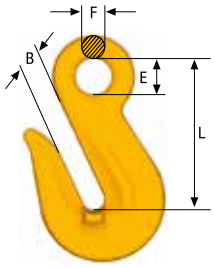
Heat treatment
Painted black (KLB)
Painted yellow (KLU)

Short link, KL

Fulfills the requirements in:
EN 818-2:2008, AS 2321:2014, ASTM A391/A 391M-07 (2012)

Art. no. Box	Code	WLL tonnes*	d nom.	P	w1	Weight kg/m	Manufacturing proof force kN	Breaking force kN
Z802174 - 1 x 200 m	KLB 6-8E	1.1	6	18	8.5	0.8	28.3	45.2
Z802175 - 1 x 200 m	KLB 7-8E	1.5	7	21	10.0	1.1	38.5	62
Z802176 - 1 x 200 m	KLB 8-8E	2.0	8	24	11.0	1.4	50.3	80.6
Z802156 - 1 x 100 m	KLB 10-8E	3.2	10	30	14.0	2.3	79	130
Z802157 - 1 x 100 m	KLB 13-8E	5.4	13	39	17.7	3.8	133	214
Z802177 - 1 x 100 m	KLB 16-8E	8.2	16	48	21.9	5.6	201	322
Z801203 - 1 x 100 m	KLB 19-8E	11.6	19	57	27.0	7.8	284	457
Z801228 - 1 x 50 m	KLB 22-8E	15.5	22	66	29.5	10.6	380	610
Z801231 - 1 x 50 m	KLB 26-8E	21.6	26	78	35.0	14.8	531	850
Z801232 - 1 x 25 m	KLB 32-8E	32.8	32	96	41.6	21.6	804	1300

Grab Hook OG



Not for use with Berglok. No reduction of working load limit, thanks to supporting lugs on either side of hook to prevent chain link deformation.

Art. no.	Code	WLL tonnes*	For chain dim.	L	B	E	F	Weight appr. kg
Z100811	OG-7/8-8	2.0	7, 8	65	10	16	10	0.3
Z291022	OG-10-8	3.2	10	85	12	20	12	0.6
Z295220	OG-13-8	5.4	13	104	15	25	16	1.2
Z296221	OG-16-8	8.2	16	130	19	30	19	2.4

Fulfills requirements in: EN 1677:2008, ISO 8539:2009, ASTM A952/A952M-02 and AS 3776:2015.

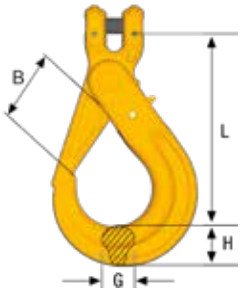
*Safety factor 4:1

All dimensions in mm

Safety Hook BKG

Art. no.	Code	WLL tonnes*	For chain dim.	L	B	G	H	Weight appr. kg
Z297222	BKG-7/8-8	2.0	7, 8	120	37	17	26	0.9
Z295929	BKG-10-8	3.2	10	143	45	21	30	1.5
Z291527	BKG-13-8	5.4	13	179	55	30	39	2.8
Z291624	BKG-16-8	8.2	16	217	62	37	48	5.1

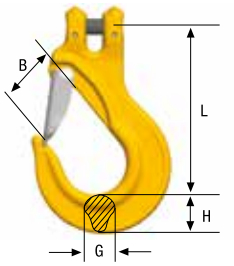
Fulfills requirements in: EN 1677:2008, ISO 8539:2009, ASTM A952/A952M-02, AS 3776:2015 and SANS 1595:2003.



Sling Hook EGKN with latch

Art. no.	Code	WLL tonnes*	For chain dim.	L	B	G	H	Weight appr. kg
Z100744	EGKN-7/8-8	2.0	7, 8	95	29	17	22	0.5
Z100772	EGKN-10-8	3.2	10	121	37	20	29	0.9
Z100773	EGKN-13-8	5.4	13	147	42	27	36	2.0
Z100774	EGKN-16-8	8.2	16	170	52	34	44	3.6

Fulfills requirements in: EN 1677:2008, ISO 8539:2009, ASTM A952/A952M-02, AS 3776:2015 and SANS 1595:2003.

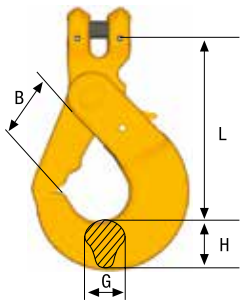


Container Hook BKGC

Art. no.	Code	WLL tonnes*	For chain dim.	L	B	G	H	Weight kg
Z100242	BKGC-16-8	8.2	16	160	55	27	43	3.4

Spare part: RDOBK

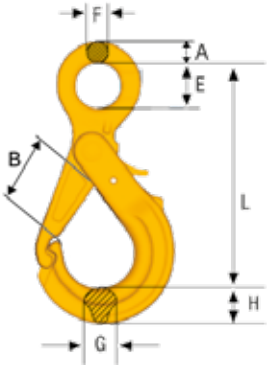
Fulfills requirements in: EN 1677:2008, ISO 8539:2009, ASTM A952/A952M-02, AS 3776:2015 and SANS 1595:2003.



Safety Hook with Griplatch OBK

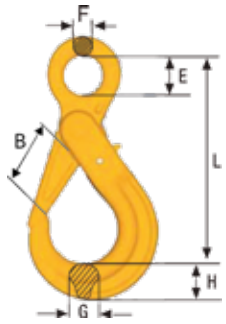
Art. no.	Code	WLL tonnes*	For chain dim.	A	L	B	E	F	G	H	Weight kg
Z100218	OBK-22-8	15.5	22	30	335	87	70	24	40	58	10.2

Fulfills requirements in: EN 1677:2008, ISO 8539:2009, ASTM A952/A952M-02 and AS 3776:2015.



*Safety factor 4:1

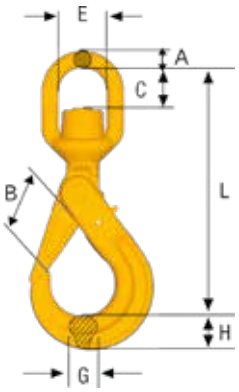
All dimensions in mm



Safety Hook BK

Art. no.	Code	WLL tonnes*	For chain dim.	L	B	E	F	G	H	Weight kg
Z101357	BK-32-8	32.8	32	400	120	90	30	62	86	23.8

Fulfills requirements in: EN 1677:2008, ISO 8539:2009, ASTM A952/A952M-02, AS 3776:2015 and SANS 1595:2003.

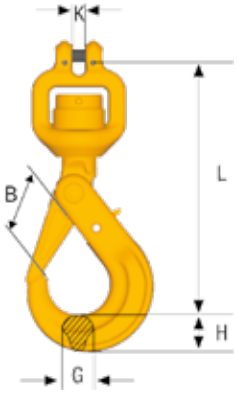


Swivel Safety Hook BKLK

Safety hook with ball-bearing for 360° rotation under full load.

Art. no.	Code	WLL tonnes*	For chain dim.	L	B	C	E	A	G	H	Weight kg
Z101344	BKLK-32-8	32.8	32	533	120	110	102	45	62	86	32.3

Fulfills requirements in: EN 1677:2008, ISO 8539:2009, ASTM A952/A952M-02, AS 3776:2015 and SANS 1595:2003.

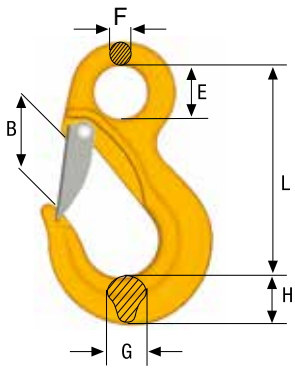


Clevis Swivel Safety Hook BKH

Safety hook with swivel for improved positioning of the hook before the load is lifted (360° rotation).

Art. no.	Code	WLL tonnes*	For chain dim.	L	B	K	G	H	Weight kg
Z336222	BKH-6-8	1.1	6	145	29	6.8	15	21	0.7
Z700809	BKH-7/8-8	2.0	7 - 8	181	37	8.8	17	26	1.2

Fulfills requirements in: EN 1677:2008, ISO 8539:2009, ASTM A952/A952M-02, AS 3776:2015 and SANS 1595:2003.



Sling Hook EK (without latch) and EKN (with latch)

Art. no.	Code	WLL tonnes*	For chain dim.	L	B	E	F	G	H	Weight kg
EN 1677-2										
Z100720	EK-32-8	32.8	32	333	105	76	38	61	80	17.7
Z100725	EKN-32-8	32.8	32	333	93	76	38	61	80	17.9

Fulfills requirements in: EN 1677:2008, ISO 8539:2009, ASTM A952/A952M-02, AS 3776:2015 and SANS 1595:2003.

DIN 7540 - Also available in ROV version on request										
Z101382	DK-50T-8	50.0		442	124	84	50.5	89	116	45.5
Z101361	DKN-50T-8	50.0		442	124	84	50.5	89	116	46.0
Z101384	DK-80T-8	80.0		610	155	102	63	110	145	79.5
Z101363	DKN-80T-8	80.0		610	155	102	63	110	145	80.0

Fulfills requirements in: EN 1677:2008, ISO 8539:2009, ASTM A952/A952M-02, AS 3776:2015 and SANS 1595:2003.

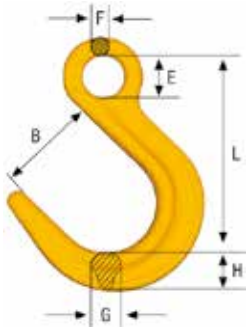
*Safety factor 4:1

All dimensions in mm

Foundry Hook OKE

Art. no.	Code	WLL tonnes*	For chain dim.	L	B	E	F	G	H	Weight Appr. kg
Z645564	OKE-32-8	32.8	32.8	384	145	90	42	77	94	30

Fulfills requirements in: EN 1677:2008, ISO 8539:2009, ASTM A952/A952M-02, AS 3776:2015 and SANS 1595:2003.



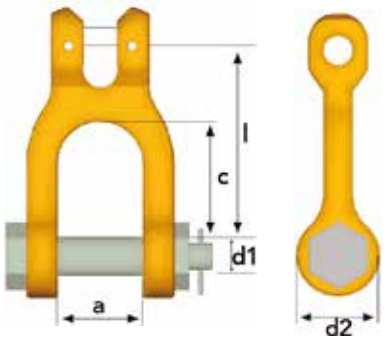
Clevis Shackle GSA

Grade 8 EN 1677-1

Finish: Painted yellow
Material: Alloy steel
Safety factor: 4:1

Art. no.	Code	WLL tonnes	For chain dim.	a	c	d2	l	d1	Weight kgs appr.
Z700882	GSA-7/8-8	2.0	7, 8	32	36	34	60	16	0.4
Z700883	GSA-10-8	3.2	10	34	48	40	80	20	0.8
Z700884	GSA-13-8	5.4	13	50	65	44	98	22	1.4
Z700885	GSA-16-8	8.2	16	60	70	54	114	27	2.4

Split pin included.

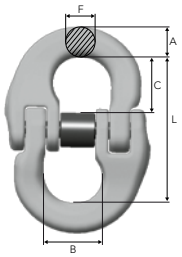


Coupling Link GF Stain Proof**

High strength stainless steel.

Art. no.	Code	WLL tonnes*	For chain dim.	L	B	F	A	C	Weight. kg
B80202	GF-10-8 SP	3.2	10	68	25	11	13	26	0.3
B80203	GF-13-8 SP	5.4	13	89	30	15	16	33	0.7
B80204	GF-16-8 SP	8.2	16	105	36	19	20	40	1.2

**This product comes with a straight pin without recession.



Hot Dip Galvanized lifting range Grade 8

The HDG lifting range is designed to meet the specific challenges from corrosive environments in which they will have a longer lifetime. They require less maintenance than standard products, which means that the HDG products are more cost effective in the long run.

A longer life span

The HDG coating prolongs the life time for equipment in corrosive environments significantly. Not just in costal and maritime areas but also in industrial plants and buildings with high humidity.

Protective coating with high impact and wear resistance

The HDG coating forms a flexible metallurgical bond with the steel, which gives outstanding resistance to mechanical damage during transport and service. The coating also provides an automatic protection to small areas of exposed steel, which means that minor damages need no touch-up.

Easy inspections and lower maintenance costs

Our HDG lifting components are easily visually inspected; if the coating appears sound and continuous, then it is. Simple and quick means improved productivity.

We are a provider of Peace of mind

Production and galvanizing of products that are sensitive for hydrogen embrittlement requires an in-depth material- and process knowledge.
Each element within the manufacturing process is stringently controlled with our in-house quality systems; this also applies to our galvanizing and heat treating procedures which are critical factors in the product performance. Our products are manufactured to exact demands and with preventive actions taken to avoid hydrogen ambrittlement in the material.

Technical information

Standards:

- EN 1677-1:2008
- EN 1677-3:2008
- EN 1677-4:2008
- EN 818-1:2008
- EN 818-2:2008 (material dim. Ø +10%)
- AS2321:2014
- ASTM A391/A391M-07 2012 (material dim. Ø +10%)
- ISO 1461:2009
- Applicable parts of NS9415:2009

Quality assurance:

- Fatique tested construction.
- Full traceability back to the raw material.
- Strict controls throughout the whole process.
- Measurement of coating thickness on random samples from every batch.
- 100% proof load of every single component.
- Visual inspection.

What is hot dip galvanizing (HDG)?:

- Hot-dip galvanizing is the process of coating steel with a layer of zinc for added corrosion resistance.
- It involves immersing the steel material in molten zinc through a multi-step galvanizing line.
- The resulting material is encased in several layers of zinc and zinc-iron alloys, making it extremely tough.

Material:

- High tensile steel, hardened and tempered.
- Hot dip galvanized coating according to ISO 1461-2009.

Temperature range:

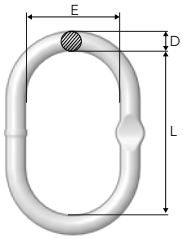
-40 °C to 200 °C

Documentation:

Inspection certificate acc. EN-10204 - 3.1

Master Link MF HDG

Art. no.	Code	WLL (SF 5:1) tonnes EN1677-4	WLL (SF 5:1) tonnes A-952/A952M	L	E	D	Weight kgs
BG14481	MF-86-8 HDG	2.0	2.0	125	70	14	0.5
BG14482	MF-108-8 HDG	3.2	3.2	140	80	17	0.8
BG14483	MF-1310-8 HDG	5.4	5.4	160	95	22	1.5
BG14484	MF-1613-8 HDG	8.2	8.2	190	110	28	2.8

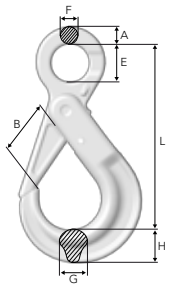


Chain KLZ HDG

Art. no.	Code	WLL tonnes*	d nom.	p	w1	Weight kgs	MPF kN	Breaking force kN	Delivery length
ZG802306	KLZ-6-8 HDG	1.12	6.6	18	8.9	1.0	36.8	45.2	1 x 100 m
ZG802307	KLZ-8-8 HDG	2.0	8.8	24	11.2	1.7	63.0	80.6	1 x 100 m
ZG802308	KLZ-10-8 HDG	3.2	11.0	30	14.4	2.6	98.8	130	1 x 100 m
ZG802309	KLZ-13-8 HDG	5.4	14.3	39	19.2	4.5	166	214	1 x 100 m
ZG802310	KLZ-16-8 HDG	8.2	17.3	48	23.0	6.7	251	322	1 x 100 m

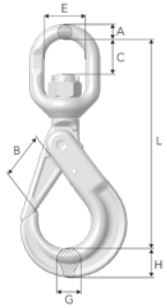
Safety Hook BK HDG

Art. no.	Code	WLL tonnes*	A	L	B	E	F	G	H	Weight kgs
ZG101108	BK-6-8 HDG	1.12	12	109	29	22	10	15	21	0.5
ZG101097	BK-7/8-8 HDG	2.0	14	138	37	28	11	17	26	0.9
ZG101024	BK-10-8 HDG	3.2	16	168	45	34	13	21	31	1.5
ZG101032	BK-13-8 HDG	5.4	20	207	55	44	16	30	40	3.0



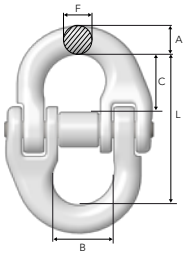
Swivel Safety Hook BKL HDG

Art. no.	Code	WLL tonnes*	L	B	C	E	A	G	H	Weight kgs
ZG101028	BKL-10-8 HDG	3.2	218	45	37	44	15	21	31	2.0
ZG101036	BKL-13-8 HDG	5.4	282	55	49	48	19	30	40	4.0
ZG101044	BKL-16-8 HDG	8.2	344	62	68	61	25	37	50	7.3



Coupling Link G HDG

Art. no.	Code	WLL tonnes*	L	B	F	A	C	Weight kgs
ZG100821	G-6-8 HDG	1.12	45	15	7	8	17	0.1
ZG100822	G-8-8 HDG	2.0	56	18	9	11	22	0.2
ZG100823	G-10-8 HDG	3.2	68	25	11	13	26	0.3
ZG100824	G-13-8 HDG	5.4	89	30	15	16	33	0.7



*Safety factor 4:1

All dimensions in mm

Spare Part BK

Set for BK/BKG safety hooks consisting of trigger, stainless steel spring, retaining pin and assembly kit.

Recessed trigger

Art. no.	Code	Weight kg
Z100282	RDBK-6	0.02
Z100283	RDBK-8	0.03
Z100284	RDBK-10	0.03
Z100285	RDBK-13	0.05
Z100286	RDBK-16	0.10
Z100297	RDBK-18/20	0.21
Z100287	RDBK-22	0.20
Z100280	RDBK-26	0.50
Z100294	RDBK-32	0.70

Standard trigger (long trigger)

Art. no.	Code	Weight kg
Z1002820	RDBK-6	0.01
Z1002830	RDBK-7/8	0.03
Z1002840	RDBK-10	0.03
Z1002850	RDBK-13	0.05
Z1002860	RDBK-16	0.12

Spare Part OBK / GBK

Set for OBK/GBK safety hooks consisting of trigger, stainless steel spring, retaining pin and assembly kit.

Art. no.	Code	Weight kg
Z100281	RDOBK-6	0.01
Z100288	RDOBK-7/8	0.02
Z100289	RDOBK-10	0.03
Z100290	RDOBK-13	0.05
Z100291	RDOBK-16	0.08
Z100297	RDOBK-18/20	0.21
Z100323	RDOBK-22-8	0.35

Spare Part BKD / BKLKD

Art. no.	Code	Weight kg
Z101157	RDBKD-13 double latch	0.22
Z101158	RDBKD-16 double latch	0.42
Z101159	RDBKD-18/20 double latch	0.47

Spare Part GKN / OKN

Art. no.	Code	Weight kg
Z622175	RDGKN/OKN-7/8-8	0.05
Z622183	RDGKN/OKN-10-8	0.09
Z622206	RDGKN/OKN-13-8	0.13
Z622214	RDGKN-16-8	0.22

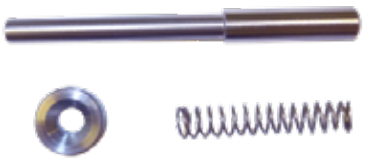
Spare Part LKNG

Art. no.	Code		Weight kg
Z700495	RDLKNG-16	Bolt and Nut	0.7
B60122	RDLKNG-16	Bronze Washer and Retaining pin	0.03

Spare Part GG

Spare part set consisting of pin, spring and locking ring.

Art. no.	Code	Weight kg
B17930	RDGG-8-10 locking pin	0.03
B17931	RDGG-10-10 locking pin	0.04
B17932	RDGG-13-10 locking pin	0.05
B17933	RDGG-16-10 locking pin	0.06



Spare Part LKN / LKNK / EKN / OKN / EGKN / RH / ESKN

Set consisting of latch, stainless steel spring and rivet.

Art.no.	Code	Weight kg
Z100445	RDEKN- 6 / OKN / RH 1	0.03
Z100447	RDEKN- 7/8 /LKN / RH 2	0.05
Z100450	RDEKN-10 / LKN / RH 3	0.06
Z100449	RDEKN-13 / LKN / RH 5	0.13
Z100217	RDEKN-16 / LKN	0.20
Z100453	RDEKN-18/20	0.26
Z100452	RDEKN-22	0.42
Z100742	RDEKN-26	0.53
Z100743	RDEKN-32	0.60

Spare Part SKN, OKN and LKN (old version)

Set consisting of latch, stainless steel spring and rivet.

Art. no.	Code	Weight kg
Z420581	RDSKN/LKN-7/8-8	0.05
Z420688	RDSKN/LKN-10-8	0.10
Z420785	RDSKN/LKN-13-8	0.14
Z420989	RDSKN/OKN-16-8	0.22
Z421087	RDSKN/OKN-18/20-8	0.27
Z700698	RDOKN-22-8	0.48

Spare Part UKN

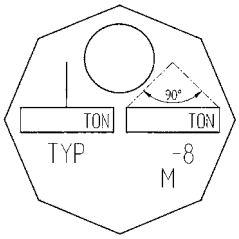
Spare part set RDUKN (msp) consisting of forged latch, pin, stainless steel spring and retaining pin.

Art. no.	Code	Weight kg
Z100258	RDUKN-0.75	0.06
Z700264	RDUKN-1	0.12
Z700958	RDUKN-2	0.20
Z700266	RDUKN-3/4	0.20
Z700268	RDUKN-5/8	0.36
Z700269	RDUKN-10	0.88
Z700984	RDUKN-15/20	1.20

Id-tag grade 8

Stainless steel.

Art.no.	Code
Z100004	Id-tag



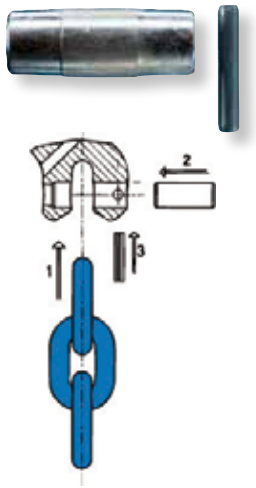
Sling Id-tag Grade 10

Stainless steel.

Art. no.	Code
B14841	Flexitag 6 mm with ferrule and wire
B14842	Flexitag 8 mm with ferrule and wire
B14843	Flexitag 10 mm with ferrule and wire
B14844	Flexitag 13 mm with ferrule and wire
B14845	Flexitag 16 mm with ferrule and wire
Z100971	Flexitag 6 mm
Z100972	Flexitag 8 mm
Z100973	Flexitag 10 mm
Z100974	Flexitag 13 mm
Z100975	Flexitag 16 mm
Z101077	Flexitag 20 mm
Z100899	Flexitag Neutral

Load Pin set CLS

Clevis connection set consisting of one load pin and one spring retaining pin.

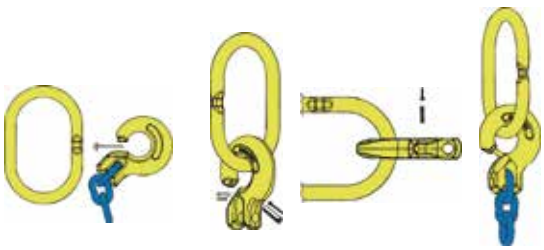


Art. no.	Code	Weight kg
B14930	CLS- 6	0.01
B14931	CLS- 8	0.02
B14932	CLS-10	0.04
B14933R	CLS-13	0.09
B14934	CLS-16	0.16
B14935	CLS-20	0.26

Spare Part CS

C-connection set for CG, CGD, CL, CLD and RH hook,
consisting of one blocking pin and one spring retaining pin, for locking.

Art. no.	Code	Weight kg
B14920	CS- 6-10	0.01
B14921	CS- 8-10 / RH-1& -2	0.01
B14922	CS-10-10 / RH-3	0.01
B14923	CS-13-10	0.03
B14924	CS-16-10 / RH-5	0.05



Assembly: C-coupling - C-grab/C-lok with MF

Close/Open Locking set FlexiLeg Quick Pin

Art. no.	Code	Weight kg
Z101010	QP-6-10	0.01
Z101011	QP-8-10	0.01
Z101012	QP-10-10	0.01
Z101013	QP-13-10	0.03
Z101014	QP-16-10	0.06

Locking set SKA

SKA locking set for G-link, consists of a load pin and locking collar.

Art. no.	Code	Weight kg
Z100989	SKA- 6-10	0.01
Z100933	SKA- 7/8-10	0.02
Z100934	SKA-10-10	0.04
Z100990	SKA-13-10	0.08
Z100991	SKA-16-10	0.14
Z101176	SKA-20-10	0.26
Z650555	SKA-22-10	0.35
Z650556	SKA-26-10	0.63
Z650557	SKA-32-10	1.09

Art. no.	Code	Weight kg
Z700674	SKA-6-8	0.01
Z323624	SKA-7/8-8	0.02
Z318024	SKA-10-8	0.04
Z303822	SKA-13-8	0.08
Z303725	SKA-16-8	0.14
Z145048	SKA-18/20-8	0.26
Z133530	SKA-22-8	0.35
Z605407	SKA-26-8	0.63
Z650554	SKA-32-8	1.05

Load Pin set Berglok BLA

Set for Berglok and Clevis type connections.
Consists of one load pin and two retaining pins.

Art. no.	Code	Weight kg
Z275649	BLA-6-8*	0.01
Z275347	BLA-7/8-8*	0.02
Z275444	BLA-10-8	0.04
Z275648	BLA-13-8	0.08
Z276047	BLA-16-8	0.15
Z276241	BLA-19-8	0.26

* Also for Safety hook BKH

Locking set Midgrab MIG

Art. no.	Code	Weight kg
B14904	C-8	0.02
B14905	L-8	0.02
B14914	C-10	0.02
B14915	L-10	0.02
B14916	C-13	0.08
B14917	L-13	0.05

C - Close/open function

L - Permanent locking function

Technical information

The following information aims to give advice and explain the most common questions in order to ensure safe and proper use of lifting equipment.

It is of the utmost importance that this information is known to the user, and in accordance with the Machinery Directive 2006/42/EC this information must be delivered to the customer.

Extreme environments

The in-service temperature effects the WLL as follows:

Temperature (°C)	Reduction of WLL			
	Grade 10 chain (400)	Grade 10 chain (200)	Grade 10 components	Grade 8 chain & components
-40 to +200 °C	0 %	0 %	0 %	0 %
+200 to +300 °C	10 %	Not allowed	10 %	10 %
+300 to +400 °C	25 %	Not allowed	25 %	25 %

Upon return to normal temperature, the sling reverts to its full capacity within the above temperature range. Chain slings should not be used above or below these temperatures.
Note! A chain sling with Grade 10 (200) chain must not be used in temperatures above 200 °C.

- Chain and components must not be used in alkaline (>pH10) or acidic conditions (<pH6).
- Comprehensive and regular examination must be carried out when used in severe or corrosive inducing environments.
- In uncertain situations consult your Gunnebo Industries dealer.

Surface treatment

Note! Hot-dip galvanizing or plating is not allowed outside the control of the manufacturer.

Protect yourself and others

- Before each use the chain sling should be checked for obvious damage or deterioration.
- Know the weight of the load, the center of gravity and ensure it is ready to move and no obstacles will obstruct the lift.
- Check the conformity of the load with the WLL of the ID tag for the specific working configuration. Never use a sling without a legible valid ID tag!
- Prepare the landing site.
- Never overload a sling and avoid shock loading.
- Never use an improper sling configuration.
- Never use a worn out or damaged sling.
- Never ride on the load.
- Never walk or stand under a suspended load.
- Take into consideration that the load may swing or rotate.
- Watch your feet and fingers while loading/unloading.
- Always ensure that your back is clear.

General advice

- Ensure that the sling is precisely as ordered.
- Ensure that the manufacturers certificate is in order.
- Ensure that the ID-tag corresponds to the information on the certificate (the following ID tag information is compulsory: WLL, number of chain legs, nominal size (mm) individual ID-mark, manufacturer, CE-marking and year of manufacturing).
- Ensure that all details of the chain sling are recorded.
- Ensure that the staff using the chain sling has received the appropriate information and training.

Asymmetrical loading conditions

For unequally loaded chain legs we recommend that the WLL are determined as follows:

- 2-leg slings calculated as the corresponding 1-leg sling
- 3 and 4-leg slings calculated as the corresponding 1-leg sling. (If it is certain that 2-legs are equally carrying the major part of the load, it can be calculated as the corresponding 2-leg sling.

Safe use

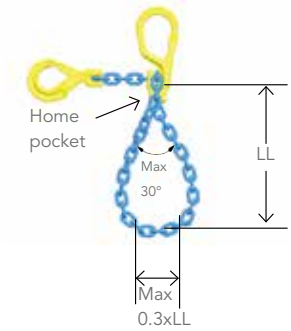
A chain sling is usually attached to the load and the crane by means of terminal fittings such as hooks, links etc.

When frequently using a sling to it's maximum load, we recommend increasing the sling size by one dimension.

Chain should be without twists or knots, if the chain leg needs length adjustment use a shortening device. The lifting point should be seated well down in the terminal fitting, never on the point or wedged in the opening. The terminal fitting should be free to incline in any direction.

The chain may be passed under or through the load to form a choke hitch or basket hitch. The chain should be allowed to assume it's natural angle and should not be hammered down.

Where choke hitch is employed the WLL of the chain sling should be reduced by 20% (unless the LK choker hook is used)



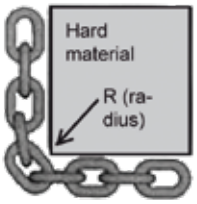
Endless chain slings shall be rated in the same way as a 2-legged sling.

Home pocket loop shall have an internal loop top angle of max. 30°. Rule of thumb: Cross dimension of the load shall be max. 0.3 times the loop length (LL)

Definition: The home pocket is the shortening pocket of the top component directly above the clevis to which the chain is connected.

Sharp edges

Use edge protectors to prevent sharp edges from damaging the chain. If lifting over sharp edges reduce the working load with the following reduction tor.



Edge load	*R >2 x chain Ø*	*R > chain Ø*	*R < chain Ø*
Reduction factor	*1.0*	*0.7*	*0.5*

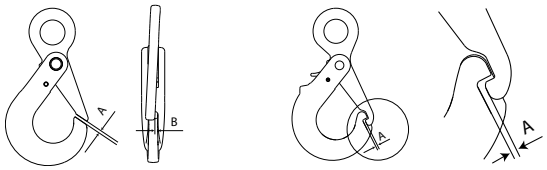
- The angle of the edge must not be below 90°.
- Chain links shall be protected from being bent or deformed and from receiving cuts or gouges.
- Chain sling WLL is to be reduced when chain is rigged over an edge radius R less than two (2) x chain diameter (d).
- Reduced WLL equals chain sling WLL from 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%.

Maintenance

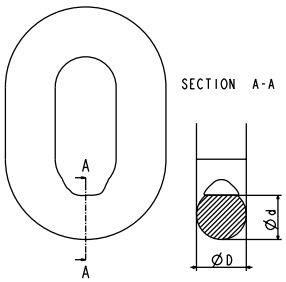
Periodic thorough examination must be carried out at least every 12 months or more frequently according to local statutory regulations, type of use and past experience.

1. Overloaded chain slings must be taken out of service.
2. If the lifting equipment is more than 25 years old, it must be recorded in the inspection register. An investigation into both its previous operating history and its current use should be made, as there is a potentially significant risk of fatigue, environmental impact etc.
3. Chain and components including load pins which have been damaged, deformed, elongated, bent or showing signs of cracks or gouges shall be replaced. Carefully grind away small sharp cuts and burrs. Additional testing by magnetic particle inspection and/or proof loading at max. 2 x WLL may be carried out.
4. The maximum permissible increase in hook aperture must not exceed 10% of the products nominal dimension.
5. Check the function of latches, triggers and retaining pins / bushes, replace when necessary. Always use Gunnebo Industries original spare parts.
6. Max. clearance between hook and latch. Note: For a Griplatch hook measure the difference between dimension A with unloaded spring and dimension A when the latch is pressed against the hook. Clearance B not applicable.



Size	Max. A (mm).	Max. B (mm).
6	2,2	3,5
7/8	2,7	4,5
10	3	6
13	3,3	7
16	4	9
18/20	5,5	10
22	6	11
26	6,5	12
32	7	13

7. The wear of the chain and component shall in no place exceed 10% of the products nominal dimension. The chain link wear is defined and measured as the reduction of the mean diameter measured in two perpendicular directions, see picture.



$$\frac{d_1 + d_2}{2} > 0{,}9d_{nn}$$

d_n = nominal diameter

Quality assurance

Type testing

In order to prove the design, material, heat treatment and method of manufacture, each size of component and chain has been type tested in the finished condition in order to demonstrate that the component and chain possesses the required mechanical properties. The following testing procedures are particularly relevant:

Test for deformation

The Manufacturing Proof Force (MPF) for the relevant size of the component is applied and removed. The dimensions after proof loading shall not alter from the original dimensions within the tolerances prescribed in our specifications and in the international standards.

Static tensile test

The Breaking Force (BF) for each component and size is verified. The verified value shall be at least equal to the Minimum Breaking Force (MBF) value. The MBF value is equal to the Working Load Limit (WLL) multiplied by the safety factor.

Fatigue test

By fatigue testing in pulsator testing machines the toughest conditions of service are simulated.

Manufacturing testing

During manufacture continuous process tests are carried out according to the requirements in our specifications and in the latest international standards. The following testing procedures are particularly relevant:

Non destructive test

3% of every production batch of forged components are subject to magnetic particle or dye penetrating examination.

Proof force / Visual inspection

Each individual forged component and chain link is tested to the Manufacturing Proof Force (MPF) level before delivery. The MPF level is 2.5 times the WLL, equal to 62,5% of the Minimum Breaking Force. Visual inspection is carried out on each chain link and each forged component to detect defects.

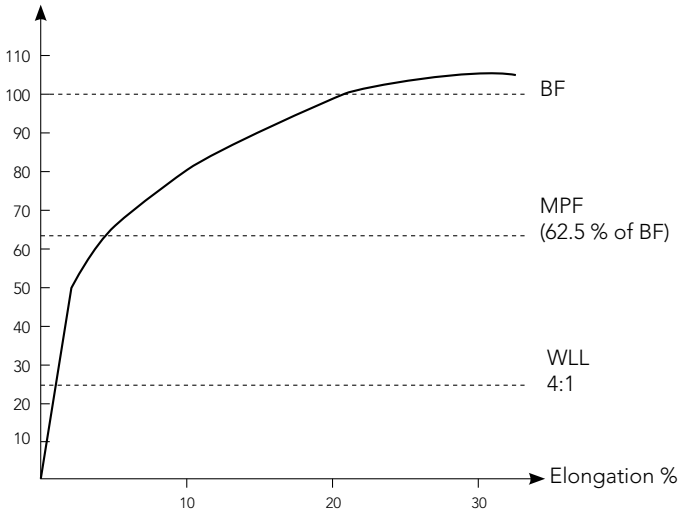
Static tensile and ultimate elongation test

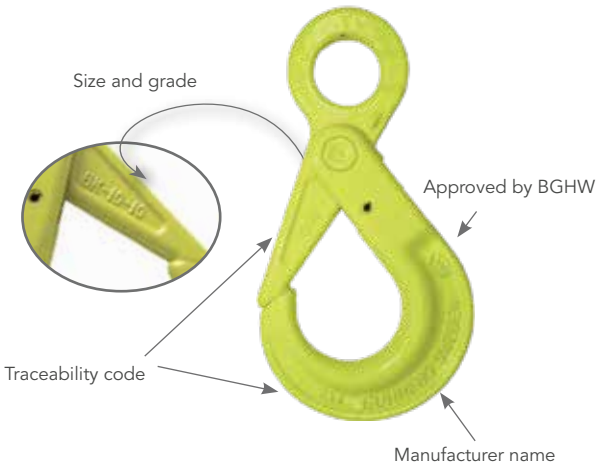
During chain manufacturing, samples are tested and the Minimum Breaking Force (MBF) value and the total ultimate elongation are verified.

Bending deflection

During manufacturing, of chain and master links, samples are taken and the minimum bend deflection is verified.

Stress / elongation diagram

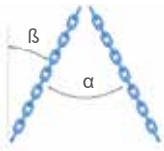
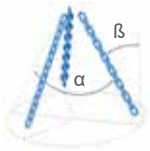
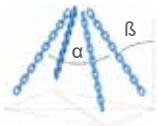
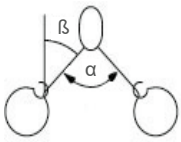




Working load limits - Europe

WLL tonnes Grade 10 GrabiQ

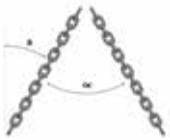
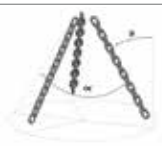
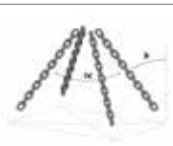
Based on EN 818-4:2008 WLL+25%

							
Sling type	1-leg	2-leg		3- and 4-leg		Choke Hitch	
Condition of use	Straight	ß 0-45° α 0-90°	ß 45-60° α 90-120°	ß 0-45° α 0-90°	ß 45-60° α 90-120°	Choke ß 0-45° α 0-90°	Choke ß 45-60° α 90-120°
Load factor	1	1.4	1	2.1	1.5	1.1	0.8
Chain size							
6	1.50	2.10	1.50	3.10	2.20	1.60	1.20
7	1.95	2.70	1.95	4.00	2.90	2.10	1.50
8	2.50	3.50	2.50	5.20	3.70	2.70	2.00
10	4.00	5.60	4.00	8.40	6.00	4.40	3.20
13	6.80	9.50	6.80	14.20	10.20	7.40	5.40
16	10.00	14.10	10.00	21.00	15.00	11.00	8.00
20	16.00	22.50	16.00	33.60	24.00	17.60	12.80
22	20.00	28.20	20.00	42.00	30.00	22.00	16.00
26	27.00	38.00	27.00	56.70	40.50	29.70	21.60
32	40.00	56.40	40.00	84.00	60.00	44.00	32.00

Safety factor 4:1. Working load limits are based upon equally loaded and disposed sling legs.

WLL tonnes Grade 8 Classic

EN 818-4:2008

						
Sling type	**1-leg**	**2 -leg**		3- and 4-leg		Choke Hitch
Condition of use	Straight	ß 0-45° α 0-90°	ß 45-60° α 90-120°	ß 0-45° α 0-90°	ß 45-60° α 90-120°	Endless sling in choke hitch
Load factor	1	1.4	1	2.1	1.5	1.6
Chain size						
6	1.12	1.60	1.12	2.36	1.70	1.80
7	1.50	2.12	1.50	3.15	2.24	2.50
8	2.00	2.80	2.00	4.25	3.00	3.15
10	3.15	4.25	3.15	6.70	4.75	5.00
13	5.30	7.50	5.30	11.20	8.00	8.50
16	8.0	11.2	8.0	17.0	11.8	12.5
19	11.2	16.0	11.2	23.6	17.0	18.0
22	15.0	21.2	15.0	31.5	22.4	23.6
26	21.2	30.0	21.2	45.0	31.5	33.5
32	31.5	45.0	31.5	67.0	47.5	50.0

Safety factor 4:1. Working load limits are based upon equally loaded and disposed sling legs.

Rules for correct WLL

Where choke hitch is employed, the WLL of the chain sling should be reduced by 20 % (unless the LK choker hook is used).

Asymmetrical loading conditions

For unequally loaded chain slings, the following is recommended:

- A two-legged system is treated as a single-legged system.
- A three- or four-legged system is treated as a two-legged system.

Working load limits - United States

WLL tonnes Grade 10 GrabiQ

Based on ASTM A906/A906M-02

Sling type	1-leg	2-leg			3- and 4-leg		
Condition of use	Straight	α 60°	α 45°	α 30°	α 60°	α 45°	α 30°
Load factor	1	1.73	1.41	1	2.59	2.12	1.5
Chain size							
6	1.50	2.50	2.10	1.50	3.80	3.10	2.20
7	1.95	3.40	2.80	1.95	5.10	4.10	2.90
8	2.60	4.50	3.70	2.60	6.70	5.50	3.90
10	4.00	6.90	5.60	4.00	10.40	8.50	6.00
13	6.80	11.80	9.60	6.80	17.70	14.40	10.20
16	10.30	17.70	14.50	10.30	26.60	21.70	15.40
20	16.00	27.70	22.60	16.00	41.60	34.00	24.00
22	19.40	33.60	27.40	19.40	50.30	41.10	29.00
26	27.10	46.80	38.20	27.00	70.60	57.40	40.50
32	40.00	69.30	56.50	40.00	103.90	84.80	60.00

Note 1: WLL for 2-leg sling and single leg basket slings = 2 x 1-leg WLL x sin of horizontal angle α
Note 2: WLL for 3- and 4-leg sling and 2-leg basket slings = 3 x 1-leg WLL x sin of horizontal angle α
Note 3: WLL based upon equally loaded and disposed sling legs

WLL tonnes Grade 8 Classic

Based on ASTM A906/A906M-02

Sling type	1-leg	2-leg			3- and 4-leg		
Condition of use	Straight	α 60°	α 45°	α 30°	α 60°	α 45°	α 30°
Load factor	1	1.73	1.41	1	2.59	2.12	1.5
Chain size							
6	1.12	1.94	1.58	1.12	2.91	2.38	1.68
7	1.57	2.72	2.22	1.57	4.08	3.33	2.36
8	2	3.46	2.83	2.00	5.20	4.24	3.00
10	3.2	5.54	4.53	3.20	8.31	6.79	4.80
13	5.4	9.35	7.64	5.40	14.03	11.46	8.10
16	8.2	14.20	11.60	8.20	21.30	17.39	12.30
19	11.6	20.00	16.30	11.60	30.00	24.50	17.40
22	15.5	26.85	21.92	15.50	40.27	32.88	23.25
26	21.6	37.41	30.55	21.60	56.12	45.82	32.40
32	32.8	56.81	46.39	32.80	85.22	69.58	49.20

Note 1: WLL for 2-leg sling and single leg basket slings = 2 x 1-leg WLL x sin of horizontal angle α
Note 2: WLL for 3- and 4-leg sling and 2-leg basket slings = 3 x 1-leg WLL x sin of horizontal angle α
Note 3: WLL based upon equally loaded and disposed sling legs

Working load limits - Australia

WLL tonnes Grade 10 GrabiQ

Based on AS 3775.2:2014

Sling type	1-leg			2-, 3- and 4-leg				Basket Slings		GrabiQ home pocket loop		
Condition of use	Straight	Adjustable with no deration	Reeved sling (Choke)	Straight 60°	Straight 90°	Straight 120°	Reeved (Choke) Max angle 60°	1-leg	2-leg	1-leg α max 30°	2-,3- and 4-leg 60° α max 30°	2-,3- and 4-leg 90° α max 30°
Load factor	1	1	0.75	1.73	1.41	1	1.3	1.3	2.25	1	1.73	1.4
Chain size												
6	1.50	1.50	1.10	2.50	2.10	1.50	1.90	1.90	3.30	1.50	2.50	2.10
7	1.95	1.95	1.40	3.30	2.70	1.95	2.50	2.50	4.30	1.95	3.30	2.70
8	2.50	2.50	1.80	4.30	3.50	2.50	3.20	3.20	5.60	2.50	4.30	3.50
10	4.00	4.00	3.00	6.90	5.60	4.00	5.20	5.20	9.00	4.00	6.90	5.60
13	6.80	6.80	5.10	11.70	9.50	6.80	8.80	8.80	15.30	6.80	11.70	9.50
16	10.00	10.00	7.50	17.30	14.10	10.00	13.00	13.00	22.50	10.00	17.30	14.00
20	16.00	16.00	12.00	27.60	22.50	16.00	20.80	20.80	36.00	-	-	-
22	20.00	20.00	15.00	34.60	28.20	20.00	26.00	26.00	45.00	-	-	-
26	27.00	27.00	20.20	46.70	38.00	27.00	35.10	35.10	60.70	-	-	-
32	40.00	40.00	30.00	69.20	56.40	40.00	52.00	52.00	90.00	-	-	-

Note 1: Advice regarding the appropriate deration should be sought by the manufacturer
Note 2: The determination of the angle of the multi-leg sling is the largest angle at the apex of the configuration
Note 3: Reeved (choke) slings and basket slings, in a two leg configuration have a maximum angle for us of 60°
Note 4: In the 2-leg basket sling, the master link to be used shall be of an approprate WLL and with intermediate links. This ensures that the factor 2,25 can be accommodated and that there is no overcrowding with back hooking.
Note 5: For engineered lifts, see Clause 7.2.2 in AS 3775.2:2014

WLL tonnes Grade 8 Classic in Australia

Based on AS 3775.2:2014

Sling type	1-leg				2-, 3- and 4-leg				2-leg
Condition of use	Straight	Adjustable with no deration	Reeved sling (Choke)	Basket Max angle 60°	Straight β 60°	Straight β 90°	Straight β 120°	Reeved (Choke) Max angle 60°	Basket
Load factor	1	1	0.75	1.3	1.73	1.41	1	1.3	2.25
Chain size									
6	1.10	1.10	0.80	1.40	1.90	1.50	1.10	1.40	2.40
7	1.50	1.50	1.10	1.90	2.50	2.10	1.50	1.90	3.30
8	2.00	2.00	1.50	2.60	3.40	2.80	2.00	2.60	4.50
10	3.20	3.20	2.40	4.10	5.50	4.50	3.20	4.10	7.20
13	5.40	5.40	4.00	7.00	9.30	7.60	5.40	7.00	12.10
16	8.00	8.00	6.00	10.40	13.80	11.20	8.00	10.40	18.00
19	11.60	11.60	8.70	15.00	20.00	16.30	11.60	15.00	26.10
20	12.50	12.50	9.30	16.20	21.60	17.60	12.50	16.20	28.10
22	15.50	15.50	11.60	20.10	26.80	21.80	15.50	20.10	34.80
26	21.60	21.60	16.20	28.00	37.30	30.40	21.60	28.00	48.60
32	32.80	32.80	24.60	42.60	56.70	46.20	32.80	42.60	73.80

Note 1: Advice regarding the appropriate deration should be sought by the manufacturer
Note 2: The determination of the angle of the multi-leg sling is the largest angle at the apex of the configuration
Note 3: Reeved (choke) slings and basket slings, in a two leg configuration have a maximum angle for us of 60°
Note 4: In the 2-leg basket sling, the master link to be used shall be of an approprate WLL and with intermediate links. This ensures that the factor 2,25 can be accommodated and that there is no overcrowding with back hooking.
Note 5: For engineered lifts, see Clause 7.2.2 in AS 3775.2:2014