

GrabiQ

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WARNING:

Failure to read, understand and comply with the following instructions, working load limits and specifications in this publication may result in serious injury or damage to property.

Increase Efficiency and Reduce Cost

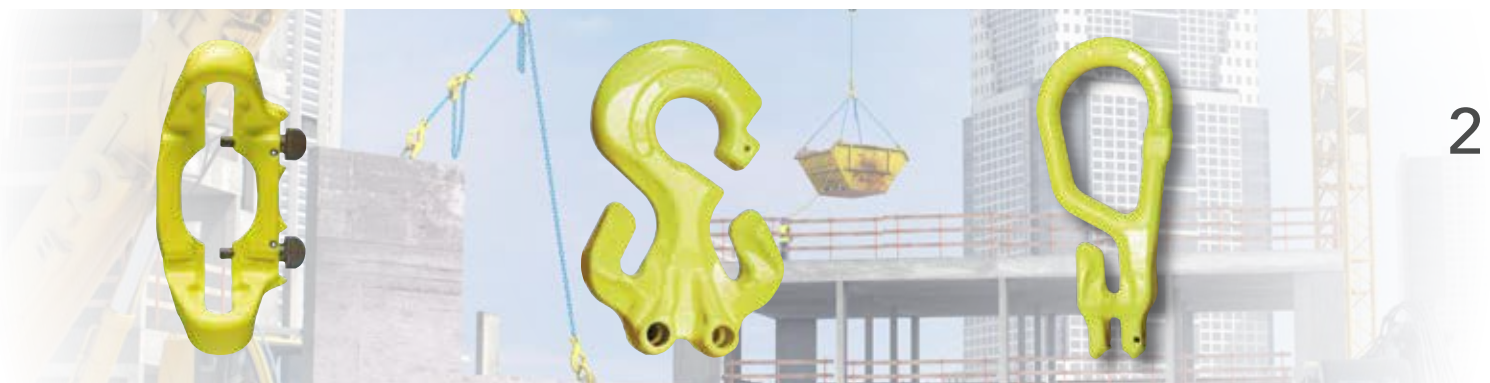
Our GrabiQ chain sling system for coupling, shortening and lifting in grade 10 is designed to integrate multiple functions in each component.

GrabiQ – Quicker, safer and easier lifting operations

- **Intelligent design:**
Efficient and ergonomic lifts.
- **Multiple functions in each component:**
Fewer components in each sling, resulting in cost effective lifting operations.
- **Built in shortening function:**
Allows the user to instantly adjust the chain sling.
- **Grade 10:**
Lighter slings and 25 % added strength compared to grade 8.
- **High quality:**
All products are proof loaded and visually inspected.

Components with Multiple Functions

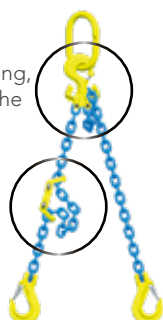
Innovative designs that combines several clever functions in one component.



2

Midgrab, MIG

- Instant mounting, positioning, shortening on any part of the chain.



C-grab Duo, CGD

- Built in shortening function.



Master Grab, MG

- "All-in-one" compact top link
- Every chain leg can instantly be altered.
- Using the built in shortening function you can alter between a straight lift to a looped sling in a matter of seconds.

Fewer Components with GrabiQ

With GrabiQ the number of components and the weight is significantly reduced:

4-leg sling with shortening function



- 1 Master link
- 2 C-grab Duo

Total:
3 GrabiQ components



- 1 Master link with 2 Sublinks
- 8 Berglok Chain Couplers
- 4 Grab Hooks

Total:
15 components

2-leg sling with shortening function



- 1 Master Grab Duo

Total:
1 GrabiQ component



- 1 Master link
- 4 Berglok Chain Couplers
- 2 Grab Hooks

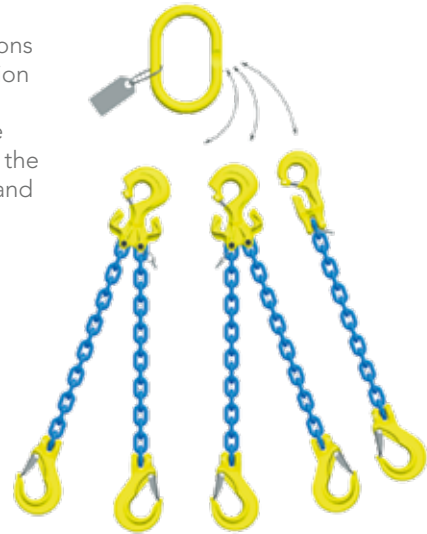
Total:
7 components

Less is More with FlexiLeg™

Thanks to the unique features of our GrabiQ product range we can offer solutions that increase the flexibility in lifting operations even further. Our FlexiLeg solution allows you to have an instant leg change onsite. With one single master link in combination with five Flexi-legs we offer a solution that replaces four complete traditional slings, a total of ten legs. In addition to this Flexi-leg also gives you the opportunity to modify the chain sling to different lifting operations, whenever and wherever it is needed.

The Benefits of Instant Leg-Change

- It enables the user to change slings, leg by leg.
- It makes the sling lighter and easier to work with.
- Sling legs that are not being used can easily be removed, thereby increasing safety at the work site.
- The quantity of sling material is greatly reduced, providing cost savings.
- The chain sling can be rebuilt on site, thus increasing efficiency.



GrabiQ FlexiLeg – a total of 5 legs replaces the total of 10 legs with the old traditional system.

GrabiQ™



1 - Leg

+



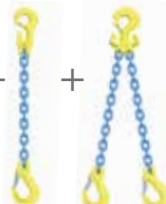
2 - Leg

+



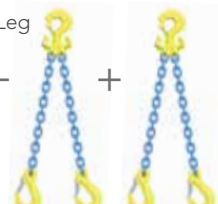
3 - Leg

+



4 - Leg

+



Traditional System

1 - Leg



2 - Leg



3 - Leg



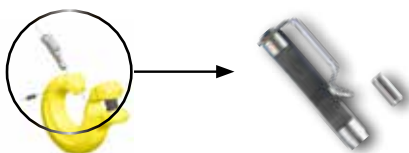
4 - Leg



Related Products

QuickPin - For safe exchange of sling legs

- Fits all C-components! (CL, CLD, CG, CGD)
- Has instant close/open function, no tools needed!
- Easy to retro-fit!
- Made of stainless steel for long product life span.



FlexiTag - For every GrabiQ sling

- Specially designed for FlexiLeg
- Fits all other GrabiQ slings
- WLL and chain size pre-stamped for 1 - 4 legs
- Leg angle 45/60 degree shown in contour
- Made of stainless steel for use in all weather conditions.



GrabIQ Solutions for Every Need

1-leg Chain Slings



MG1-GBK
Consist of: Master link MG,
Chain KLA, Safety Hook GBK

Dim. mm	WLL t*	Total Components length, mm
6	1.5	171
8	2.6	296
10	4.0	361
13	6.8	453
16	10.3	527



MG1-EGKN
Type: Master link MG, Chain KLA,
Hook with latch EGKN

Dim. mm	WLL t*	Total Components length, mm
6	1.5	231
8	2.6	261
10	4.0	331
13	6.8	408
16	10.3	481



TG1-GBK
Master link MF, C-grab CG,
Chain KLA, Safety Hook GBK

Dim. mm	WLL t*	Total Components length, mm
6	1.5	200
8	2.6	346
10	4.0	424
13	6.8	504
16	10.3	621

2

2-leg Chain Sling



TG1-EGKN
Consists of: Master link MF, C-grab CG,
Chain KLA, Hook with latch EGKN

Dim. mm	WLL t*	Total Components length, mm
6	1.5	286
8	2.6	342
10	4.0	415
13	6.8	507
16	10.3	624



MGD2-EGKN
Consists of: Master link MGD,
Chain KLA, Latch Hook EGKN

Dim. mm	WLL tonnes*		Total Components length, mm
	β 0-45° α 0-90°	β 45-60° α 90-120°	
6	2.1	1.5	230
8	3.5	2.6	261
10	5.6	4.0	331
13	9.5	6.8	408
16	14.0	10.3	481



MGD2-GBK
Consists of: Master link MGD,
Chain KLA, Safety Hook GBK

Dim. mm	WLL tonnes*		Total Components length, mm
	β 0-45° α 0-90°	β 45-60° α 90-120°	
6	2.1	1.5	235
8	3.5	2.6	296
10	5.6	4.0	361
13	9.5	6.8	453
16	14.0	10.3	527



TG2-GBK
Consists of: Master link MF, C-grab Duo CGD,
Chain KLA, Safety Hook GBK

Dim. mm	WLL t*		Total Components length, mm
	β 0-45° α 0-90°	β 45-60° α 90-120°	
6	2.1	1.5	291
8	3.5	2.6	366
10	5.6	4.0	444
13	9.5	6.8	534
16	14.0	10.3	671



TG2-EGKN
Consists of: Master link MF, C-grab Duo CGD,
Chain KLA, Latch Hook EGKN

Dim. mm	WLL t*		Total Components length, mm
	β 0-45° α 0-90°	β 45-60° α 90-120°	
6	2.1	1.5	286
8	3.5	2.6	342
10	5.6	4.0	415
13	9.5	6.8	507
16	14.0	10.3	625



MGD2-CL
Consists of: Master link MGD,
Chain KLA, C-lok CL

Dim. mm	WLL t*		WLL choked t*		Total Components length, mm
	β 0-45° α 0-90°	β 45-60° α 90-120°	β 0-45° α 0-90°	β 45-60° α 90-120°	
6	2.1	1.5	1.6	1.2	187
8	3.5	2.6	2.7	2.0	230
10	5.6	4.0	4.4	3.2	285
13	9.5	6.8	7.4	5.4	359
16	14.0	10.3	11.0	8.0	429

*Safety factor 4:1

3-leg Chain Sling



TG3-GBK

Consists of: Master link MF, C-grab CG, C-grab Duo CGD, Chain KLA, Safety Hook GBK

Dim. mm	WLL t*		Total component length mm
	β 0-45° α 0-90°	β 45-60° α 90-120°	
6	3.1	2.2	311
8	5.2	3.7	392
10	8.4	6.0	474
13	14.0	10.0	604
16	21.0	15.0	680



TG3-EGKN

Consists of: Master link MF, C-grab CG, C-grab Duo CGD, Chain KLA, Latch Hook EGKN

Dim. mm	WLL t*		Total Component length mm
	β 0-45° α 0-90°	β 45-60° α 90-120°	
6	3.1	2.2	306
8	5.2	3.7	357
10	8.4	6.0	444
13	14.0	10.0	559
16	21.0	15.0	634

4-leg Chain Sling



TG4-GBK

Consists of: Master link MF, C-grab Duo CGD, Chain KLA, Safety Hook GBK

Dim. mm	WLL t*		Total Component length mm
	β 0-45° α 0-90°	β 45-60° α 90-120°	
6	3.1	2.2	311
8	5.2	3.7	392
10	8.4	6.0	474
13	14.0	10.0	604
16	21.0	15.0	680



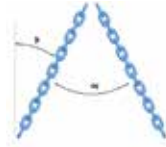
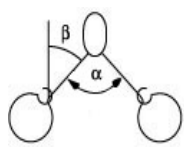
TG4-EGKN

Consists of: Master link MF, C-grab Duo CGD, Chain KLA, Latch Hook EGKN

Dim. mm	WLL t*		Total Component length mm
	β 0-45° α 0-90°	β 45-60° α 90-120°	
6	3.1	2.2	306
8	5.2	3.7	357
10	8.4	6.0	444
13	14.0	10.0	559
16	21.0	15.0	634

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	β 0-45° α 0-90°	β 45-60° α 90-120°	β 0-45° α 0-90°	β 45-60° α 90-120°	Choke β 0-45° α 0-90°	Choke β 45-60° α 90-120°
Load factor	1	1.41	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.

Pre-Assembled Chain Sling

Ready to Use at Arrival

Gunnebo Industries offers the perfect retail solution - pre-assembled chain slings with information tags, supplied with certificate, packed in boxes. Ready to be used the instant they arrive.

Technical Specification



2

Art. no.	Code	WLL tonnes*	Length m	Choked WLL	Weight kgs	
B790110	MG1-GBK-6-10	1.5	2	-	4.1	
B790111	MG1-GBK-8-10	2.6	3	-	6.4	
B790112	MG1-GBK-10-10	4.0	3	-	10.1	
B790120	MG1-EGKN-6-10	1.5	2	-	2.8	
B790121	MG1-EGKN-8-10	2.6	3	-	6	
B790122	MG1-EGKN-10-10	4.0	3	-	9.7	
B790220	MG2-EGKN-6-10	2.1	2	-	7.1	
B790221	MG2-EGKN-8-10	3.5	3	-	11.7	
B790222	MG2-EGKN-10-10	5.6	3	-	17.6	
B790210	MG2-GBK-6-10	2.1	2	-	7.3	
B790211	MG2-GBK-8-10	3.5	3	-	12.3	
B790212	MG2-GBK-10-10	5.6	3	-	18.9	
B790130	MG2-CL-6-10	2.1	6	1.6	12.4	
B790131	MG2-CL-8-10	3.5	6	2.7	21.8	
B790132	MG2-CL-10-10	5.6	6	4.4	34.9	

FlexiLeg

Art. no.	Code	WLL in tonnes*		
		1-leg	2-leg	3- & 4-leg
Z101050	FlexiLeg GBK 6 mm L= 2 m	1.5	2.1	3.15
Z101051	FlexiLeg EGKN 6 mm L= 2 m	1.5	2.1	3.15
Z101052	FlexiLeg GBK 8 mm L= 2 m	2.6	3.5	5.2
Z101053	FlexiLeg EGKN 8 mm L= 2 m	2.6	3.5	5.2
Z101054	FlexiLeg GBK 10 mm L= 2 m	4.0	5.6	8.4
Z101055	FlexiLeg EGKN 10 mm L= 2 m	4.0	5.6	8.4
Z101056	FlexiLeg GBK 13 mm L= 2 m	6.8	9.5	14
Z101057	FlexiLeg EGKN 13 mm L= 2 m	6.8	9.5	14
Z101058	FlexiLeg GBK 16 mm L= 2 m	10.3	14	21
Z101059	FlexiLeg EGKN 16 mm L= 2 m	10.3	14	21

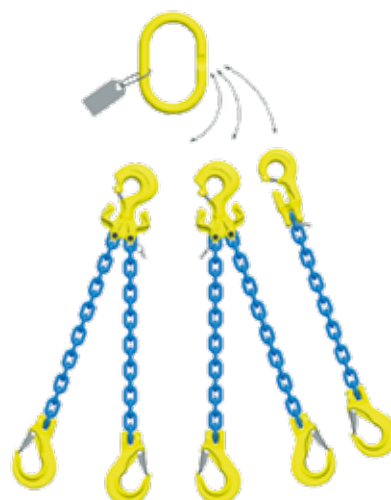
* For different lifting angles - see WLL table page 2:8.

6 mm FlexiLeg

Pre-Assembled



Art. no.	Code	Weight kgs
Z101016	FlexiLeg FMG 221 GBK 6 mm L= 2 m	13.8
Z101017	FlexiLeg FMG 221 EGKN 6 mm L= 2 m	13.3



Midgrab Chain Shortener, MIG

Product Features

- Instant mounting and positioning on any part of the chain.
- Shortening in either chain direction; up-down.
- Designed to prevent inadvertent chain disengagement.
- Can be set idle on the chain leg when shortening is not required.
- LC version offers secure mounting with locking set on any desired part of the chain with one chain direction open for shortening.
- CC version offers close-open function in both chain directions for safe retention of the chain.



Locking Devices for Midgrab MIG

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

L - fixed locking set

For fixed mounting

Code:

L-8: B14905

L-10: B14915

L-13: B14917



C - close/open locking set

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

Code:

C-8: B14904

C-10: B14914

C-13: B14916



Product Code Guide - Locking options



MIG C



MIG CC



MIG L



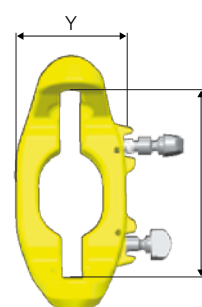
MIG LC

MIG with C pins

Art. no.	Code	WLL tonnes*	L	X	Y	Weight kgs
B14303	MIG CC-8-10	2.6	95	50	60	0.7
B14313	MIG CC-10-10	4.0	125	70	77	1.1
B14323	MIG CC-13-10	6.8	150	90	80	2.6

MIG without pins

Art. no.	Code	WLL tonnes*	L	X	Y	Weight kgs
B14300	MIG-8-10	2.6	95	50	60	0.6
B14310	MIG-10-10	4.0	125	70	77	1.0
B14320	MIG-13-10	6.8	150	90	80	2.5



Identification of our Master Links

To provide good readability and traceability our master links have the following marking:

Product type

- **M** - represents single type master link.
- **MT** - represents master link assembly.
- **OS** - is an abbreviation for offshore. All Arctic offshore master links are marked with OS and complies with DNV 2.7-1.

Size designation

- The size is linked to the WLL as well as to compatible products, like attachment links and other components.
- Trade size
- The size expressed in inch.

Approved by BG/DGUV

- **H32** – represents Gunnebo Industries' manufacturing ID. The ID also represents a 3rd part audit by BG in Germany.

Traceability code

- The traceability code is unique for the production batch and normally consists of a letter and a number; for example K2. The traceability code makes it possible to trace and track the product through the whole production process back to the raw material used for the actual product.

Gunnebo Sweden

- To clearly highlight the Gunnebo Industries brand, our master links are marked with *Gunnebo Sweden*.

Meets the standards

- The markings fulfills the requirements of EN 1677-4, ASTM A952, AS 3775.2 and DNV 2.7-1.

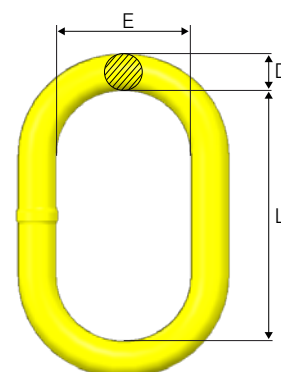


Master Link M

Art. no.	Code	WLL tonnes (SF 5:1)		L	E	D	Weight kgs
		EN 1677-4	A-952/A952M AS 3775.2-2014				
Z101271	M-6-10	1.5	1.5	100	60	11	0.2
Z101272	M-86-10	2.5	3.2	125	70	14	0.4
Z101273	M-108-10	4.0	5.2	140	80	17	0.8
Z101274	M-13-10	6.8	6.8	150	90	19	1.0
Z101267	M-1310-10	7.5	8.0	160	95	22	1.5
Z101268	M-1613-10	10.0	13.6	190	110	28	2.8
Z101247	M-19-10	12.0	16.0	200	120	30	3.5
Z101269	M-2016-10	17.0	20.6	240	140	34	5.2
Z101270	M-2220-10	25.0	30.9	250	150	40	7.3
Z101275	M-2622-10	28.0	32.0	250	150	42	8.7
Z101284	M-32-10	33.0	38.6	300	180	45	11.7
Z101276	M-3226-10	43.0	46.6	300	200	50	14.8
Z101277	M-3632-10	56.0	65.0	350	200	55	20.7
Z101278	M-4536-10	70.0	72.7	375	210	60	26.4
Z101279	M-90T-10	90.0	100.0	450	250	70	42.8
Z101280	M-125T-10**	125.0	125.0	450	260	80	57.0

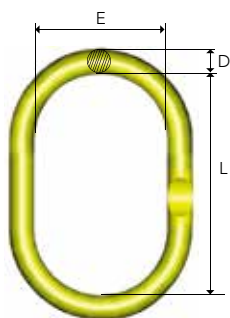
** Dimension L and E not acc. to EN 1677-4.

Fulfills requirements in: EN 1677:2008 (WLL +25%), ASTM A952/A952M, AS 3775:2014 and AS 3776:2015.



Master Link MF

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

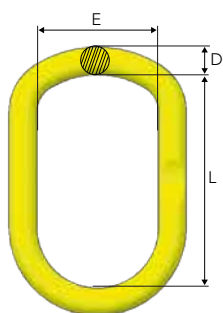


Art. no.	Code	WLL tonnes (SF 5:1)		For chain size, mm			L	E	D	Weight kgs
		EN 1677-4	A-952/A952M AS 3775.2-2014	1-leg	2-leg	3-4-leg				
B14487	MF-6-10	1.5	1.5	6			100	60	11	0.2
B14481	MF-86-10	2.5	3.2	6, 8	6	-	125	70	14	0.4
B14482	MF-108-10	4.0	5.2	10	8	6	140	80	17	0.8
B14483	MF-1310-10	7.5	8.0	13	10	8	160	95	22	1.5
B14484	MF-1613-10	10.0	13.6	16	13	10	190	110	28	2.8
B14485	MF-2016-10	17.0	20.6	20	16	13	240	140	34	5.2
B14486	MF-2220-10	25.0	30.9	22	20	16	250	150	40	7.3

Fulfills requirements in: EN 1677:2008 (WLL +25%), ASTM A952/A952M, AS 3775:2014 and AS 3776:2015.

Master Link MFH

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

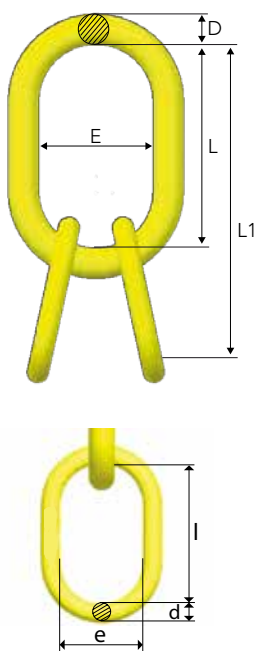


Art. no.	Code	WLL tonnes (SF 5:1)		For chain size, mm			L	E	D	DIN 15401	DIN 15402	Weight kgs
		EN 1677-4	A-952/A952M AS 3775.2-2014	1-leg	2-leg	3-4 leg						
Z101262	MFH-1310-10	7.5	8.0	13	10	8	230	125	22	≤ 12	≤ 16	2.1
Z101263	MFH-1613-10	10.0	13.6	16	13	10	250	135	28	≤ 12	≤ 16	3.7
Z101264	MFH-2016-10	17.0	20.6	20	16	13	280	135	32	≤ 16	≤ 20	5.3
Z101265	MFH-2220-10	28.0	30.9	26	20	16	320	175	40	≤ 25	≤ 32	9.7
Z101266	MFHW-2220-10	25.0	25.0	22	20	16	355	225	40	≤ 50	≤ 63	11.1

Fulfills requirements in: EN 1677:2008 (WLL +25%), ASTM A952/A952M, AS 3775:2014 and AS 3776:2015.

Master Link with Sublinks, MT

Designed for use with chain or wire rope. For 3- and 4-leg slings



Art. no.	Code	WLL tonnes (SF 5:1)		L1	L	E	D	l	e	d	Weight kgs
		EN 1677-4	A-952/A952M AS 3775.2-2014								
Z100902	MT-6-10	3.5	5.0	270	150	90	19	120	70	14	1.8
Z100903	MT-8-10	5.2	8.0	300	160	95	22	140	80	17	3.0
Z101359	MT-9-10	6.9	9.7	340	190	110	28	150	90	19	4.9
Z100904	MT-10-10	11.5	16.0	360	200	120	30	160	95	22	6.4
Z100905	MT-13-10	17.0	26.0	440	250	150	40	190	110	28	14.2
Z100906	MT-16-10	28.0	35.0	500	300	200	50	200	120	32	23
Z101074	MT-20-10	35.0	50.0	550	300	200	55	250	150	40	31.5
Z101281	MT-22-10	53.0	75.0	610	350	200	60	260	140	45	46
Z101282	MT-26-10	70.0	100.0	730	450	250	70	280	160	50	71
Z101283	MT-32-10	90.0	125.0	730	450	260	80	280	160	55	91

Fulfills requirements in: EN 1677:2008 (WLL +25%), ASTM A952/A952M, AS 3775:2014 and AS 3776:2015.

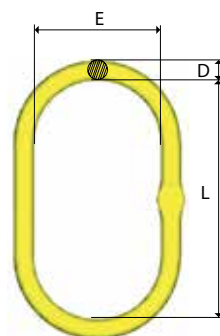
Flattened section on the sublinks for sizes up to MT-16-10.

Master Link, MFX

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

Art. no.	Code	WLL tonnes (SF 5:1)		For chain 1-leg	For chain 2-leg	L	E	D	Weight kgs
		EN 1677-4	A-952/A952M AS 3775.2-2014						
Z100550	MFX-108-10	4.25	5.2	8, 10	8	340	180	25	3.7
Z100551	MFX-1310-10	7.5	8.0	13	10	340	180	28	4.7
Z100552	MFX-1613-10	11.2	13.6	16	13	340	180	34	7.1
Z101125	MFX-2016-10	16.0	20.6	20	16	340	180	40	9.6

Fulfills requirements in: EN 1677:2008 (WLL +25%), ASTM A952/A952M, AS 3775:2014 and AS 3776:2015.



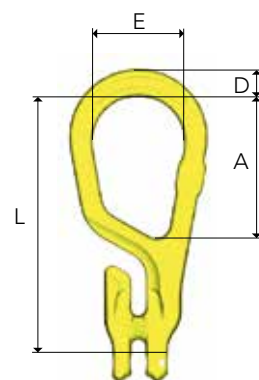
2

Master Grab MG

"All-in-one" compact top link.

Art. no.	Code	WLL tonnes*	L	A	E	D	Weight kgs
B14710	MG-6-10	1.5	145	88	60	15	0.5
B14711	MG-8-10	2.6	171	92	60	18	0.9
B14712	MG-10-10	4.0	211	113	75	22	1.8
B14713	MG-13-10	6.8	261	138	90	26	3.5
B14714	MG-16-10	10.3	311	157	105	31	6.1

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

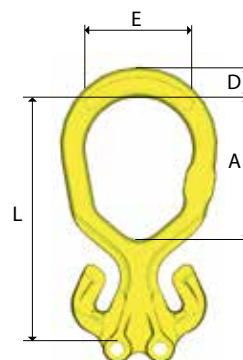


Master Grab Duo MGD

"All-in-one" compact top link for 2-leg slings.

Art. no.	Code	WLL tonnes*	L	A	E	D	Weight kgs
B14700	MGD-6-10	2.1	144	90	60	17	0.7
B14701	MGD-8-10	3.5	171	100	75	21	1.3
B14702	MGD-10-10	5.6	211	124	90	24	2.3
B14703	MGD-13-10	9.5	262	149	105	31	5.2
B14704	MGD-16-10	14.0	310	175	120	35	7.9

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

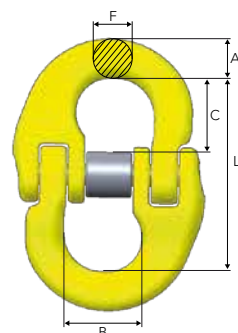


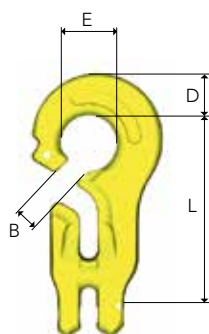
Coupling Link G

For use with master link and eye hook.

Art. no.	Code	WLL tonnes*	L	B	F	A	C	Weight kgs
Z100821	G-6-10	1.5	45	15	7	8	16	0.1
Z101358	G-7-10	2.0	56	18	9	11	22	0.2
Z100822	G-8-10	2.6	56	18	9	11	22	0.2
Z100823	G-10-10	4.0	68	25	12	13	26	0.3
Z100824	G-13-10	6.8	89	29	15	17	33	0.7
Z100825	G-16-10	10.3	106	36	19	20	40	1.4
Z101119	G-20-10	16.0	125	43	23	26	44	2.2
Z101339	G-22-10	20.0	152	50	26	28	59	3.6
Z101365	G-26-10	27.3	161	58	32	34	61	5.7
Z101666	G-32-10	40.0	200	70	38	40	77	9.5

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



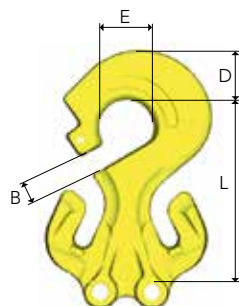


C-Grab CG

For use with master link, eye hooks and choke.

Art. no.	Code	WLL tonnes*	L	B	E	D	Weight kgs
B14730	CG-6-10	1.5	80	11	24	19	0.3
B14731	CG-8-10	2.6	107	12	32	24	0.7
B14732	CG-10-10	4.0	134	15	40	29	1.5
B14733	CG-13-10	6.8	172	18	52	38	3.2
B14734	CG-16-10	10.3	215	22	64	47	6.1

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

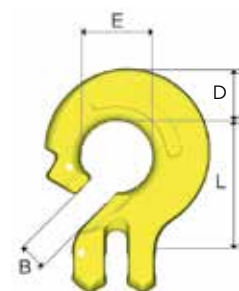


C-Grab CGD

For use with master links.

Art. no.	Code	WLL tonnes*	L	B	E	D	Weight kgs
B14720	CGD-6-10	2.1	79	11	24	20	0.6
B14721	CGD-8-10	3.5	107	12	32	29	1.1
B14722	CGD-10-10	5.6	134	15	40	37	2.2
B14723	CGD-13-10	9.5	173	19	48	48	5.4
B14724	CGD-16-10	14.0	215	22	64	57	9.1

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

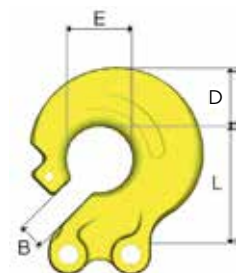


C-Lok CL

For use with master links, eye hooks and choke.

Art. no.	Code	WLL tonnes*	L	B	E	D	Weight kgs
B14750	CL-6-10	1.5	43	11	24	18	0.2
B14751	CL-8-10	2.6	58	12	32	24	0.5
B14752	CL-10-10	4.0	74	15	40	29	1.0
B14753	CL-13-10	6.8	94	18	52	38	2.0
B14754	CL-16-10	10.3	119	22	64	48	3.8

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



C-Lok CLD

For use with master links.

Art. no.	Code	WLL tonnes*	L	B	E	D	Weight kgs
B14740	CLD-6-10	2.1	43	11	24	22	0.4
B14741	CLD-8-10	3.5	58	12	32	29	0.6
B14742	CLD-10-10	5.6	74	15	40	37	1.2
B14743	CLD-13-10	9.5	94	18	52	46	3.1
B14744	CLD-16-10	14.0	119	25	64	57	5.5

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

Chain, GrabiQ Grade 10 (200)

Short link, KL

Heat treatment

Quenched and tempered.

Note! For chain grade 10 (200) the maximum in service temperature is 200°C.

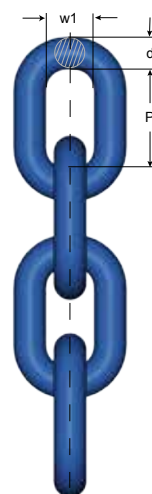
Surface treatment

Painted blue

Fulfills the requirements in:

ASTM A973/A973M-07(2012)
EN 818-2:2008 (WLL +25%,
reduced temperature range)

Art. no. Box	Code	WLL tonnes	d nom. mm	P» mm	w1» mm	Weight kgs/m	MPF kN	Breaking force kN
Z802300 - 1 x 200 m	KLA 6-10 (200)	1.5	6	18	8.5	0.8	36.8	58.9
Z802337 - 1 x 200 m	KLA 7-10 (200)	1.95	7	21	10.0	1.1	48	77
Z802301 - 1 x 200 m	KLA 8-10 (200)	2.6	8	24	11.0	1.4	63	102
Z802302 - 1 x 100 m	KLA 10-10 (200)	4.0	10	30	14.0	2.3	98	158
Z802303 - 1 x 100 m	KLA 13-10 (200)	6.8	13	39	17.7	3.8	166	268
Z802304 - 1 x 100 m	KLA 16-10 (200)	10.3	16	48	21.9	5.6	251	402
Z802305 - 1 x 50 m	KLA 20-10 (200)	16.0	20	60	27.0	9.4	393	630
Z802246 - 1 x 50 m	KLA 22-10 (200)	20.0	22	66	29.0	11.9	491	785
Z802248 - 1 x 50 m	KLA 26-10 (200)	27.0	26	78	35.0	16.4	664	1062
Z802440 - 1 x 25 m	KLA 32-10 (200)	40.0	32	96	41.6	25.8	981	1610



2

Chain, GrabiQ Grade 10 (400)

Short link, KL

Heat treatment

Quenched and tempered.

Note! For chain grade 10 (400) the maximum in service temperature is 400°C.

Surface treatment

Painted blue

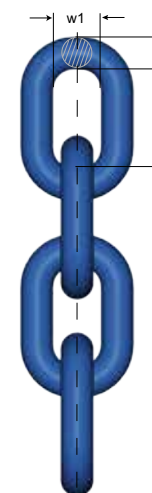
Fulfills the requirements in:

EN 818-2:2008 (WLL+25%,
material dimension Ø +10%)

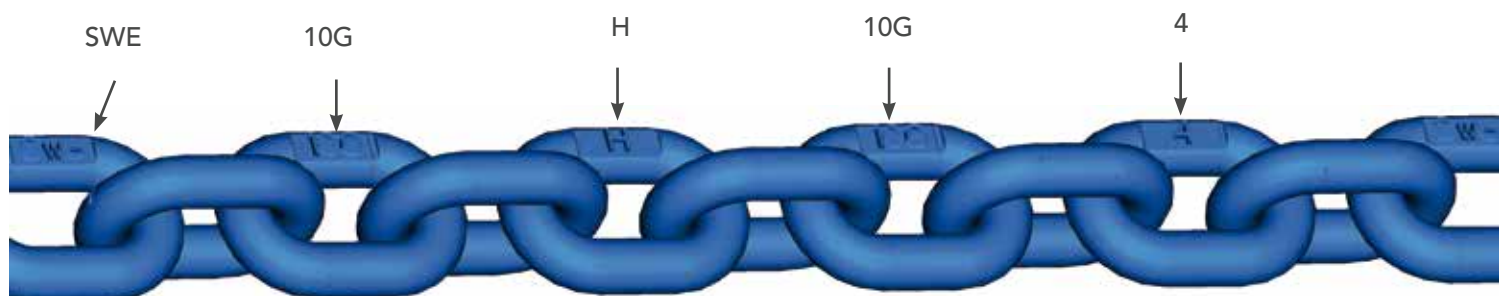
Note: This chain is marked with "8+" in addition to the marking required by the machine directive

Art. no. Box	Code	WLL tonnes	d nom. mm	P» mm	w1 » mm	Weight kgs/m	MPF kN	Breaking force kN
Z802306 - 1 x 200 m	KLA 6-10 (400)	1.5	6.6	18	8.9	1.0	36.8	58.9
Z802307 - 1 x 200 m	KLA 8-10 (400)	2.5	8.8	24	11.2	1.7	63	102
Z802308 - 1 x 100 m	KLA 10-10 (400)	4.0	11.0	30	14.4	2.6	98	158
Z802309 - 1 x 100 m	KLA 13-10 (400)	6.7	14.3	39	19.2	4.5	166	268
Z802310 - 1 x 100 m	KLA 16-10 (400)	10.0	17.3	48	23.0	6.7	251	402

For larger sizes, see GrabiQ Grade 10 (200) or Classic Grade 8.

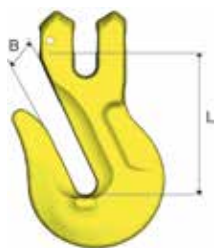


Marking and Traceability of Gunnebo Industries Chain



Grab Hook GG

Clevis shortening hook. No reduction of working load limit, thanks to supporting cradle lugs on either side of hook to prevent chain link deformation.

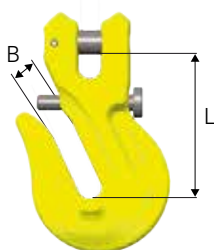


Art. no.	Code	WLL tonnes*	L	B	Weight kgs
Z101844	GG-6-10	1.5	54	8	0.2
Z100845	GG-7-10	2.0	57	10	0.3
B14771	GG-8-10	2.6	57	10	0.4
B14772	GG-10-10	4.0	76	12	0.9
B14773	GG-13-10	6.8	97	16	1.8
B14774	GG-16-10	10.3	114	20	3.1
Z101152	GG-20-10	16.0	147	26	7.0

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

Grab Hook GG with Locking Pin

Clevis shortening hook with locking pin for extra safety. No reduction of working load limit, thanks to supporting cradle lugs on either side of hook to prevent chain link deformation.

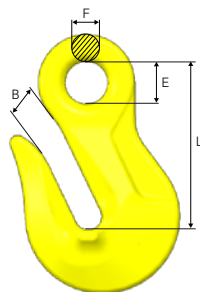


Art. no.	Code	WLL tonnes*	L	B	Weight kgs
B14971	GG-8-10 LP	2.6	57	10	0.4
B14972	GG-10-10 LP	4.0	77	12	0.9
B14973	GG-13-10 LP	6.8	97	16	1.9
B14974	GG-16-10 LP	10.3	114	20	3.2

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

Grab Hook OG

Eye shortening hook. No reduction of working load limit, thanks to supporting lugs on either side of hook to prevent chain link deformation.

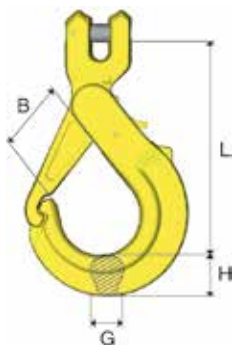


Art. no.	Code	WLL tonnes*	L	B	E	F	Weight kgs
Z101296	OG-7/8-10	2.6	65	10	17	10	0.3
Z101297	OG-10-10	4.0	85	12	20	12	0.7
Z101298	OG-13-10	6.8	104	16	26	16	1.6
Z101299	OG-16-10	10.3	131	20	32	19	2.8
Z101300	OG-20-10	16.0	167	26	41	23	6.1
Z101301	OG-22-10	20.0	187	26	46	32	8.6
Z101302	OG-26-10	27.3	228	32	55	38	14
Z101303	OG-32-10	40.0	229	40	50	27	20.7

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

Safety Hook GBK

Safety hook with clevis connector and grab latch.



Art. no.	Code	WLL tonnes*	L	B	G	H	Weight kgs
Z100758	GBK-6-10	1.5	87	26	15	17	0.4
Z100849	GBK-7-10	2.0	114	36	20	22	0.5
Z100759	GBK-8-10	2.6	119	36	20	22	0.8
Z100760	GBK-10-10	4.0	150	47	22	29	1.4
Z100761	GBK-13-10	6.8	172	53	29	38	2.7
Z100762	GBK-16-10	10.3	208	68	30	45	4.4

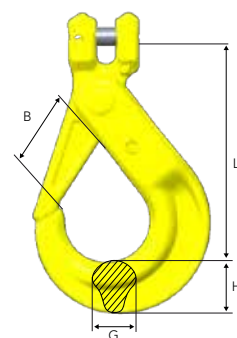
Fulfills requirements in: EN 1677:2008 (WLL +25%), ASTM A952/A952M and AS 3776:2015.

Safety Hook BKG

Safety hook with clevis connector and standard latch.

Art. no.	Code	WLL tonnes*	L	B	G	H	Weight kgs
Z101110	BKG-6-10	1.5	91	29	15	21	0.5
Z101098	BKG-7-10	2.0	120	37	17	22	0.5
Z101100	BKG-8-10	2.6	121	37	17	26	0.9
Z101026	BKG-10-10	4.0	144	45	21	31	1.5
Z101034	BKG-13-10	6.8	180	55	30	40	3.0
Z101042	BKG-16-10	10.3	219	62	37	50	5.5
Z101091	BKG-20-10	16.0	240	68	46	64	9.6

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



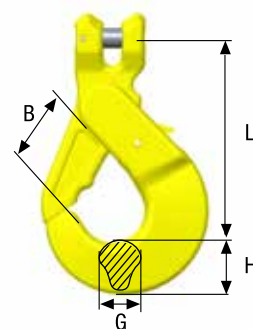
2

Safety Hook BKGC

Safety hook with clevis connector for skip loaders.

Art. no.	Code	WLL tonnes*	L	B	G	H	Weight kgs
Z1002401	BKGC-13-10	6.8	164	55	27	43	3.2

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

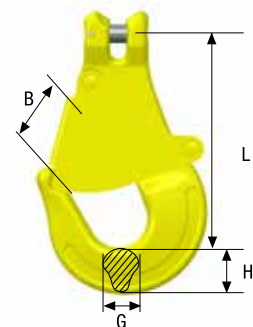


Sling Hook GKC

Sling hook with clevis connector for skip loaders.

Art. no.	Code	WLL tonnes*	L	B	G	H	Weight kgs
Z7006461	GKC-13-10	6.8	188	60	27	43	2.5

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

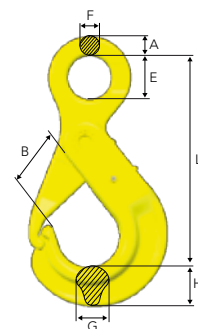


Safety Hook OBK

Safety hook with eye connector and grip latch.

Art. no.	Code	WLL tonnes*	A	L	B	E	F	G	H	Weight kgs
Z101048	OBK-6-10	1.5	12	103	26	22	9	15	17	0.4
Z101143	OBK-7/8-10	2.6	14	139	37	28	10	20	22	0.8
Z101145	OBK-10-10	4.0	16	170	47	34	13	22	29	1.3
Z101147	OBK-13-10	6.8	21	206	53	44	15	29	38	2.6
Z101141	OBK-16-10	10.3	26	251	68	56	19	29	45	4.4
Z101240	OBK-18/20-10	16.0	28	293	74	60	22	44	56	7.3

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



BK Safety Hook

The Original

Gunnebo Industries continuously works with product development and innovation to create the optimal solutions for each lifting situation. Since the early 1950's we have developed products that have become today's standards on the market. There is however only one original - Gunnebo Industries. With the original you get the perfect fit and smart details.

Back in 1965 Gunnebo Industries developed the BK hook. The mission was to increase the workplace safety of the construction industry. Today this popular and well known hook is the foundation of the innovative and much appreciated BK product family.



Clear markings

- Country of origin.
- Traceability codes.
- Model, size and grade.

Increased flexibility

- The eye design enables connection to not only G-links, but also C-links and Berglok.
- The design makes the BK hook suitable for steel wire ropes.

Flat section

- For attachment to other GrabiQ or wire components.

Heavy duty rivet

- Recessed rivet for a slim design.
- Decreases the risk of snagging.
- Ideal in narrow spaces.

Latch rotation stop

- Protects the trigger mechanism from damage.

Quality is top priority

- Fatigue tested.
- Forged alloy steel.
- Quenched and tempered.
- 100 % proof load of each BK hook.
- Full traceability back to the raw material.

Precision manufacturing

- Perfect fit between the parts.
- Increases safety during operation.

Fluorescent colour

- For high visibility in the field.



Replaceable trigger set

- Quick and easy assembly.
- Available as a complete spare part kit.

Recessed trigger

- To avoid the trigger from snagging or being damaged, it has been recessed into the body of the hook.
- Helps to prevent the latch from accidentally opening.

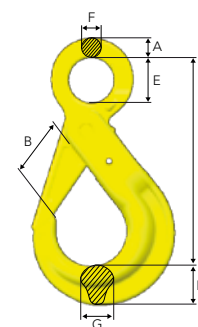
Safety Hook BK

The "original" safety hook with eye connector.

Art. no.	Code	WLL tonnes*	A	L	B	E	F	G	H	Weight kgs
Z101108	BK-6-10	1.5	12	109	29	22	10	15	21	0.5
Z101097	BK-7/8-10	2.6	14	138	37	28	11	17	26	0.9
Z101024	BK-10-10	4.0	16	168	45	34	13	21	31	1.5
Z101032	BK-13-10	6.8	20	207	55	44	16	30	40	3.0
Z101040	BK-16-10	10.3	26	254	62	56	20	37	50	5.5
Z101089	BK-18/20-10	16.0	30	289	68	60	22	44	64	9.0
Z101325	BK-22-10	20.0	32	320	80	70	24	50	64	11.3
Z101326	BK-26-10	27.3	35	342	100	80	25	54	68	16.5

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

For larger sizes, see Classic Grade 8.

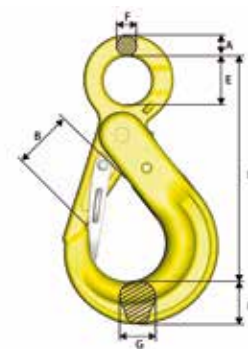


Safety Hook BKD

The double latch BK-hook with recessed trigger. Should the hook latch accidentally open, either through direct impact or excessive wear on the trigger, the extra latch is there to retain the load safely. The latch does not cause inconvenience for the operator and may save their lives if something goes wrong.

Art. no.	Code	WLL tonnes*	A	L	B	E	F	G	H	Weight kgs
Z101154	BKD-13-10	6.8	20	207	44	44	16	30	40	3.2
Z101155	BKD-16-10	10.3	26	254	48	56	20	37	50	5.8
Z101156	BKD-18/20-10	16.0	30	289	52	60	22	46	62	9.1
Z101373	BKD-26-10 OS	27.3	35	342	72	80	25	54	68	16.8

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



Shank Safety Hook BKT

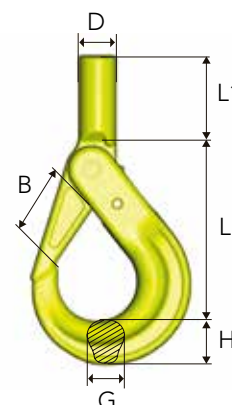
Safety hook with shank ready for customized machines.

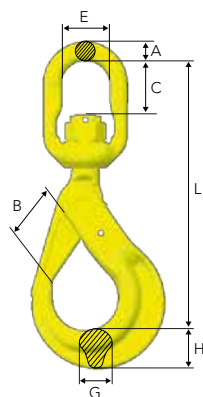
Art. no.	Code	WLL tonnes*	L	B	L1	D	dmin	G	H	Weight kgs
Z1011120	BKT-6-10	1.5	90	29	36	20	11	15	21	0.5
Z1011020	BKT-7/8-10	2.6	111	37	47	24	13	17	26	0.9
Z1010690	BKT-10-10	4.0	133	45	51	29	16	21	31	1.6
Z1010710	BKT-13-10	6.8	160	55	77	34	20	30	39	3.0

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

d min = the smallest permitted shank dimension after machining.

Note! After machining of the shank, proof loading must be carried out.



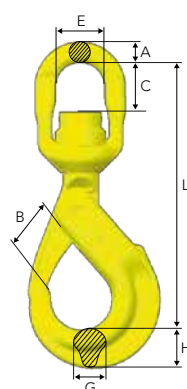


Swivel Safety Hook BKL

Safety hook with swivel for improved positioning (360° rotation).

Art. no.	Code	WLL tonnes*	L	B	C	E	A	G	H	Weight kgs
Z101114	BKL-6-10	1.5	149	29	23	33	11	15	21	0.7
Z101104	BKL-7/8-10	2.6	183	37	27	38	12	17	26	1.2
Z101028	BKL-10-10	4.0	218	45	37	44	15	21	31	2.0
Z101036	BKL-13-10	6.8	282	55	49	48	19	30	40	4.0
Z101044	BKL-16-10	10.3	341	62	65	61	25	37	50	7.2
Z101093	BKL-18/20-10	16.0	368	68	70	72	31	44	62	11.4

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



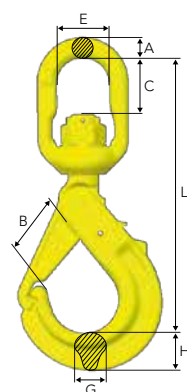
Swivel Safety Hook BKLK

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

Art. no.	Code	WLL tonnes*	L	B	C	E	A	G	H	Weight kgs
Z101116	BKLK-6-10	1.5	149	29	24	33	11	15	21	0.7
Z101106	BKLK-7/8-10	2.6	183	37	27	38	12	17	26	1.2
Z101030	BKLK-10-10	4.0	218	45	35	44	15	21	31	2.0
Z101038	BKLK-13-10	6.8	280	55	45	48	19	30	40	4.0
Z101046	BKLK-16-10	10.3	339	62	62	61	25	37	50	7.3
Z101095	BKLK-18/20-10	16.0	368	68	60	72	31	44	62	11.5
Z101294	BKLK-22-10 OS	20.0	436	79	80	80	35	50	62	16.8
Z101295	BKLK-26-10 OS	27.3	486	100	110	102	45	54	68	26.0

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

For larger sizes, see Classic Grade 8.

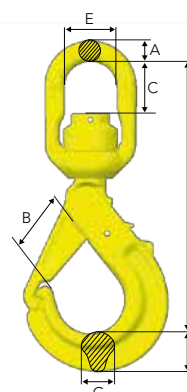


Swivel Safety Hook with Griplatch LBK

Safety hook with griplatch and swivel for improved positioning (360° rotation).

Art. no.	Code	WLL tonnes*	L	B	C	E	A	G	H	Weight kgs
Z100978	LBK-7/8-10	2.6	177	37	27	38	12	20	22	1.1
Z100960	LBK-10-10	4.0	214	47	37	44	15	22	29	1.8
Z100993	LBK-13-10	6.8	262	53	45	48	19	29	38	3.5
Z100995	LBK-16-10	10.3	324	68	66	61	25	30	45	5.9

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



Swivel Safety Hook with Griplatch LKBK

Safety hook with griplatch and ball-bearing for 360° rotation under full WLL.

Art. no.	Code	WLL tonnes*	L	B	C	E	A	G	H	Weight kgs
Z100980	LKBK-7/8-10	2.6	176	37	27	38	12	20	22	1.1
Z100962	LKBK-10-10	4.0	213	47	35	44	15	22	29	1.9
Z100997	LKBK-13-10	6.8	261	53	43	48	19	29	38	3.6
Z100999	LKBK-16-10	10.3	323	68	61	61	25	30	45	6.2

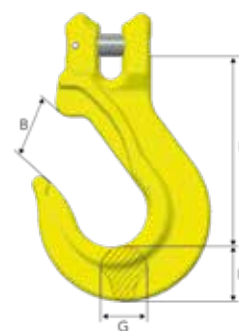
Fulfills requirements in: EN 1677:2008 (WLL +25%), ASTM A952/A952M and AS 3776:2015.

Sling Hook EGK

Sling hook with clevis connector.

Art. no.	Code	WLL tonnes*	L	B	G	H	Weight kgs
Z100915	EGK-6-10	1.5	86	29	17	20	0.4
Z100918	EGK-7-10	2.0	95	32	17	22	0.5
Z100938	EGK-8-10	2.6	95	32	17	23	0.5
Z100942	EGK-10-10	4.0	121	41	23	31	1.0
Z100946	EGK-13-10	6.8	145	49	28	38	2.0
Z100950	EGK-16-10	10.3	170	61	36	46	3.8
Z101138	EGK-20-10	16.0	209	71	42	60	7.3

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



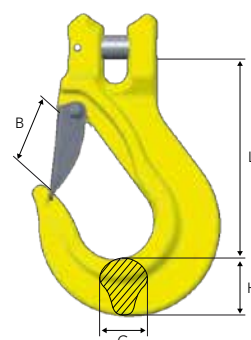
2

Sling Hook EGKN

Sling hook with latch.

Art. no.	Code	WLL tonnes*	L	B	G	H	Weight kgs
B14460	EGKN-6-10	1.5	86	25	17	20	0.4
Z100843	EGKN-7-10	2.0	95	27	17	23	0.5
B14461	EGKN-8-10	2.6	95	28	17	23	0.5
B14462	EGKN-10-10	4.0	121	35	23	31	1.1
B14463	EGKN-13-10	6.8	145	42	28	38	2.2
B14464	EGKN-16-10	10.3	170	53	36	46	4.0
Z101127	EGKN-20-10	16.0	209	65	42	60	7.6

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

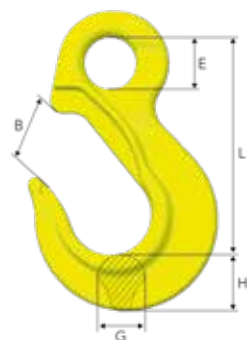


Sling Hook EK

Sling hook with eye connector.

Art. no.	Code	WLL tonnes*	L	B	E	F	G	H	Weight kgs
Z101162	EK- 6-10	1.5	93	29	23	10	17	20	0.4
Z101164	EK- 7/8-10	2.6	108	32	28	12	17	23	0.5
Z101166	EK-10-10	4.0	134	41	34	14	23	30	0.9
Z101168	EK-13-10	6.8	166	49	44	18	28	38	2.0
Z101170	EK-16-10	10.3	203	61	56	22	36	47	3.3
Z101306	EK-20-10	16.0	229	71	61	26	42	60	6.2
Z101307	EK-22-10	20.0	267	82	64	31	43	67	8.5
Z101308	EK-26-10	27.3	301	95	66	32	51	75	12.1
Z101309	EK-32-10	40.0	353	105	90	38	61	98	24.6

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

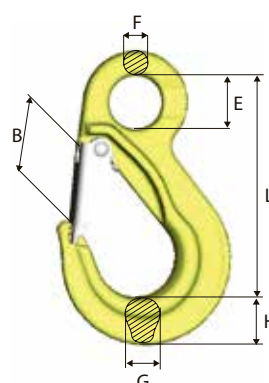


Sling Hook EKN

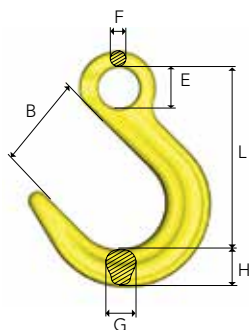
Sling hook with latch.

Art. no.	Code	WLL tonnes*	L	B	E	F	G	H	Weight kgs
Z101128	EKN- 6-10	1.5	93	25	23	10	17	20	0.4
Z101130	EKN- 7/8-10	2.6	108	26	28	12	17	23	0.6
Z101132	EKN-10-10	4.0	134	35	34	14	23	30	1.0
Z101134	EKN-13-10	6.8	166	42	44	18	28	38	2.1
Z101136	EKN-16-10	10.3	203	53	56	22	36	47	4.0
Z101327	EKN-20-10	16.0	229	65	61	26	42	60	6.4
Z101328	EKN-22-10	20.0	267	73	64	31	43	67	8.9
Z101329	EKN-26-10	27.3	301	82	66	32	51	75	13.0
Z101330	EKN-32-10	40.0	353	96	90	38	61	98	25.0

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



Foundry Hook OKE



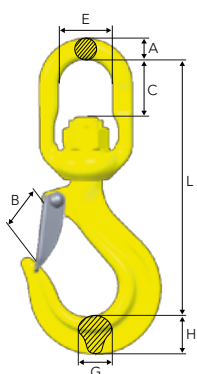
Art. no.	Code	WLL tonnes*	L	B	E	F	G	H	Weight kgs
Z100853	OKE-7/8-10	2.6	124	63	28	12	21	26	0.8
Z100854	OKE-10-10	4.0	151	76	34	15	26	30	1.4
Z100855	OKE-13-10	6.8	184	90	44	19	33	39	2.8
Z100898	OKE-16-10	10.3	218	102	56	23	40	46	4.9
Z101340	OKE-20-10	16.0	247	114	60	27	46	60	7.2
Z101341	OKE-22-10	20.0	275	120	64	31	60	70	11.3
Z101342	OKE-26-10	27.3	300	113	70	35	64	77	16.0

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

For larger sizes, see Classic Grade 8.

Swivel Latch Hook LKN

Sling hook with swivel for improved positioning (360° rotation).

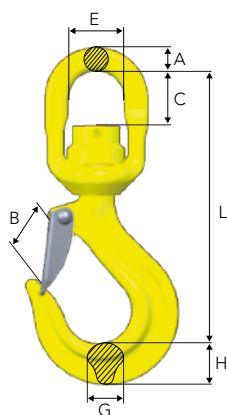


Art. no.	Code	WLL tonnes*	For chain dim. mm	L	B	C	E	A	G	H	Weight appr. kgs
Z101345	LKN-7/8-10	2.6	7, 8	155	28	28	38	12	18	24	0.8
Z101346	LKN-10-10	4.0	10	192	35	37	44	15	23	31	1.5
Z101347	LKN-13-10	6.8	13	238	40	47	48	19	28	38	3.1
Z101348	LKN-16-10	10.3	16	295	53	65	61	25	34	43	5.3

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

Swivel Latch Hook LKNK

Swivel latch hook with ball bearing for 360° rotation under full WLL.

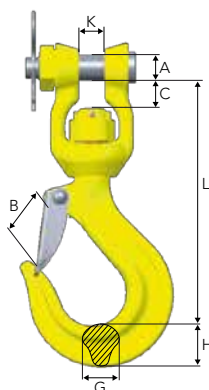


Art. no.	Code	WLL tonnes*	For chain dim.	L	B	C	E	A	G	H	Weight appr. kgs
Z101349	LKNK-7/8-10	2.6	7, 8	154	28	28	38	12	18	24	0.9
Z101350	LKNK-10-10	4.0	10	191	35	35	44	15	23	31	1.6
Z101351	LKNK-13-10	6.8	13	236	40	45	48	19	28	38	3.3
Z101352	LKNK-16-10	10.3	16	293	53	62	61	25	34	43	5.6
Z101354	LKNK-22-10	20.0	22	400	74	80	80	35	43	67	14.3

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

Clevis Swivel Hook LKNG

For fitting in cranes etc. Swivel for improved positioning. (360°)



Art. no.	Code	WLL tonnes*	For chain dim.	L	B	C	A	G	H	K	Weight appr. kgs
Z101353	LKNG-16-10	10.3	16	258	53	30	28	34	43	27	5.7

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

Roundsling Hook RH

The RH-hook is the perfect load connection solution, combining the advantages of both soft lifting slings and grade 100 components. It can be inserted into a softsling and is quicker and safer to use than the commonly used shackle. The RH-hook is a connector as well as a hook, which gives the user increased flexibility, safer use and increased durability of the soft slings.

The RH-hook comes with a blocking pin, but thanks to the narrow opening it may be used without blocking pin.



2

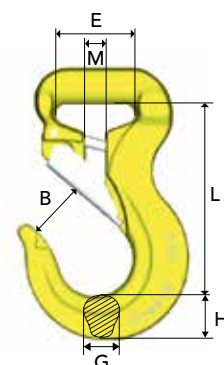
Tested according to EN 1677-2



Art. no.	Code	WLL tonnes*	B	E	G	L	H	M	Weight kgs
B14490	RH-1-10	1	24	35	16.6	84	19	8	0.5
B14491	RH-2-10	2	28	40	17	96	22	10	0.7
B14492	RH-3-10	3	33	47	24	117	30	12	1.3
B14493	RH-5-10	5	43	73	27	155	36	16.5	3.2



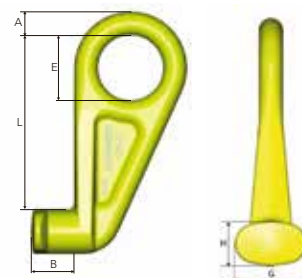
The roundsling hooks are colour coded in order to match the corresponding size of the roundsling: Red=5T / Yellow=3T / Green=2T / Violet=1T



Container Hook CH

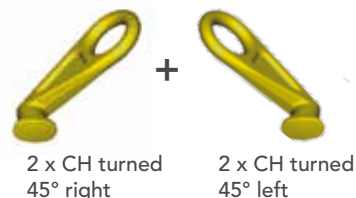
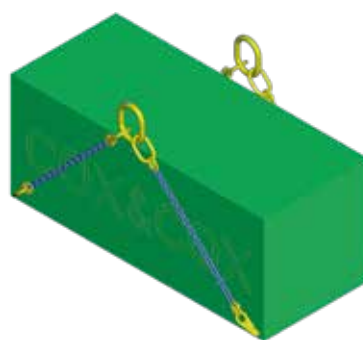
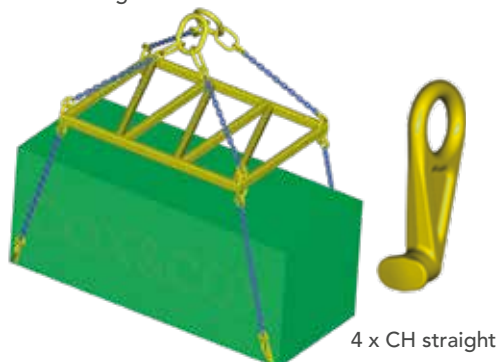
Made for lifting containers in their lower fittings.

Art. no.	Code	WLL tonnes*	A	L	E	B	H	G	Weight kgs
Z101220	CH-3	12.5	25	187	70	46	47	75	3.8
Z101221	CH-3, 45° left	12.5	25	187	70	46	47	75	3.8
Z101219	CH-3, 45° right	12.5	25	187	70	46	47	75	3.8



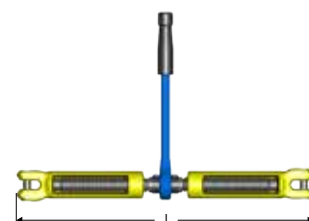
Alt. 1 - Straight lift

Alt. 2 - Angular lift



Chain Tensioner GT - for lifting

Art. no	Model	WLL tonnes*	STF (daN)	L = Min. length (mm)	L = Max. length (mm)	Weight (kgs)
Z101367	GT-8-10	2.6	2800	400	600	3.3
Z101368	GT-10-10	4.0	2800	400	600	3.3



Offshore Components



GUNNEBO
Industries

Arctic Offshore

Innovation and Quality With a Purpose

We have developed products to meet the stringent requirements of the offshore oil & gas industry for many years. The working conditions are tough and products have to be able to sustain extreme conditions. Our double latch hook, BKD, was developed with the aerospace industry as a role model; if one system fails another one is ready to save the situation. The extra latch on the BKD will retain the load in case an unintended opening of the first latch should occur.

Our lifting systems have been valued for their long durability and quality. Regardless of the environmental conditions, our systems have provided lifting operations with high safety. Our quality systems give us the tools to work with continuous improvements and we will always put our great efforts into our mission to create the best available in the market. Our quality is there with a purpose.

DNV 2.7-1 certificate

We are type-approved by DNV to manufacture master links and shackles in accordance with DNV 2.7.1 specification. The approval verifies that Gunnebo Industries has a high consistent level of production stability in the entire process, from raw material to the finished product.



-40°C

Arctic Offshore Master Links

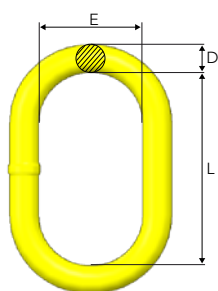
- Type Approved to DNV 2.7-1

Adverse weather and rough sea conditions - sometimes in combination with extremely low temperatures - must be included in the design and safety factor of container lifting sets. The heat treatment of the components must ensure proper ductility and strength to sustain shock loads which may be imposed when the container is lifted from the deck of a vessel.

The lifting sets and its included components must be specially designed for the purpose to lift offshore containers. One of the main differences compared to the onshore standard or specification, is that it allows for the dynamic forces at sea by adding an extra enhancement factor to increase the level of safety. Another difference is that the requirements and testing of materials that will be used in cold environments, are more extensive.

Arctic Offshore Master Link M

DNV 2.7-1 and DNV 2.7-3 Type Approved.

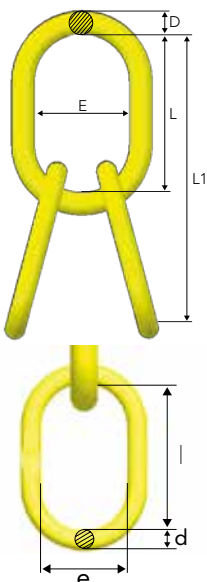


Art. no.	Code	Working Load Limits				L	E	D	Weight kgs
		DNV 2.7-1		EN1677-4	A-952/A952M				
		tonnes	Max. Container rating* kgs	SF 5:1 tonnes	SF 5:1 tonnes				
Z101486	M-9T- OS	9.3	4 500	9.3	9.3	270	140	25	3.0
Z101487	M-12T- OS	12.5	7 500	12.5	12.5	270	140	28	3.8
Z101488	M-18T- OS	18.5	13 500	18.5	18.5	270	140	32	5.1
Z101489	M-24T- OS	24.0	21 000	24.0	24.0	270	140	36	6.5
Z101490	M-30T- OS	30.5	25 000	30.5	30.5	270	140	40	8.2
Z101491	M-40T- OS	40.0	N/A	40.0	40.0	300	180	45	11.9
Z101492	M-50T- OS	50.0	N/A	50.0	50.0	300	200	50	15.3
Z101493	M-65T- OS	65.0	N/A	65.0	65.0	350	200	55	20.7
Z101494	M-90T- OS	90.0	N/A	90.0	90.0	450	250	70	42.7
Z101495	M-125T- OS	125.0	N/A	125.0	125.0	450	260	80	57.5

* For further information, see DNV 2.7-1

Arctic Offshore Master Link MT

DNV 2.7-1 and DNV 2.7-3 Type Approved.



Art. no.	Code	Working Load Limits				L1	L	E	D	I	e	d	Weight kgs
		DNV 2.7-1		EN 1677-4	A-952/A952M								
		tonnes	Max. container rating* kgs	SF 5:1 tonnes	SF 5:1 tonnes								
Z101586	MT-9T- OS	9.3	4 500	9.3	9.3	430	270	140	25	160	95	22	6.0
Z101587	MT-12T- OS	12.5	7 500	12.5	12.5	430	270	140	28	160	95	25	7.8
Z101588	MT-18T- OS	18.5	13 500	18.5	18.5	460	270	140	32	190	110	28	10.8
Z101589	MT-24T- OS	24.0	21 000	24.0	24.0	540	270	140	36	270	140	32	16.7
Z101590	MT-30T- OS	30.5	25 000	30.5	30.5	540	270	140	40	270	140	36	21.2
Z101591	MT-40T- OS	40.0	N/A	40.0	40.0	570	300	180	45	270	140	40	28.3
Z101592	MT-50T- OS	50.0	N/A	50.0	50.0	600	300	200	50	300	180	45	39.1
Z101593	MT-65T- OS	65.0	N/A	65.0	65.0	650	350	200	55	300	200	50	51.2

* For further information, see DNV 2.7-1

All sublinks have a WLL of min. 75% of the top link.

Master Link Selection Chart

Reference: DNV 2.7-1, Table 8.1

Container rating (kgs)	Enhancement factor	Min. required WLL (t)	Recommended Master link M	Recommended Master link MT
500	-	7.00	M-9T OS	MT-9T OS
1000	-	7.00		
1500	-	7.00		
2000	3.500	7.00		
2500	2.880	7.20		
3000	2.600	7.80		
3500	2.403	8.41		
4000	2.207	8.83		
4500	2.067	9.30		
5000	1.960	9.80	M-12T OS	MT-12T OS
5500	1.873	10.30		
6000	1.766	10.60		
6500	1.733	11.26		
7000	1.700	11.90		
7500	1.666	12.50		
8000	1.633	13.07	M-18T OS	MT-18T OS
8500	1.600	13.60		
9000	1.567	14.10		
9500	1.534	14.57		
10000	1.501	15.01		
10500	1.479	15.53		
11000	1.457	16.02		
11500	1.435	16.50		
12000	1.413	16.95		
12500	1.391	17.38		
13000	1.368	17.79		
13500	1.346	18.18		
14000	1.324	18.54	M-24T OS	MT-24T OS
14500	1.302	18.88		
15000	1.280	19.20		
15500	1.267	19.64		
16000	1.254	20.06		
16500	1.240	20.47		
17000	1.227	20.86		
17500	1.214	21.24		
18000	1.201	21.61		
18500	1.188	21.97		
19000	1.174	22.31		
19500	1.161	22.64		
20000	1.148	22.96	M-30T OS	MT-30T OS
20500	1.143	23.44		
21000	1.139	23.92		
21500	1.135	24.39		
22000	1.130	24.86		
22500	1.126	25.33		
23000	1.121	25.79		
23500	1.117	26.25		
24000	1.112	26.70		
24500	1.108	27.15		
25000	1.104	27.59		

Increased Safety in Heavy Lifting Operations

The WRIN STR Handle is a safety handle that provides additional safety to the Gunnebo Industries' BK safety hook family. With the WRIN STR Handle the operator opens and closes the safety hook without placing any hands inside the hook, resulting in a reduced risk of personal injury on worksites. The handle is easily mounted to the safety hook, without compromising the integrity of design and capabilities of the hook.



Improved workplace safety

- With the WRIN STR Handle there is no need to place a hand inside the safety hook, resulting in a reduced risk of personal injury on worksites.

Suitable to any safety hook within the BK family

- The WRIN STR Handle is easily mounted to any safety hook within the BK family.
- For sling shops the WRIN STR Handle is the perfect complement to the BK safety hooks, reducing the need for a large assortment of different safety hooks in stock.



Unique design

- Can be attached to any safety hook within the BK family, without compromising the integrity of the hook's design and capabilities.
- The handle is clamped to the hook and fixed by the hook's trigger pin.
- Hole for attaching a lead line for easy retrieval.
- Made of quality stainless steel according to AISI 316.

WRIN STR Handle

Suitable to any safety hook within the Gunnebo Industries BK family.

Art. no.	Code	Hook size (mm)	Dimension, overall (mm)	Suits the following safety hooks:	Weight (kg)
Z101413	STRG13	13	146 x 120 x 52	BK, BKG, BKL, BKLK 13-10	0.8
Z101414	STRG16	16	180 x 145 x 80	BK, BKG, BKL, BKLK 16-10	1.85
Z101415	STRG20	18/20	191 x 155 x 90	BK, BKG, BKL, BKLK 18/20-10	2.5
Z101416	STRG22	22	205 x 160 x 90	BK, BKLK 22-10	2.55
Z101417	STRG26	26	224 x 180 x 103	BK, BKLK 26-10	3.4
Z101418	STRG32	32	260 x 172 x 103	BK, BKLK 32-8	3.95

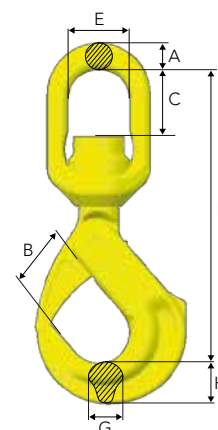
Material: Stainless steel according to AISI 316.



Swivel Safety Hook BKLK Offshore

Art. no.	Code	WLL tonnes 4:1	WLL tonnes 5:1	L	B	C	E	A	G	H	Weight kgs
Z101370	BKLK-13-10 W OS	6.8	5.4	307	55	72	61	25	30	40	4.9
Z101371	BKLK-16-10 W OS	10.3	8.0	365	62	87	82	26	37	48	8.4
Z1013561	BKLK-18/20-10 W OS	16.0	12.8	395	68	88	80	35	46	64	13.5
Z101294	BKLK-22-10 OS	20.0	16.0	436	79	80	80	35	50	62	16.8
Z101295	BKLK-26-10 OS	27.3	21.8	486	100	110	102	45	54	68	26.5
Z101344	BKLK-32-8 OS	32.8	26.2	533	120	110	102	45	62	86	32.3
With double latch											
GS1167	BKLD-13-10 W OS	6.8	5.4	307	44	72	61	25	30	40	5.0
GS1168	BKLD-16-10 W OS	10.3	8.0	367	48	88	82	26	37	50	8.8
GS1169	BKLD-18/20-10 W OS	16.0	12.8	368	52	60	72	31	44	65	12.4
GS1170	BKLD-26-10 OS	27.3	21.8	486	72	110	102	45	54	68	27.0

Manufactured according to requirements in: DNV 2.7-1:2013, DNVGL-ST-0377:2016, DNVGL-ST-0388:2016 and NORSOK R-002:2017.

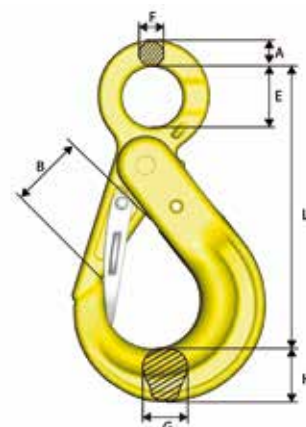


Safety Hook BK and BKLK with Double Latch

With recessed trigger

Due to the motion of the sea when loading and unloading offshore, direct impact on the hook could cause the latch to unintentionally open when not being under load, risking the load to unhitch. The double latch safety hook has an extra latch retaining the load in this case, keeping both load and personnel safe.

Art. no.	Code	WLL tonnes*	A	L	B	E	F	G	H	Weight kgs
Z101154	BKD-13-10	6.8	20	207	44	45	16	30	40	3.2
Z101155	BKD-16-10	10.3	26	254	48	56	20	37	50	5.8
Z101156	BKD-18/20-10	16.0	30	290	52	60	22	44	62	9.1
Z101373	BKD-26-10 OS	27.3	35	345	72	80	25	54	68	16.8



Double Latch

Should the hook latch accidentally open, either through direct impact or excessive wear on the trigger, the extra latch is there to retain the load safely. The latch does not cause inconvenience for the operator and may save their lives if something goes wrong.



Recessed Trigger

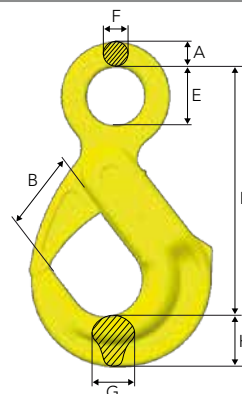
To avoid the trigger from being hit or damaged it has been recessed into the hook. This prevents the latch further from accidentally opening.

Safety Hook BK Offshore

Art. no.	Code	WLL tonnes 4:1	WLL tonnes 5:1	L	B	E	F	G	H	Weight kgs
Z101355	BK-26-10 OS	27.3	21.8	342	100	80	25	54	68	16.5
Z101364	BK-32-8 OS	32.8	26.2	400	120	90	30	62	86	23.6

Offshore material, impact toughness > 27 kJ at -20°C.

Manufactured according to requirements in: DNV 2.7-1:2013, DNVGL-ST-0377:2016, DNVGL-ST-0388:2016 and NORSOK R-002:2017



See our Offshore Shackles in Chapter 4



Classic Components



GUNNEBO
Industries

The SK-system - 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.

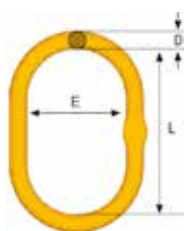


SKLI/SKLU

Electrically insulated, lubricated, sealed roller bearing swivel. Fully rotational even at maximum load. Tested to resist 1,000 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.

Master Link MF

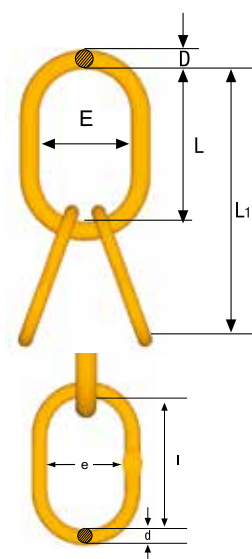


Art. no.	Code	WLL (SF 5:1) tonnes*		L	E	D	Weight kgs
		EN1677-4	A-952/A952M				
Z100860	MF-86-10	2.5	3.2	125	70	14	0.4
Z100861	MF-108-10	4.0	5.2	140	80	17	0.8
Z100862	MF-1310-10	7.5	8.0	160	95	22	1.5
Z100863	MF-1613-10	10.0	13.6	190	110	28	2.5
Z100864	MF-2016-10	17.0	20.6	240	140	34	5.2
Z100865	MF-2220-10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

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

Master Link with Sub Links MT

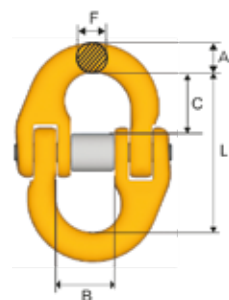
Flattened section on the sublinks.



Art. no.	Code	WLL (SF 5:1) tonnes*		For chain 3-4-leg	L1	L	E	D	I	e	d	Weight kgs
		EN1677-4	A-952/A952M									
Z100888	MT-6-10	3.5	5.0	6	270	150	90	19	120	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	120	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 and AS 3776:2015.

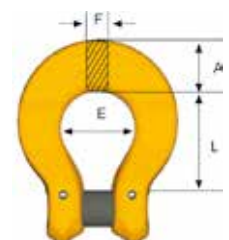
Coupling Link G



Art. no.	Code	WLL tonnes*	For chain dim.	L	B	F	A	C	Weight. kgs
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, AS 3776:2015 and SANS 1595:2003.

Berglok Chain Coupler BL



Art. no.	Code	WLL tonnes*	For chain dim.	L	E	F	A	Weight kgs
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, AS 3776:2015 and SANS 1595:2003.

Chain, Classic Grade 8

Short link, KL

Heat treatment

Quenched and tempered.

Heat treatment

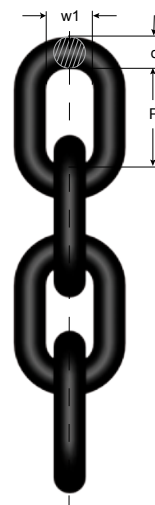
Painted black (KLB)

Painted yellow (KLU)

Fulfills the requirements in:

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

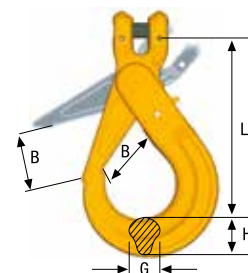
Art. no. Box	Code	WLL tonnes*	d nom.	P	w1	Weight kgs/m	Manufacturing proof force kN	Breaking force kN
Z802174 - 1 x 200 m	KLB 6-8E	1.1	6	18	8.5	0.8	28.3	45.2
Z802175 - 1 x 200 m	KLB 7-8E	1.5	7	21	10.0	1.1	38.5	62
Z802176 - 1 x 200 m	KLB 8-8E	2.0	8	24	11.0	1.4	50.3	80.6
Z802156 - 1 x 100 m	KLB 10-8E	3.2	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



Safety Hook BKG

Art. no.	Code	WLL tonnes*	For chain dim.	L	B	G	H	Weight appr. kgs
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

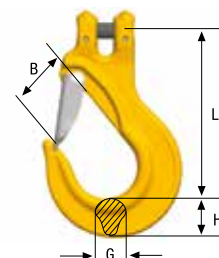
Fulfills requirements in: EN 1677:2008, ISO 8539:2009, ASTM A952/A952M, AS 3776:2015 and SANS 1595:2003.



Sling Hook EGKN with latch

Art. no.	Code	WLL tonnes*	For chain dim.	L	B	G	H	Weight appr. kgs
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, AS 3776:2015 and SANS 1595:2003.

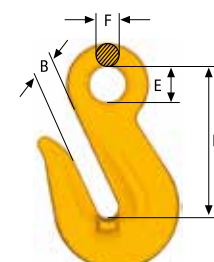


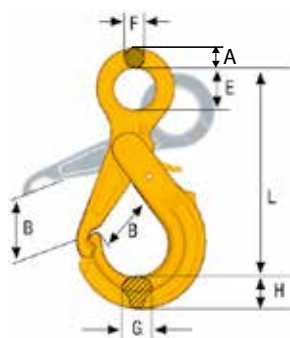
Grab Hook OG

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. kgs
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, AS 3776:2015 and SANS 1595:2003.



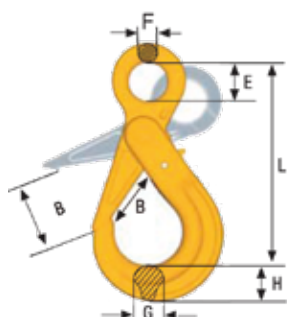


Safety Hook OBK

With griplatch.

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

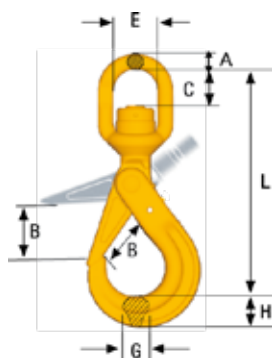
Fulfills requirements in: EN 1677:2008, ISO 8539:2009, ASTM A952/A952M, AS 3776:2015 and SANS 1595:2003.



Safety Hook BK

Art. no.	Code	WLL tonnes*	For chain dim.	L	B	E	F	G	H	Weight kgs
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, AS 3776:2015 and SANS 1595:2003.



Swivel Safety Hook BCLK

With ball-bearing.

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

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



Clevis Swivel Safety Hook BKH

With ball-bearing.

Art. no.	Code	WLL tonnes*	For chain dim.	L	B	K	G	H	Weight kgs
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, 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 kgs
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EN 1677-2

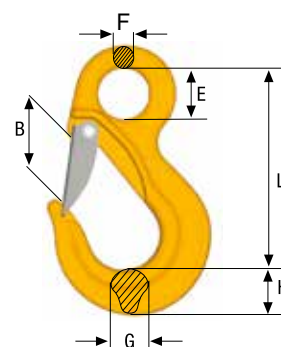
Z100720	EK-32-8	32.8	32	333	105	76	38	61	80	17.7
Z100725	EKN-32-8	32.8	32	333	93	76	38	61	80	17.9

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



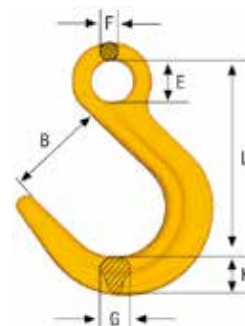
2

Foundry Hook OKE

Art. no.	Code	WLL tonnes*	For chain dim.	L	B	E	F	G	H	Weight Appr. kgs
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Z645564	OKE-32-8	32.8	32.8	384	145	90	42	77	94	30
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Fulfills requirements in: EN 1677:2008, ISO 8539:2009, ASTM A952/A952M, AS 3776:2015 and SANS 1595:2003.

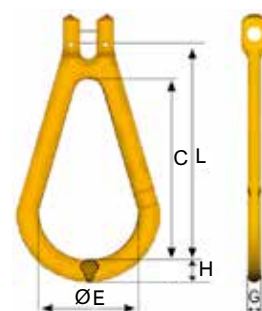


Clevis Egglink CEL

Art. no.	Code	WLL tonnes*	For chain dim.	C	E	G	H	L	Weight kgs
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Z700968	CEL-7/8-8	2.0	7, 8	80	40	14	15	100	0.4
Z700969	CEL-10-8	3.2	10	100	50	18	19	126	0.7
Z700970	CEL-13-8	5.4	13	130	65	23	25	162	1.5

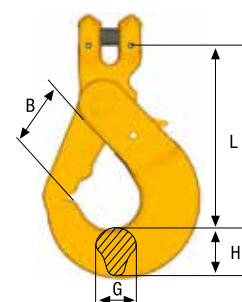
Fulfills requirements in: EN 1677:2008, ISO 8539:2009, ASTM A952/A952M, AS 3776:2015 and SANS 1595:2003.



Container Hook BKGC

Art. no.	Code	WLL tonnes*	For chain dim.	L	B	G	H	Weight kgs
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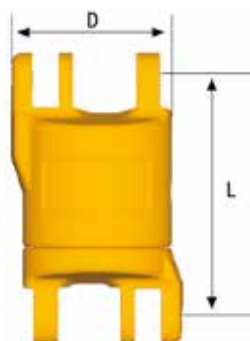
Fulfills requirements in: EN 1677:2008, ISO 8539:2009, ASTM A952/A952M, AS 3776:2015 and SANS 1595:2003.
Spare part: RDOBK



Roller-Bearing Swivel, SKLI/SKLU

Electrically insulated, lubricated, sealed roller bearing swivel. Fully rotational even at maximum load. Tested to resist 1.000 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.



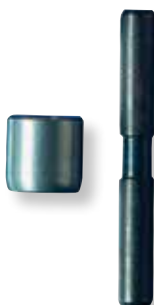
Roller-bearing Swivel SKLI/SKLU

Art. no.	Code	WLL tonnes*	For chain dim.	L	D	Weight kgs
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

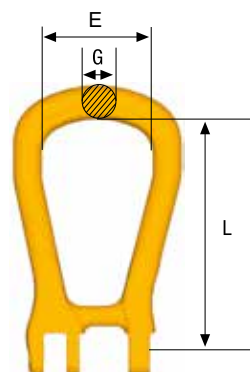
Fulfills requirements in: EN 1677:2008, ISO 8539:2009, ASTM A952/A952M, AS 3776:2015 and SANS 1595:2003.

* Uninsulated

Load Pin and Locking Collar - SKA



Art. no.	Code	Weight kgs
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)

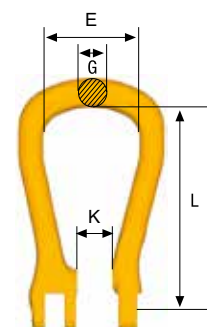
Art. no.	Code	WLL tonnes*	For chain dim.	L	E	G	Weight kgs
Z419684	SKG-7/8-8	2.0	7, 8	99	50	14	0.3
Z419781	SKG-10-8	3.2	10	127	66	18	0.6
Z419888	SKG-13-8	5.4	13	145	72	22	1.1
Z419985	SKG-16-8	8.2	16	175	82	25	1.5
Z420086	SKG-18/20-8	12.8	19	204	105	30	3.0

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

Master Link SKO (open)

Art. no.	Code	WLL tonnes*	For chain dim.	L	E	G	K	Weight kgs
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, AS 3776:2015 and SANS 1595:2003.

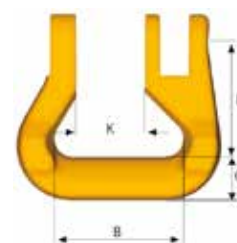


Roundsling Coupling SKR

Special shape for full WLL of the roundsling

Art. no.	Code	WLL tonnes*	L	B	G	K	Weight kgs
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, AS 3776:2015 and SANS 1595:2003.

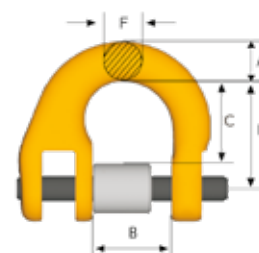


Half-link SKT

(incl. locking set)

Art. no.	Code	WLL tonnes*	For chain dim.	L	B	F	A	C	Weight kgs
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, AS 3776:2015 and SANS 1595:2003.

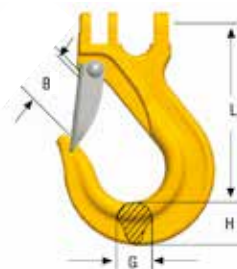


Sling Hook ESKN/SKN

With latch.

Art. no.	Code	WLL tonnes*	For chain dim.	L	B	G	H	Weight kgs
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	54	38	43	3.4
Z100781	ESKN-18/20-8	12.8	19	197	59	49	51	5.1

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



Excavator Hook

UKN - The Original Excavator Hook

Gunnebo Industries continuously works with product development and innovation to create the optimal solutions for each lifting situation. For more than 250 years we have developed products that have become today's standards on the market. There is however only one original – Gunnebo Industries. With the original you get the perfect fit and smart details.

Many excavators are used for material handling and lifting due to their availability at most work sites and capacity. However, often the rigging gear is attached either to the teeth of the bucket or on the arm directly, which together with no knowledge of capacity risk leading to accidents. This led Gunnebo Industries to develop the UKN hook back in 1975, an industry first.

Tried & Tested Globally

The UKN has been fitted to excavators for over 40 years. Either as an aftermarket product or directly from the manufacturer. The UKN hook is the hook of choice for internationally leading manufacturers. With Gunnebo Industries' long experience, high quality and availability of both product and spare parts globally through our partners, the choice is easy.

100% Proof-loaded

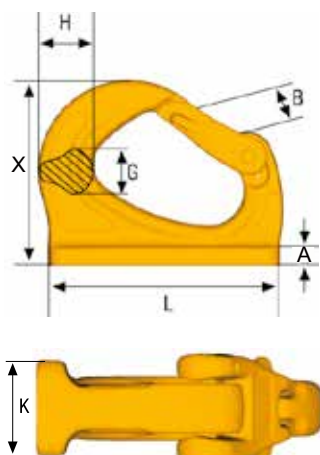
- Every hook individually proof-loaded 3 x WLL

Heavy-duty

- Drop-forged
- Rated with a 5:1 safety factor

Clear markings

- Country of origin
- Traceability codes
- Model and WLL
- BG-approval stamp



Universal Weld-On Hook, UKN

Art. no.	Code	WLL tonnes**	B	G	H	K	L	A	X	Weight kgs
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.

Hot Dip Galvanized Product Range

Expected lifetime of the protective coating

The average coating thickness is about 70 µm on the components. The expected service life will depend on the corrosivity of the user environment. According to ISO 9223:2012 the corrosion rate is 4-8 µm/year for a maritime environment with high salinity (C5-very high). This will result in an expected lifetime of 9-17 years. The toughest category in the standard is an offshore environment with direct exposure to salt water (e.g. fishing ships). In this application the corrosion rate is estimated to be 8-25 µm/year (CX-extreme), which would give an expected lifetime of 3-9 years.

Properties of components

Standards:	Finish:	Documentation:
- Applicable parts of NS9415:2009 - European standard EN 1677-1:2008 - European standard EN 1677-3:2008	- Hot Dip Galvanized according to ISO 1461:2009 - In order to minimize the risk for hydrogen embrittlement no acid pickling has been used before the hot dip galvanization.	Inspection certificate acc. EN-10204 - 3.1
Material:	Temperature range:	Safety factor:
High Tensile Steel, Quenched and Tempered, Grade 8/80	-40 °C to 200 °C	4:1

Master Link MF HDG

Art. no.	Code	WLL (SF 5:1) tonnes		L	E	D	Weight kgs
		EN 1677-4	A-952/ A952M				
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	0.9
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	3.0



Safety Hook BK HDG

Art. no.	Code	WLL tonnes*	A	L	B	E	F	G	H	Weight kgs
ZG101108	BK-6-8 HDG	1.1	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



Coupling Link G HDG

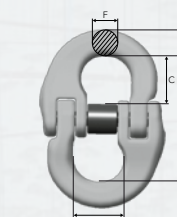
Art. no.	Code	WLL tonnes*	L	B	F	A	C	Weight kgs
ZG100821	G-6-8 HDG	1.1	45	15	7	8	17	0.1
ZG100822	G-8-8 HDG	2.0	56	18	9	11	22	0.2
ZG100823	G-10-8 HDG	3.2	68	25	11	13	26	0.3
ZG100824	G-13-8 HDG	5.4	89	30	15	16	33	0.7



Coupling Link GF - Stain Proof**

High strength stainless steel.

Art. no.	Code	WLL tonnes*	For chain dim.	L	B	F	A	C	Weight kgs
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.

Spare Part RD BK

(with assembly kit)

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



Recessed trigger

Art. no.	Code	Weight kgs
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
Z1002970	RDBK 18/20 OS	0.21
Z1002870	RDBK-22 OS	0.20
Z1002950	RDBK-26OS	0.50
Z1002940	RDBK-32OS	0.70

Standard trigger (long trigger)

Art. no.	Code	Weight kgs
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 RD OBK / GBK

(with assembly kit)

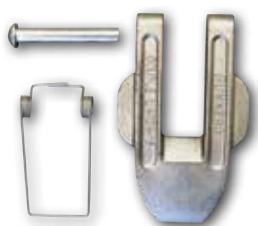
Set for OBK/GBK Safety hooks consists of trigger, stainless steel spring, retaining pin and assembly kit.



Art. no.	Code	Weight kgs
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 RD BKD / BKLKD

(with assembly kit)



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

Spare Part RD GKN / OKN



Art. no.	Code	Weight kgs
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 RD LKNG

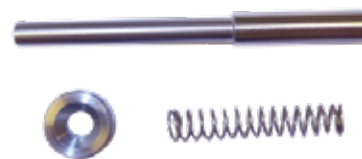


Art. no.		Code	Weight kgs
Z700495	RDLKNG-16	Bolt and Nut	0.7
B60122	RDLKNG-16	Bronze Washer and Retaining pin	0.03

Spare Part RDGG

Spare part consist of pin, spring and locking ring.

Art. no.	Code	Weight kgs
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



2

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

Set consists of latch, stainless steel spring and rivet.

Art.no.	Code	Weight kgs
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 Set SKN, OKN and LKN (old version)

Set consists of latch, stainless steel spring and rivet.

Art. no.	Code	Weight kgs
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) consists of forged latch, pin, stainless steel spring and retaining pin.

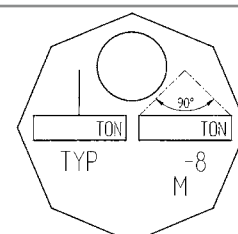
Art. no.	Code	Weight kgs
Z100258	RDUKN-0.75	0.06
Z700264	RDUKN-1	0.12
Z700958	RDUKN-2	0.20
Z700266	RDUKN-3/4	0.20
Z700268	RDUKN-5/8	0.36
Z700269	RDUKN-10	0.88
Z700984	RDUKN-15	1.20



Id-tag grade 8

Stainless

Art.no.	Code
Z100004	Id-tag

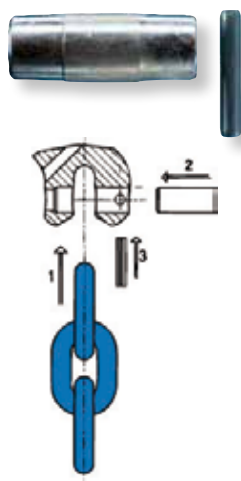


Sling Id-tag Grade 10

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 (CLS) consists of one load pin and one spring retaining pin.

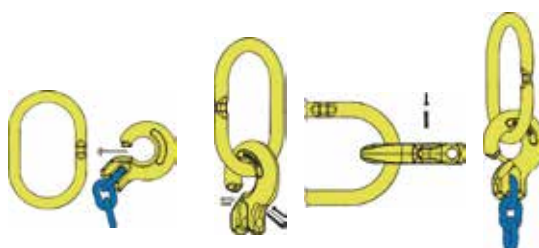
Art. no.	Code	Weight kgs/ea
B14930	CLS- 6	0.01
B14931	CLS- 8	0.02
B14932	CLS-10	0.04
B14933R	CLS-13	0.09
B14934	CLS-16	0.16
B14935	CLS-20	0.26

Spare Part CS

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



Art. no.	Code	Weight kgs/ea
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 kgs
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

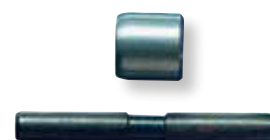


2

Locking Set SKA

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

Art. no.	Code	Weight kgs	Art. no.	Code	Weight kgs
Z100989	SKA- 6-10	0.01	Z700674	SKA-6-8	0.01
Z100933	SKA- 7/8-10	0.02	Z323624	SKA-7/8-8	0.02
Z100934	SKA-10-10	0.04	Z318024	SKA-10-8	0.04
Z100990	SKA-13-10	0.08	Z303822	SKA-13-8	0.08
Z100991	SKA-16-10	0.14	Z303725	SKA-16-8	0.14
Z101176	SKA-20-10	0.26	Z145048	SKA-18/20-8	0.26
Z650555	SKA-22-10	0.35	Z133530	SKA-22-8	0.35
Z650556	SKA-26-10	0.63	Z605407	SKA-26-8	0.63
Z650557	SKA-32-10	1.09	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 kgs
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 kgs
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 centre 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.

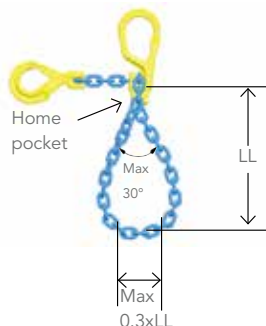
When frequently using a sling to it's maximum load, we recommend increasing the sling size by one dimension.



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)



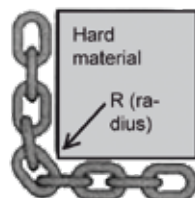
Endless chain slings shall be rated in the same way as a 2-legged sling.

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	$R > 2 \times \text{chain } \varnothing$	$R > \text{chain } \varnothing$	$R < \text{chain } \varnothing$
Reduction factor	1.0	0.7	0.5

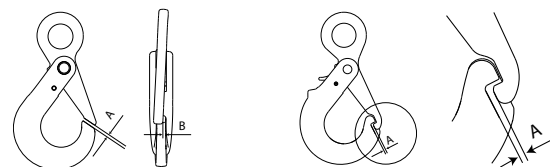
- The angle of the edge must not be below 90°.
- Chain links shall be protected from being bent or deformed and from receiving cuts or gouges.
- Chain sling WLL is to be reduced when chain is rigged over an edge radius R less than two (2) x chain diameter (d).
- Reduced WLL equals chain sling WLL from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

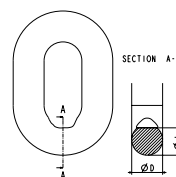
Periodic thorough examination must be carried out at least every 12 months or more frequently according to local statutory regulations, type of use and past experience.

- Overloaded chain slings must be taken out of service.
- 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.
- 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.
- The maximum permissible increase in hook aperture must not exceed 10% of the products nominal dimension.
- Check the function of latches, triggers and retaining pins / bushes, replace when necessary. Always use Gunnebo Industries original spare parts.
- 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

- 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

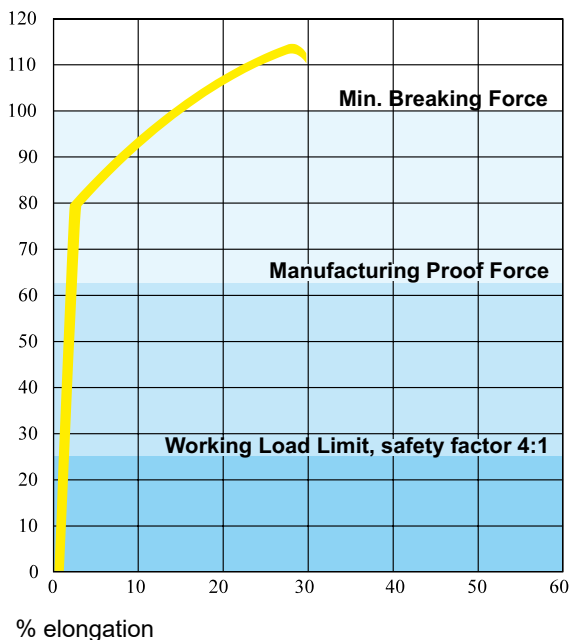
The Breaking Force (BF) for each component and size is verified. The verified value shall be at least equal to the Minimum Breaking Force (MBF) value. The MBF value is equal to the Working Load Limit (WLL) multiplied by the safety factor.

Fatigue Test

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

Stress / Elongation Diagram

Chain grade 10, type KL
% of min. Breaking Force



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:

Proof Force

Each individual 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.

Non Destructive Test / Visual Inspection

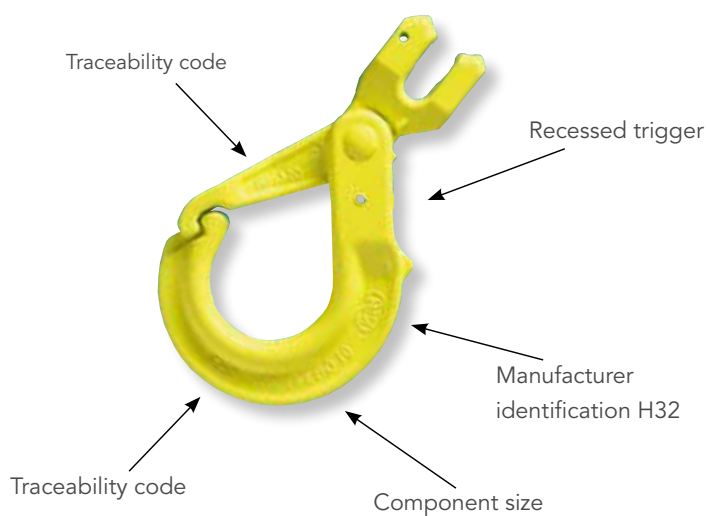
3% of every production batch of forged components are subject to magnetic particle or dye penetrating examination. Visual inspection is carried out on each chain link and each forged component to detect defects.

Static Tensile and Ultimate Elongation Test

During manufacture, 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.

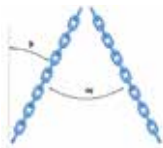
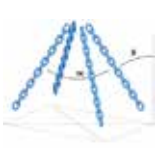
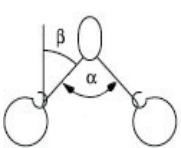




Working Load Limits - Europe

WLL tonnes Grade 10 GrabiQ

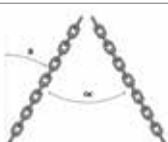
Based on EN 818-4:2008 WLL + 25%

							
Sling type	1-leg	2-leg		3- and 4-leg		Choke Hitch	
Condition of use	Straight	β 0-45° α 0-90°	β 45-60° α 90-120°	β 0-45° α 0-90°	β 45-60° α 90-120°	Choke β 0-45° α 0-90°	Choke β 45-60° α 90-120°
Load factor	1	1.41	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	β 0-45° α 0-90°	β 45-60° α 90-120°	β 0-45° α 0-90°	β 45-60° α 90-120°	Endless sling in choke hitch
Load factor	1	1.41	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 A 906/A 906M-2

Sling type	1-leg	2-leg			3- and 4-leg		
Condition of use	Straight	$\alpha 60^\circ$	$\alpha 45^\circ$	$\alpha 30^\circ$	$\alpha 60^\circ$	$\alpha 45^\circ$	$\alpha 30^\circ$
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	3.30	2.70	1.90	5.00	4.10	2.90
8	2.50	4.30	3.50	2.50	6.40	5.30	3.70
10	4.00	6.90	5.60	4.00	10.30	8.40	6.00
13	6.80	11.70	9.50	6.80	17.60	14.40	10.20
16	10.00	17.30	14.10	10.00	25.90	21.20	15.00
20	16.00	27.60	22.50	16.00	41.40	33.90	24.00
22	20.00	34.60	28.20	20.00	51.80	42.40	30.00
26	27.00	46.70	38.00	27.00	69.90	57.20	40.50
32	40.00	69.20	56.40	40.00	103.60	84.80	60.00

Note 1: WLL for 2-leg sling and single leg basket slings = $2 \times 1\text{-leg WLL} \times \sin$ of horizontal angle α

Note 2: WLL for 3- and 4-leg sling and 2-leg basket slings = $3 \times 1\text{-leg WLL} \times \sin$ of horizontal angle α

Note 3: WLL based upon equally loaded and disposed sling legs

WLL tonnes Grade 8 Classic

Based on A 906/A 906M-2

Sling type	1-leg	2-leg			3- and 4-leg		
Condition of use	Straight	$\alpha 60^\circ$	$\alpha 45^\circ$	$\alpha 30^\circ$	$\alpha 60^\circ$	$\alpha 45^\circ$	$\alpha 30^\circ$
Load factor	1	1.73	1.41	1	2.59	2.12	1.5
Chain size							
6	1.12	1.90	1.50	1.10	2.90	2.30	1.60
7	1.57	2.70	2.20	1.50	4.00	3.30	2.30
8	2	3.40	2.80	2.00	5.10	4.20	3.00
10	3.2	5.50	4.50	3.20	8.20	6.70	4.80
13	5.4	9.30	7.60	5.40	13.90	11.40	8.10
16	8.2	14.10	11.50	8.20	21.20	17.30	12.30
19	11.6	20.00	16.30	11.60	30.00	24.50	17.40
22	15.5	26.80	21.80	15.50	40.10	32.80	23.20
26	21.6	37.30	30.40	21.60	55.90	45.70	32.40
32	32.8	56.70	46.20	32.80	84.90	69.50	49.20

Note 1: WLL for 2-leg sling and single leg basket slings = $2 \times 1\text{-leg WLL} \times \sin$ of horizontal angle α

Note 2: WLL for 3- and 4-leg sling and 2-leg basket slings = $3 \times 1\text{-leg WLL} \times \sin$ 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 appropriate 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 appropriate 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

Lifting Points

Rotating • Ball-bearing • De-centered • Weldable • Screw-on



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