Chain slings

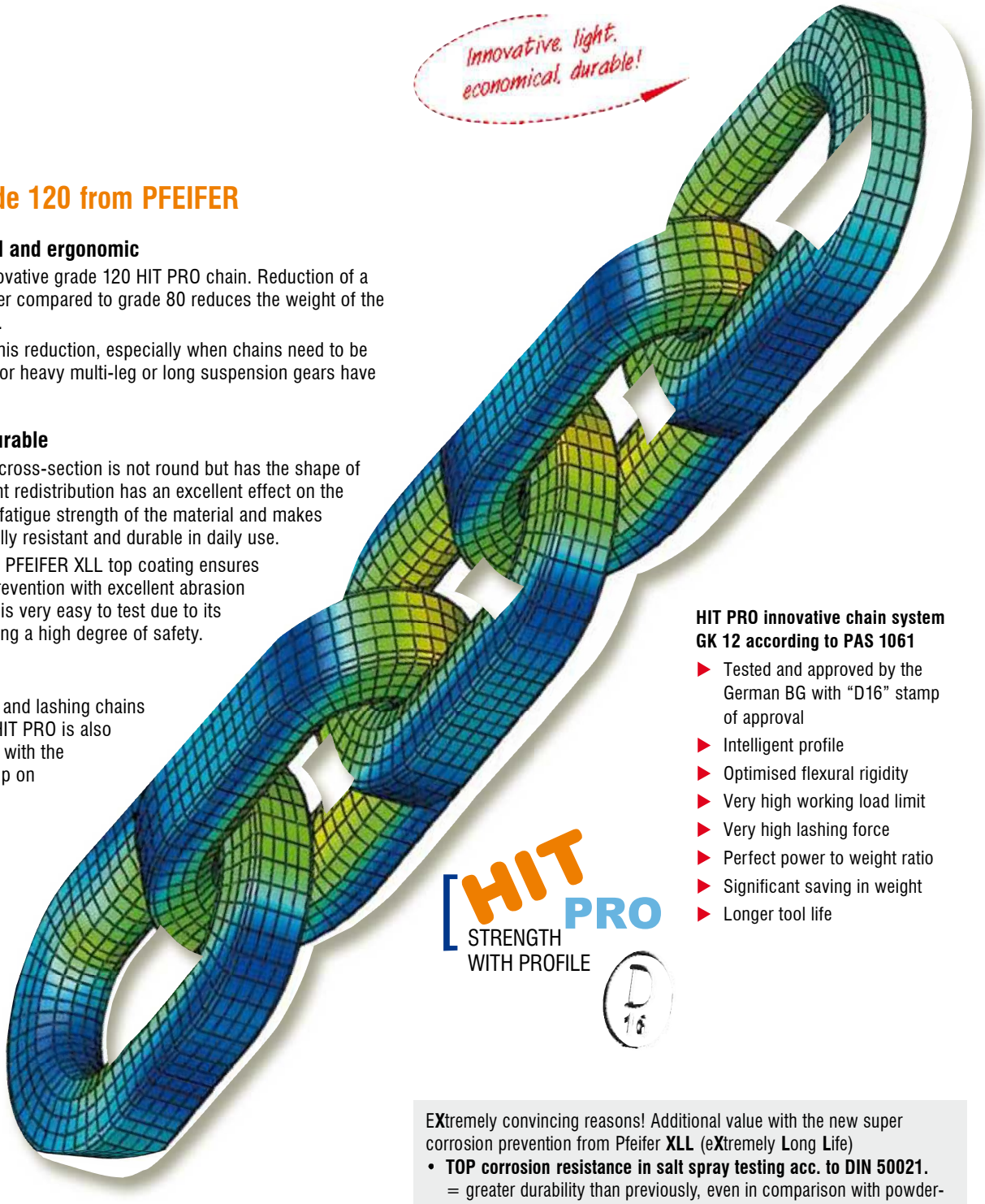
Experienced and orientated on quality
Take advantage of our experience and quality arosen from our 25-year partnership with pewag austria. Benefit from the advantages of this strong connection.

Flexible and efficient
We offer you a vast and effective programme of chain slings in grade 100 HIT (or special grade 80) up to 26 mm and grade 120 HIT PRO, satisfying the challenging requirements of your daily attachment operations.

Innovative
Innovations arise from the work, the thoughts and the ideas of experienced specialists. Let us convince you of the performance of our innovations as for example of the profile chain slings of the grade 120 or the chain super corrosion protection PFEIFER XLL (e**X**tremely **L**ong **L**ife.)

HIT PRO chain system grade 120

new!



HIT PRO – The new grade 120 from PFEIFER

Light, economical and ergonomic

Try out the new innovative grade 120 HIT PRO chain. Reduction of a whole chain diameter compared to grade 80 reduces the weight of the chain by up to 40 %.

Take advantage of this reduction, especially when chains need to be changed frequently or heavy multi-leg or long suspension gears have to be moved.

Innovative and durable

The HIT PRO chain cross-section is not round but has the shape of a “D”. This intelligent redistribution has an excellent effect on the flexural rigidity and fatigue strength of the material and makes HIT PRO exceptionally resistant and durable in daily use.

The tried and tested PFEIFER XLL top coating ensures perfect corrosion prevention with excellent abrasion strength. The chain is very easy to test due to its thin coating, providing a high degree of safety.

Approved

Like all chain slings and lashing chains from PFEIFER, the HIT PRO is also approved by the BG with the corresponding stamp on the chain system.

HIT PRO innovative chain system GK 12 according to PAS 1061

- Tested and approved by the German BG with “D16” stamp of approval
- Intelligent profile
- Optimised flexural rigidity
- Very high working load limit
- Very high lashing force
- Perfect power to weight ratio
- Significant saving in weight
- Longer tool life

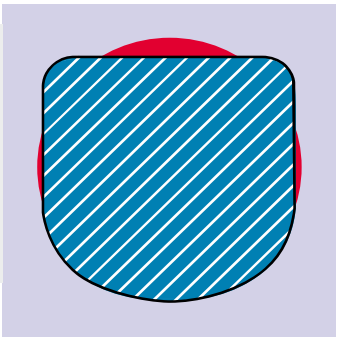
E**X**tremely convincing reasons! Additional value with the new super corrosion prevention from Pfeifer **XLL** (e**X**tremely **L**ong **L**ife)

- **TOP corrosion resistance in salt spray testing acc. to DIN 50021.** = greater durability than previously, even in comparison with powder-coated chains!
- **TOP adhesive strength as specified in cross-cut test ISO 2409, DIN 53 151, ASTM 3002, ASTD 3359 (abrasion resistance of coating, impact strength etc.)** = no problem of abrasion or flaking (as with powder coating) resulting in troublesome paint particles e.g. on machines!
- **TOP suitability for electromagnetic crack detection ("fluxing") due to thin coating layer** = greater safety than painted or powder-coated chains.
- **TOP ease of identifying the grade stamps W or 10 due to thin coating**
- **TOP appearance**
- **TOP values/UV resistance – outdoor weathering test**
- **TOP environmental compatibility**

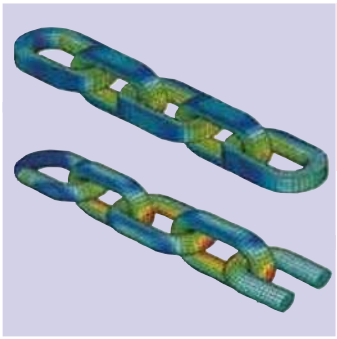
HIT PRO grade 120 Advantages

Advantages in load securing and attachment technology with the new innovative chain system

HIT PRO
STRENGTH WITH PROFILE



- **Intelligent profile** – by the intelligent use of material, essential characteristics of the chain (e. g. fatigue strength and flexural rigidity) are substantially improved compared to a normal round steel chain with the same cross section. In order to achieve the optimum technical effect, the use of the material was optimised (blue surfaces) at effective points, but reduced (red surfaces) in less relevant areas.
- **Patented material** with optimised strength and endurance characteristics at both high and at low temperatures.



- **Optimised flexural rigidity** – the section modulus, which is important to prevent undesirable deflection, is up to 16 % higher in the profile chain than in a round link chain with the same cross section and hence reduces the maximum tension in the chain **(no red areas).**
- **Longer service life** due to higher strength and lower wear.
- **Complete traceability** – chains and components are provided with identity stamps; these allow the entire manufacturing process to be verified.

- **The professional in demanding use** – thanks to the combination of **intelligent profile,** patented **high performance chain steel** and an **optimised tempering process,** HIT PRO attains **maximum strength, hardness and flexural rigidity.** Particularly in tough use on edges, the revolutionary HIT PRO technology proves its capabilities with a ruggedness that has never been known before!
- **The low temperature professional** – due to the extremely high temperature stability from **–60 ° to +300 °C**, HIT PRO is suitable even for the harshest environmental conditions in the world.
- **Simple visual identification** due to profiled chain and grade 120 stamp on each chain link
- **Super** PFEIFFER **XLL corrosion protection** (e**X**tremely **L**ong **L**ife)
- **Quality-assured European production** by ISO 9001 certified company

HIT PRO
for you with proven super corrosion protection **XLL** (e**X**tremely-**L**ong-**L**ife) in black

HIT PRO
STRENGTH WITH PROFILE

Higher working load limit

50 % higher working load limit compared to grade 80

20 % higher working load limit compared to grade 100

Nominal chain thickness mm	working load limit kg		
	HIT PRO grade 120	HIT grade 100	grade 80
7	**2360**	1400 (6mm)	1120 (6mm)
8	**3000**	2500	2000
10	**5000**	4000	3150
13	**8000**	6700	5300

Reduction of the chain dimension

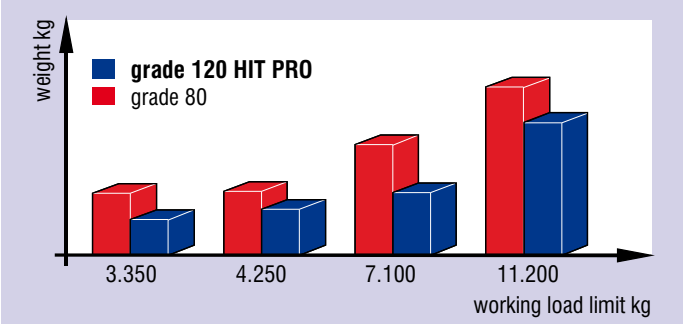
Reduction to a smaller chain dimension in many load areas compared to grade 80 or grade 100 chain systems results in maximum efficiency in handling and performance

Example: 2-leg suspension grade 80 compared to HIT PRO up to 45° angle of inclination

working load limit kg	previous chain dia. grade 80 mm	**HIT PRO chain ∅ mm**
4250	10	**8**
7100	13	**10**
11200	16	**13**

Weight saving

Significant weight saving of up to 40% compared to grade 80 chains with the same working load limit, hence considerably simpler handling



HIT PRO saves costs and weight in attachment technology due to higher working load limits.

2011/12

HIT PRO grade 120
Nominal ratings at one glance

HIT PRO
STRENGTH WITH PROFILE

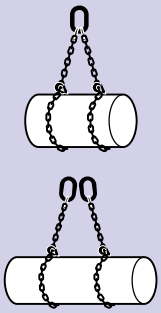
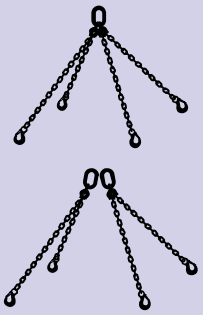
Chain quality	HIT PRO corresponds to EN 818 and PAS 1061 with **modifications (higher mechanical values and impact values, reduced operating temperature)**
Stress at rated carrying load	300 N/mm^2
Stress at rated lashing load	600 N/mm^2
Fatigue test	20,000 load changes at 450 N/mm^2 nominal stress
Nominal test stress	750 N/mm^2
Nominal breaking stress	1 200 N/mm^2
Elongation at breaking point	min. 20% irrespective of the surface
Deflection	0,8 × d
Notched bar impact work	42 J at –60 °C
Manufacturer's name/mark	pewag/D16

Stress corrosion	No risk of stress corrosion verified acc. to PAS 1061
Operating temperature	–60 °C to +300 °C (Note corresponding **reduction in working load limit at higher temperatures)**
Grade stamp	**Chain:** Stamp "120" at 300 mm intervals; stamp "12" on the back of every link **Components:** Stamp "12" on each component
Surface	Super corrosion prevention PFEIFER **XLL (eXtremely Long Life)**
Working load limit identification tag	Data of importance to the user are given on the working load limit identification tag. **A specially shaped tag was developed for easy and accurate identification.**
Lashing identification tag	Data of importance to the user are given on the lashing identification tag.
Compatibility	pewag HIT PRO chains and components **are only partly compatible with chains and components of other quality grades and from other manufacturers. Combinations must be checked in advance by the manufacturer.**

HIT PRO
for you with proven super corrosion protection **XLL** (e**X**tremely-**L**ong-**L**ife) in black

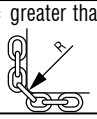
Working load limit table:
Comparison of grade 80 – HIT grade 100 – HIT PRO grade 120

The specified working load limits are maximum values for the different types of lifting.

Safety factor		1 leg chains			2 leg chains				3-+4 leg chains		Endless chain slings	
4												
Angle of inclination		—	—	up to 6°	up to 45°	45°–60°	up to 45°	45°–60°	up to 45°	45°–60°	—	up to 45°
Load factor		1	0.8	2	1.4	1	1.12	0.8	2.1	1.5	1.6	1.4
Code	d/mm	WLL [kg]										
HIT PRO	7	2360	1900	4720	3350	2360	2650	1900	5000	3550	3750	3350
HIT	7	1900	1500	3800	2650	1900	2120	1500	4000	2800	3000	2650
grade 80	7	1500	1200	3000	2120	1500	1700	1200	3150	2240	2500	2120
HIT PRO	8	3000	2360	6000	4250	3000	3350	2360	6300	4500	4750	4250
HIT	8	2500	2000	5000	3550	2500	2800	2000	5300	3750	4000	3550
grade 80	8	2000	1600	4000	2800	2000	2240	1600	4250	3000	3150	2800
HIT PRO	10	5000	4000	10000	7100	5000	5600	4000	10600	7500	8000	7100
HIT	10	4000	3150	8000	5600	4000	4250	3150	8000	6000	6300	5600
grade 80	10	3150	2500	6300	4250	3150	3550	2500	6700	4750	5000	4250
HIT PRO	13	8000	6300	16000	11200	8000	9000	6300	17000	11800	12500	11200
HIT	13	6700	5300	13200	9500	6700	7500	5300	14000	10000	10600	9500
grade 80	13	5300	4250	10600	7500	5300	5900	4250	11200	8000	8500	7500

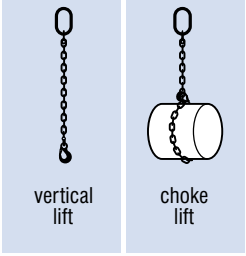
If the chains are subjected to additional strains (e.g. high temperatures, asymmetry, edge loading, impacts) then the maximum working load limits in the table above must be reduced. The load factors below should be used for these situations.

Additional strain

Thermal stress	–60°C – 200°C	201°C – 300°C	more than 300°C
HIT PRO load factor	1	0.6	prohibited
Asymmetrical load distribution	The working load limit must be reduced by at least 1 chain leg. In cases of doubt assume that only 1 leg is carrying.		
Edge loading d = chain material thickness	R = greater than 2 × d 	R = greater than d 	R = smaller than d 
Load factor	1	0.7	0.5
Impact stress	minor impacts	medium impacts	major impacts
Load factor	1	0.7	not permitted

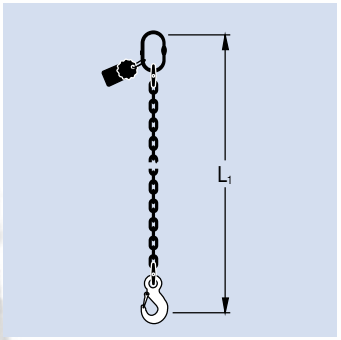
Chain slings HIT PRO grade 120
1-/2-/4-leg

WLL according to type of attachment



Chain sling, 1-leg with sling hook HSWP Grade 120

HIT PRO STRENGTH WITH PROFILE

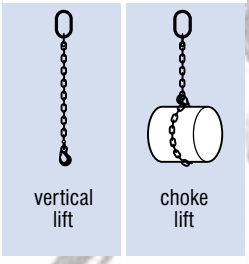


The dimensions can be found on page 165

Please always specify the reference number and effective length L_1 when ordering!

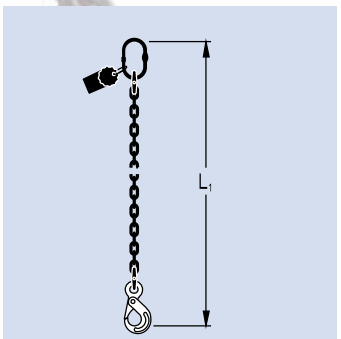
WLL kg		Nominal size of chain mm	Dimensions of the masterlink mm	Reference no.
2360	**1900**	7	120×70	**229284**
3000	**2360**	8	140×80	**229285**
5000	**4000**	10	160×95	**229286**
8000	**6300**	13	190×110	**229287**

WLL according to type of attachment



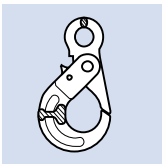
Chain sling, 1-leg with safety hook LHWP Grade 120

HIT PRO STRENGTH WITH PROFILE



The dimensions can be found on page 166

Please always specify the reference number and effective length L_1 when ordering!



WLL kg		Nominal size of chain mm	Dimensions of the masterlink mm	Reference no.
2360	**1900**	7	120×70	**229288**
3000	**2360**	8	140×80	**229289**
5000	**4000**	10	160×95	**229290**
8000	**6300**	13	190×110	**229291**

HIT PRO
for you with proven super corrosion protection
XLL (e**X**tremly-**L**ong-**L**ife)
in black

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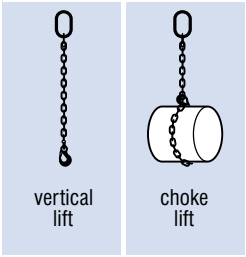
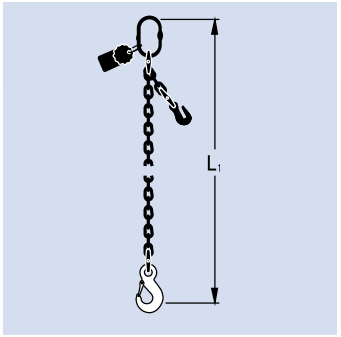
- **TOP ease of identifying the grade stamps W or 10 due to thin coating**
- **TOP appearance**
- **TOP values/UV resistance – outdoor weathering test**
- **TOP environmental compatibility**

WLL according to type of attachment



Chain sling, 1-leg, adjustable with sling hook HSWP Grade 120



The dimensions can be found on page 165/166

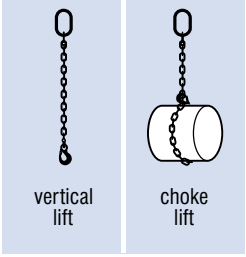
Please always specify the reference number and effective length L_1 when ordering!

WLL kg		Nominal size of chain mm	Dimensions of the masterlink mm	Reference no.
2360	**1900**	7	120×70	**229300**
3000	**2360**	8	140×80	**229301**
5000	**4000**	10	160×95	**229302**
8000	**6300**	13	190×110	**229303**

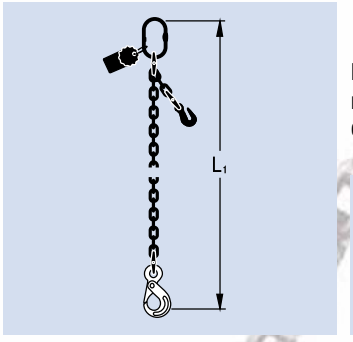
A contribution to safety:
We identify our chain slings (in the case of delivery and BGR 500 test) with a tag showing the due date of the next test so that you do not miss any of these legally prescribed dates. Further information on our inspection service is given on pages 208–209.

HIT PRO
for you with proven super corrosion protection **XLL** (e**X**tremely-**L**ong-**L**ife) in black

WLL according to type of attachment

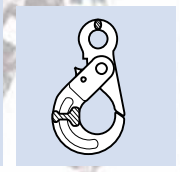


Chain sling, 1-leg, adjustable with safety hook LHWP Grade 120



The dimensions can be found on page 166

Please always specify the reference number and effective length L_1 when ordering!

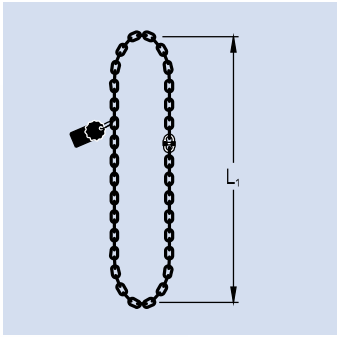


WLL kg		Nominal size of chain mm	Dimensions of the masterlink mm	Reference no.
2360	**1900**	7	120×70	**229304**
3000	**2360**	8	140×80	**229305**
5000	**4000**	10	160×95	**229306**
8000	**6300**	13	190×110	**229307**

WLL according to type of attachment

reeved sling

Endless chain sling with connecting link CWP Grade 120



The dimensions can be found on page 165

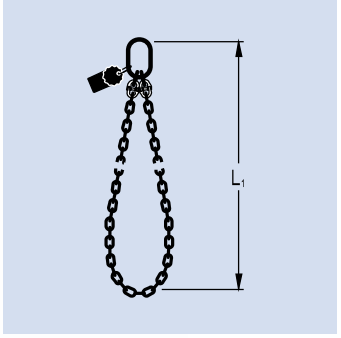
Please always specify the reference number and effective length L_1 when ordering!

WLL kg	Nominal size of chain mm	Reference no.
3750	7	229309
4750	8	229312
8000	10	229313
12500	13	229314

WLL according to type of attachment

reeved sling

Endless chain sling with master link VMWP Grade 120



The dimensions can be found on page 165

Please always specify the reference number and effective length L_1 when ordering!

WLL kg	Nominal size of chain mm	Dimensions of the masterlink mm	Reference no.
3350	7	160×110	229319
4250	8	160×110	229320
7100	10	190×130	229321
11200	13	230×150	229322

HIT PRO
for you with proven super corrosion protection **XLL** (e**X**tremly-**L**ong-**L**ife) in black

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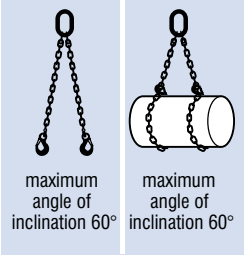
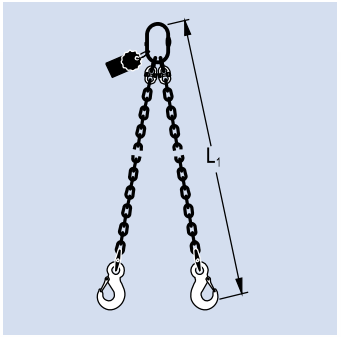
- **TOP appearance**
- **TOP values/UV resistance – outdoor weathering test**
- **TOP environmental compatibility**

Chain sling, 2-leg with sling hook HSWP Grade 120

WLL according to type of attachment



HIT PRO STRENGTH WITH PROFILE



The dimensions can be found on page 165

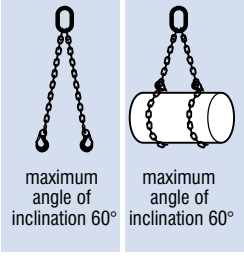
Please always specify the reference number and effective length L_1 when ordering!

WLL kg				Nominal size of chain mm	Dimensions of the masterlink mm	Reference no.
0–45°	45–60°	0–45°	45–60°			
3350	2360	2650	1900	7	160×95	229331
4250	3000	3350	2360	8	160×95	229332
7100	5000	5600	4000	10	190×110	229333
11200	8000	9000	6300	13	230×130	229334

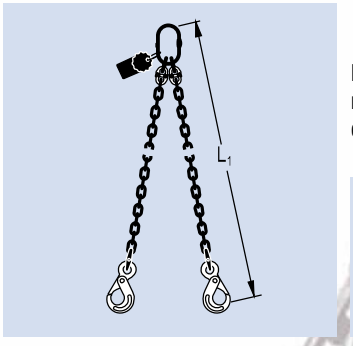
HIT PRO
for you with proven super corrosion protection
XLL (e**X**tremly-**L**ong-**L**ife)
in black

Chain sling, 2-leg with safety hook LHWP Grade 120

WLL according to type of attachment



HIT PRO STRENGTH WITH PROFILE

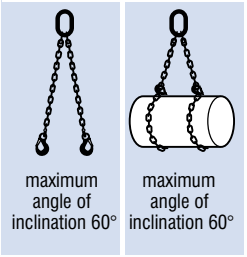


The dimensions can be found on page 166

Please always specify the reference number and effective length L_1 when ordering!

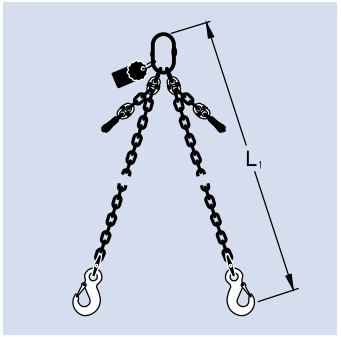
WLL kg				Nominal size of chain mm	Dimensions of the masterlink mm	Reference no.
0–45°	45–60°	0–45°	45–60°			
3350	2360	2650	1900	7	160×95	229335
4250	3000	3350	2360	8	160×95	229336
7100	5000	5600	4000	10	190×110	229337
11200	8000	9000	6300	13	230×130	229338

WLL according to type of attachment



Chain sling, 2-leg, adjustable with sling hook HSWP Grade 120

HIT PRO STRENGTH WITH PROFILE

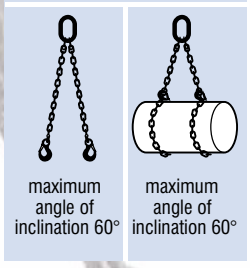


The dimensions can be found on page 165/166

Please always specify the reference number and effective length L_1 when ordering!

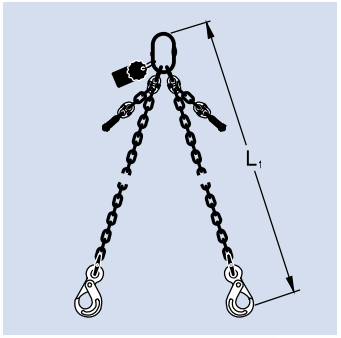
WLL kg				Nominal size of chain mm	Dimensions of the masterlink mm	Reference no.
0–45°	45–60°	0–45°	45–60°			
3350	2360	2650	1900	7	160×95	229347
4250	3000	3350	2360	8	160×95	229348
7100	5000	5600	4000	10	190×110	229349
11200	8000	9000	6300	13	230×130	229350

WLL according to type of attachment



Chain sling, 2-leg, adjustable with safety hook LHWP Grade 120

HIT PRO STRENGTH WITH PROFILE



The dimensions can be found on page 166

Please always specify the reference number and effective length L_1 when ordering!

WLL kg				Nominal size of chain mm	Dimensions of the masterlink mm	Reference no.
0–45°	45–60°	0–45°	45–60°			
3350	2360	2650	1900	7	160×95	229351
4250	3000	3350	2360	8	160×95	229352
7100	5000	5600	4000	10	190×110	229353
11200	8000	9000	6300	13	230×130	229354

HIT PRO
for you with proven super corrosion protection ***XLL*** *(e**X**tremly-**L**ong-**L**ife) in black*

E**X**tremely convincing reasons! Additional value with the new super corrosion prevention from Pfeifer **XLL** (e**X**tremely **L**ong **L**ife)

- **TOP corrosion resistance in salt spray testing acc. to DIN 50021.** = greater durability than previously, even in comparison with powder-coated chains!
- **TOP adhesive strength as specified in cross-cut test ISO 2409, DIN 53 151, ASTM 3002, ASTD 3359 (abrasion resistance of coating, impact strength etc.)** = no problem of abrasion or flaking (as with powder coating) resulting in troublesome paint particles e. g. on machines!
- **TOP suitability for electromagnetic crack detection ("fluxing") due to thin coating layer** = greater safety than painted or powder-coated chains.
- **TOP ease of identifying the grade stamps W or 10 due to thin coating**
- **TOP appearance**
- **TOP values/UV resistance – outdoor weathering test**
- **TOP environmental compatibility**

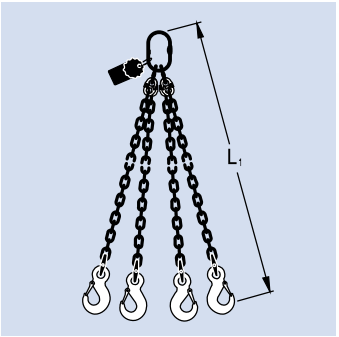
WLL according to type of attachment

maximum angle of inclination 60°

Chain sling, 4-leg with sling hook HSWP Grade 120

HIT PRO STRENGTH WITH PROFILE

CE



The dimensions can be found on page 165

Please always specify the reference number and effective length L_1 when ordering!

WLL kg		Nominal size of chain mm	Dimensions of the masterlink mm	Reference no.
0–45°	45–60°			
5000	3550	7	190×110	229355
6300	4500	8	190×110	229356
10600	7500	10	230×130	229357
17000	11800	13	275×150	229358

The specification of the working load limit for 4-leg suspension gears applies only in the case of symmetrical loading of all legs. In the case of asymmetrical load distribution, only two load-bearing legs may be counted in accordance with BGR 500, chapter 2.8/3.5.3.

A contribution to safety:
We identify our chain slings (in the case of delivery and BGR 500 test) with a tag showing the due date of the next test so that you do not miss any of these legally prescribed dates. Further information on our inspection service is given on pages 208–209.

HIT PRO
for you with proven super corrosion protection **XLL** (e**X**tremely-**L**ong-**L**ife) in black

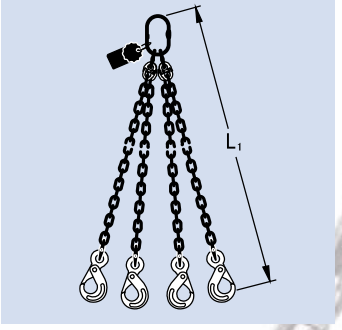
WLL according to type of attachment

maximum angle of inclination 60°

Chain sling, 4-leg with safety hook LHWP Grade 120

HIT PRO STRENGTH WITH PROFILE

CE



The dimensions can be found on page 166

Please always specify the reference number and effective length L_1 when ordering!

WLL kg		Nominal size of chain mm	Dimensions of the masterlink mm	Reference no.
0–45°	45–60°			
5000	3550	7	190×110	229359
6300	4500	8	190×110	229360
10600	7500	10	230×130	229361
17000	11800	13	275×150	229362

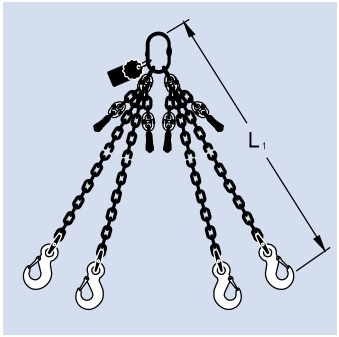
The specification of the working load limit for 4-leg suspension gears applies only in the case of symmetrical loading of all legs. In the case of asymmetrical load distribution, only two load-bearing legs may be counted in accordance with BGR 500, chapter 2.8/3.5.3.

WLL according to type of attachment

maximum angle of inclination 60°

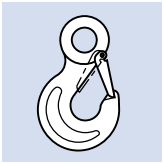
Chain sling, 4-leg, adjustable with sling hook HSWP Grade 120

HIT PRO STRENGTH WITH PROFILE



The dimensions can be found on page 165/166

Please always specify the reference number and effective length L_1 when ordering!



WLL kg		Nominal size of chain mm	Dimensions of the masterlink mm	Reference no.
0–45°	45–60°			
5000	3550	7	190×110	229363
6300	4500	8	190×110	229364
10600	7500	10	230×130	229365
17000	11800	13	275×150	229366

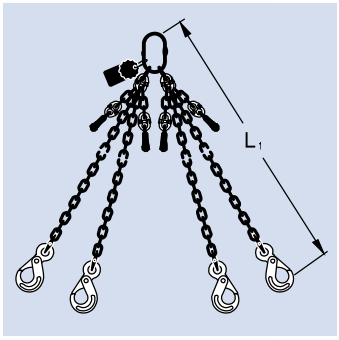
The specification of the working load limit for 4-leg suspension gears applies only in the case of symmetrical loading of all legs. In the case of asymmetrical load distribution, only two load-bearing legs may be counted in accordance with BGR 500, chapter 2.8/3.5.3.

WLL according to type of attachment

maximum angle of inclination 60°

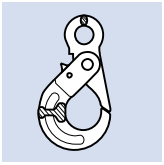
Chain sling, 4-leg, adjustable with safety hook LHWP Grade 120

HIT PRO STRENGTH WITH PROFILE



The dimensions can be found on page 166

Please always specify the reference number and effective length L_1 when ordering!



WLL kg		Nominal size of chain mm	Dimensions of the masterlink mm	Reference no.
0–45°	45–60°			
5000	3550	7	190×110	229367
6300	4500	8	190×110	229368
10600	7500	10	230×130	229369
17000	11800	13	275×150	229370

The specification of the working load limit for 4-leg suspension gears applies only in the case of symmetrical loading of all legs. In the case of asymmetrical load distribution, only two load-bearing legs may be counted in accordance with BGR 500, chapter 2.8/3.5.3.

HIT PRO for you with proven super corrosion protection ***XLL*** (e***X***tremly-***L***ong-***L***ife) in black

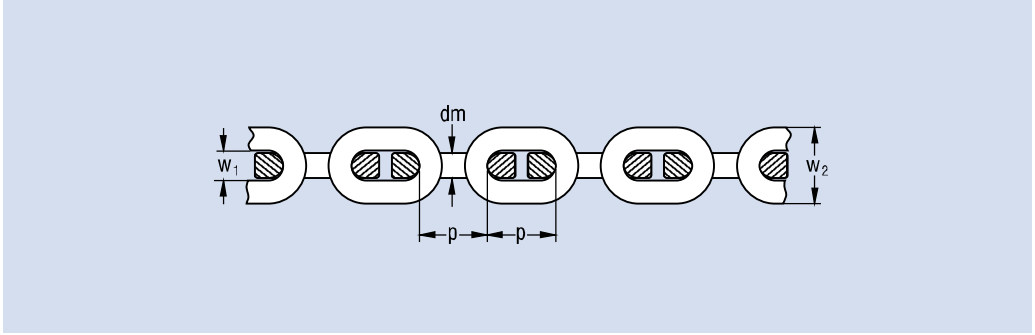
E**X**tremely convincing reasons! Additional value with the new super corrosion prevention from Pfeifer **XLL** (e**X**tremely **L**ong **L**ife)

- **TOP corrosion resistance in salt spray testing acc. to DIN 50021.** = greater durability than previously, even in comparison with powder-coated chains!
- **TOP adhesive strength as specified in cross-cut test ISO 2409, DIN 53 151, ASTM 3002, ASTD 3359 (abrasion resistance of coating, impact strength etc.)** = no problem of abrasion or flaking (as with powder coating) resulting in troublesome paint particles e. g. on machines!
- **TOP suitability for electromagnetic crack detection ("fluxing") due to thin coating layer** = greater safety than painted or powder-coated chains.
- **TOP ease of identifying the grade stamps W or 10 due to thin coating**
- **TOP appearance**
- **TOP values/UV resistance – outdoor weathering test**
- **TOP environmental compatibility**

Chain components
HIT PRO grade 120

Profile chain
HIT PRO 7–13 mm
Grade 120

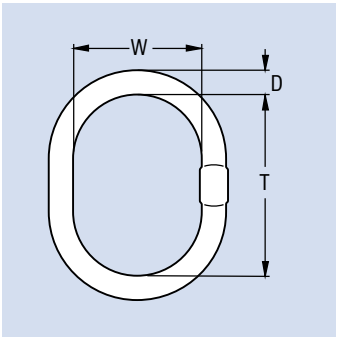
Grade 120 to PAS 1061 (with modifications)
with PFEIFER XLL coating



For nominal size of chain mm	WLL kg	Weight kg/m	Dimensions in mm				Reference no.
			d_m	p	W_1 min.	W_2 max.	
7	**2360**	1.28	7	22	10	26	**229120**
8	**3000**	1.64	8	25	11	29	**229121**
10	**5000**	2.66	10	33	14	37	**229122**
13	**8000**	4.59	13	41	19	50	**229123**

Master link, 1-leg chain sling
Grade 120

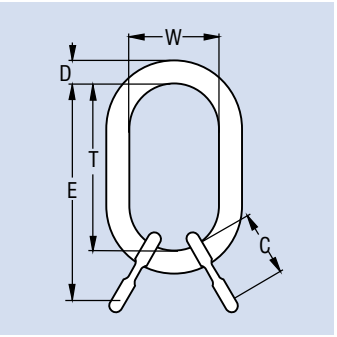
Can also be used as an end link for looping around a load.



For nominal size of chain mm 1-leg	WLL kg NW 0–45°	For crane hooks DIN 15401	Weight kg	Dimensions in mm			Reference no.
				D	T	W	
7	**2360**	up to no. 4	0.44	14	120	70	**228947**
8	**3200**	up to no. 5	0.67	17	140	80	**228948**
10	**5000**	up to no. 6	1.21	19	160	95	**228949**
13	**10100**	up to no. 10	2.65	27	190	110	**228950**

The working load limit specification refers to the maximum working load limit of the component. Please refer to the working load limit table for the working load limits of chain suspension gear.

VMWP master link
for 2-, 3- and 4-leg chain sling
Grade 120

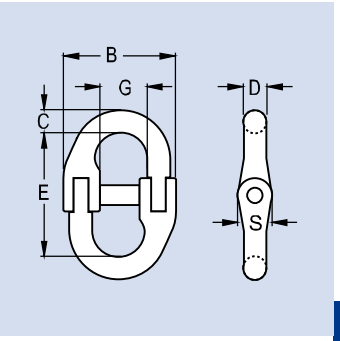


For nominal size of chain mm		WLL kg NW 0–45°	For crane hooks DIN 15401	Weight kg	Dimensions in mm					Reference no.
2-leg	3- and 4-leg				C	D	T	W	E	
7	—	**4250**	up to no. 6	1.55	54	19	160	95	214	**228951**
8	—	**4250**	up to no. 6	1.55	54	19	160	95	214	**243286**
10	**7**	**8800**	up to no. 10	3.37	70	27	190	110	260	**243287**
10	**8**	**8800**	up to no. 10	3.37	70	27	190	110	260	**228952**
13	**10**	**12300**	up to no. 12	6.00	85	33	230	130	315	**228953**
—	**13**	**21200**	up to no. 25	11.12	140	38	275	150	415	**228954**

The working load limit specification refers to the maximum working load limit of the component. Please refer to the working load limit table for the working load limits of chain suspension gears.

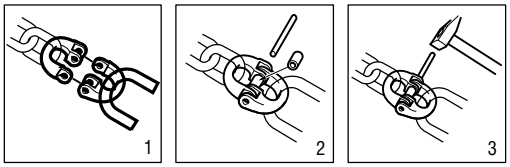
Connecting link CWP
Grade 120

For connecting the chain to master links and other accessories



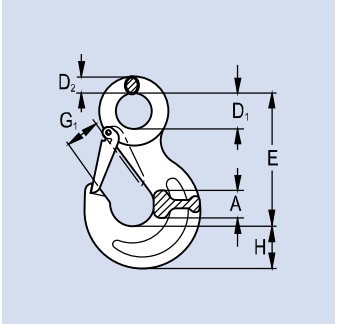
For nominal size of chain mm	WLL kg	Weight kg	Dimensions in mm						Reference no.
			B	C	D	E	G	S	
7	**2360**	0.12	47	11	9	51	16	14	**228955**
8	**3000**	0.26	57	12	11	58	21	16	**228956**
10	**5000**	0.33	66	16	13	70	22	20	**228957**
13	**8000**	0.70	84	21	17	95	26	24	**228958**

Mounting

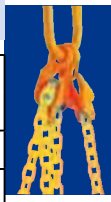


Eye sling hook HSWP
Grade 120

Standard sling hook with replaceable, forged safety latch.



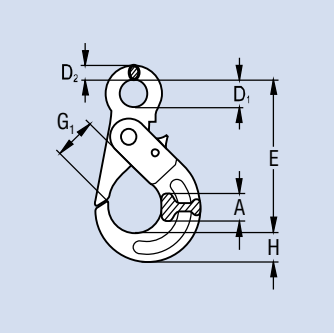
For nominal size of chain mm	WLL kg	Weight kg	Dimensions in mm							Reference no.
			A	A	D_1	D_2	E	G_1	H	
7	**3000**	0.5	19	19	25	11	106	26	27	**243288**
8	**3000**	0.5	19	19	25	11	106	26	27	**228959**
10	**5000**	1.1	26	26	34	16	131	31	33	**228960**
13	**8000**	2.2	33	33	43	19	164	39	43	**228961**



Safety hook LHWP

Grade 120

Closes and locks automatically upon raising the load.
With lock release on the back of the hook.

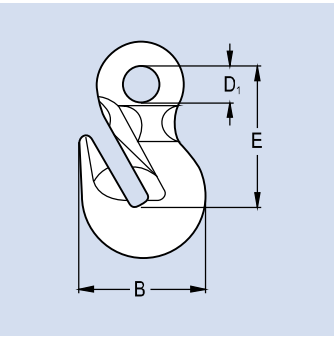


For nominal size of chain mm	WLL kg	Weight kg	Dimensions in mm							Reference no.
			A	A	D_1	D_2	E	G_1	H	
7	**3000**	0.9	24	24	25	14	126	34	25	**243289**
8	**3000**	0.9	24	24	25	14	126	34	25	**228962**
10	**5000**	1.6	28	28	31	17	158	45	31	**228963**
13	**8000**	3.3	34	34	40	22	205	54	41	**228964**

Grab hook PWP

Grade 120

For shortening and for loops that must not tighten themselves.
It can be used as a chain shortener with full working load limit due to its special shape.

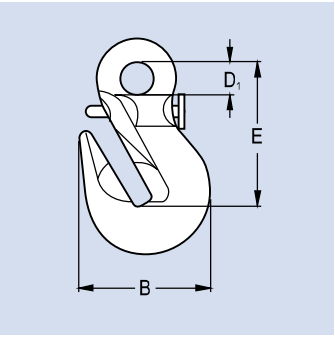


For nominal size of chain mm	WLL kg	Weight kg	Dimensions in mm			Reference no.
			B	D_1	E	
7	**3000**	0.48	63	18	68	**243290**
8	**3000**	0.48	63	18	68	**228965**
10	**5000**	1.03	81	22	88	**228966**
13	**8000**	2.10	103	26	110	**228967**

Grab hook with safety latch PSWP

Grade 120

Shortening hook with safety latch to prevent unintentional unhooking of the chain.
It can be used as a chain shortener with full working load limit due to its special shape.



For nominal size of chain mm	WLL kg	Weight kg	Dimensions in mm			Reference no.
			B	D_1	E	
7	**3000**	0.48	63	18	68	**243291**
8	**3000**	0.48	63	18	68	**228968**
10	**5000**	1.03	81	22	88	**228969**
13	**8000**	2.10	103	26	110	**228970**

Safety latch for eye sling hook Type HSWP

Grade 120

Forged safety latch with spiral pin and spring.
For simple replacement in the case of damage or wear.

For nominal size of chain mm	Weight kg	Reference no.
7	0.05	**243292**
8	0.05	**228975**
10	0.05	**228976**
13	0.05	**228977**

Safety latch for safety hook
Type LHWP
Grade 120

For simple replacement in the case of damage or wear.

For nominal size of chain mm	Reference no.
7	243293
8	228978
10	228979
13	228980

Bolt set for connecting link
Type CWP
Grade 120

Spare part for connecting link, grade 120
incl. safety socket

For nominal size of chain mm	Reference no.
7	228971
8	228972
10	228973
13	228974

Safety latch for grab hook, complete
Type PSWP
Grade 120

For simple replacement in the case of damage or wear.

For nominal size of chain mm	Reference no.
7	243294
8	228981
10	228982
13	228983

Quality tag for chain slings, 1 or more legs, grade 120

Reference no.
228984

Quality inspection tag

Complete with mounting ring

A contribution to safety.
We identify our chain slings (in the case of delivery and BGR 500 test) with a tag showing the due date of the next test, so that you do not miss any of these legally prescribed dates.

Reference no.
146148

Mounting ring for quality tags and quality inspection tags

Reference no.
136896

Chain slings HIT grade 100

General information and working load limits

6 to 22 mm HIT HIGH WORKING LOAD LIMIT

Chain slings of grade 100 with greater nominal chain thicknesses on request

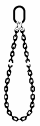
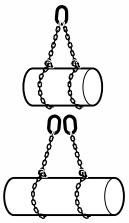
Nominal thickness 6–22 mm grade 100 acc. to PAS 1061

new!

- **Min. 25 % greater working load limit than grade 80 enables change to smaller chain dimensions**
- Giving **cost saving** (up to 30 %) and **weight saving** (up to 50 %)
- **Longer lifetime** due to greater strength
- **Components:** grade stamp “10” and powder coating, special colour orange
- **Chain:** grade stamp “10”
- **Chains and components** as specified in EN 818 and DIN 1677 with higher working load limit
- **Identification mark** on chain identification tag as specified in EN 818
- Use in temperature range from –40 °C to +200 °C at 100 % working load limit
- For sharp edges (radius smaller than nominal chain thickness) we recommend reducing the working load limit of the chain in the selected type of attachment by 50 %

Quality tag according to EN 818
Chain slings of grade 100 are identified by a ten-sided tag on which the number of legs, the nominal chain thickness and the working load limit are specified.

Working load limit table for PFEIFER chain slings

Nominal chain thickness mm													
			up to 6°	up to 45°		up to 45°	45°–60°	up to 45°	45°–60°	up to 45°	45°–60°	up to 45°	45°–60°
						①	① + ②	①	① + ②	①	① + ②		②
6	1.40	1.12	2.80	2.00	2.24	2.00	1.40	1.60	1.12	3.00	2.12	4.00	2.80
8	2.50	2.00	5.00	3.55	4.00	3.55	2.50	2.80	2.00	5.30	3.75	7.10	5.00
10	4.00	3.15	8.00	5.60	6.30	5.60	4.00	4.25	3.15	8.00	6.00	11.20	8.00
13	6.70	5.30	13.20	9.50	10.60	9.50	6.70	7.50	5.30	14.00	10.00	19.00	13.20
16	10.00	8.00	20.00	14.00	16.00	14.00	10.00	11.20	8.00	21.20	15.00	28.00	20.00
19	14;00	11.20	28.00	20.00	22.40	20.00	14.00	16.00	11.20	30.00	21.20	40.00	28.00
22	19;00	15.00	37.50	26.50	30.00	26.50	19.00	21.20	15.00	40.00	28.00	53.00	37.50

The working load limit data (in tonnes) correspond to the use of the chain slings under **normal conditions** (symmetrical loading of all legs).
① If the **load is distributed asymmetrically:**
- only **one leg** may be assumed to be bearing the load in the case of 2-leg suspension gears (see single-leg suspension gear)
- only **two load-bearing legs** may be counted in the case of 3/4-leg suspension gears according to BGR 500, chapters 2.8/3.5.3 (see 2-leg suspension gear).

② When using 2 suspensions devices on one crane hook, the angle of inclination of the attachment devices may not exceed 45°.

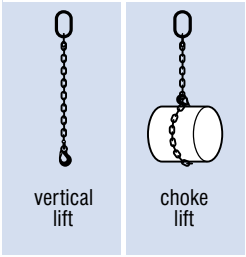
Additional factors which reduce working load limit such as sharp edges etc. must be taken into account in accordance with the regulations in EN 818.

Inspection:
The test specifications applicable in each country must be complied with.

Application temperature range:

Chain slings grade 100 HIT in accordance with PAS 1061:
100 % working load limit between –40 °C and +200 °C
The criteria for discarding time for chains are also specified in EN 818.

WLL according to type of attachment

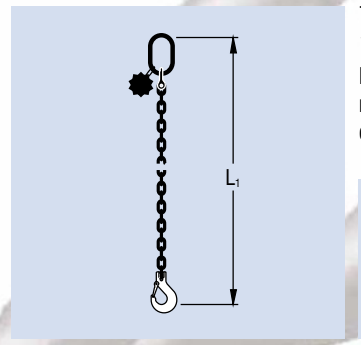


Chain sling, 1-leg with clevis sling hook

Grade 100

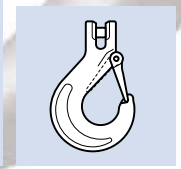
6 to 22 mm HIT HIGH WORKING LOAD LIMIT

CE



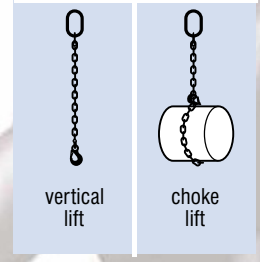
The dimensions can be found on page 183

Please always specify the reference number and effective length L_1 when ordering!



WLL kg		Nominal size of chain mm	Dimensions of the masterlink mm	Reference no.
1400	1120	6	110×60	207004
2500	2000	8	110×60	207005
4000	3150	10	135×75	207006
6700	5300	13	160×90	207007
10000	8000	16	180×100	207008
14000	11200	19	260×140	231816
19000	15000	22	300×160	207010

WLL according to type of attachment



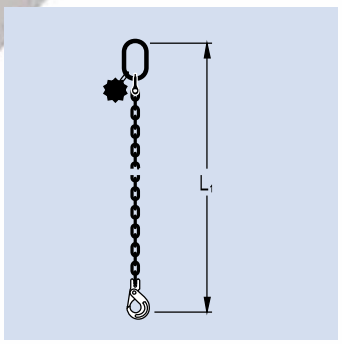
Chain sling, 1-leg with clevis safety hook

Grade 100

Hook closes and locks automatically upon raising the load.

6 to 22 mm HIT HIGH WORKING LOAD LIMIT

CE

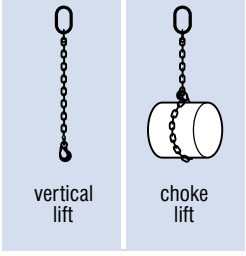


The dimensions can be found on page 183

Please always specify the reference number and effective length L_1 when ordering!

WLL kg		Nominal size of chain mm	Dimensions of the masterlink mm	Reference no.
1400	1120	6	110×60	207011
2500	2000	8	110×60	207012
4000	3150	10	135×75	207013
6700	5300	13	160×90	207014
10000	8000	16	180×100	207015
14000	11200	19	260×140	231815
19000	15000	22	300×160	207017

WLL according to type of attachment

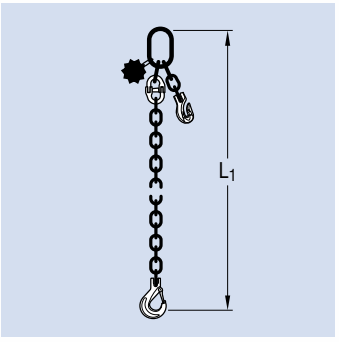


Chain sling, 1-leg, adjustable with clevis sling hook

Grade 100

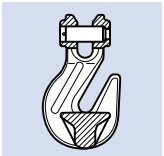
6 to 22 mm HIT HIGH WORKING LOAD LIMIT

CE



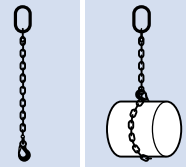
The dimensions can be found on page 183/182

Please always specify the reference number and effective length L_1 when ordering!



WLL kg		Nominal size of chain mm	Dimensions of the masterlink mm	Reference no.
1400	1120	6	110×60	207018
2500	2000	8	110×60	207019
4000	3150	10	135×75	207020
6700	5300	13	160×90	207021
10000	8000	16	180×100	207022
14000	11200	19	260×140	231817
19000	15000	22	300×160	207024

WLL according to type of attachment

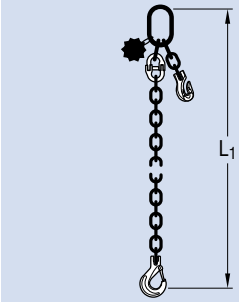


vertical lift | choke lift

Chain sling, 1-leg, adjustable with clevis safety hook

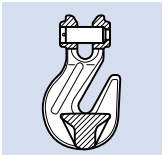
Grade 100
Hook closes and locks automatically upon raising the load.

6 to 22 mm HIT HIGH WORKING LOAD LIMIT CE



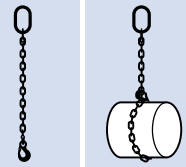
The dimensions can be found on page 183/182

Please always specify the reference number and effective length L_1 when ordering!



WLL kg		Nominal size of chain mm	Dimensions of the masterlink mm	Reference no.
1400	1120	6	110×60	207026
2500	2000	8	110×60	207027
4000	3150	10	135×75	207028
6700	5300	13	160×90	207029
10000	8000	16	180×100	207030
14000	11200	19	260×140	231818
19000	15000	22	300×160	207032

WLL according to type of attachment

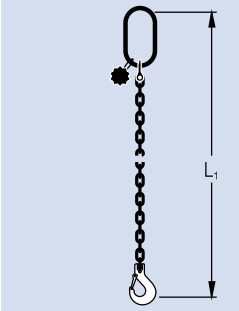


vertical lift | choke lift

Chain sling, 1-leg with oversized master link and clevis sling hook

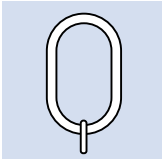
Grade 100
Specially for large crane hooks

6 to 22 mm HIT HIGH WORKING LOAD LIMIT CE



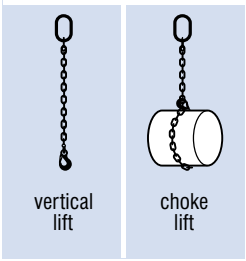
The dimensions can be found on page 183

Please always specify the reference number and effective length L_1 when ordering!



WLL kg		Nominal size of chain mm	Dimensions of the masterlink mm	Reference no.
2500	2000	8	340×180	231869
4000	3150	10	340×180	231870
6700	5300	13	340×180	231871
10000	8000	16	340×180	231872
14000	11200	19	340×180	231873
19000	15000	22	340×180	231874

WLL according to type of attachment



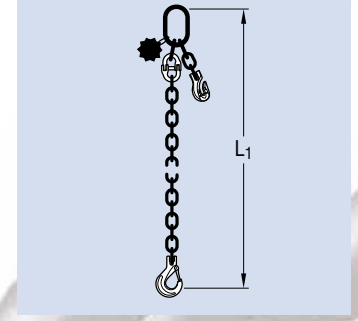
Chain sling, 1-leg, adjustable with oversized master link and clevis sling hook

Grade 100

Specially for large crane hooks

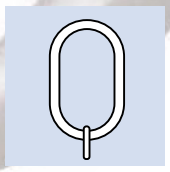
6 to 22 mm HIT HIGH WORKING LOAD LIMIT

CE



The dimensions can be found on page 183

Please always specify the reference number and effective length L_1 when ordering!



WLL kg		Nominal size of chain mm	Dimensions of the masterlink mm	Reference no.
1400	1120	6	340×180	231875
2500	2000	8	340×180	231876
4000	3150	10	340×180	231877
6700	5300	13	340×180	231878
10000	8000	16	340×180	231879

WLL according to type of attachment

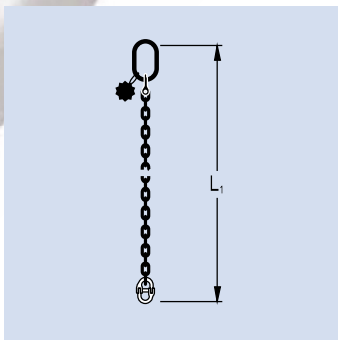
Chain sling, 1-leg with connecting link

Grade 100

For connecting the chain to master links and other accessories

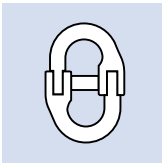
6 to 22 mm HIT HIGH WORKING LOAD LIMIT

CE



The dimensions can be found on page 182

Please always specify the reference number and effective length L_1 when ordering!



WLL kg		Nominal size of chain mm	Dimensions of the masterlink mm	Reference no.
1400	1120	6	110×60	231822
2500	2000	8	110×60	231823
4000	3150	10	135×75	231824
6700	5300	13	160×90	231825
10000	8000	16	180×100	231826
14000	11200	19	260×140	231827
19000	15000	22	300×160	231828

WLL according to type of attachment

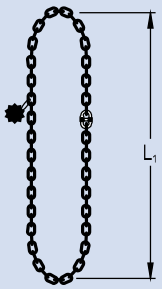
reeved sling

Endless chain sling with connecting link

Grade 100

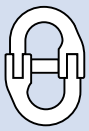
Caution: Connecting link may be only loaded axially.

6 to 22 mm HIT HIGH WORKING LOAD LIMIT CE



The dimensions can be found on page 182

Please always specify the reference number and effective length L_1 when ordering!



WLL kg	Nominal size of chain mm	Reference no.
2240	6	207103
4000	8	207104
6300	10	207105
10600	13	207106
16000	16	207107
22400	19	231820
30000	22	207109

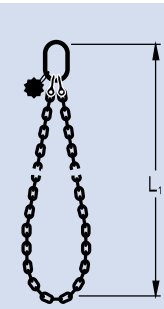
WLL according to type of attachment

reeved sling

Endless chain sling with master link

Grade 100

6 to 22 mm HIT HIGH WORKING LOAD LIMIT CE



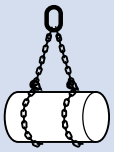
The dimensions can be found on page 181

Please always specify the reference number and effective length L_1 when ordering!

WLL kg	Nominal size of chain mm	Dimensions of the masterlink mm	Reference no.
2000	6	110×60	207110
3550	8	135×75	207111
5600	10	160×90	207112
9500	13	180×100	207113
14000	16	200×110	207114
22400	19	260×140	231821
26500	22	340×180	207116

WLL according to type of attachment

maximum angle of inclination 60°



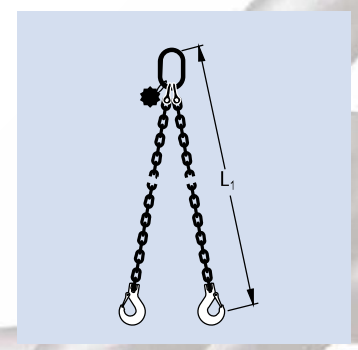
maximum angle of inclination 60°

Chain sling, 2-leg with clevis sling hook

Grade 100

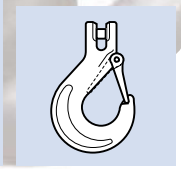
6 to 22 mm HIT HIGH WORKING LOAD LIMIT

CE



The dimensions can be found on page 183

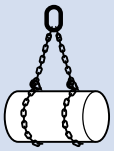
Please always specify the reference number and effective length L_1 when ordering!



WLL kg				Nominal size of chain mm	Dimensions of the masterlink mm	Reference no.
0–45°	45–60°	0–45°	45–60°			
2000	1400	1600	1120	6	110×60	207033
3550	2500	2800	2000	8	135×75	207034
5600	4000	4250	3150	10	160×90	207035
9500	6700	7500	5300	13	180×100	207036
14000	10000	11200	8000	16	200×110	207037
20000	14000	16000	11200	19	300×160	231956
26500	19000	21200	15000	22	340×180	207039

WLL according to type of attachment

maximum angle of inclination 60°



maximum angle of inclination 60°

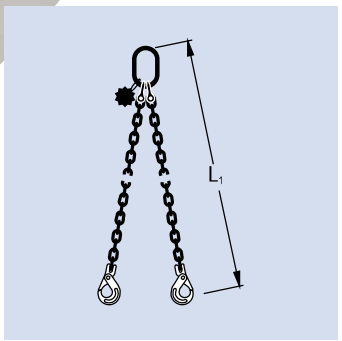
Chain sling, 2-leg with clevis safety hook

Grade 100

Hook closes and locks automatically upon raising the load.

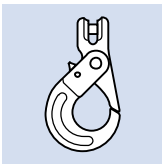
6 to 22 mm HIT HIGH WORKING LOAD LIMIT

CE



The dimensions can be found on page 183

Please always specify the reference number and effective length L_1 when ordering!

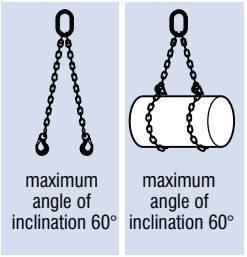


WLL kg				Nominal size of chain mm	Dimensions of the masterlink mm	Reference no.
0–45°	45–60°	0–45°	45–60°			
2000	1400	1600	1120	6	110×60	207040
3550	2500	2800	2000	8	135×75	207041
5600	4000	4250	3150	10	160×90	207042
9500	6700	7500	5300	13	180×100	207043
14000	10000	11200	8000	16	200×110	207044
20000	14000	16000	11200	19	300×160	231958
26500	19000	21200	15000	22	340×180	207046

Chain sling, 2-leg, adjustable with clevis sling hook

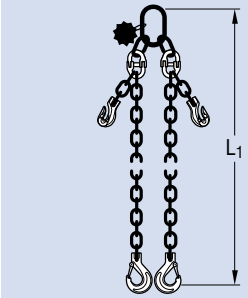
Grade 100

WLL according to type of attachment



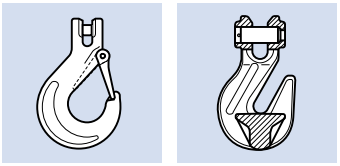
6 to 22 mm HIT HIGH WORKING LOAD LIMIT

CE



The dimensions can be found on page 183/182

Please always specify the reference number and effective length L_1 when ordering!



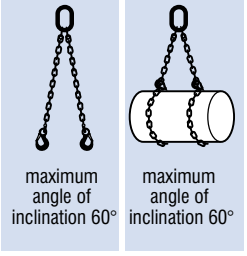
WLL kg				Nominal size of chain mm	Dimensions of the masterlink mm	Reference no.
0–45°	45–60°	0–45°	45–60°			
2000	1400	1600	1120	6	110×60	207047
3550	2500	2800	2000	8	135×75	207048
5600	4000	4250	3150	10	160×90	207049
9500	6700	7500	5300	13	180×100	207050
14000	10000	11200	8000	16	200×110	207051
20000	14000	16000	11200	19	300×160	231959
26500	19000	21200	15000	22	340×180	207053

Chain sling, 2-leg, adjustable with clevis safety hook

Grade 100

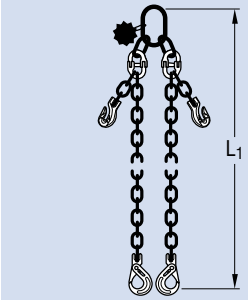
Hook closes and locks automatically upon raising the load.

WLL according to type of attachment



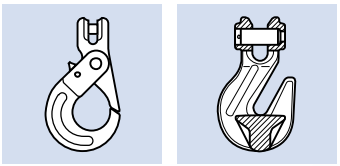
6 to 22 mm HIT HIGH WORKING LOAD LIMIT

CE



The dimensions can be found on page 183/182

Please always specify the reference number and effective length L_1 when ordering!



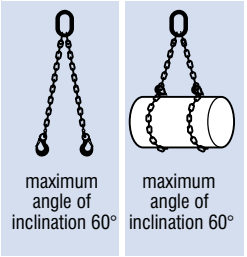
WLL kg				Nominal size of chain mm	Dimensions of the masterlink mm	Reference no.
0–45°	45–60°	0–45°	45–60°			
2000	1400	1600	1120	6	110×60	207054
3550	2500	2800	2000	8	135×75	207055
5600	4000	4250	3150	10	160×90	207056
9500	6700	7500	5300	13	180×100	207057
14000	10000	11200	8000	16	200×110	207058
20000	14000	16000	11200	19	300×160	231960
26500	19000	21200	15000	22	340×180	207060

Chain sling, 2-leg with oversized master link and clevis sling hook

Grade 100

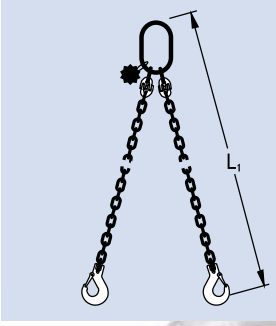
Specially for large crane hooks

WLL according to type of attachment



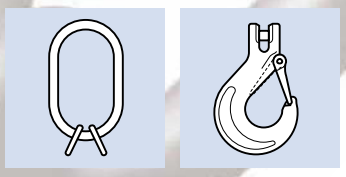
6 to 22 mm HIT HIGH WORKING LOAD LIMIT

CE



The dimensions can be found on page 183

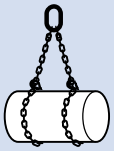
Please always specify the reference number and effective length L_1 when ordering!



WLL kg				Nominal size of chain mm	Dimensions of the masterlink mm	Reference no.
0–45°	45–60°	0–45°	45–60°			
3550	2500	2800	2000	8	340×180	231882
5600	4000	4250	3150	10	340×180	231883
9500	6700	7500	5300	13	340×180	231884
14000	10000	11200	8000	16	340×180	231885
20000	14000	16000	11200	19	340×180	231886

WLL according to type of attachment

maximum angle of inclination 60°



maximum angle of inclination 60°

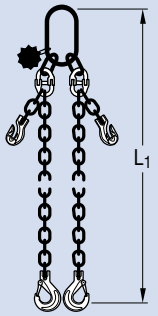
Chain sling, 2-leg, adjustable with oversized master link and clevis sling hook

Grade 100

Specially for large crane hooks

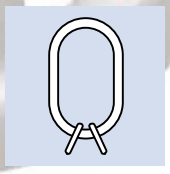
6 to 22 mm HIT HIGH WORKING LOAD LIMIT

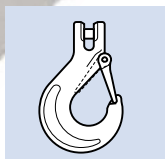
CE



The dimensions can be found on page 183

Please always specify the reference number and effective length L_1 when ordering!





WLL kg				Nominal size of chain mm	Dimensions of the masterlink mm	Reference no.
0–45°	45–60°	0–45°	45–60°			
2000	1400	1600	1120	6	340×180	231887
3550	2500	2800	2000	8	340×180	231888
5600	4000	4250	3150	10	340×180	231889
9500	6700	7500	5300	13	340×180	231890
14000	10000	11200	8000	16	340×180	231891

WLL according to type of attachment

maximum angle of inclination 60°

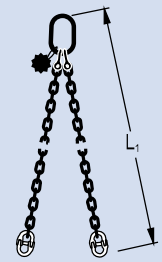
Chain sling, 2-leg with connecting link

Grade 100

For connecting the chain to master links and other accessories

6 to 22 mm HIT HIGH WORKING LOAD LIMIT

CE



The dimensions can be found on page 182

Please always specify the reference number and effective length L_1 when ordering!

WLL kg		Nominal size of chain mm	Dimensions of the masterlink mm	Reference no.
0–45°	45–60°			
2000	1400	6	110×60	231962
3550	2500	8	135×75	231963
5600	4000	10	160×90	231964
9500	6700	13	180×100	231965
14000	10000	16	200×110	231966
20000	14000	19	300×160	231967
26500	19000	22	340×180	231968

WLL according to type of attachment

maximum angle of inclination 60°

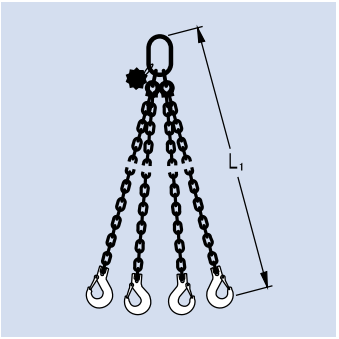
Chain sling, 4-leg with clevis sling hook

Grade 100

Hook closes and locks automatically upon raising the load.

6 to 22 mm HIT HIGH WORKING LOAD LIMIT

CE



The dimensions can be found on page 183

Please always specify the reference number and effective length L_1 when ordering!

WLL kg		Nominal size of chain mm	Dimensions of the masterlink mm	Reference no.
0–45°	45–60°			
3000	2120	6	135×75	207061
5300	3750	8	160×90	207062
8000	6000	10	180×100	207063
14000	10000	13	200×110	207064
21200	15000	16	260×140	207065
30000	21200	19	350×190	231971
40000	28000	22	350×190	207067

WLL according to type of attachment

maximum angle of inclination 60°

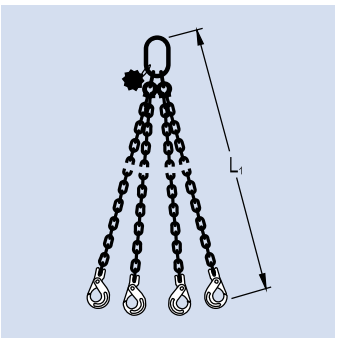
Chain sling, 4-leg with clevis safety hook

Grade 100

Hook closes and locks automatically upon raising the load.

6 to 22 mm HIT HIGH WORKING LOAD LIMIT

CE



The dimensions can be found on page 183

Please always specify the reference number and effective length L_1 when ordering!

WLL kg		Nominal size of chain mm	Dimensions of the masterlink mm	Reference no.
0–45°	45–60°			
3000	2120	6	135×75	207068
5300	3750	8	160×90	207069
8000	6000	10	180×100	207070
14000	10000	13	200×110	207071
21200	15000	16	260×140	207072
30000	21200	19	350×190	231972
40000	28000	22	350×190	207074

WLL according to type of attachment

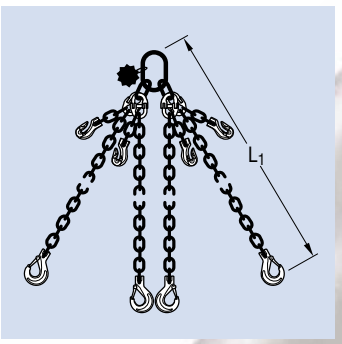
maximum angle of inclination 60°

Chain sling, 4-leg, adjustable with clevis sling hook

Grade 100

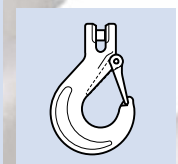
6 to 22 mm HIT HIGH WORKING LOAD LIMIT

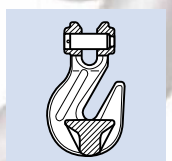
CE



The dimensions can be found on page 183/182

Please always specify the reference number and effective length L_1 when ordering!





WLL kg		Nominal size of chain mm	Dimensions of the masterlink mm	Reference no.
0–45°	45–60°			
3000	2120	6	135×75	207075
5300	3750	8	160×90	207076
8000	6000	10	180×100	207077
14000	10000	13	200×110	207078
21200	15000	16	260×140	207079
30000	21200	19	350×190	231974
40000	28000	22	350×190	207081

WLL according to type of attachment

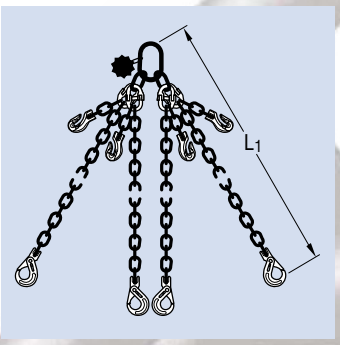
maximum angle of inclination 60°

Chain sling, 4-leg, adjustable with clevis safety hook

Grade 100
Hook closes and locks automatically upon raising the load.

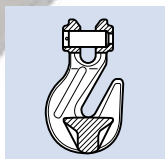
6 to 22 mm HIT HIGH WORKING LOAD LIMIT

CE



The dimensions can be found on page 183/182

Please always specify the reference number and effective length L_1 when ordering!



WLL kg		Nominal size of chain mm	Dimensions of the masterlink mm	Reference no.
0–45°	45–60°			
3000	2120	6	135×75	207082
5300	3750	8	160×90	207083
8000	6000	10	180×100	207084
14000	10000	13	200×110	207085
21200	15000	16	260×140	207086
30000	21200	19	350×190	231975
40000	28000	22	350×190	207088

WLL according to type of attachment

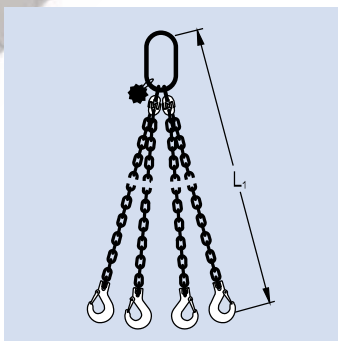
maximum angle of inclination 60°

Chain sling, 4-leg with oversized master link and clevis sling hook

Grade 100
Specially for large crane hooks

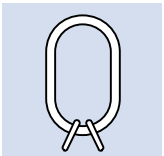
6 to 22 mm HIT HIGH WORKING LOAD LIMIT

CE



The dimensions can be found on page 183

Please always specify the reference number and effective length L_1 when ordering!



WLL kg		Nominal size of chain mm	Dimensions of the masterlink mm	Reference no.
0–45°	45–60°			
3000	2120	6	135×75	231892
5300	3750	8	160×90	231893
8000	6000	10	180×100	231894
14000	10000	13	200×110	231895
21200	15000	16	260×140	231897

WLL
according to type
of attachment

maximum angle
of inclination 60°

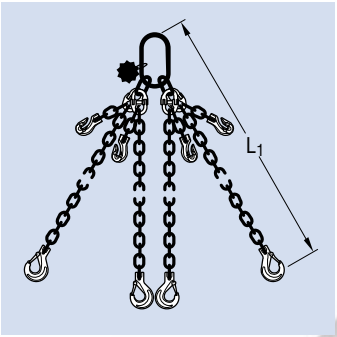
Chain sling, 4-leg, adjustable with oversized master link and clevis sling hook

Grade 100

Specially for large crane hooks

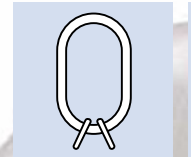
6 to 22 mm HIT HIGH WORKING LOAD LIMIT

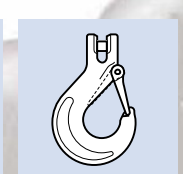
CE



The dimensions can be found on page 183

Please always specify the reference number and effective length L_1 when ordering!





WLL kg		Nominal size of chain mm	Dimensions of the masterlink mm	Reference no.
0–45°	45–60°			
3000	2120	6	135×75	231898
5300	3750	8	160×90	231899
8000	6000	10	180×100	231900
14000	10000	13	200×110	231901
21200	1500	16	260×140	231902

WLL
according to type
of attachment

maximum angle
of inclination 60°

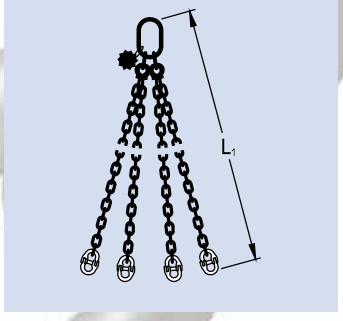
Chain sling, 4-leg with connecting link

Grade 100

For connecting the chain to master links and other accessories

6 to 22 mm HIT HIGH WORKING LOAD LIMIT

CE



The dimensions can be found on page 182

Please always specify the reference number and effective length L_1 when ordering!

WLL kg		Nominal size of chain mm	Dimensions of the masterlink mm	Reference no.
0–45°	45–60°			
3000	2120	6	135×75	231982
5300	3750	8	160×90	231983
8000	6000	10	180×100	231984
14000	10000	13	200×110	231986
21200	15000	16	260×140	231987
30000	21200	19	350×190	231988
40000	28000	22	350×190	231989

Load distributor

Our load distributor provides higher working load limit for the same nominal size of rope or chain

An investment worth its price

Example:
Based on the example of a 4-leg chain suspension of grade 100 (nominal chain size 10 mm, angle of inclination 0–45°) we will demonstrate how you can double the working load limit of your chain.

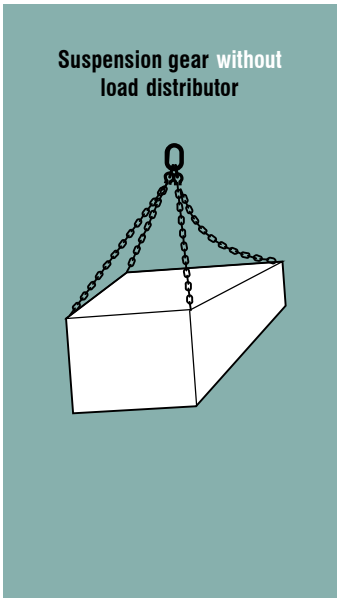
With a theoretically symmetrical load distribution and equal leg length, all 4 legs can be load-bearing. The EN standards regard the 3 and 4 leg suspension gear as equivalent. This gives a working load limit of

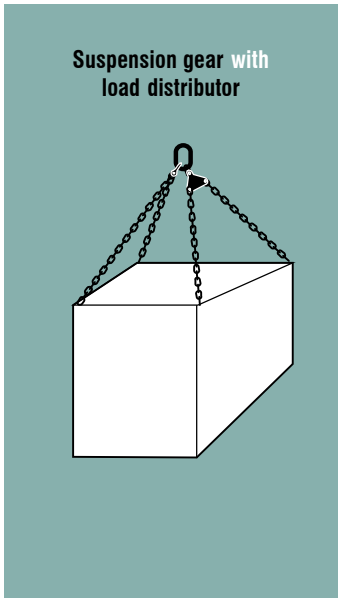
8,000 kg

for suspension gear with 10 mm nominal size of chain

With a less exact distribution of lifting points or permitted leg length tolerances, **only 2 diagonally-opposite legs** carry the load (tilting or swinging of the load on the diagonals) BGR 500 Chapter 2.8/3.5.3. This reduces the working load limit of the 10 mm chain suspension gear to

5,600 kg





By using a **load distributor**, small inaccuracies which occur in practice in the arrangement of the lifting points and permitted length tolerances in the legs can be balanced out. Therefore all 4 legs in the balancing area of the load distributor carry the load. This achieves a working load limit of

11,200 kg

using one and the same suspension gear.

Chain slings

WLL according to type of attachment

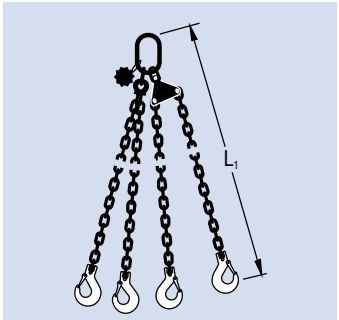
maximum angle of inclination 60°

Chain sling, 4-leg, adjustable and load distributor, with clevis sling hook

Grade 100

6 to 22 mm HIT HIGH WORKING LOAD LIMIT

CE



The dimensions can be found on page 165

Please always specify the reference number and effective length L_1 when ordering!

WLL kg		Nominal size of chain mm	Dimensions of the masterlink mm	Reference no.
0–45°	45–60°			
4000	2800	6	160×90	231991
7100	5000	8	180×100	231992
11200	8000	10	200×110	231993
18000	13200	13	260×140	231994
28000	20000	16	350×190	231995
40000	28000	19	350×190	231996
53000	35700	22	400×200	231997

Chain components
Grade 100

6 to 22 mm HIT H HIGH WORKING LOAD LIMIT

- Chain and components programme
- 25 % higher working load limit than grade 80 enables change to smaller chain dimensions.
- This brings enormous cost and weight savings
- Long service life due to higher strength
- Components grade 100 complying with EN copmonents grade 100 acc. to 1677 with higher working load limits, powder-coated
- Chain grade 100 complying with EN 818 with higher working load limit, but temperature resistance is limited to 200 °C
- Identification mark and chain identification tag complying with EN 818. Chain is marked with identification number (10 years traceability)
- For use in temperature range from –40 °C to 200 °C with 100 % working load limit (for use at temperatures outside this range, please consult PFEIFER)
- For sharp edges (radius smaller than nominal size of chain) we recommend reducing the working load limit of the chain in the selected type of attachment by 50 %.
- Quality-assured European production by manufacturer certified acc. to ISO 9001

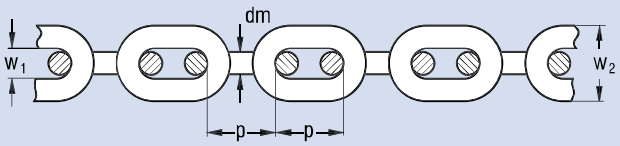
Further versions available as standard

Identification according to EN 818
Chain slings of grade 100 are identified by a ten-sided tag, on which the number of legs, the nominal size of chain and the working load limit for angles of inclination 0 – 45° and 45 – 60° are specified.

Round steel chain HIT 6 – 22 mm Grade 100

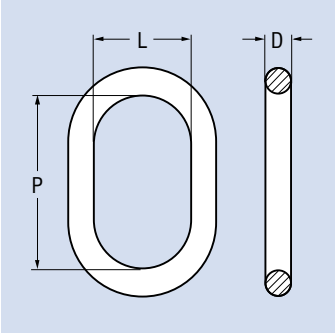
Complying with EN 818 Part 1,2 with 25 % higher working load limit, but with restricted operating temperature of –40 °C to 200 °C.
Painted version.

6 to 22 mm HIT H HIGH WORKING LOAD LIMIT



WLL kg	Nominal chain thickness mm	Weight ktg/m	Dimensions in mm			Reference no.
			p	W_1 min	W_2 max	
1400	6	0.9	18	8.7	22.2	207671
2500	8	1.6	24	10.9	28.8	207672
4000	10	2.5	30	13.5	36.0	207673
6700	13	4.2	39	17.5	46.8	207674
10000	16	6.2	48	21.5	57.6	207675
14000	19	8.9	57	26.6	69.4	212102
19000	22	11.9	66	29.5	79.2	207678

For round steel chains with temperature resistance of –40 °C to 400 °C, please consult Pfeifer.



Master link
for 1- and 2-leg chain slings

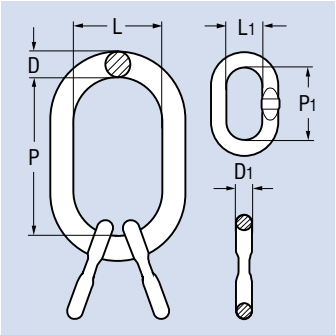
6 to 22 mm HIT HIGH WORKING LOAD LIMIT

Grade 100

Can also be used as end link.

For nominal size of chain mm		WLL kg NW 0–45°	Weight kg	Dimensions in mm			Reference no.
1-strängig	2-leg			D	L	P	
6	**6**	**2000**	0.340	13	60	110	**207655**
8	—	**2500**	0.530	16	60	110	**207656**
10	**8**	**4000**	0.915	18	75	135	**207657**
13	**10**	**6700**	1.600	22	90	160	**207658**
16	**13**	**10000**	2.460	26	100	180	**207659**
—	**16**	**14000**	4.140	32	110	200	**207660**
20	—	**17500**	6.220	36	140	260	**207661**
22	**20**	**22400**	8.950	40	160	300	**207662**
—	**22**	**26600**	12.820	45	180	340	**207663**

The working load limit specification refers to the maximum working load limit of the component. Please refer to the working load limit table for the working load limits of chain suspension gears.



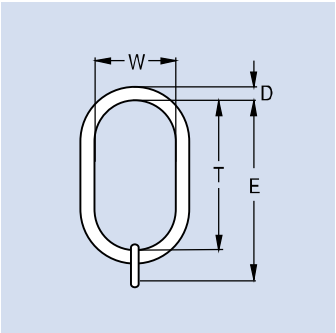
Master link with intermediate links
for 3 and 4-leg chain slings

6 to 22 mm HIT HIGH WORKING LOAD LIMIT

Grade 100

For nominal size of chain mm	WLL kg	Weight kg	Dimensions in mm						Reference no.
			D	D_1	L	L_1	P	P1	
6	**4000**	1.315	18	13	75	25	135	54	**207664**
8	**5300**	2.320	22	16	90	34	160	70	**207665**
10	**8000**	3.520	26	18	100	40	180	85	**207666**
13	**14000**	6.260	32	22	110	50	200	115	**207667**
16	**21200**	9.560	36	26	140	65	260	140	**207668**
20	**33600**	22.650	50	33	190	70	350	150	**207669**
22	**39900**	25.190	50	36	190	75	350	170	**207670**

The working load limit specification refers to the maximum working load limit of the component. Please refer to the working load limit table for the working load limits of chain suspension gears.



Oversized master link
for 1-leg chain sling

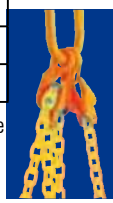
Grade 100

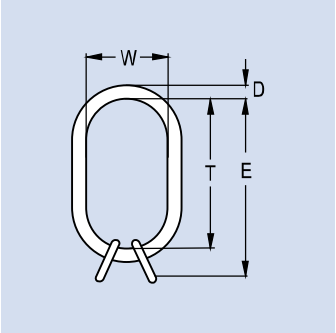
6 to 22 mm HIT HIGH WORKING LOAD LIMIT

Connection to the chain with CW link.

ND 6/8/10 mm with transition link, ND 13 and 16 mm without transition link.

For nominal size of chain mm	WLL kg	For crane hooks DIN 15401	Weight kg	Dimensions in mm				Reference no.
				D	E	T	W	
6	**2500**	up to no. 25	3,4	22	394	340	180	**218099**
8	**2500**	up to no. 25	3,4	22	394	340	180	**215403**
10	**4000**	up to no. 25	4,8	27	410	340	180	**161036**
13	**6700**	up to no. 25	4,4	27	340	340	180	**161037**
16	**10000**	up to no. 25	6,7	32	340	340	180	**161038**





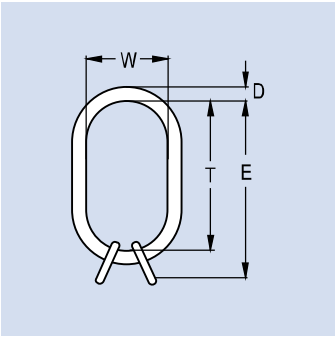
Oversized master link with intermediate links for chain slings, 2-leg

Grade 100

6 to 22 mm HIT HIGH WORKING LOAD LIMIT

Connection to the chain with CW links.

For nominal size of chain mm	WLL kg NW 0–45°	For crane hooks DIN 15401	Weight kg	Dimensions in mm				Reference no.
				D	T	W	E	
6	**3550**	up to no. 25	3.5	22	340	180	394	**218100**
8	**3550**	up to no. 25	3.5	22	340	180	394	**215413**
10	**5600**	up to no. 25	5.1	27	340	180	410	**161039**
13	**9500**	up to no. 25	8.0	33	340	180	425	**161040**
16	**14000**	up to no. 25	12.3	40	340	180	455	**161041**
19	**21200**	up to no. 25	13.8	40	340	180	480	**178524**



Oversized master link with intermediate links for chain slings, 4-legs

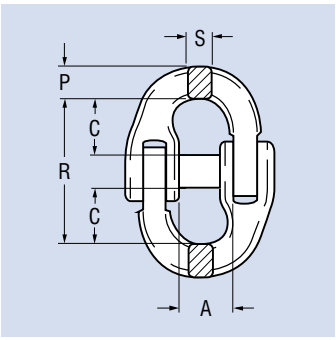
Grade 100

6 to 22 mm HIT HIGH WORKING LOAD LIMIT

Connection to the chain with CW links.

For nominal size of chain mm	WLL kg NW 0–45°	For crane hooks DIN 15401	Weight kg	Dimensions in mm				Reference no.
				D	T	W	E	
6	**3550**	up to no. 25	3.5	22	340	180	394	**215405**
8	**5600**	up to no. 25	5.1	27	340	180	410	**215414**
10	**8000**	up to no. 25	8.0	33	340	180	425	**161042**
13	**14000**	up to no. 25	12.3	40	340	180	455	**161043**
16	**21200**	up to no. 25	12.3	40	340	180	480	**161044**

The specification of the working load limit applies only in the case of symmetrical loading of all legs.

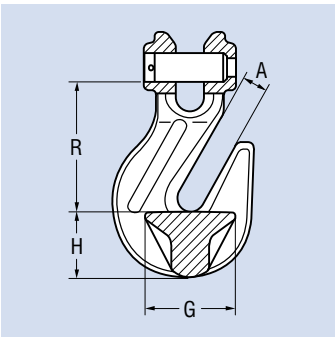


Connecting link

6 to 22 mm HIT HIGH WORKING LOAD LIMIT

Grade 100
For connecting the chain to master link and other accessories

For nominal size of chain mm	WLL kg	Weight kg	Dimensions in mm					Reference no.
			A	C	P	S	R	
6	**1400**	0.07	14	18	8	7,5	45	**207540**
8	**2500**	0.20	18	25	12	9,5	62	**207541**
10	**4000**	0.35	23	30	12	12,0	70	**207542**
13	**6700**	0.74	27	36	20	17,0	90	**207543**
16	**10000**	1.16	33	40	22	20,5	105	**207544**
20	**16000**	2.05	42	46	29	25,0	113	**207545**
22	**19000**	3.10	49	55	30	28.0	133	**207546**

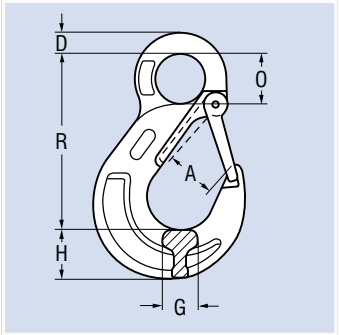


Clevis grab hook

6 to 22 mm HIT HIGH WORKING LOAD LIMIT

Grade 100
For shortening and for loops that must not tighten themselves.
For the direct connection to the chain.
It can be used as a chain shortener with full working load limit due to its special shape.

For nominal size of chain mm	WLL kg	Weight kg	Dimensions in mm				Reference no.
			A	G	H	R	
6	**1400**	0.20	8,0	22	22	51	**207579**
8	**2500**	0.44	10,0	30	28	65	**207580**
10	**4000**	0.96	13,0	34	34	80	**207581**
13	**6700**	2.10	17,0	47	47	105	**207582**
16	**10000**	3.40	19,0	64	60	112	**207583**
20	**16000**	5.20	23,5	84	65	118	**207584**
22	**19000**	7.80	26.0	85	68	154	**207585**

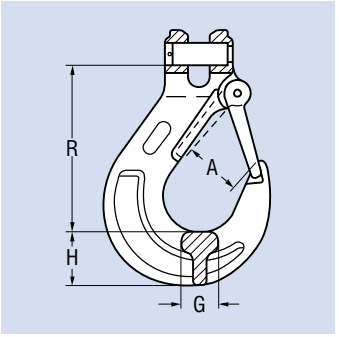


Eye sling hook

6 to 22 mm HIT HIGH WORKING LOAD LIMIT

Grade 100
Standard sling hook with replaceable, forged safety latch.

For nominal size of chain mm	WLL kg	Weight kg	Dimensions in mm						Reference no.
			A	D	G	H	O	R	
6	**1400**	0.25	19	10,0	16	20	20,5	81	**207587**
8	**2500**	0.50	26	11,0	19	29	25,0	101	**207588**
10	**4000**	0.97	31	16,0	26	33	34,0	131	**207589**
13	**6700**	1.90	40	19,0	33	42	43,0	159	**207590**
16	**10000**	3.30	45	24,5	40	50	50,0	183	**207591**
20	**16000**	4.50	52	27,0	48	53	55,0	203	**207592**
22	**19000**	7.10	62	29,0	50	60	60,0	234	**207593**

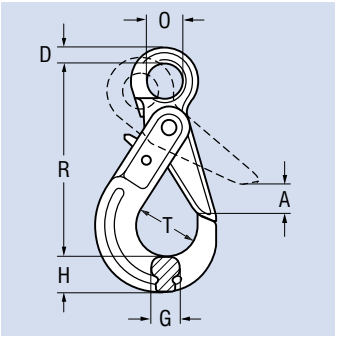


Clevis sling hook

6 to 22 mm HIT HIGH WORKING LOAD LIMIT

Grade 100
Forged safety latch
For the direct connection to the chain.

For nominal size of chain mm	WLL kg	Weight kg	Dimensions in mm				Reference no.
			A	G	H	R	
6	**1400**	0.25	19	15	20	69	**207604**
8	**2500**	0.50	26	19	28	95	**207605**
10	**4000**	1.00	31	25	33	110	**207606**
13	**6700**	1.70	40	30	40	136	**207607**
16	**10000**	3.20	45	37	48	155	**207608**
20	**16000**	5.00	53	51	52	185	**207609**
22	**19000**	12.30	62	50	63	210	**207610**

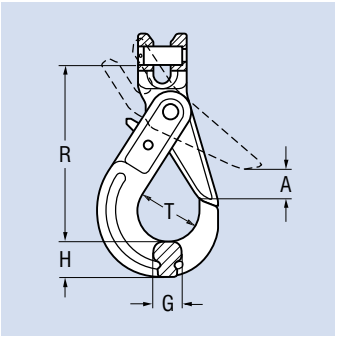


Safety hook

6 to 22 mm HIT HIGH WORKING LOAD LIMIT

Grade 100
Closes and locks automatically upon raising the load.
With lock release on the back of the hook.

For nominal size of chain mm	WLL kg	Weight kg	Dimensions in mm							Reference no.
			A	D	G	H	O	R	T	
6	**1400**	0.50	28	11	16	21	21	109	35	**207594**
8	**2500**	0.96	34	12	20	26	25	135	43	**207595**
10	**4000**	1.65	45	16	25	30	33	168	56	**207596**
13	**6700**	3.25	51	20	35	40	40	205	69	**207597**
16	**10000**	6.10	60	27	36	50	50	251	80	**207598**
20	**16000**	9.80	70	30	60	67	60	290	90	**219770**
22	**19000**	14.40	80	32	62	70	70	322	100	**230479**

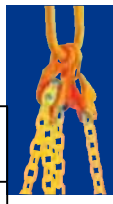


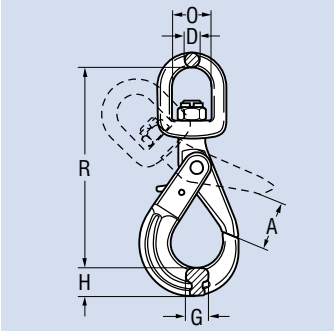
Clevis safety hook

6 to 22 mm HIT HIGH WORKING LOAD LIMIT

Grade 100
Closes and locks automatically upon raising the load.
With lock release on the back of the hook.
For the direct connection to the chain.

For nominal size of chain mm	WLL kg	Weight kg	Dimensions in mm					Reference no.
			A	G	H	R	T	
6	**1400**	0.50	28	16	21	94	35	**207611**
8	**2500**	0.95	34	20	26	123	43	**207612**
10	**4000**	1.60	45	25	30	143	56	**207613**
13	**6700**	3.20	51	35	40	180	69	**207614**
16	**10000**	6.00	60	36	50	215	80	**207615**
20	**16000**	9.80	70	60	67	253	90	**230481**
22	**19000**	14.40	82	62	70	287	100	**230482**



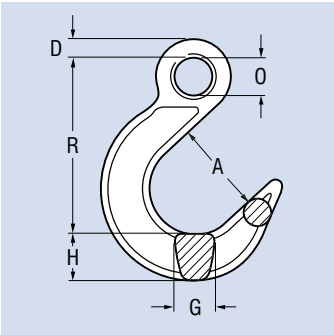


Swivel safety hook

Grade 100
Standard version not rotatable under load.

6 to 22 mm HIT HIGH WORKING LOAD LIMIT

For nominal size of chain mm	WLL kg	Weight kg	Dimensions in mm						Reference no.
			A	D	G	H	O	R	
6	**1400**	0.6	28	13	16	21	36	158	**207599**
8	**2500**	1.1	34	13	20	26	36	182	**207600**
10	**4000**	2.0	45	16	25	30	42	217	**207601**
13	**6700**	4.0	54	21	35	40	50	271	**207602**
16	**10000**	6.8	62	24	38	50	62	320	**207603**



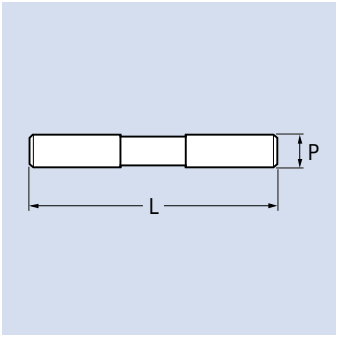
Foundry hook

Grade 100

6 to 22 mm HIT HIGH WORKING LOAD LIMIT

For nominal size of chain mm	WLL kg	Weight kg	Dimensions in mm						Reference no.
			A	D	G	H	O	R	
8	**2500**	0.92	64	13,5	25	29	18	125	**230488**
10	**4000**	1.77	76	14,0	32	30	22	150	**230489**
13	**6700**	2.82	89	19,0	38	40	27	173	**230490**
16	**10000**	5.03	102	24,0	45	48	47	210	**230491**
20	**16000**	7.60	114	28.0	54	60	56	260	**230492**

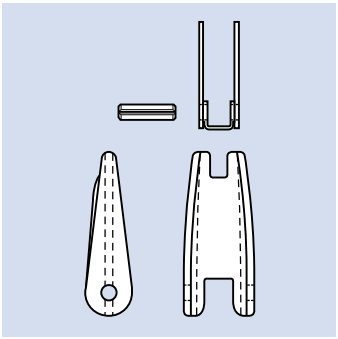
Hook may only be used where unintentional unhooking is not possible.



Bolt set for connecting link

Spare part for connecting link, grade 100
incl. safety socket

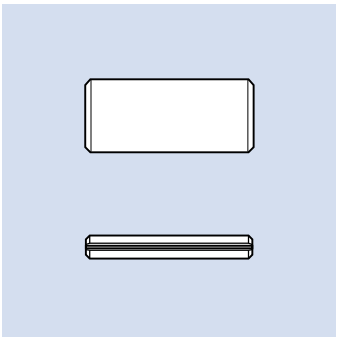
For nominal size of chain mm	Reference no.
6	207638
8	207639
10	207640
13	207641
16	207642
19	207643
22	207644



Safety latch for eye sling hook

Grade 100
Forged safety latch with spiral pin and spring.
For simple replacement in the case of damage or wear.

For nominal size of chain mm	Reference no.
6	207616
8	207617
10	207618
13	207619
16	207620
20	207621
22	207622

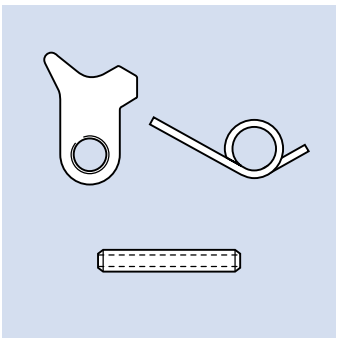


Bolt set for clevis sling hook

Spare part for fork hook, grade 100
incl. locking pin

For nominal size of chain mm	Weight kg	Reference no.
6	0.006	207624
8	0.006	207625
10	0.006	207627
13	0.006	207630
16	0.006	207633
19	0.006	207636
22	0.006	207637

For coupling bolts for other hook types, please consult PFEIFER



Safety latch for safety hook

Grade 100
For simple replacement in the case of damage or wear.

For nominal size of chain mm	Weight kg	Reference no.
6	0.05	207645
8	0.10	207646
10	0.13	207647
13	0.20	207648
16	0.25	207649
20	0.40	230493
22	0.40	230494

For coupling bolts for other hook types, please consult PFEIFER

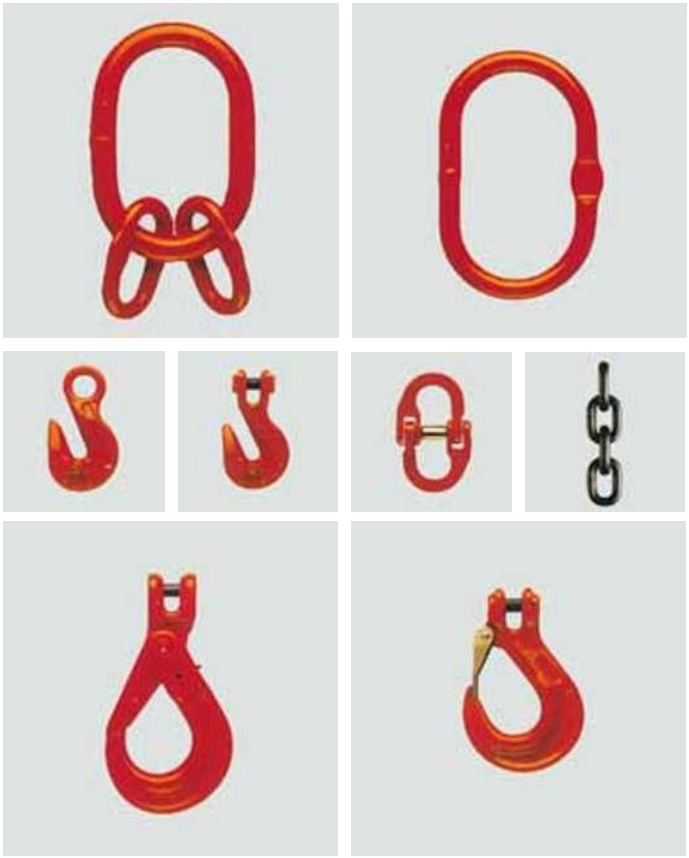
Chain slings, 1-/2-/4-leg, Grade 80

PFEIFER is a supplier in the premium range.

However, we can also supply chain slings and components in grade 80 on request.

Grade 80

- quality assured European manufacturing carried out by an ISO 9001 company
- chain and components according to EN 818 and EN 1677
- chain bears a manufacturer's mark with identification-no. (10 years retraceability)
- usable in temperature ranges from –40 °C to 200 °C with 100 % WLL
- in the case of sharp edges (radius smaller than nominal size of chain) we recommend that the chain's WLL is reduced by 50 % in the selected method of attachment.



Quality tag for chain slings, grade 80

32 mm

Identification according to DIN EN 818, part 4
Chain slings of grade 80 are identified by an octagonal tag, on which the number of legs, the nominal size of chain and the working load limit for angles of inclination 0 – 45° and 45 – 60° are specified.

The quality tags are included in the price of the new chains, but can also be purchased separately.

Further accessories for lifting slings

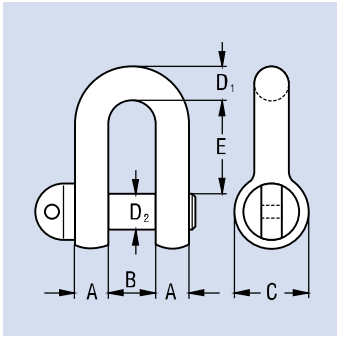
can be combined as desired with ropes, chains, lifting belts and round slings

Grade 80

WARNING: When grade 80 components are combined with special quality class 80 and/or quality grade 100 chains and building components or other attachment systems, it is always the WLL of the weakest construction unit that is relevant for defining the WLL (the wakest component determines the WLL!) Assembly should only be carried out by experts.

Chain shackle SCH straight design

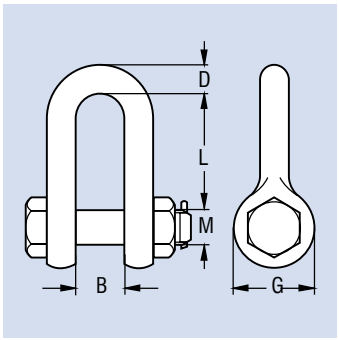
Universal shackle with strong stud bolt. Ideal component for the connection of the chain legs to load clamps, small grabs etc.
Red paint finish
Grade 80



For nominal size of chain mm	WLL kg	Weight kg	Dimensions in mm						Reference no.
			A	B	C	D_1	D_2	E	
6	1120	0.05	7	11	16	8	8	24	119683
8	2000	0.09	8	14	20	10	10	30	119684
10	3150	0.20	10	17	24	12	12	36	119685
13	5300	0.30	13	21	32	15	16	49	119686
16	8000	0.70	17	27	40	19	20	61	119687
19	11200	1.30	21	33	48	23	24	73	119688

Chain shackle straight design

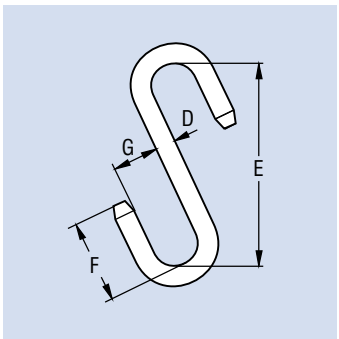
Universal shackle with nut, bolt and split pin.
For the connection of the chain legs to load clamps, small grabs etc.
Red paint finish
Grade 80



For nominal size of chain mm	WLL kg	Weight kg	Dimensions in mm					Reference no.
			B	D	G	L	M	
10	3150	0.38	24	13	35	52	16	119889
13	5300	0.71	28	16	42	65	20	119890
16	8000	0.98	30	18	46	72	22	119891
19	11200	1.80	36	22	55	86	27	119883
22	15000	2.50	40	25	62	94	30	119884
26	21200	4.80	48	32	75	116	39	119885

S-hook SM both sides open

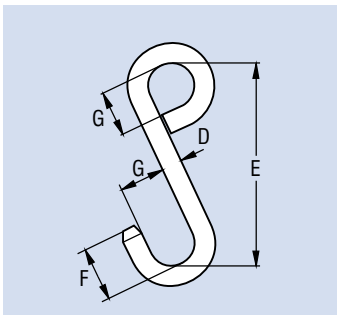
Large aperture for special applications.
Red paint finish
According to BGR 500 these hooks may only be used where unintentional unhooking is not possible.
Grade 80



WLL kg	Weight kg	Dimensions in mm				Reference no.
		D	E	F	G	
800	0.6	16	180	59	42	119664
2000	1.5	23	220	74	53	119665
3150	2.6	27	280	88	63	119666
5300	8.4	40	400	126	90	119667
8000	16.5	50	500	168	120	119668
11200	26.0	60	550	182	130	119669
15000	64.5	80	750	245	175	119670

S-hook SM one side closed (not welded)

Large aperture for special applications.
Red paint finish
According to BGR 500 these hooks may only be used where unintentional unhooking is not possible.
Grade 80



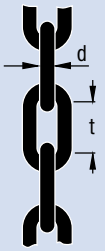
WLL kg	Weight kg	Dimensions in mm				Reference no.
		D	E	F	G	
150	0.10	10	115	28	28	119672
250	0.25	12	153	38	38	119673
350	0.45	14	191	50	50	119674
500	0.75	16	229	63	63	119675
750	1.40	20	267	76	76	119676
1000	2.10	22	305	88	88	119677
1300	3.10	26	331	101	101	119678
1500	4.00	28	381	114	114	119679
2000	5.90	32	407	127	127	119680
2400	7.50	36	432	139	139	119681
2800	9.70	38	460	150	150	119682

Galvanised round steel chains according to DIN 766, DIN 763 and 5685

(Do not to use for lifting!)

Round steel chain, short link, DIN 766 in 30 m coil

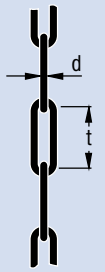
Galvanised
True to gauge, tested
Chains complying with this standard are used in the entire technical field.



Breaking force kN	Chain dimension d × t mm	Weight approx. kg/coil	Reference no.
600	4×16	9.6	**201726**
1000	5×18.5	15.0	**201727**
1400	6×18.5	24.0	**201728**
2500	8×24	42.0	**201729**
4000	10×28	69.0	**201730**

Round steel chain, long link, DIN 763 in 30 m coil

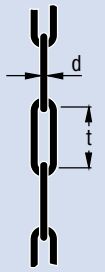
Galvanised
Not true to gauge, tested
chains for non-lifting applications e.g. bracing, fastening, closing off and for agriculture.



Breaking force kN	Chain dimension d × t mm	Weight approx. kg/coil	Reference no.
600	4×32	8.1	**201731**
1000	5×35	12.9	**201732**
1400	6×42	18.9	**201733**
2500	8×52	33.0	**201734**
4000	10×65	52.5	**201735**

Round steel chain, long link, DIN 5685 in 30 m coil

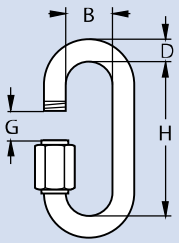
Galvanised
Dimensionally untested
chains for non-lifting applications e.g. bracing, fastening, closing off and for agriculture.



Breaking force kN	Chain dimension d × t mm	Weight approx. kg/coil	Reference no.
600	4×32	8.1	**201736**
1000	5×35	12.9	**201737**
1400	6×42	18.9	**201738**
2500	8×52	33.0	**201739**
4000	10×65	52.5	**201740**

Quick fastener for chains

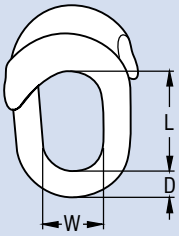
The practical component for the simple connection and extension of chains for non-lifting purposes.
Steel, galvanised



Breaking force kp	Dimensions in mm				Reference no. per 10 pieces
	B	D	G	H	
500	10	3.5	5.0	29	**201940**
1400	13	5.0	6.5	39	**201941**
2000	14	6.0	7.5	45	**201942**
3500	18	8.0	10.0	60	**201943**
5500	20	10.0	12.0	69	**201944**

Extension chain link

For the simple connection and extension of chains for subordinate purposes.
Steel, galvanised



Nominal size	Dimensions in mm			Reference no. per 10 pieces
	D	L	W	
4	4	20	7	**201945**
5	5	23	9	**201946**
6	6	28	10	**201947**
8	8	37	14	**201948**
10	10	38	17	**201949**