



The high-quality products, marked with the BULL-LIFTING logo, guarantee safety and reliability in all load carrying operations.

All products of the BULL-LIFTING brand are distinguished by the following:

1. Quality that is more than reliable and fully corresponds to the high requirements of the European and the International market.
2. TÜV certificate for correspondence with the European standards – all BULL-LIFTING products are carefully tested and strictly certified by the TÜV Rheinland group; the performed tests are both for the input materials and for the technical and quality parameters. Each BULL-LIFTING product comes with a relevant TÜV certificate, with recognizable CE marking and

corresponds to all European requirements.

3. Additional guarantee and high assurance for the client – thanks to the special “Product liability” insurance concluded with a leading International insurance company for all BULL-LIFTING products, all our clients receive even more reliability.
4. Patented and officially registered trademark.
5. Our own unique design.
6. Reliable after-sale service and available spare parts – all BULL-LIFTING products are secured with spare parts which can be delivered to the client; if necessary, the products can also be repaired in the specialized company service.
7. Environmental care – all BULL-LIFTING products are environmental friendly and all the packings can be recycled.

### CERTIFICATES



REGISTERED TRADE MARK



1. High-strength load chains and chain slings, grade 8 and 10;
2. Webbing and round slings;
3. Wire rope slings;
4. All kind of riggings – master links, hooks, shackles, connecting links, etc.
5. Vertical and horizontal lifting clamps;

6. Lever and chain hoists;
7. Ratchet load binders;
8. Lifting magnets;
9. Clamps for special purpose – drum clamps, concrete pipe clamps, steel pipe clamps with protection, beam clamps etc.

### CERTIFICATES TÜV



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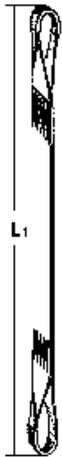
# LIFTING EQUIPMENT



*Slings*

## FLAT WEBBING SLINGS WITH REINFORCED EYES TYPE BW

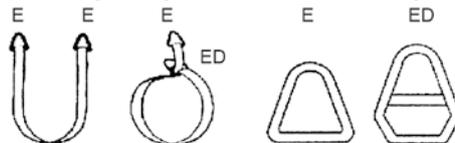
Material: polyester  
 WLL (kg) – according chart  
 Length: L1  
 Safety capacity 7:1



Type	Width mm	Color	WLL/kg				
			LA 1	LA 0.8	LA 2.0	LA 1.4 0°-45°	LA 1.0 45°-60°
TWO LAYERS							
BW 1	30	violet	1000	800	2000	1400	1000
BW 2	60	green	2000	1600	4000	2800	2000
BW 3	90	yellow	3000	2400	6000	4200	3000
BW 4	120	grey	4000	3200	8000	5600	4000
BW 5	150	red	5000	4000	10000	7000	5000
BW 6	180	brown	6000	4800	12000	8400	6000
BW 8	240	blue	8000	6400	16000	11200	8000
BW 10	300	orange	10000	8000	20000	14000	10000
BW 12	300	orange	12000	9600	24000	16800	12000

The BW type flat sling is made of two layers. By request these slings can be also made of one layer (BS type) or four layers (BWW). When the WLL is the same, the one layered slings have bigger width than the two layered ones. Instead of reinforced eyes these slings can be also produces with metal fittings type “E” or “ED”.

### Fastening of flat webbing slings with metal endings type “E” or “ED”:



### DIFFERENT TYPES OF BULL-LIFTING REINFORCED POLYESTER EYES:

-   FLAT ENDING
-   REVERTED ENDING
-   ONE SIDE REVERTED ENDING, 1/2 OF THE WIDTH
-   TWO SIDE REVERTED ENDING, 1/2 OF THE WIDTH
-   ENDING REVERTED 1/3 OF THE WIDTH

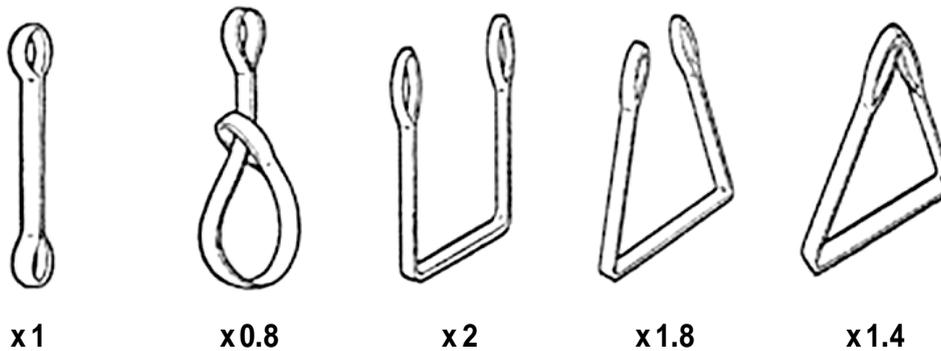
## ROUND WEBBING SLINGS TYPE BR



Material: polyester  
 WLL (kg): according chart  
 Length: working length L1  
 Total length: 2 x L1  
 Safety capacity: 7:1

Type	Wll kg	Width mm	Color
BR 1	1000	46	violet
BR 2	2000	46	green
BR 3	3000	57	yellow
BR 4	4000	66	grey
BR 5	5000	77	red
BR 6	6000	85	brown
BR 8	8000	92	blue
BR 10	10000	114	orange
BR 12	12000	150	orange

**The Safe Load Limit depends on the way of fastening the load, as shown below:**



The flat and round webbing slings are produced according EN 1492.

The Safe Load Limit is always marked on the label and depends on the way of fastening of the load.

The chart with the different types of WLL is also marked on every label.

If the label is missing or the layer is damaged, the sling must not be used.

Every sling has its own serial number and can be easily traced.

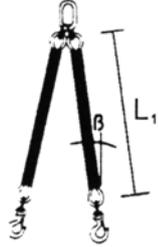
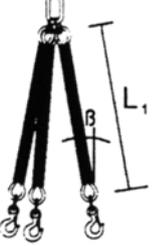
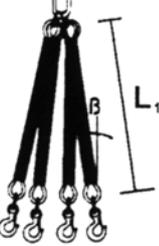
The flat and round webbing slings can be used in humid environments, they don't go moldy, and the moist does not affect the WLL.

Working with icy webbings is strictly forbidden.

## MULTIPLE LEG SLINGS TYPE BWM FROM FLAT WEBBING OR TYPE BRM FROM ROUND WEBBING

The webbing slings are produced according EN 818-4. The legs of the multi-legged webbing slings are made of flat (BWM) or round (BRM) polyester sling. When ordering, please indicate the name of the item and its length (L2). Usually the legs of the webbing slings have length multiple of 1.0 meter, but by request we can produce webbing slings with different lengths. The general WLL of the multi-legged webbing slings is calculated for maximum angle (between legs) of 90°. If the angle is smaller the WLL gets bigger. By request every multi-legged webbing sling can end with hooks, shackles, master links or any other rigging element.

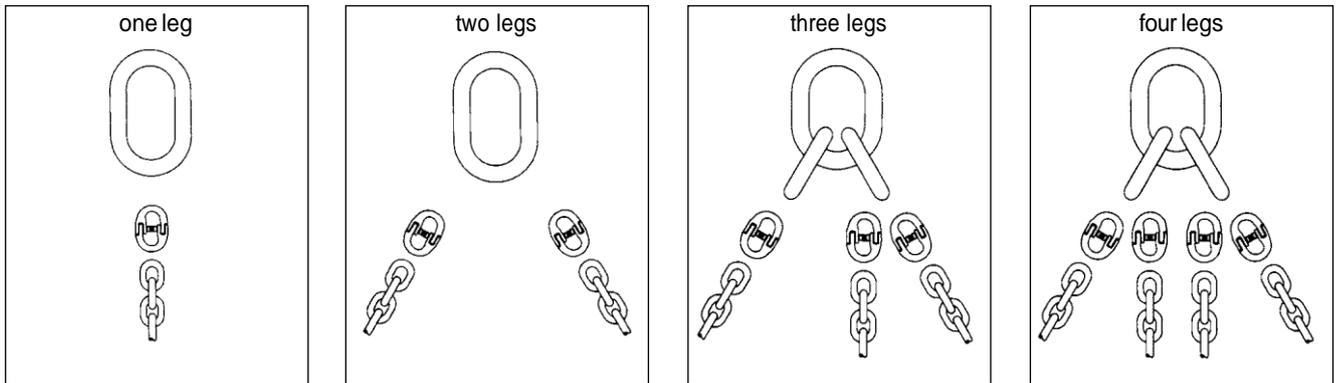
We can also supply special lifting equipment for extremely heavy loads.

Multiple legslings		Type BWM/BRM	WLL T
ONE LEG		BWM/BRM-1-10	1,0
		BWM/BRM-1-20	2,0
		BWM/BRM-1-30	3,0
		BWM/BRM-1-40	4,0
		BWM/BRM-1-50	5,0
		BWM/BRM-1-60	6,0
		BWM/BRM-1-80	8,0
TWO LEGS		BWM/BRM-2-14	1,4
		BWM/BRM-2-28	2,8
		BWM/BRM-2-42	4,2
		BWM/BRM-2-56	5,6
		BWM/BRM-2-70	7,0
		BWM/BRM-2-84	8,4
		BWM/BRM-2-112	10,2
THREE LEGS		BWM/BRM-3-21	2,1
		BWM/BRM-3-42	4,2
		BWM/BRM-3-63	6,3
		BWM/BRM-3-84	8,4
		BWM/BRM-3-105	10,5
		BWM/BRM-3-126	12,6
		BWM/BRM-3-168	16,8
FOUR LEGS		BWM/BRM-4-21	2,1
		BWM/BRM-4-42	4,2
		BWM/BRM-4-63	6,3
		BWM/BRM-4-84	8,4
		BWM/BRM-4-105	10,5
		BWM/BRM-4-126	12,6
		BWM/BRM-4-168	16,8

### General information for the polyester used for the production of the webbing and round slings

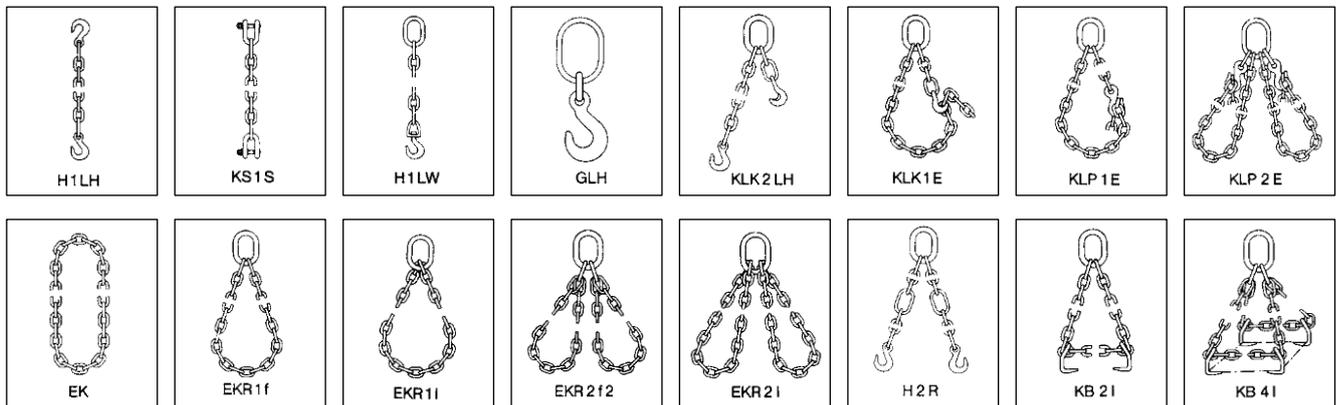
Polyester	Properties
Breaking load	650-800 N/mm <sup>2</sup>
Specific weight	1,38 g/cm <sup>3</sup>
Resistance to alkaline	acceptable
Resistance to acid	good
Resistance to organic solvents	good
Resistance to poisonous environment	good
Maximum temperature of use	100°C

## CHAIN SLINGS GRADE 80 AND GRADE 100, MAIN CONFIGURATIONS

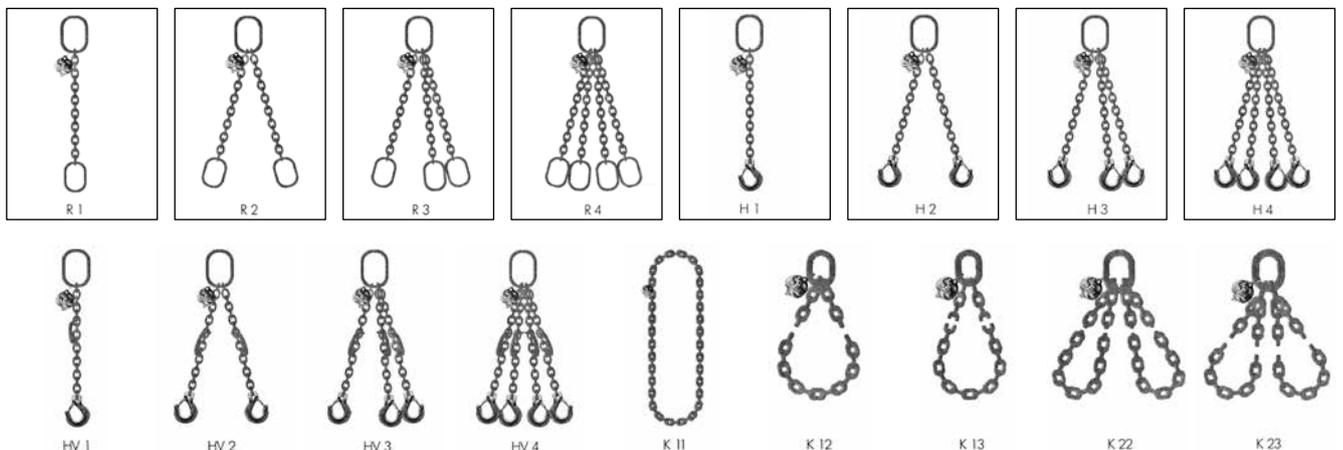


A	LH	LHS	LHG	LHGS	LG	LGG	LP	LK	LKG	S	VH	LS	LSG

## CHAIN SLINGS GRADE 80 – OTHER CONFIGURATIONS



## CHAIN SLINGS GRADE 100 – OTHER CONFIGURATIONS



## WORKING LOAD LIMIT OF CHAINS AND CHAIN SLINGS GRADE 80

### WORKING LOAD LIMIT OF CHAINS G 80 ACC EN 818-2

Article	Nominal diameter of the chain in mm	WLL kg	Weight kg/m	Sizes in mm		
				d	t	b
chain EN 818-2 	6 - 8	1.120	0,80	6	18	21
	7 - 8	1.500	1,10	7	21	24
	8 - 8	2.000	1,40	8	24	28
	10 - 8	3.150	2,20	10	30	35
	13 - 8	5.300	3,80	13	39	46
	16 - 8	8.000	5,70	16	48	57
	18 - 8	10.000	7,30	18	54	64
	19 - 8	10.000	7,30	19	57	68
	20 - 8	12.500	9,00	20	60	70
	22 - 8	15.000	10,90	22	66	78
	26 - 8	21.200	15,20	26	78	91
	32 - 8	31.500	23,00	32	96	115

### WORKING LOAD LIMITS OF CHAIN SLINGS G 80, IN TON

1	2	3	4	5	6	7	8	9	10
	0° - 45°	45° - 60°	0° - 45°	45° - 60°	0° - 45°	45° - 60°		0° - 45°	45° - 60°
11	12	13	14	15	16	17	18	19	
			0°	0° - 25°	25° - 45°	45° - 60°	0° - 45°	45° - 60°	

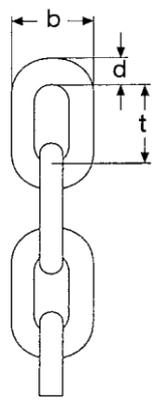
Way of use	Nominal diameter of the chain in mm																
	6	7	8	10	13	16	18	20	22	26	28	32	36	40	45	50	56
1	1,12	1,50	2,00	3,15	5,30	8,00	10,00	12,50	15,00	21,20	25,00	31,50	40,00	50,00	63,00	80,00	100,00
2	1,60	2,12	2,80	4,25	7,50	11,20	14,00	17,00	21,20	30,00	33,50	45,00	56,00	71,00	90,00	112,00	140,00
3	1,12	1,50	2,00	3,15	5,30	8,00	10,00	12,50	15,00	21,20	25,00	31,50	40,00	50,00	63,00	80,00	100,00
4	2,36	3,15	4,25	6,70	11,20	17,00	21,20	26,50	31,50	45,00	50,00	67,00	85,00	106,00	132,00	168,00	212,00
5	1,70	2,25	3,00	4,75	8,00	11,80	15,00	19,00	22,40	31,50	37,50	47,50	60,00	75,00	95,00	120,00	150,00
6	2,36	3,15	4,25	6,70	11,20	17,00	21,20	26,50	31,50	45,00	50,00	67,00	85,00	106,00	132,00	168,00	212,00
7	1,70	2,25	3,00	4,75	8,00	11,80	15,00	19,00	22,40	31,50	37,50	47,50	60,00	75,00	95,00	120,00	150,00
8	0,90	1,25	1,60	2,50	4,25	6,30	8,00	10,00	11,80	17,00	20,00	25,00	31,50	40,00	50,00	64,00	80,00
9	1,25	1,70	2,24	3,55	6,00	9,00	11,20	14,00	17,00	23,60	28,00	35,50	45,00	56,00	71,00	89,60	112,00
10	0,90	1,25	1,60	2,50	4,25	6,30	8,00	10,00	11,80	17,00	20,00	25,00	31,50	40,00	50,00	64,00	80,00
11	1,80	2,50	3,15	5,00	8,50	12,50	16,00	20,00	23,60	33,50	40,00	50,00	63,00	80,00	100,00	128,00	160,00
12	2,24	3,00	4,00	6,30	10,60	16,00	20,00	25,00	30,00	42,40	50,00	63,00	80,00	100,00	126,00	160,00	200,00
13	4,48	6,00	8,00	12,60	21,20	32,00	40,00	50,00	60,00	84,80	100,00	126,00	140,00	200,00	252,00	320,00	400,00
14	1,80	2,50	3,15	5,00	8,50	12,50	16,00	20,00	23,60	33,50	40,00	50,00	63,00	80,00	100,00	128,00	160,00
15	1,60	2,24	2,80	4,50	7,50	11,20	15,00	18,00	22,40	30,00	35,50	47,50	60,00	71,00	90,00	116,00	145,00
16	1,25	1,70	2,24	3,55	6,00	9,00	11,20	14,00	17,00	23,60	28,00	35,50	45,00	56,00	71,00	89,60	112,00
17	0,90	1,25	1,60	2,50	4,25	6,30	8,00	10,00	11,80	17,00	20,00	25,00	31,50	40,00	50,00	64,00	80,00
18	1,90	2,50	3,35	5,30	9,00	13,20	17,00	21,20	25,00	35,50	42,50	53,00	67,00	85,00	106,00	136,00	170,00
19	1,32	1,80	2,36	3,75	6,30	9,50	12,50	15,00	18,00	25,00	30,00	37,50	47,50	60,00	75,00	96,00	120,00

WLL when using the slings in hot environment:

from -40°C to +200°C	from +200°C to +300°C	from +300°C to +400°C
100%	90%	75%

## WORKING LOAD LIMIT OF CHAINS AND CHAIN SLINGS GRADE 100

### WORKING LOAD LIMIT OF CHAINS G 100 ACCEN 818-2

Article	Nominal diameter of the chain in mm	WLL kg	Weight kg/m	Sizes in mm		
				d	t	b
chain EN 818-2 	6	1,400	0,80	6	18	21
	7	1,900	1,10	7	21	24
	8	2,500	1,50	8	24	28
	10	4,000	2,40	10	30	35
	13	6,700	4,00	13	39	46
	16	10,000	6,00	16	48	57
	18	12,500	7,30	18	54	64
	19	14,000	8,10	19	57	70
	20	16,000	9,00	20	60	70
	22	19,000	10,90	22	66	78
	23	20,000	11,80	23	69	82
	26	26,500	15,20	26	78	91

### WORKING LOAD LIMITS OF CHAIN SLINGS G 100, IN TON

1		2	 0° - 45°	3	 45° - 60°	4	 0° - 45°	5	 45° - 60°	6	 0° - 45°	7	 45° - 60°	8		9	 0° - 45°	10	 45° - 60°
11		12		13		14	 0°	15	 0° - 25°	16	 25° - 45°	17	 45° - 60°	18	 0° - 45°	19	 45° - 60°		

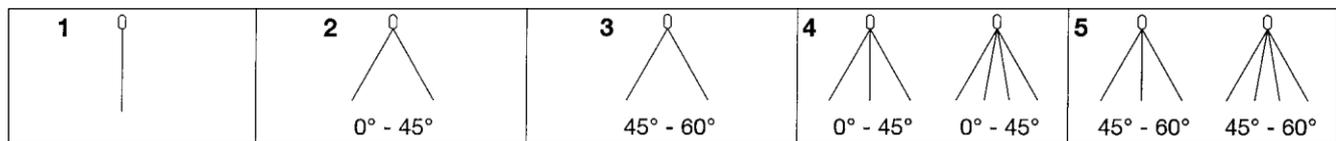
Way of use	Nominal diameter of the chain in mm											
	6	7	8	10	13	16	18	19	20	22	23	26
1	1,40	1,90	2,50	4,00	6,70	10,00	12,50	14,00	16,00	19,00	20,00	26,50
2	1,96	2,66	3,50	5,60	9,38	14,00	17,50	19,60	22,40	26,60	28,00	37,10
3	1,40	1,90	2,50	4,00	6,70	10,00	12,50	14,00	16,00	19,00	20,00	26,50
4	2,94	3,99	5,25	8,40	14,07	21,00	26,25	29,40	33,60	39,90	42,00	55,65
5	2,10	2,85	3,75	6,00	10,05	15,00	18,75	21,00	24,00	28,50	30,00	39,75
6	2,94	3,99	5,25	8,40	14,07	21,00	26,25	29,40	33,60	39,90	42,00	55,65
7	2,10	2,85	3,75	6,00	10,05	15,00	18,75	21,00	24,00	28,50	30,00	39,75
8	1,12	1,52	2,00	3,20	5,36	8,00	10,00	11,20	12,80	15,20	16,00	21,20
9	1,568	2,128	2,80	4,48	7,504	11,20	14,00	15,68	17,92	21,28	22,40	29,68
10	1,12	1,52	2,00	3,20	5,36	8,00	10,00	11,20	12,80	15,20	16,00	21,20
11	2,24	3,04	4,00	6,40	10,72	16,00	20,00	22,40	25,60	30,40	32,00	42,40
12	2,80	3,80	5,00	8,00	13,40	20,00	25,00	28,00	32,00	38,00	40,00	53,00
13	5,60	7,60	10,00	16,00	26,80	40,00	50,00	56,00	64,00	76,00	80,00	106,00
14	2,24	3,04	4,00	6,40	10,72	16,00	20,00	22,40	25,60	30,40	32,00	42,40
15	2,03	2,755	3,625	5,80	9,715	14,50	18,125	20,30	23,20	27,55	29,00	38,425
16	1,568	2,128	2,80	4,48	7,504	11,20	14,00	15,68	17,92	21,28	22,40	29,68
17	1,12	1,52	2,00	3,20	5,36	8,00	10,00	11,20	12,80	15,20	16,00	21,20
18	2,38	3,23	4,25	6,80	11,39	17,00	21,25	23,80	27,20	32,30	34,00	45,05
19	1,68	2,28	3,00	4,80	8,04	12,00	15,00	16,80	19,20	22,80	24,00	31,80

## WLL COMPARISON BETWEEN GRADE 80 AND GRADE 100 CHAIN SLINGS

The grade 100 chains and equipment have a 25% bigger WLL than the grade 80 items. That allows a smaller diameter of lifting chain and components to be used for lifting the same load. However, it must be noticed that up to 16 mm the grade 100 items can only partly substitute the grade 80 items. The bottom chart clarifies this – it is shown a WLL comparison between grade 100 and grade 80 with the most common types of chain slings (with 1 to 4 legs and lifting angel of 45 and 45-60°).

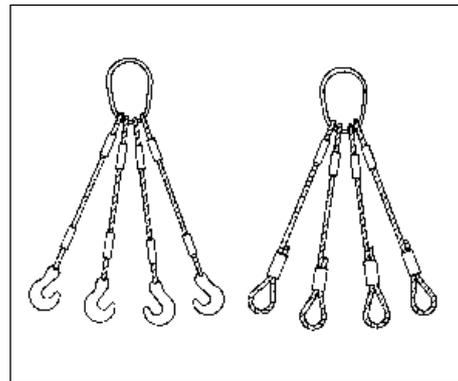
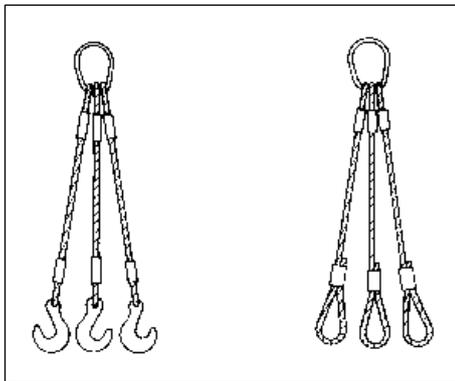
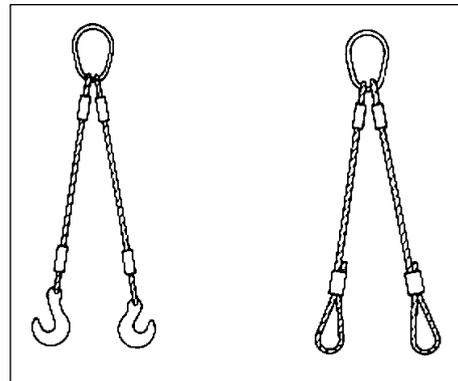
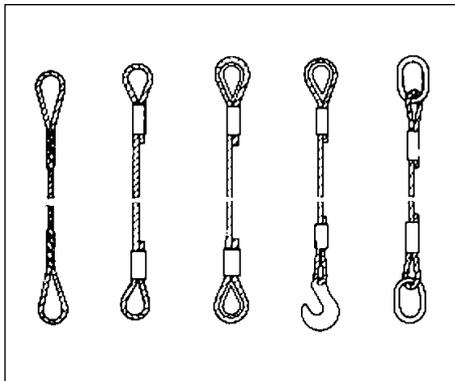
For example, for lifting of a load of 2400 kg with a single-legged sling you may use both 10mm chain grade 80 and 8 mm chain grade 100. The weight of 1 meter of the 8 mm chain grade 100 is significantly smaller than the weight of 1 meter of the 10mm chain grade 80. That spares approx. 37% of the whole single-legged sling's weight. If the sling is with longer legs the weight difference gets even bigger. In this case the use of a grade 100 chain gives an advantage because the whole sling gets lighter. However, if you must lift load of 2800 kg with a single-legged sling, you may only use 10mm chain, no matter the grade. So, in that case grade 100 chains do not give any advantage.

With the bellow shown comparing chart you can easily and quickly choose the chain grade which is most appropriate for you.



Chains	WLL in kg				
	Grade 80	Grade 100	Grade 80	Grade 100	Grade 80
6 / GK 8	1.120	1.600	1.120	2.360	1.700
6 / GK 10	1.400	1.960	1.400	2.940	2.100
7 / GK 8	1.500	2.120	1.500	3.150	2.250
7 / GK 10	1.900	2.660	1.900	3.990	2.850
8 / GK 8	2.000	2.800	2.000	4.250	3.000
8 / GK 10	2.500	3.500	2.500	5.250	3.750
10 / GK 8	3.150	4.250	3.150	6.700	4.750
10 / GK 10	4.000	5.600	4.000	8.400	6.000
13 / GK 8	5.300	7.500	5.300	11.200	8.000
13 / GK 10	6.700	9.380	6.700	14.070	10.050
16 / GK 8	8.000	11.200	8.000	17.000	11.800
16 / GK 10	10.000	14.000	10.000	21.000	15.000
18 / GK 8	10.000	14.000	10.000	21.200	15.000
18 / GK 10	12.500	17.500	12.500	26.250	18.750
19 / GK 8	10.000	14.000	10.000	21.200	15.000
19 / GK 10	14.000	19.600	14.000	29.400	21.000
20 / GK 8	12.500	17.000	12.500	26.500	19.000
20 / GK 10	16.000	22.400	16.000	33.600	24.000
22 / GK 8	15.000	21.200	15.000	31.500	22.400
22 / GK 10	19.000	26.600	19.000	39.900	28.500
26 / GK 8	21.200	30.000	21.200	45.000	31.500
26 / GK 10	26.500	37.100	26.500	55.650	39.750

## WIRE ROPE SLINGS

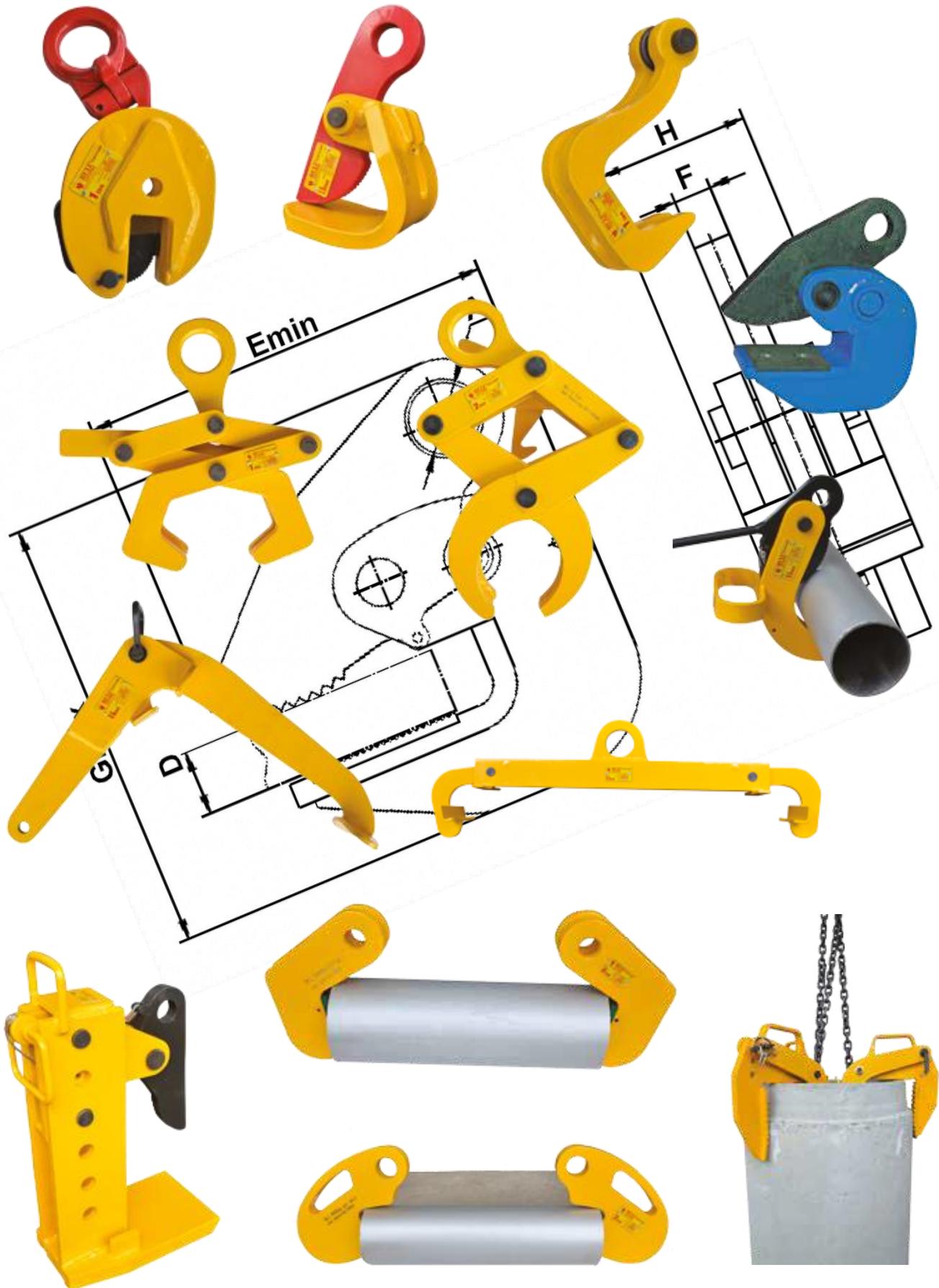


### WLL OF WIRE ROPE SLINGS FROM ROPES 6x36 AND 6x19 WITH FC

### WLL OF WIRE ROPE SLINGS FROM ROPES 6x36 AND 6x19 WITH WRC

	One leg	Two legs		Three and four legs		Endless
	0°	0°+45°	45°+60°	0°+45°	45°+60°	
Working angle						
Rope diameter	direct	direct	direct	direct	direct	choked
	WLL (T)					
8	0,700	0,950	0,700	1,50	1,05	1,10
9	0,850	1,20	0,850	1,80	1,30	1,40
10	1,05	1,50	1,05	2,25	1,60	1,70
11	1,30	1,80	1,30	2,70	1,95	2,12
12	1,55	2,12	1,55	3,30	2,30	2,50
13	1,80	2,50	1,80	3,85	2,70	2,90
14	2,12	3,00	2,12	4,35	3,15	3,30
16	2,70	3,85	2,70	5,65	4,20	4,35
18	3,40	4,80	3,40	7,20	5,20	5,65
20	4,35	6,00	4,35	9,00	6,50	6,90
22	5,20	7,20	5,20	11,0	7,80	8,40
24	6,30	8,80	6,30	13,5	9,40	10,0
26	7,20	10,0	7,20	15,0	11,0	11,8
28	8,40	11,8	8,40	18,0	12,5	13,5
32	11,0	15,0	11,0	23,5	16,5	18,0
36	14,0	19,0	14,0	29,0	21,0	22,5
40	17,0	23,5	17,0	36,0	26,0	28,0
44	21,0	29,0	21,0	44,0	31,5	33,5
48	25,0	35,0	25,0	52,0	37,0	40,0
52	29,0	40,0	29,0	62,0	44,0	47,0
56	33,5	47,0	33,5	71,0	50,0	54,0
60	39,0	54,0	39,0	81,0	58,0	63,0

	One leg	Two legs		Three and four legs		Endless
	0°	0°+45°	45°+60°	0°+45°	45°+60°	
Working angle						
Rope diameter	direct	direct	direct	direct	direct	choked
	WLL (T)					
8	0,750	1,05	0,750	1,55	1,10	1,20
9	0,950	1,30	0,950	2,00	1,40	1,50
10	1,15	1,60	1,15	2,40	1,70	1,85
11	1,40	2,00	1,40	3,00	2,12	2,25
12	1,70	2,30	1,70	3,55	2,50	2,70
13	2,00	2,80	2,00	4,15	3,00	3,15
14	2,25	3,15	2,25	4,80	3,40	3,70
16	3,00	4,20	3,00	6,30	4,50	4,80
18	3,70	5,20	3,70	7,80	5,65	6,00
20	4,60	6,50	4,60	9,80	6,90	7,35
22	5,65	7,80	5,65	11,8	8,40	9,00
24	6,70	9,40	6,70	14,0	10,0	10,6
26	7,80	11,0	7,80	16,5	11,5	12,5
28	9,00	12,5	9,00	19,0	13,5	14,5
32	11,8	16,5	11,8	25,0	17,5	19,0
36	15,0	21,0	15,0	31,5	22,5	23,5
40	18,5	26,0	18,5	39,0	28,0	30,0
44	22,5	31,5	22,5	47,0	33,5	36,0
48	26,0	37,0	26,0	55,0	40,0	42,0
52	31,5	44,0	31,5	66,0	47,0	50,0
56	36,0	50,0	36,0	76,0	54,0	58,0
60	42,0	58,0	42,0	88,0	63,0	67,0
Factor K <sub>L</sub>	1	1,4	1	2,1	1,5	1,6

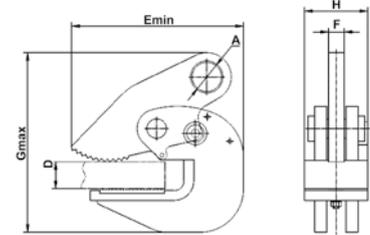


# Clamps

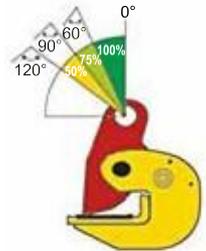
## HORIZONTAL CLAMPS WITH JAGGED JAW AND BIGGER OPENING, TYPE QP-B

Safety capacity 4:1. Working angle – according chart

The horizontal clamps with jagged jaw, type QP-B, for 0.75 t, 1.5 t and 2.5 tons provide a safe and flexible way for lifting and moving of steel plates in horizontal position. They are distinguished with compact size and are very easy to carry. These clamps also have a safety switch.



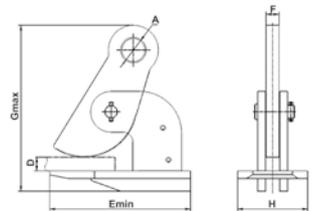
Model	WLL (t)		Proof load (kN)		Maximum opening (mm)	Sizes (mm)						Weight (kg)	
	single	double	single	double		A	D	Emin	F	Gmax	H	single	double
QP-B 0.75	0.75	1.5	15	30	25	∅ 25	0-27	128	14	175	50	2.4	4.8
QP-B 1.5	1.5	3	30	60	30	∅ 30	0-32	157	16	204	65	4	8
QP-B 2.5	2.5	5	50	100	45	∅ 40	0-47	231	24	312	90	14.2	28.4



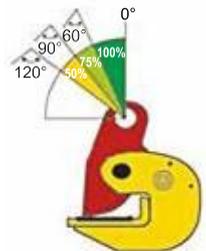
## HORIZONTAL CLAMPS WITH EXTENDED JAW, TYPE QP-A

Safety capacity 4:1. Working angle – according chart

These horizontal clamps have a slightly extended and smooth jaw. They are more economical version than the QP-B clamps, with a simpler design. The QP-A types do not have a safety switch. They have a bigger jaw surface than the QP-B type which compensates the lack of a jagged pad.



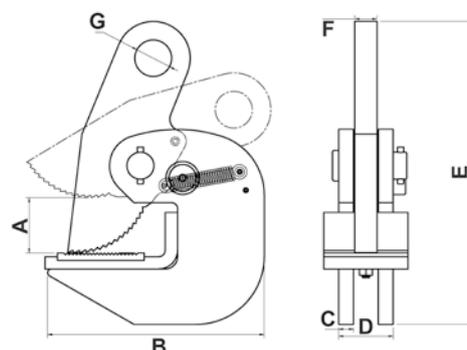
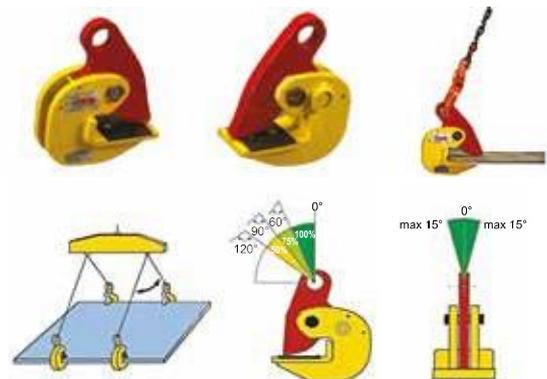
Model	WLL (T)		Proof load (kN)		Maximum opening (mm)	Sizes (mm)						Weight (kg)	
	single	double	single	double		A	D	Emin	F	Gmax	H	single	double
QP-A 0.75	0.75	1.5	15	30	50	∅ 30	0-52	133	16	205	100	4.1	8.2
QP-A 1.5	1.5	3	30	60	50	∅ 36	0-52	220	19	266	110	7.5	15
QP-A 2.5	2.5	5	50	100	60	∅ 40	0-62	260	22	317	130	13.8	27.6
QP-A4	4	8	80	160	100	∅ 40	0-103	290	25	426	165	30.5	61



## HORIZONTAL CLAMPS WITH JAGGED WORKING SURFACE, TYPE PPD

Safety capacity 4:1. Working angle – according chart

These clamps are suitable for lifting and moving of steel plates in horizontal position. They are made of high quality carbon steel. When working, avoid shock loading. The working load limit is calculated with a maximum lifting angle of 60° and on pairs. During working operations these clamps can be used in one pair or in several pairs. They have a safety switch.

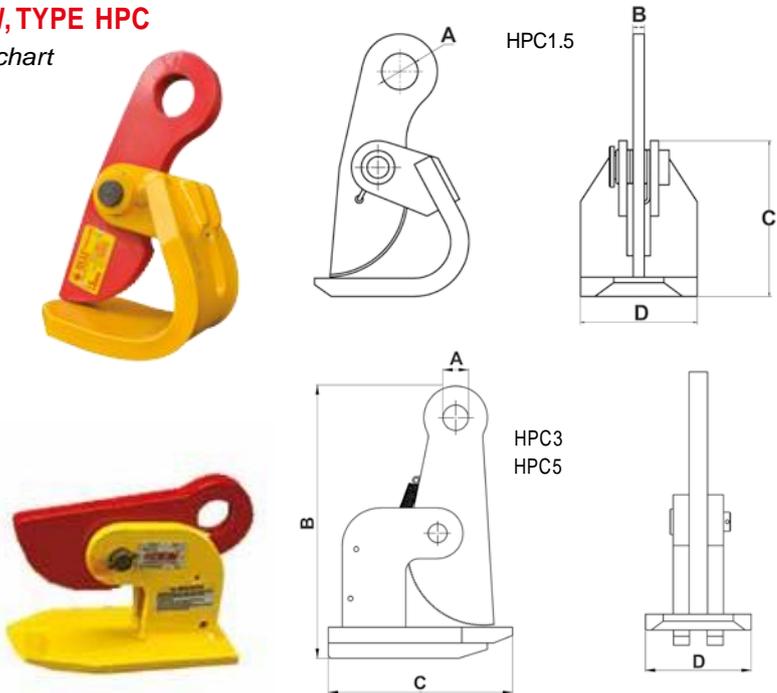
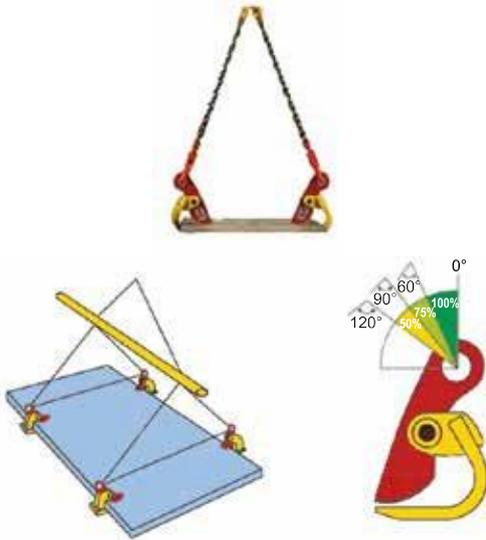


Model	WLL per pair (T)	Proof load (T)	Opening (mm)	A	B	C	D	E	F	G	Weight (kg)
PPD 0.8	0.8	1.6	0-25	0-25	125	10	40	165	14	22	2.5
PPD 1	1.0	2.0	0-30	0-30	148	10	40	205	16	25	3.5
PPD 1.6	1.6	3.2	0-30	0-30	148	12	45	205	16	30	4
PPD 2	2.0	4.0	0-40	0-40	172	10	47	245	18	30	5
PPD 3.2	3.2	6.4	0-45	0-45	180	14	50	245	18	30	6
PPD 4	4.0	8.0	0-50	0-50	170	14	52	260	18	30	6.5
PPD 5	5.0	10.0	0-55	0-55	180	16	56	260	20	30	7.5
PPD 6	6.0	12.0	0-65	0-65	210	18	62	308	22	37	10.5
PPD 8	8.0	16.0	0-100	0-100	282	20	65	400	25	55	22
PPD 10	10.0	20.0	0-125	0-125	325	22	75	500	28	55	33

## HORIZONTAL CLAMPS WITH SMOOTH JAW, TYPE HPC

Safety capacity 4:1. Working angle – according chart

These clamps are suitable for lifting and moving of steel plates in horizontal position. They are made of high quality carbon steel. When working, avoid shock loading. Must be used in pairs only.

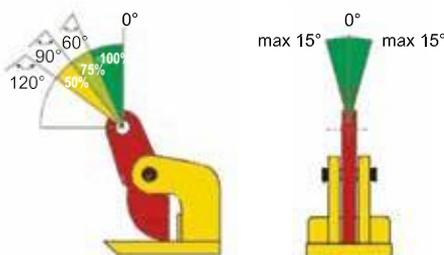
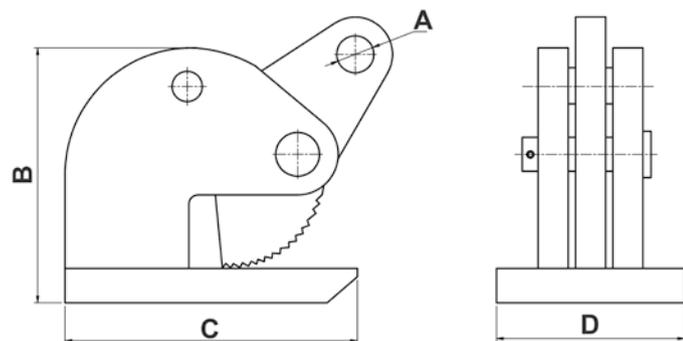


Model	WLL perpair (T)	Opening (mm)	Proof load (T)	A	B	C	D	Weight (kg)
HPC 1.5	1.5	0-50	3	30	16	126	100	4.3
HPC 3	3.0	0-50	6	36	240	220	110	6
HPC 5	5.0	0-60	10	40	280	260	130	12

## HORIZONTAL CLAMPS FOR THIN SHEET IRONS, TYPE PDL

Safety capacity 4:1. Working angle – according chart WLL 1.6 tons – 3.2 tons

These clamps are suitable when working with thinner sheet irons that can be easily deflected. While lifting, the clamps themselves act as a safety feature and keep the load safe. They are made of high quality carbon steel. When working, avoid shock loading. The working load limit is calculated with a maximum lifting angle of 60° and on pairs. During working operations these clamps can be used in one pair or in several pairs.

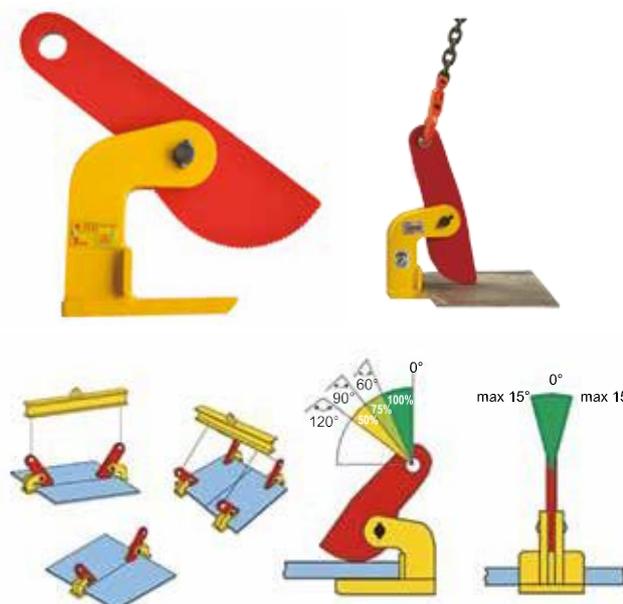
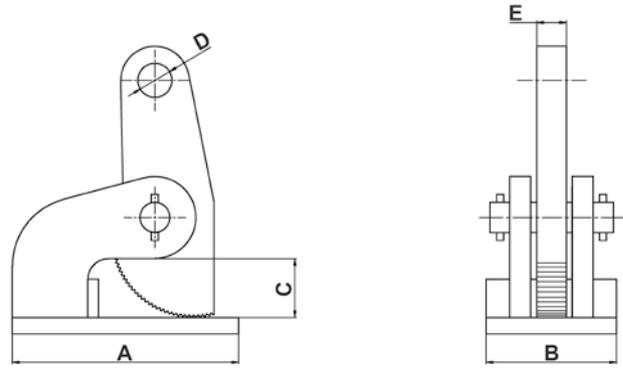


Model	WLL perpair (T)	Opening (mm)	Proof load (T)	A	B	C	D	Weight (kg)
PDL 1.6	1.6	0-45	3.2	22	152	195	100	7.5
PDL 3.2	3.2	0-45	6.4	30	163	205	105	10

## HORIZONTAL CLAMPS WITH BIG JAW OPENING TYPE THKS (0-60 mm) AND TYPE THK (0-100 mm)

Safety capacity 4:1. Working angle – according chart WLL: 1 ton – 10 tons

These clamps are suitable for lifting and moving of steel plates in horizontal position. They are distinguished with a compact size, light own weight and a high lifting capacity. Must be used in pairs. They have a bigger opening of the jaw.

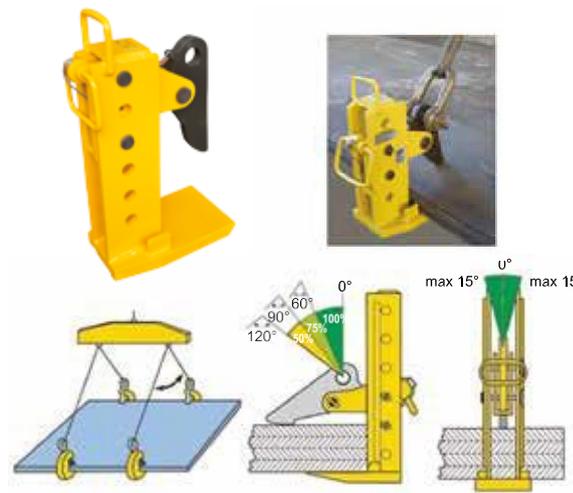
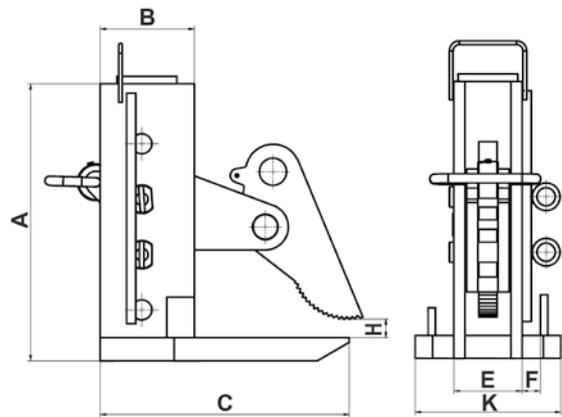


Model	WLL per pair (T)	Proof load (T)	Opening (mm)	A	B	C	D	E	Weight (kg)
THKS 0.5	0.5	1.0	0-35	165	60	43	25	14	2.4
THKS 1	1.0	2.0	0-60	180	80	68	25	16	6
THKS 1.5	1.5	3.0	0-60	180	80	68	25	16	6.5
THKS 2	2.0	4.0	0-60	180	80	68	25	16	7.5
THKS 3	3.0	6.0	0-60	220	90	80	30	16	10
THKS 4	4.0	8.0	0-60	220	90	70	30	20	11.5
THKS 5	5.0	10.0	0-60	220	110	74	30	25	15.5
THKS 10	10.0	20.0	0-60	220	130	78	40	30	23
THK 1	1.0	2.0	0-100	180	80	120	25	16	7
THK 1.5	1.5	3.0	0-100	180	80	120	25	16	7.5
THK 2	2.0	4.0	0-100	180	80	120	30	16	9.5
THK 3	3.0	6.0	0-100	220	90	120	30	16	12
THK 4	4.0	8.0	0-100	220	90	120	30	20	14.5
THK 5	5.0	10.0	0-100	220	110	124	45	25	20
THK10	10.0	20.0	0-100	235	125	120	45	30	22

## MULTI-PLATE CLAMPS, TYPE PDK

Safety capacity 4:1. Working angle – according chart WLL: 3 tons – 15 tons

These clamps are suitable for lifting and moving of several steel plates. They are made of high quality carbon steel. When working, avoid shock loading. The working load limit is calculated with a maximum lifting angle of 60° and on pairs. During working operations these clamps can be used in one pair or in several pairs. Depending on the thickness and number of steel plates, when working adjust the latch of the plates correctly.



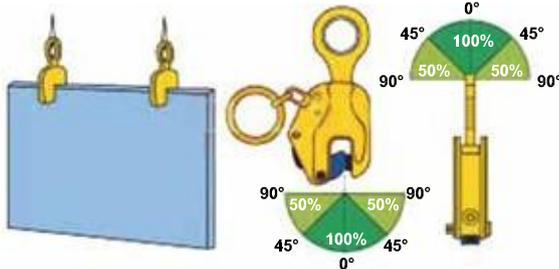
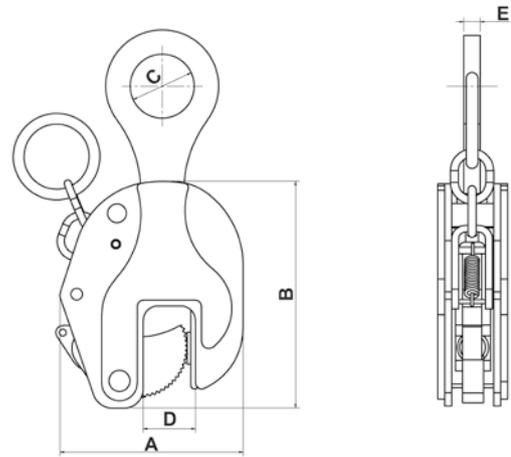
Model	WLL per pair (T)	Opening H (mm)	Proof load (T)	A	B	C	E	F	K	Weight (kg)
PDK 3	3.0	0-180	6	300	102	270	74	20	158	19
PDK 4.5	4.5	0-240	9	420	120	280	74	24	158	26
PDK 6	6.0	0-240	12	450	123	300	88	28	175	40
PDK 8	8.0	0-240	16	515	128	310	92	30	200	51
PDK 15	15.0	0-240	30	565	138	324	108	36	235	72

## VERTICAL CLAMPS, TYPE CDH

Safety capacity 4:1. Working angle – according chart WLL: 0.8 tons – 16 tons

These are standard clamps suitable for lifting and moving of steel plates in a vertical position. They have a spring lock mechanism that provides initial clamping force.

The clamps are equipped with a special mechanism that guarantees safe lifting and safe lowering of the load.



Model	WLL per piece	Opening (mm)	Proof load (T)	A	B	C	D	E	Weight (kg)
CDH 0.8	0.8	0-16	1.6	123	151	40	30	12	2.8
CDH 1	1.0	0-22	2	124	158	50	30	14	3.6
CDH 2	2.0	0-30	4	154	190	54	40	16	5.5
CDH 3	3.0	0-40	6	180	230	60	50	18	10
CDH 5	5.0	0-50	10	222	283	68	62	18	17
CDH 8	8.0	0-60	16	265	310	65	71	22	26
CDH 10	10.0	0-80	20	290	365	80	90	25	32
CDH 12	12.0	25-90	24	408	458	80	140	25	48
CDH 16	16.0	60-125	32	465	473	100	162	30	80

## VERTICAL CLAMPS, TYPE SCDH

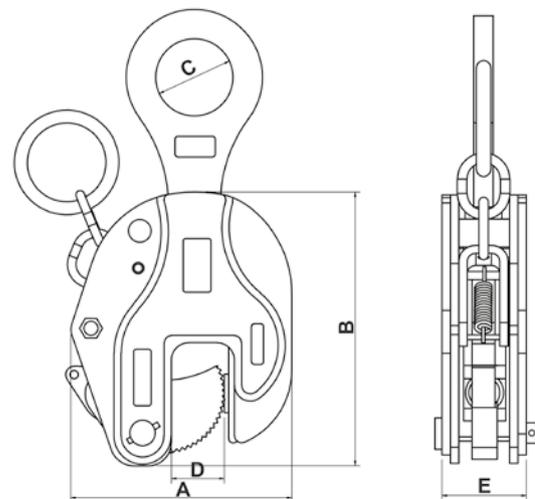
Safety capacity 4:1. Working angle – according chart WLL: 1 ton – 5 tons

These are standard clamps suitable for lifting and moving of steel plates in a vertical position. They have a spring lock mechanism that provides initial clamping force.

The clamps are equipped with a special mechanism that guarantees safe lifting and safe lowering of the load.

The main body and the shackle of the clamps are made by special forged alloy steel.

The clamps are hardened for maximum strength and durability.

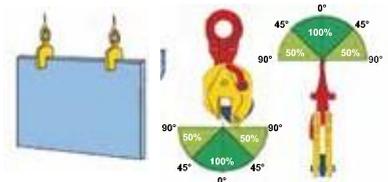


Model	WLL per piece	Opening (mm)	Proof load (T)	A	B	C	D	E	Weight (kg)
SCDH 1	1.0	0-22	2	125	158	48	23	53	4.3
SCDH 2	2.0	0-32	4	153	190	48	33	64	7.2
SCDH 3	3.0	0-36	6	172	225	58	38	73	10.7
SCDH 5	5.0	0-50	10	225	265	65	53	75	17.3

## VERTICAL CLAMPS WITH SOLID HANDLE, TYPE QC-B

Safety capacity 4:1. Working angle – according chart

These clamps are more economical version than the QC-A type. With simpler design and spring self-locking device. Easy to work with and easy to maintenance.

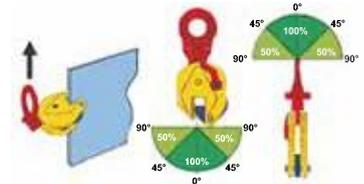


Model	WLL (t)	Proof load (kN)	Maximum opening (mm)	Sizes (mm)								Weight (kg)
				A	B	C	D	E <sub>min</sub>	F	G <sub>max</sub>	H	
QC-B 1	1	20	22	ø 48	62	35	0-25	114	14	279	66	3.8
QC-B 2	2	40	30	ø 58	76	45	0-34	154	15	314	83	6.3
QC-B 3	3	60	35	ø 62	75	48	0-39	170	19	378	93	9.6
QC-B 5	5	100	50	ø 80	95	69	0-54	213	23	466	106	19

## VERTICAL CLAMPS WITH HINGED HANDLE, TYPE QC-A

Safety capacity 4:1. Working angle – according chart

These QC-A vertical clamps for 1/2 t, 2 t, 3 t and 5 tons are suitable for lifting and moving of steel plates in vertical position. They are equipped with self-locking device and a hinged handle which makes the work with the clamps easier and safer.



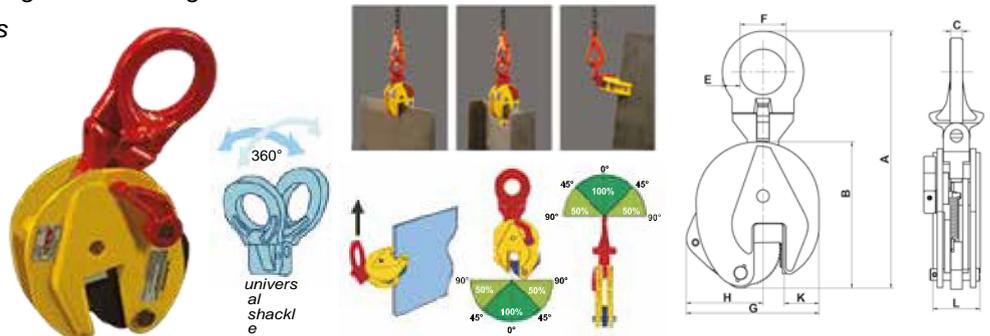
Model	WLL (t)	Proof load (kN)	Maximum opening (mm)	Sizes (mm)								Weight (kg)
				A	B	C	D	E <sub>min</sub>	F	G <sub>max</sub>	H	
QC-A 0.5	0.5	10	15	Φ30	43	34	0-17	106	10	216	50	2
QC-A 1	1	20	20	Φ48	63	50	0-22	145	12	292	66	4.5
QC-A 2	2	40	25	Φ68	78	61	0-27	174	16	369	76	7.3
QC-A 3	3	60	30	Φ74	85	57	0-32	207	20	428	102	15
QC-A 5	5	100	50	Φ80	100	66	0-52	240	24	481	110	21.6

## UNIVERSAL CLAMPS FOR HORIZONTAL, VERTICAL AND SIDELONG LIFTING WITH HINGED HANDLE, TYPE CD

Safety capacity 4:1. Working angle – according

chart WLL: 0.8 tons – 16 tons

These clamps are suitable for horizontal, vertical and sidelong lifting and moving of steel plates. The CD type is equipped with a hinged handle. The clamps are equipped with a special mechanism that guarantees safe lifting and safe lowering of the load. They are made by high quality carbon steel.

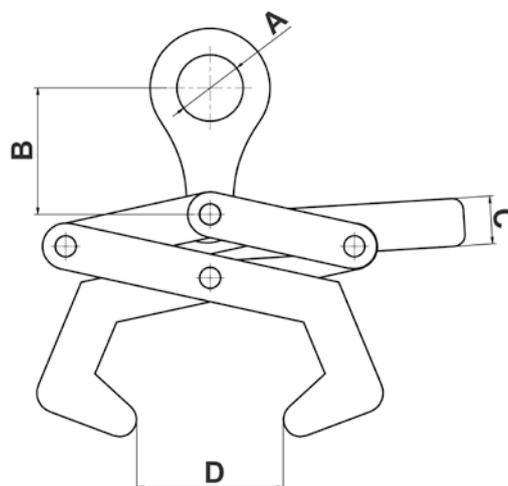


Model	WLL per piece	Opening (mm)	Proof load (T)	A	B	C	E	F	G	H	K	L	Weight (kg)
CD 0.8	0.8	0-15	1.6	205	125	10	11,5	30	105	64	29	44	2
CD 1	1.0	0-20	2	290	170	12	16	50	145	84	42	60	5
CD 2	2.0	0-25	4	375	205	18	22,5	68	175	98	55	65	8
CD 3.2	3.2	0-30	6.4	425	237	20	29	75	215	120	55	90	15
CD 5	5.0	0-50	10	480	262	20	30	68	232	140	59	102	23
CD 8	8.0	0-45	16	600	330	28	38	88	290	155	77	115	37
CD 12	12.0	50-90	24	700	380	25	45	90	420	243	135	120	50
CD 16	16.0	60-100	32	710	410	30	50	100	445	245	110	120	65

## RAIL CLAMPS, TYPE YT

Safety capacity 4:1  
WLL: 1 ton

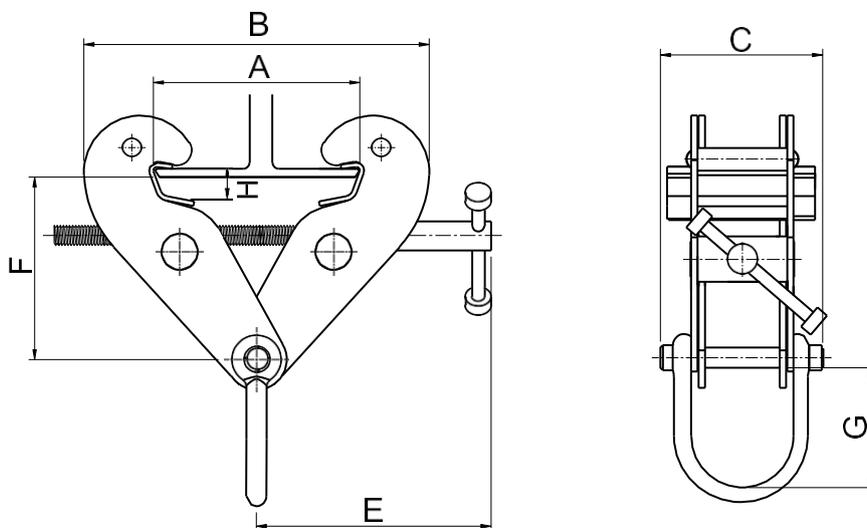
These clamps are suitable for lifting and moving of rails. They are safe and easy to work with. They are also available with an automatic open/close device.



Model	WLL per piece	Opening (mm)	Proof load (t)	A	B	C	Weight (kg)
YT 1	1.0	20-100	2	50	95	36	8

## BEAM CLAMPS WITH SHACKLE, TYPE WJC

Safety capacity 4:1

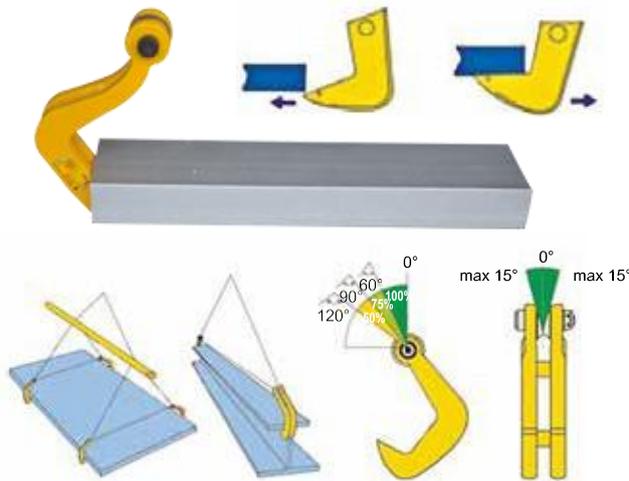
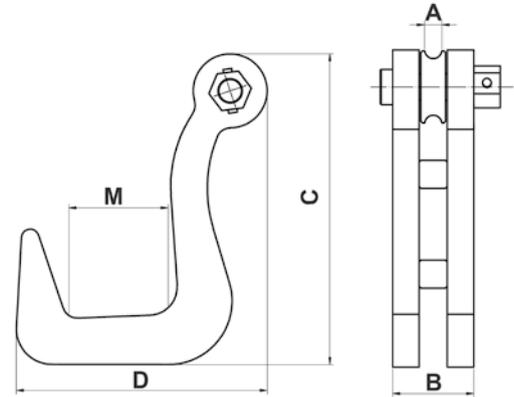


Model	WLL per piece	Proof load (T)	Jaw opening	A max	B		C	D	E	F		G	H	Weight (kg)
					min	max				min	max			
WJC 1T	1	2	75-220	260	180	330	138	122	220	132	155	88	22	5.5
WJC 2T	2	4	75-220	260	180	330	156	122	220	132	155	91	22	6.6
WJC 3T	3	6	80-320	390	265	466	195	150	262	178	228	108	35	12.5
WJC 5T	5	10	80-320	390	265	466	237	150	262	178	228	108	35	17.5
WJC 10T	10	20	80-350	390	285	520	310	200	300	186	236	176	35	33

## DOUBLE CLAMPS FOR LIFTING, TYPE QS

Safety capacity 4:1. Working angle – according chart WLL: 1 ton – 7 tons

These clamps are suitable for lifting of steel plates with shapes, as follows: H, I, T and L. They are made of high quality carbon steel. When working, avoid shock loading. The roll at the top of the clamp protects the sling rope from damaging. The working load limit is calculated with a maximum lifting angle of 60° and on pairs. During working operations these clamps can be used in one pair or in several pairs.



Model	WLL per pair (t)	Opening (mm)	Proof load (t)	A	B	C	D	Weight (kg)
QS1	1.0	0-40	2	10	46	176	142	2
QS2	2.0	0-50	4	12	54	170	220	3.5
QS3.2	3.2	0-60	6.4	15	72	275	204	6
QS5	5.0	0-70	10	24	87	388	265	14.5
QS7	7.0	0-90	14	32	94	438	310	22

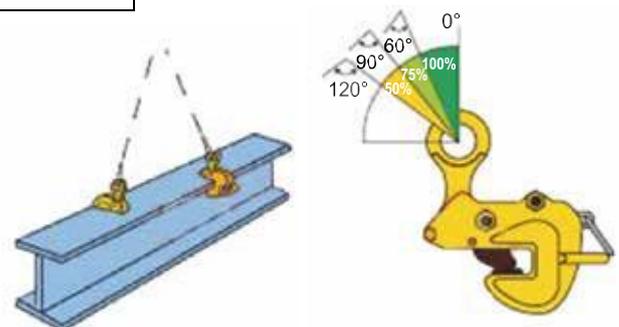
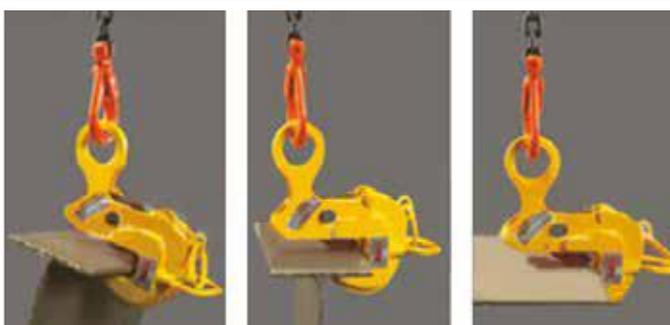
## HORIZONTAL CLAMPS WITH A LOCKING DEVICE, TYPE TMS

Safety capacity 4:1. Working angle – according chart WLL: 0.5 tons – 5 tons

These clamps are suitable for lifting and moving of steel plates, different constructions and profile bars in a horizontal position. They are made of high quality carbon steel. When working, avoid shock loading. The clamps have a spring lock mechanism that provides initial clamping force. They are also equipped with a handle that provides an easy and a safe way of attaching and detaching of the load.



Model	WLL per piece (t)	Proof load (t)	Opening (mm)	Weight (kg)
TMS 0.5	0.5	1.0	0-25	3.2
TMS 1	1.0	2.0	0-25	5.3
TMS 2	2.0	4.0	0-30	7.9
TMS 3	3.0	6.0	0-38	10.5
TMS 5	5.0	10.0	0-40	27.6



## HORIZONTAL CLAMPS, TYPE LM

Safety capacity 4:1

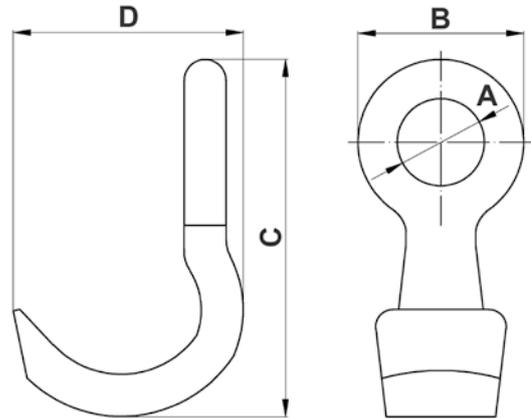
WLL: 3 tons – 10 tons

These clamps are suitable for lifting and moving of steel plates in a horizontal position. When working, avoid shock loading.

The working load limit is calculated with a maximum lifting angle of 60° and on pairs.

During working operations these clamps can be used in one pair or in several pairs.

The body of the clamp is made by special forged alloy steel which provides maximum strength and durability of the item.



Model	WLL per pair (t)	Opening (mm)	Proof load (t)	A	B	C	D	Weight (kg)
LM5	5	0-70	10	74	139	340	175	10
LM 10	10	0-125	20	113	200	450	245	22.5

## CLAMPS WITH A SCREW BOLT, TYPE STC

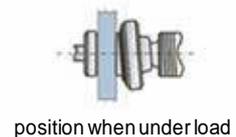
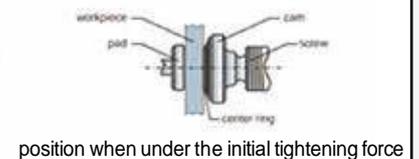
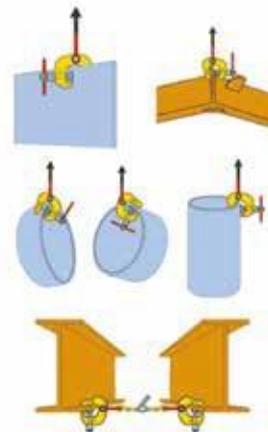
Safety capacity 4:1

WLL: 1.5 tons – 3 tons

These clamps are suitable for lifting and moving of steel plates with different shapes, including spherical. They are equipped with a movable cam which provides high clamping force. Designed to work combined with a ratchet lever hoist and are mainly used in the construction working operations.

The movable lifting eye of the clamps ensures an effective clamping force in all positions.

Model	WLL per piece (T)	Proof load (T)	Opening (mm)	Weight (kg)
STC 1.5	1.5	3	0-32	4
STC 3	3.0	6	0-50	6

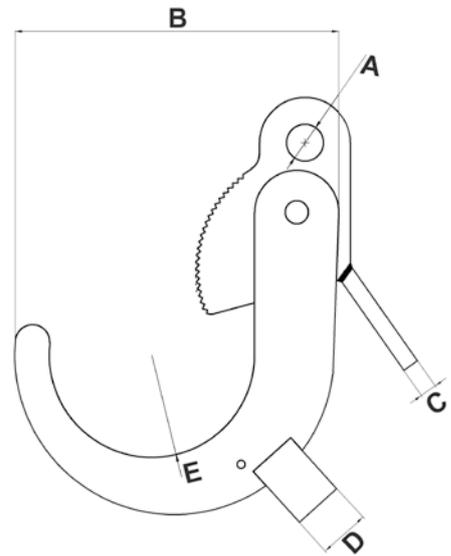


**CLAMPS FOR PIPES AND ROUND LOADS, TYPE YD**

Safety capacity 4:1

WLL: 0.5 tons

These clamps are suitable for safe lifting and moving of metal and concrete pipes in a horizontal position. They are very easy to work with. Also available with an automatic spring device.



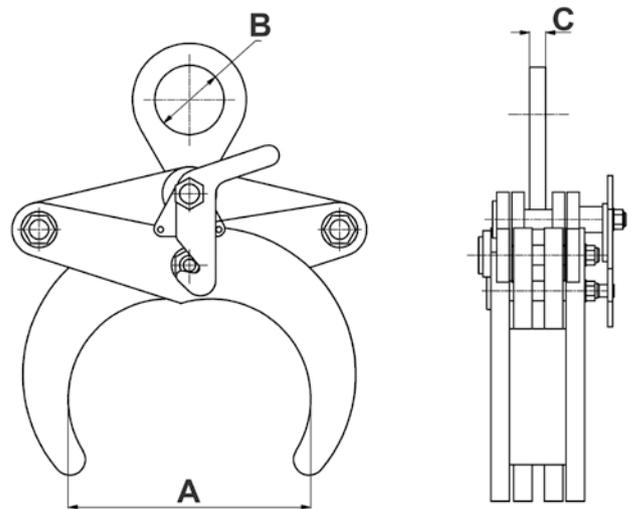
Model	WLL per piece (t)	Proof load (t)	Opening (mm)	A	B	C	D	E	Weight (kg)
YD 0.5	0.5	1.0	100-120	22	190	10	30	61	2.5

**CLAMPS FOR PIPES AND ROUND LOADS, TYPE YG**

Safety capacity 4:1

WLL: 0.5 – 5 tons

These clamps are suitable for safe lifting and moving of metal and concrete pipes, along with other round loads, in a horizontal position, till diameter 320 mm. They are very easy and safe to work with. Also available with an automatic open/close mechanism.



Model	WLL per piece (T)	Proof load (T)	Opening A (mm)	B	C	Weight (kg)
YG 0.5	0.5	1	50-100	40	12	3.2
YG 1	1.0	2	50-100	50	14	4.1
YG 2	2.0	4	80-130	55	16	16
YG 3	3.0	6	120-220	60	18	32
YG 5	5.0	10	200-320	60	18	104

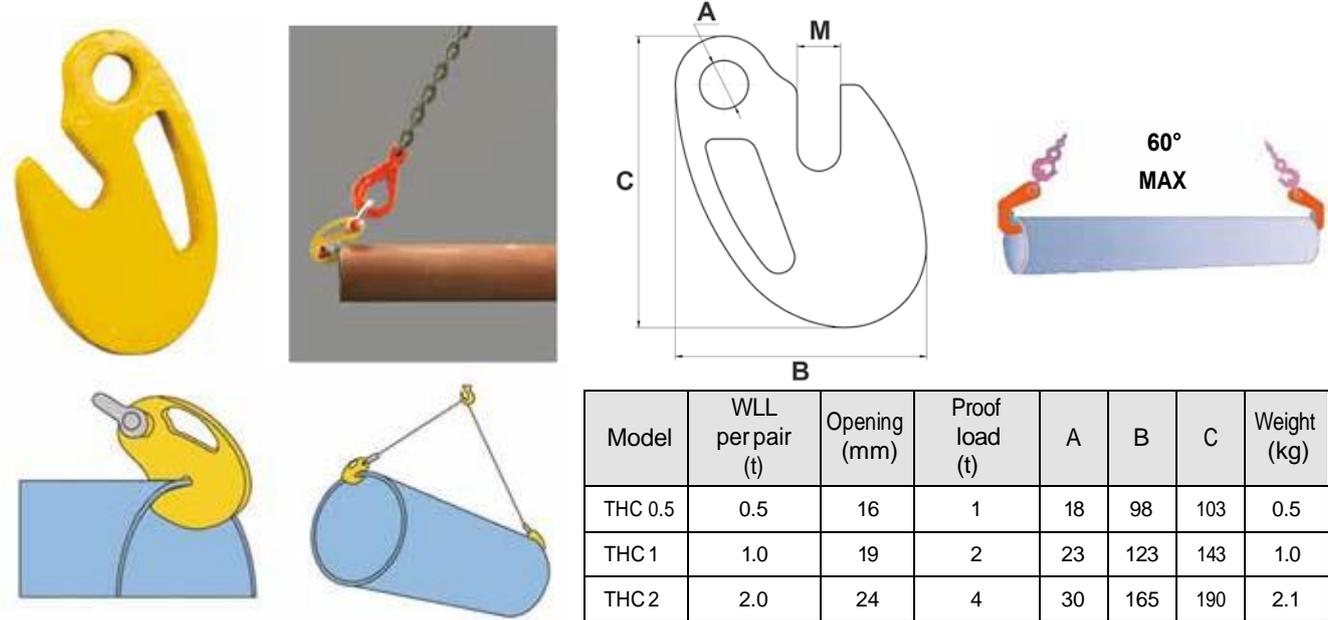
## HOOKS FOR PIPES, TYPE THC

Safety capacity 4:1. Working angle – according chart WLL: 0.2 – 2 tons

These hooks are suitable for safe lifting and moving of steel pipes, along with pipes made by other materials.

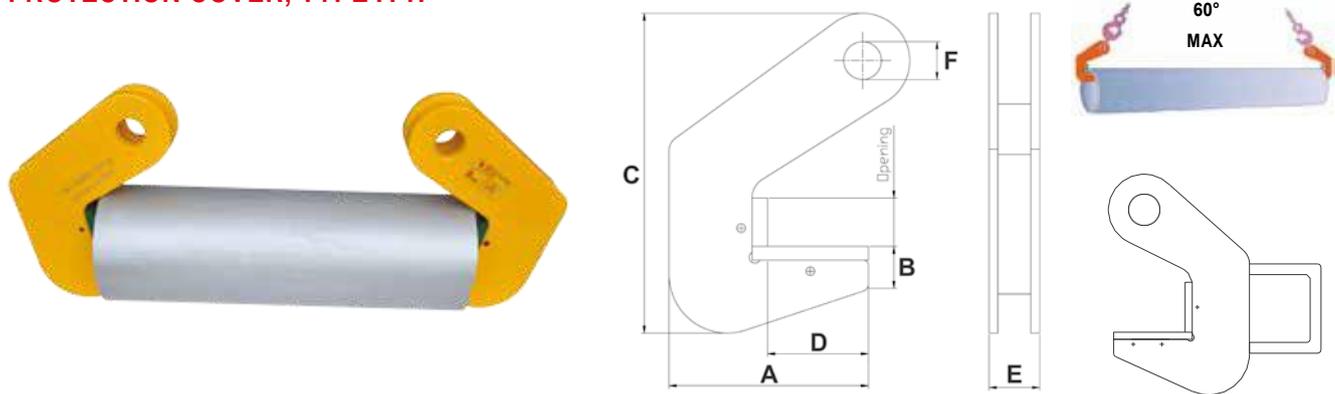
When connected to the load, the hooks are very stable during the entire working process.

They are made of special steel that ensures the additional strength and the durability of the item.



Model	WLL per pair (t)	Opening (mm)	Proof load (t)	A	B	C	Weight (kg)
THC 0.5	0.5	16	1	18	98	103	0.5
THC 1	1.0	19	2	23	123	143	1.0
THC 2	2.0	24	4	30	165	190	2.1

## HOOKS FOR PIPES WITH LONGITUDINAL GRIP AND PROTECTION COVER, TYPE TPH



Can be produced also with back handle.

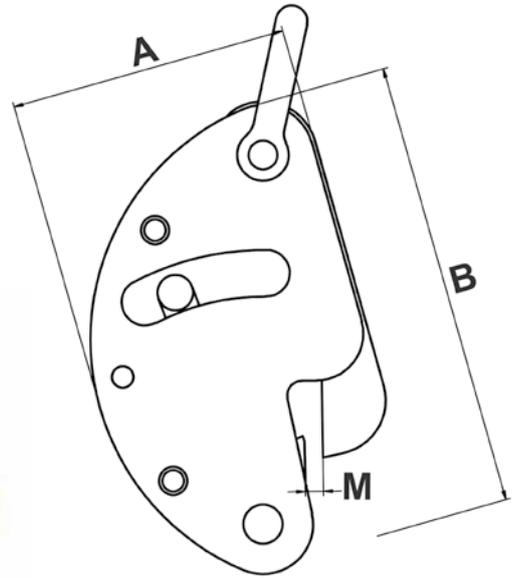
WLL per pair (kg)	Jaw opening (mm)	Sizes (mm)					
		A	B	C	D	E	F
1500	40	127	30	220	70	35	27
3000	40	142	32	228	70	35	27
4000	50	144	32	228	70	40	30
6000	50	152	34	232	70	40	30
8000	70	155	34	260	70	42	30
10000	70	175	32	322	70	46	33
12000	70	175	36	322	70	46	33
16000	70	175	36	322	70	56	40
18000	70	145	36	300	70	68	52

**VERTICAL DRUM CLAMPS, TYPE QT**

Safety capacity 4:1

WLL: 0.2 tons

These clamps are suitable for safe lifting and moving of drums. They are equipped with an automatic lock device. They can be used both singly and in pairs. When working, avoid shock loading. This type of clamps is distinguished by its extreme low weight, ensuring easier working operations.

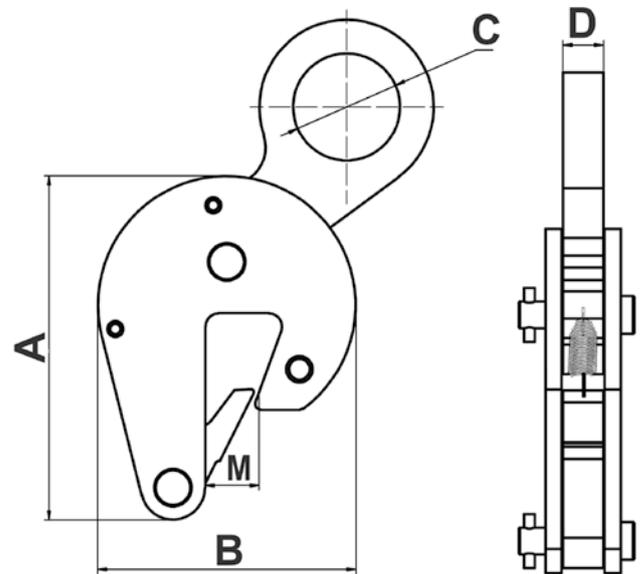
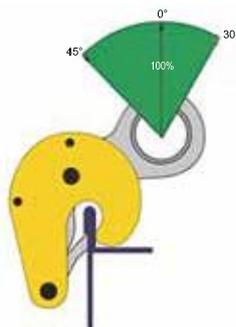


Model	WLL per piece (t)	Opening (mm)	Proof load (t)	A	B	Weight (kg)
QT 0.2	0.2	1-9	0.4	76	127	1.3

**VERTICAL DRUM CLAMPS, TYPE TDC**

Safety capacity 4:1. Working angle – according chart WLL: 0.5 tons

These clamps are suitable for safe lifting and moving of drums. They are equipped with an automatic lock device. They can be used both singly and in pairs. These clamps are with low weight and are very easy to work with.



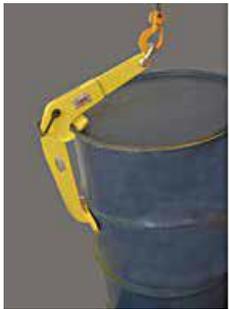
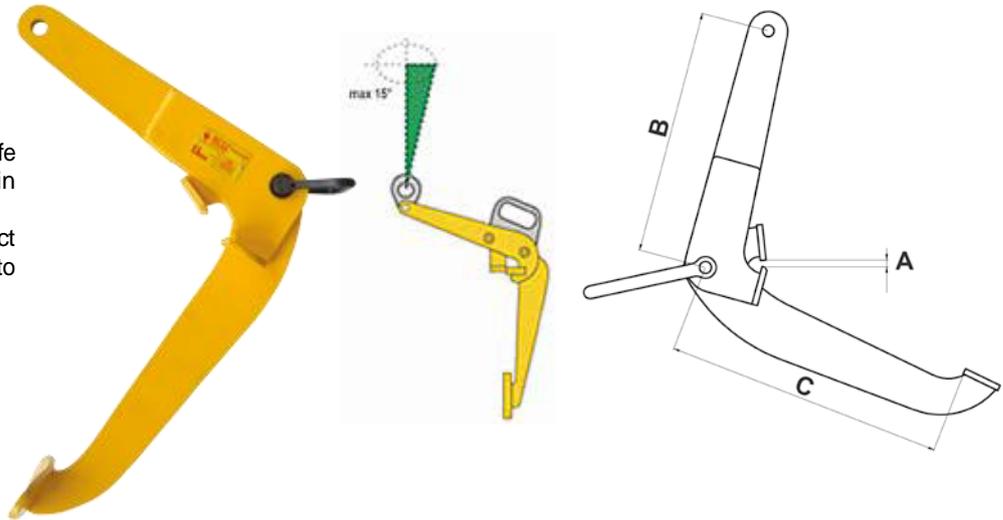
Model	WLL per piece (T)	Opening (mm)	Proof load (T)	A	B	C	D	Weight (kg)
TDC	0.5	0-17	1	128	96	40	16	1.6

**CLAMPS FOR DRUMS, TYPE YQC**

Safety capacity 4:1

Working angle – according chart WLL: 0.6 tons

These clamps are suitable for safe lifting and moving of barrels in horizontal position. They are produced with compact design and low weight, very easy to work with.



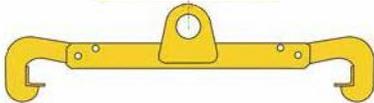
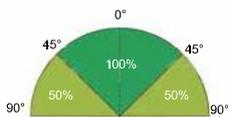
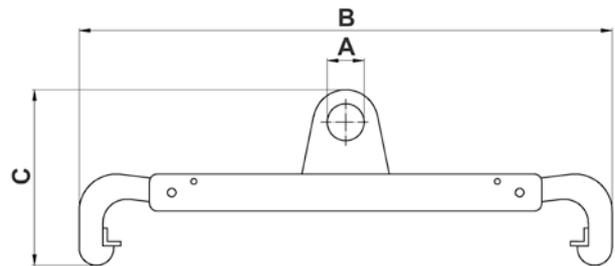
Model	WLL per piece (t)	Proof load (t)	A	B	C	Weight (kg)
YQC 0.6	0.6	1.2	0-30	310	385	5

**VERTICAL CLAMPS FOR BARRELS, TYPE LR**

Safety capacity 4:1

Working angle – according chart WLL: 0.5 tons

These clamps are suitable for safe lifting and moving of barrels in vertical position. They are produced with compact design and low weight, very easy to work with. Used when moving oil or other ingredients, when the drum must be straight!



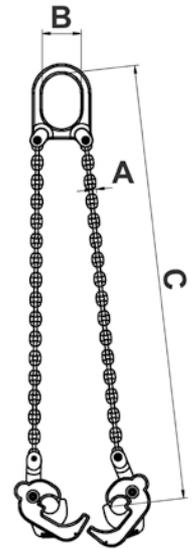
Model	WLL per piece (T)	Opening (mm)	Proof load (T)	A	B	C	Weight (kg)
LR 0.5	0.5	550-600	1	50	720	238	5

## UNIVERSAL DRUM CLAMPS FOR HORIZONTAL AND VERTICAL LIFTING, TYPE SL

Safety capacity 4:1

WLL: 1 ton

These clamps are suitable for safe lifting and moving of barrels, in any direction. They are equipped with an automatic lock device. They can be used both singly and in pairs. When working, avoid shock loading. These clamps are with low weight and are very easy to work with.



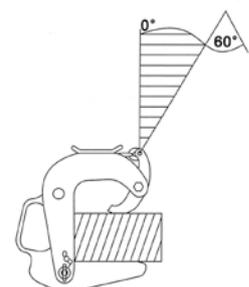
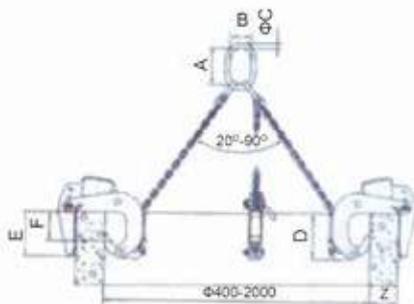
Model	WLL per pair (t)	Proof load (t)	A	B	C	Weight (kg)
SL1	1	2	6.3	66	690	3.6

## CLAMPS FOR CONCRETE PIPES, TYPE SM

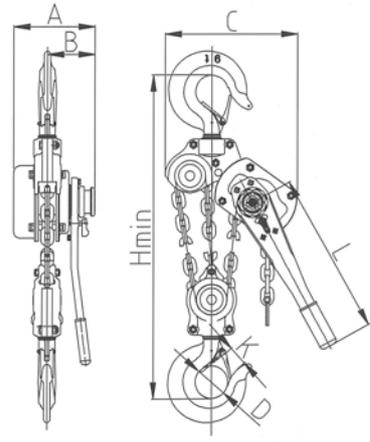
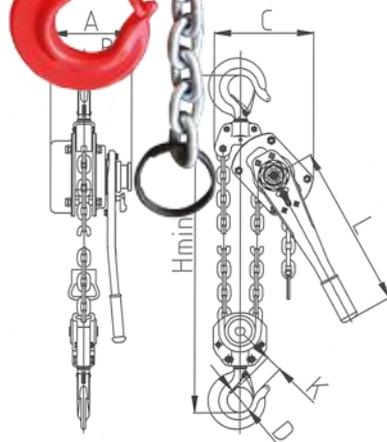
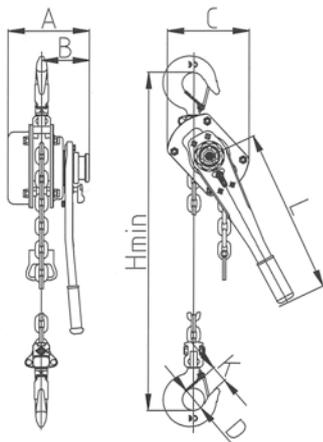
Safety capacity 4:1. Working angle – according chart WLL: 1.5 tons – 3 tons

These clamps are suitable for lifting of concrete pipes in vertical position. For safety work, it is necessary to use them in a set. The clamps are equipped with triple lifting protection that ensures the safety of the working operations; it also guarantees the safe lifting and moving of pipes with diameter till 2000 mm and weight till 3 tons.

Every item is equipped with a handle which makes the work even easier. These clamps are suitable for work in heavy conditions, while at the same time they are lightweight designed and are easy to carry.



WLL (T)	Jaw (mm)	Mouth depth E (mm)	Maximum pressure zone F (mm)	Weight (kg)	A (mm)	B (mm)	∅ C (mm)	D (mm)
1.5	40-120	165	100	10	135	75	18	180
3	50-180	245	175	18	180	100	26	310
3	90-220	245	175	24	180	100	26	310



0.75T-3.2T

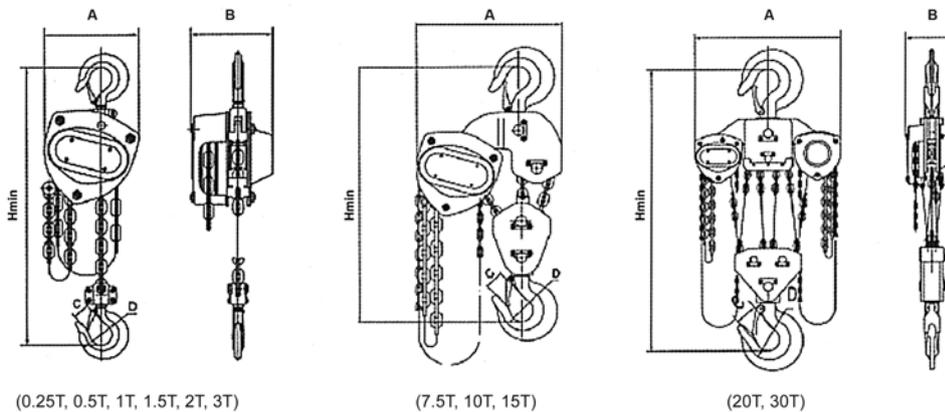
6.3T

9T

# Chain and lever hoists

## CHAIN HOISTS, TYPE BULL Z816

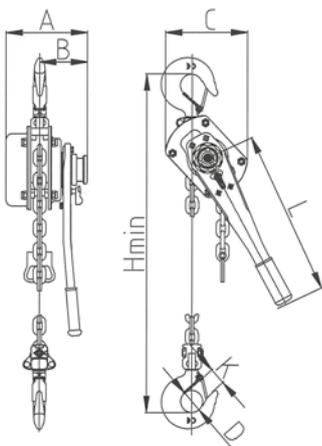
- New more ergonomic design with a completely new case shape!
- Unique overload structure – if the load is heavier than the permitted, the lifting process is automatically stopped by a restrictive mechanism (the item can be equipped with this mechanism by additional request).
- All movable elements of the hoist are mounted on needle or antifriction bearings, which ensures a smooth work process and a durability of all working operations.
- The welded sprockets with machine shaped slots ensure the precise working process of the manual chain and the load chain.
- The locking device placed in the drive mechanism ensures the safety of the working operations.
- The bottom hook is equipped with a bearing that allows the 360° rotation.
- The bottom hooks is also equipped with a special developed forged safety latch.
- The **Bull-Lifting** chain hoists are factory-tested with overloading according EN 13157 and every item has its own individual serial number.
- Unlike most chain hoists, the **Bull-Lifting** chain hoists are equipped with galvanized manual chain and load chain, which makes them durable and even easier to work with.
- The specially treated steel of the case allows outdoor use.
- By request the **Bull-Lifting** chain hoists can be equipped with all kinds of chain lengths according the customer's needs.



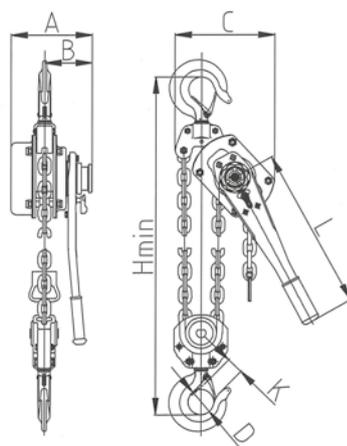
Model	WLL (T)	Standard lifting height (m)	Load chain diameter (mm)	Maximum manual load lifting effort (N)	Weight (kg)	Sizes (mm)				
						A	B	C	D	Hmin
Z816-025	250	3	ø 4x1	235	6.5	121	114	21	31	280
Z816-050	500	3	ø 5x1	240	9.3	148	132	23	35	345
Z816-100	1000	3	ø 6x1	250	12.2	172	151	27	40	376
Z816-150	1500	3	ø 7x1	265	16.5	196	173	33	45	442
Z816-200	2000	3	ø 8x1	335	19.5	210	175	35	50	470
Z816-300	3000	3	ø 10x1	372	32	255	205	39	55	548
Z816-500	5000	3	ø 10x2	360	41.1	280	189	45	65	688
Z816-750	7500	3	ø 10x3	370	62	463	189	54	75	700
Z816-1000	10000	3	ø 10x4	380	78.5	463	189	54	75	710
Z816-1500	15000	3	ø 10x6	380	120	420	208	82	106	950
Z816-2000	20000	3	ø 10x8	390	190	630	220	82	106	1100
Z816-3000	30000	3	ø 10x12	395	320	670	515	82	106	1800

## LEVER HOISTS, TYPE BULL H 816

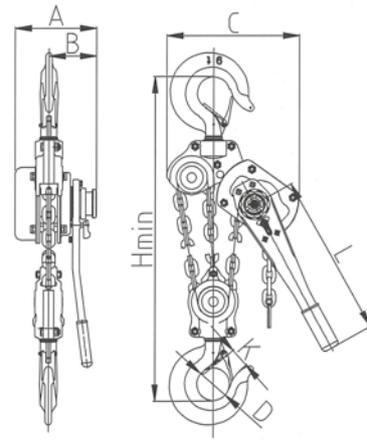
- This type of lever hoist allows not only the lifting of the load, but also its tightening in a horizontal position, like pulling hoist.
- Rising and positioning of the chain without a load, is available.
- All movable elements of the hoist are mounted on bearings, which ensure a smooth work process and a durability of all working operations.
- The bottom hook is equipped with a bearing that allows the 360° rotation.
- The bottom hook of the hoist is also equipped with a special developed forged safety latch.
- The **Bull-Lifting** lever chain hoists are factory-tested with overloading according EN 13157 and every item has its own individual serial number.
- Unlike most chain hoists, the **Bull-Lifting** lever chain hoists are equipped with galvanized load chain, which makes them durable and even easier to work with.
- The specially treated steel of the case allows outdoor use.
- By request the **Bull-Lifting** chain hoists can be equipped with all kinds of chain lengths according the customer's needs.



0.75T-3.2T



6T-6.3T

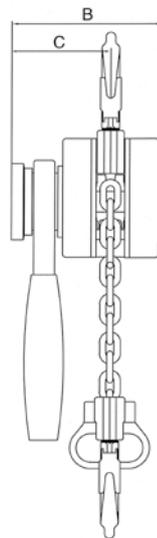
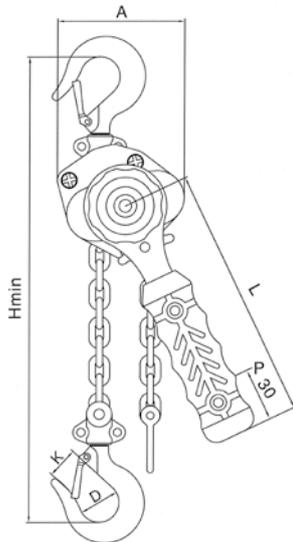


9T

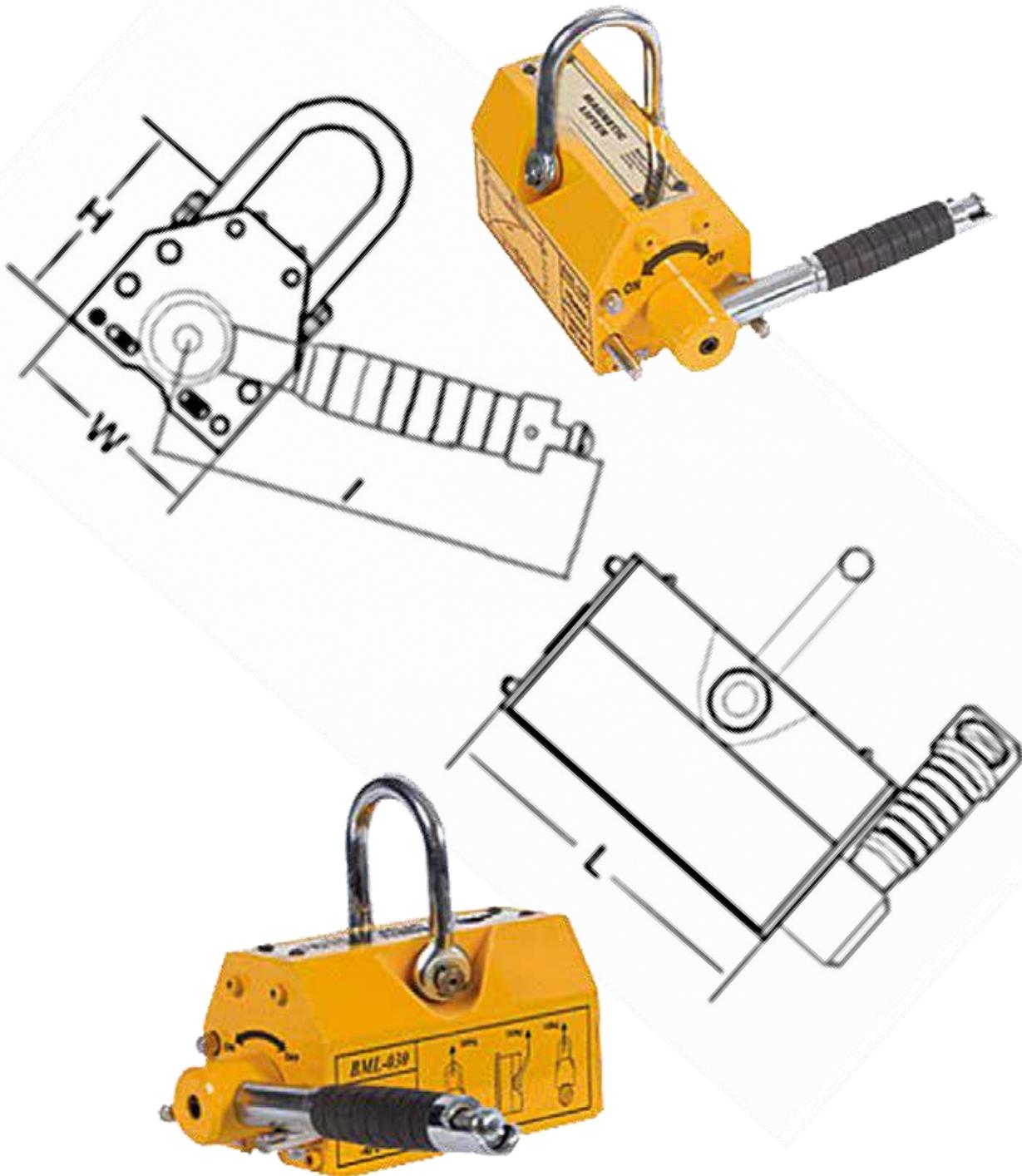
Model	WLL	Standard lifting height	Manual effort	Load chain diameter	Weight	Extra weight per meter	Sizes (mm)						
							A	B	C	Hmin	L	D	K
H 816	0.75	1.5	147 (15)	ø 6x1	6.6	0.81	160	100	133	320	290	38	28
H 816	1.5	1.5	294 (30)	ø 8x1	11.8	1.4	182	109	157	365	290	48	36
H 816	3	1.5	285 (29)	ø 10x1	21	2.2	207.5	121.5	210	465	420	58	43
H 816	6	1.5	314 (32)	ø 10x2	32	4.4	207.5	121.5	253	583	420	65	44
H 816	9	1.5	304 (31)	ø 10x3	47	6.6	207.5	121.5	338	690	420	85	54

## ALUMINIUM LEVER HOISTS, TYPE BULL-AL – FOR 250 KG AND 500 KG

- The lightest and most compact lever hoist on the market!
- The main components are made by aluminum.
- With shorter lever and four machine-shaped chain slots.
- Unique gearing system.
- Brake system with double safety fuse.
- The bottom hook is equipped with a bearing that allows the 360° rotation.
- The hook of the hoist is also equipped with a special developed forged safety latch.
- The **Bull-Lifting** chain hoists are factory-tested with overloading according EN 13157 and every item has its own individual serial number.
- Unlike most chain hoists, the **Bull-Lifting** chain hoists are equipped with galvanized load chain, which makes them durable and even easier to work with.



Model	WLL	Standard lifting height	Manualeffort	Chain diameter	Weight	Sizes (mm)						
						A	B	C	Hmin	L	D	K
Bull-AL 0.25	0.25	1	162 16.5	4.0x1	2	79.5	92	62	220	160	30	25
Bull-AL 0.5	0.5	1	200 20.5	5.0x1	3.2	100	102	62	280	160	30	25



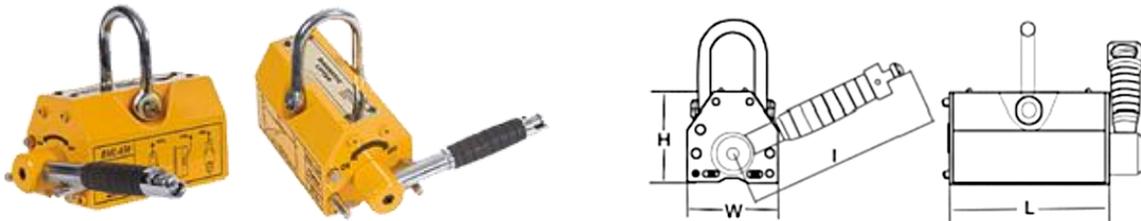
## *Permanent lifting magnets*

## PERMANENT LIFTING MAGNETS

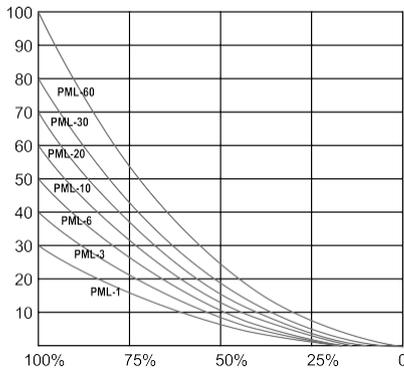
The permanent lifting magnets are extremely compact and easy to work with products. They give a new perspective in the lifting and handling of steel plates, pipes, beams and round loads, made by ferromagnetic material. The permanent lifting magnets provide not only a safe and easy way of work, but also thanks to their powerful magnetic force are extremely secure and reliable items. When working with these magnets, no electric power is needed, which allows operations on places where there is no power supply. The lifting and moving of the loads is done quick and easy thanks to the lever that the items are equipped with. Different WLLs are available – 100kg, 300kg, 600 kg, 1000kg, 1500kg, 2000kg, 3000 kg and 6000 kg.

The safety factor on **Bull-Lifting** magnets is 3.5! Safety device is also available. Working with permanent lifting magnets is extremely easy – when ready to lift, just switch the lever in an “ON” position; while working the safety device is always switched – until the load is released.

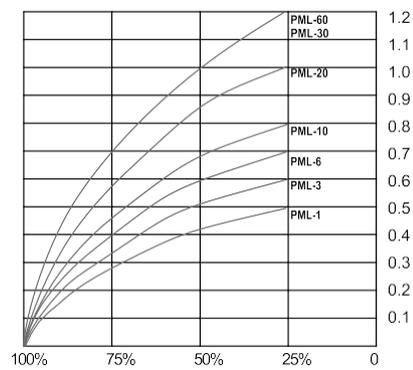
**Attention: Never switch the lever in an “ON” position if the magnet is not placed on an iron or steel load!**



THICKNESS OF THE STEEL (mm)

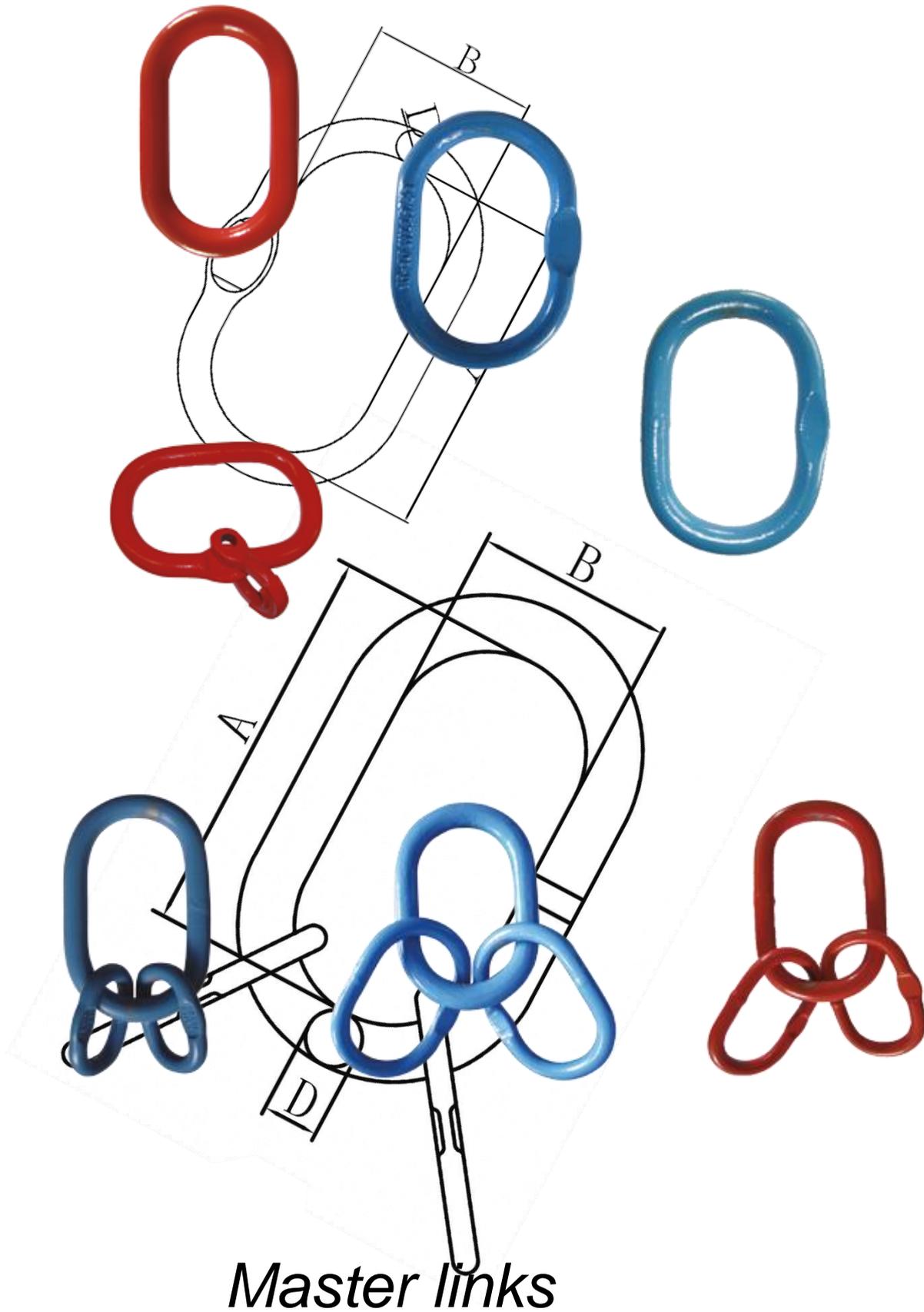


AIRGAP (mm)



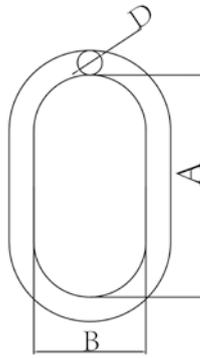
Model	WLL (kg)	WLL of cylindrical loads (kg)	Detachment force (kg)	W	L	H	I	Temperature (C°)	Weight (kg)
BullML 100	100	30	350	62	92	70	145	<80	3
BullML 300	300	100	1050	92	162	96	180		10
BullML 600	600	200	2100	122	232	120	220		24
BullML 1000	1000	300	3500	176	258	163	285		50
BullML 1500	1500	500	5250	205	320	190	375		70
BullML 2000	2000	600	7000	234	378	212	465		125
BullML 3000	3000	1000	10500	286	458	261	565		220
BullML 6000	6000	2000	18000	296	720	266	710		398

# RIGGING



## SINGLE MASTER LINK, TYPE BULL 033, FOR CHAIN ACCORDING EN818-2

- Standard: EN 1677-4 (previously DIN 5688-3)
- Material: alloy steel, heat treated and hardened
- With aWLL certificate
- With breaking load test and fatigue test of the batch
- With 100% magnetic-powder crack detection
- The surface of the item is treated with powdered plasticizer
- Color: orange RAL 2003 or red RAL 3020
- Suitable for one and two-legged slings

		Marking	EN818-2 chain Grade80		Weight (kg)	WLL (t)	Sizes (mm)		
			for one leg	for two legs			A	B	D
		8-Bull033-76	7	6	0.34	1.6	110	60	13
		8-Bull 033-87	8	7	0.54	2.12	110	60	16
		8-Bull033-108	10	8	0.82	3.15	135	75	18
		8-Bull 033-1310	13	10	1.5	5.3	160	90	22
		8-Bull 033-1613	16	13	2.3	8	180	100	26
		8-Bull 033-1816	18	16	3.95	11.2	200	110	32
		8-Bull 033-2018	20	18	6.34	14	260	140	36
		8-Bull 033-2220	22	20	8.96	17	300	160	40
		8-Bull 033-2622	26	22	12.8	21.2	340	180	45
		8-Bull 033-3226	32	26	16.55	31.5	350	190	50
		8-Bull 033-3632	36	32	23.28	45	400	200	56
		8-Bull 033-4036	40	36	32	56	430	220	63
8-Bull 033-72MM	45	40	45.76	63	460	250	72		
8-Bull 033-80MM	-	45	62	85.46	500	270	80		

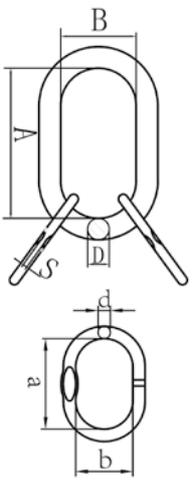
Safety factor: 4:1. The shown WLLs are for working with an angle of 0–45°. The marking is mandatory.

Description	Chain size	Grade 80	WLL	Manufacturer	CE marking	Batch №
Mark	76	-8	1.6T	Bull	CE	11-1



## MASTER LINK ASSEMBLY, TYPE BULL 032

- Standard: EN 1677-4 (previously DIN 5688-3)
- Material: alloy steel, heat treated and hardened
- With aWLL certificate
- With breaking load test and fatigue test of the batch
- With 100% magnetic-powder crack detection
- The surface of the item is treated with powdered plasticizer
- Color: orange RAL 2003 or red RAL 3020
- Suitable for three and four-legged slings

		Marking	EN818-2 chain Grade 80	Weight (kg)	WLL (t)	Sizes (mm)					
						for three or four legs	A	B	D	a	b
		8-Bull032-6	6	1.18	2.36	135	75	18	54	25	13
		8-Bull032-7	7	1.24	3.15	135	75	18	60	38	13
		8-Bull032-8	8	2.2	4.25	160	90	22	70	34	16
		8-Bull 032-10	10	3.4	6.7	180	100	26	85	40	18
		8-Bull 032-13	13	6.1	11.2	200	110	32	115	50	22
		8-Bull 032-16	16	9.98	17	260	140	36	140	65	26
		8-Bull032-18	18	18.9	21.2	340	180	45	180	100	32
		8-Bull 032-20	20	22.6	26.5	350	190	50	180	100	32
		8-Bull 032-22	22	25.2	31.5	350	190	50	180	100	36
		8-Bull 032-26	26	35.2	45	400	200	56	180	100	40
		8-Bull 032-28	28	47	50	430	220	63	180	100	45
		8-Bull 032-32	32	66.46	63	460	250	72	200	110	50

Safety factor: 4:1. The shown WLLs are for working with an angle of 0–45°. The marking is mandatory.

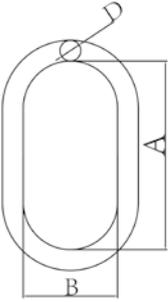
Description	Chain size	Grade 80	WLL	Manufacturer	CE marking	Batch №
Mark	6	-8	2.36 T	Bull	CE	11-1



**Caution! Never exceed the shown WLL!**

## SINGLE MASTER LINKS WITH A LARGE OPENING, TYPE BULL 487

- Material: alloy steel, heat treated and hardened
- With aWLL certificate
- With breaking load test and fatigue test of the batch
- With 100% magnetic-powder crack detection
- The surface of the item is treated with powdered plasticizer
- Color: orange RAL 2003 or red RAL 3020
- Suitable for one and two-legged slings

		Marking	EN818-2 chain Grade80		Weight (kg)	WLL (t)	Sizes (mm)		
			for one leg	for two legs			A	B	D
		8-Bull 487-87	8	7	0.38	2.7	120	70	13
		8-Bull 487-108	10	8	0.67	3.5	140	80	16
		8-Bull 487-1310	13	10	1.20	5.5	160	95	20
		8-Bull 487-1613	16	13	2.45	9.4	190	110	26
		8-Bull 487-2016	20	16	4.48	14.2	230	130	32
		8-Bull 487-2220	22	20	7.50	22.30	275	150	38
		8-Bull 487-2622	26	22	12.80	33.50	340	180	45
		8-Bull 487-3226	32	26	16.55	40.8	350	190	50
8-Bull 487-3632	36	32	23.28	56.8	400	200	56		

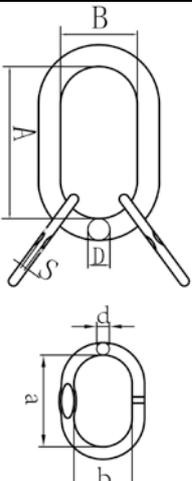
Safety factor: 4:1. The marking is mandatory.

Description	Chain size	Grade 80	WLL	Manufacturer	CE marking	Batch №
Mark	87	-8	2.7 T	Bull	CE	11-1



## MASTER LINK ASSEMBLY WITH A LARGE OPENING, TYPE BULL 488

- Material: alloy steel, heat treated and hardened
- With aWLL certificate
- With breaking load test and fatigue test of the batch
- With 100% magnetic-powder crack detection
- The surface of the item is treated with powdered plasticizer
- Color: orange RAL 2003 or red RAL 3020
- Suitable for three and four-legged slings
- With bigger bottom links

		Marking	EN818-2 chain Grade 80		Weight (kg)	WLL (t)	Sizes (mm)					
			for three or four legs	A			B	D	a	b	d	
		8-Bull 488-7	7	1.90	5.5	160	95	20	110	60	13	
		8-Bull 488-8	8	2.82	6.65	160	95	22	140	80	16	
		8-Bull 488-10	10	4.87	9.4	190	110	26	160	95	20	
		8-Bull 488-13	13	9.38	14.2	230	130	32	190	110	26	
		8-Bull 488-16	16	15.28	22.3	275	150	38	230	130	30	
		8-Bull 488-20	20	21.78	33.5	340	180	45	230	130	32	
		8-Bull 488-22	22	31.52	40.8	350	190	50	275	150	38	
		8-Bull 488-26	26	48.92	56.8	400	200	56	340	180	45	

Safety factor: 4:1. The marking is mandatory.

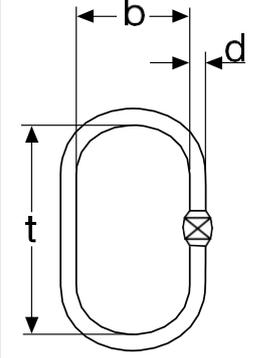
Description	Chain size	Grade 80	WLL	Manufacturer	CE marking	Batch №
Mark	7	-8	5.5 T	Bull	CE	11-1



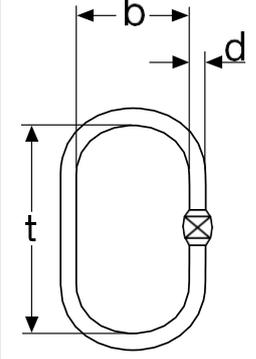
**Caution! Never exceed the shown WLL!**

- Material: improved alloy steel, heat treated and hardened
- With a WLL certificate
- With breaking load test of the batch
- With an individual test, 2.5 times the WLL
- With fatigue test 1.5 times the WLL for 20000 cycles of the batch
- With 100% magnetic-powder crack detection
- The surface of the item is treated with powdered plasticizer
- Suitable for grade 100 chains
- Color: blue RAL 5015
- All sizes of the single master links are forged, without welding
- All sizes of the master link assemblies are with forged main body, with welded bottom links

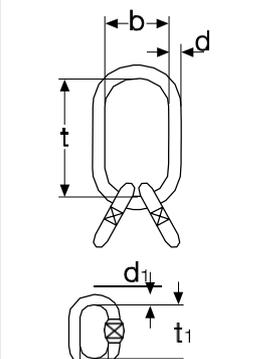
## SINGLE MASTER LINKS, TYPE BULL 381 A1

		Chain diameter	WLL (kg)	Weight (kg/piece)	Sizes (mm)		
					d	t	b
		6 - 10	1.400	0,34	13	110	60
		7 - 10	1.900	0,34	13	110	60
		8 - 10	2.500	0,55	16	110	60
		10 - 10	4.000	0,82	18	135	75
		13 - 10	6.700	1,50	22	160	90
		16 - 10	10.000	2,40	26	180	100
		20 - 10	16.000	6,35	36	260	140
		22 - 10	19.000	8,80	40	300	160
		26 - 10	26.500	12,80	45	340	180
		32 - 10	40.000	17,20	51	350	190

## SINGLE MASTER LINKS, TYPE BULL 381 A2

		Chain diameter	WLL (kg)	Weight (kg/piece)	Sizes (mm)		
					d	t	b
		6 - 10	2.000	0,34	13	110	60
		7 - 10	2.660	0,55	16	110	60
		8 - 10	3.500	0,82	18	135	75
		10 - 10	5.600	1,50	22	160	90
		13 - 10	9.400	2,40	26	180	100
		16 - 10	14.000	4,00	32	200	140
		20 - 10	22.400	9,00	40	300	160
		22 - 10	26.600	12,80	45	340	180
		26 - 10	37.100	17,20	51	350	190
		32 - 10	56.000	24,20	57	400	200

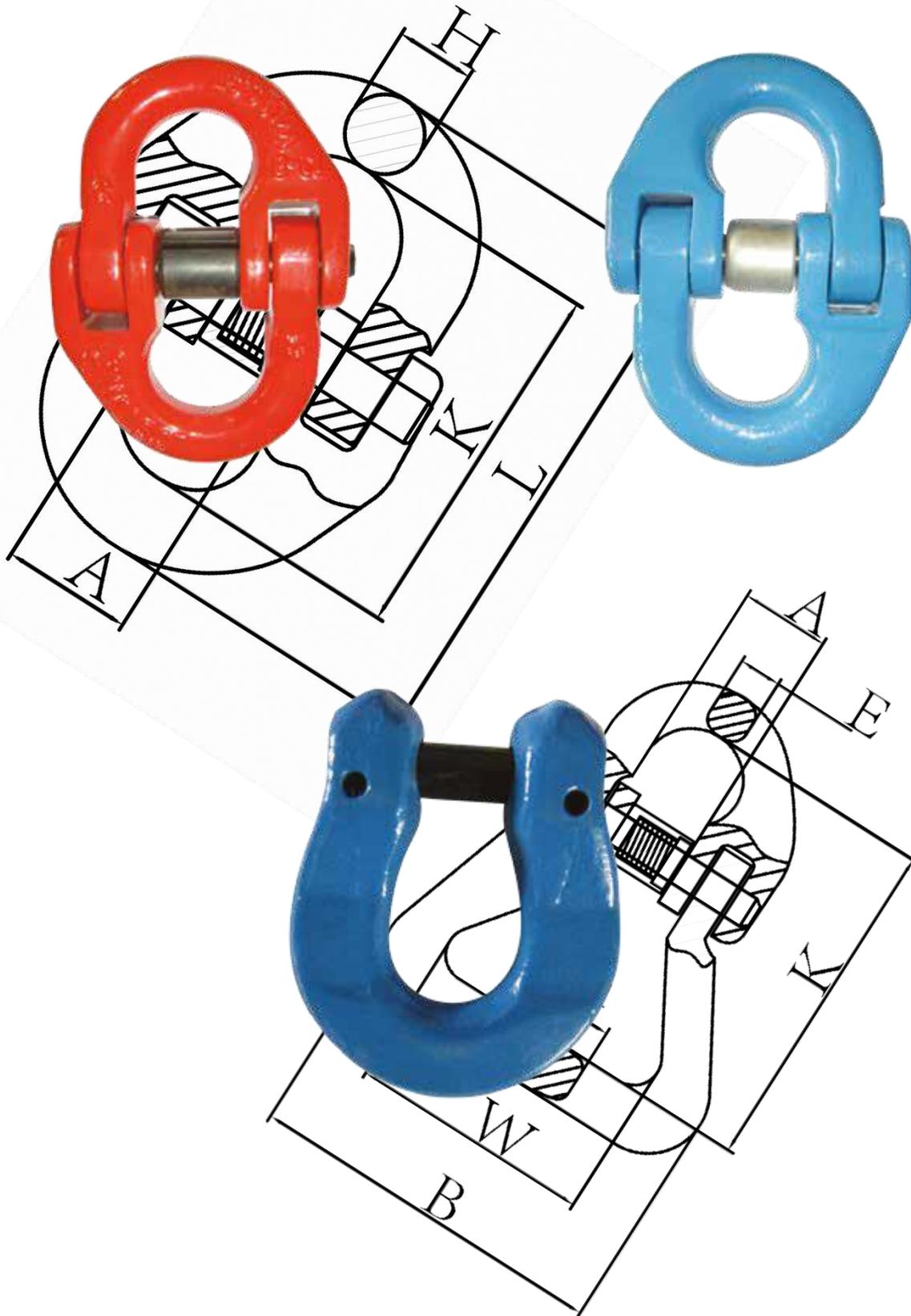
## MASTER LINK ASSEMBLY, TYPE BULL 382 KG

		Chain diameter	WLL (kg)	Weight (kg/piece)	Sizes (mm)					
					d	t	b	d1	t1	b1
		6 - 10	2.940	1,16	18	135	75	13	54	25
		7 - 10	4.000	1,16	18	135	75	13	54	25
		8 - 10	5.250	2,22	22	160	90	16	70	34
		10 - 10	8.000	3,36	26	180	100	18	85	40
		13 - 10	14.000	6,02	32	200	110	22	115	50
		16 - 10	21.000	9,95	36	260	140	26	140	65
		20 - 10	33.600	23,90	51	350	190	32	150	70
		22 - 10	40.000	27,10	51	350	190	36	170	75
		26 - 10	55.650	35,20	57	400	200	40	170	80

Safety factor: 4:1. The marking is mandatory.

Description	Chain size	Grade80	WLL	Manufacturer	CE marking	Batch No
Mark	108	-10	5 T	Bull	CE	11-1

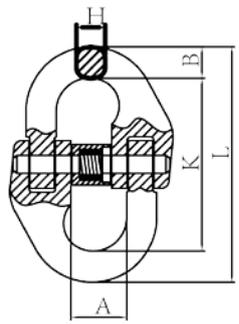
**Caution! Never exceed the shown WLL!**



*Connecting links*

## CONNECTING LINKS FOR CHAIN TYPE BULL 074

- Material: alloy steel, heat treated and hardened
- With a WLL certificate
- With breaking load test of the batch
- With fatigue test 1.5 times the WLL for 20000 cycles of the batch
- With 100% magnetic-powder crack detection
- With individual 100 % control and test of the loading pins
- The surface of the item is treated with powdered plasticizer
- Color: orange RAL 2003 or red RAL 3020
- Suitable for load chains EN 818-2, grade 80
- Also available from stainless steel

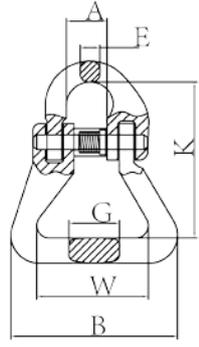
 	Marking	Weight (kg)	WLL (t)	Breaking load (t)	A±1.5	B±1	L±2.5	K±2	H±1
	8-Bull 074-06	0.08	1.12	4.48	15	7.5	58	42	7
	8-Bull 074-7	0.145	1.5	6	19	8.5	71.8	54.8	8.5
	8-Bull 074-7/8	0.146	2	8	18	9.5	79.5	60.5	8.5
	8-Bull 074-8	0.16	2	8	19.5	9.5	79.5	60.5	8.5
	8-Bull 074-10	0.30	3.15	12.6	25	12	90.5	68	11.5
	8-Bull 074-13	0.65	5.3	21.2	29	15	117	87	15
	8-Bull 074-16	1.15	8	32	34.5	19.8	148	108.4	19.8
	8-Bull 074-18	1.84	10	40	38	21	154	112	21
	8-Bull 074-20	2.1	12.5	50	41	24	169.5	121.5	24
	8-Bull 074-22	2.87	15	60	48	26	193.5	141.5	26
	8-Bull 074-26	4.5	21.2	84.8	57.5	31	220	158	30
8-Bull 074-32	8.21	31.5	126	67	38	281	205	37	

Safety factor: 4:1. The marking is mandatory.

Description	Size /Grade	WLL	Manufacturer	CE marking	Batch №
Mark	10-8	3.15 T	Bull	CE	11-1

## CONNECTING LINKS FOR WEBBINGS, TYPE BULL 001

- Material: alloy steel, heat treated and hardened
- With a WLL certificate
- With breaking load test of the batch
- With fatigue test 1.5 times the WLL for 20000 cycles of the batch
- With 100% magnetic-powder crack detection
- With individual 100% control and test of the loading pins
- The surface of the item is treated with powdered plasticizer
- Color: orange RAL 2003 or red RAL 3020
- Suitable for webbing slings EN 1492

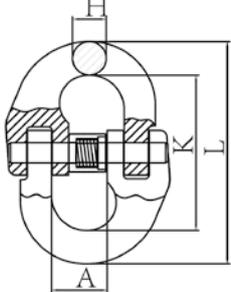
 	Marking	Weight (kg)	WLL (t)	Breaking load (t)	A±1.5	B±2	K±2	W±2	G±1	E±1
	8-Bull 001-06	0.2	1.12	4.48	15	60	56	40	18	7
	8-Bull 001-7/8	0.3	2.0	8.0	20	61.5	63.7	40	24	9.5
	8-Bull 001-10	0.68	3.15	12.6	24	66	83	39	30.5	11
	8-Bull 001-13	1.47	5.3	21.2	28	88	93.7	55	36.8	16.5
	8-Bull 001-16	2.3	8	32	34.5	108	120	65.5	45.2	19.8
	8-Bull 001-20	3.3	12.5	50	41	129	138	80	51.8	23
	8-Bull 001-22	6.89	15	60	50	191	180	126	70	26
	8-Bull 001-26	10.62	21.2	84.8	58	228.4	209.5	152	32	30
	8-Bull 001-32	18.92	31.5	126	72.5	252	279	160	91	55

Safety factor: 4:1. The marking is mandatory.

Description	Size /Grade	WLL	Manufacturer	CE marking	Batch №
Mark	10-8	3.15 T	Bull	CE	11-1

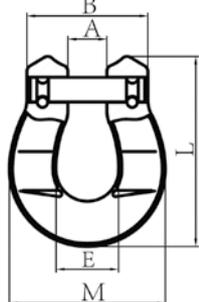
## CONNECTING LINKS FOR CHAINS, TYPE BULL 1001

- Material: improved alloy steel, heat treated and hardened
- The WLL is 25% bigger than grade 80
- With aWLL certificate
- With breaking load test of the batch
- With fatigue test 1.5 times the WLL for 20000 cycles of the batch
- With 100% magneto-powder crack detection
- With individual 100% control and test of the loading pins
- The surface of the item is treated with powdered plasticizer
- Suitable for grade 100 chains
- Color: blue RAL 5015

		Marking	Weight (kg)	WLL (t)	Breaking load (t)	H±1	A±1.5	K±2	L±2.5
		10-Bull 1001-06	0.1	1.4	5.6	7.6	14	44.5	60
		10-Bull 1001-08	0.22	2.5	10	10	18.5	61.5	84.5
		10-Bull 1001-10	0.45	4	16	12.6	23	72	97.2
		10-Bull 1001-13	1.15	6.7	26.8	16.8	27.5	89	127
		10-Bull 1001-16	1.75	10	40	21	33.5	103	145
		10-Bull 1001-20	2.7	16	64	24.5	42	116	175
		10-Bull 1001-22	4.02	19	76	27	48	135	193
		10-Bull 1001-26	5.1	26.5	106	32	61	164	228
		10-Bull 1001-32	8.50	39.3	157.2	40	80	194	274

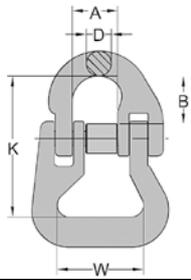
## CONNECTING LINKS OMEGA, TYPE BUL 1027

- Material: improved alloy steel, heat treated and hardened
- The WLL is 25% bigger than grade 80
- With aWLL certificate
- With breaking load test of the batch
- With fatigue test 1.5 times the WLL for 20000 cycles of the batch
- With 100% magnetic-powder crack detection
- With individual 100% control and test of the loading pins
- The surface of the item is treated with powdered plasticizer
- Suitable for grade 100 chains
- Color: blue RAL 5015

		Marking	Weight (kg)	WLL (t)	Breaking load (t)	A±0.5	B±2	E±1.5	M±2	L±1
		10-Bull 1027-06	0.12	1.4	5.6	8.5	32.5	20	44	55
		10-Bull 1027-08	0.27	2.5	10	10.5	42	24	60	73.5
		10-Bull 1027-10	0.44	4	16	12.5	48.5	31	70	90
		10-Bull 1027-13	0.89	6.7	26.8	16	60	38.5	90	109
		10-Bull 1027-16	1.69	10	40	19	75.5	51	112	141.5

## CONNECTING LINKS FOR WEBBINGS, TYPE YK016

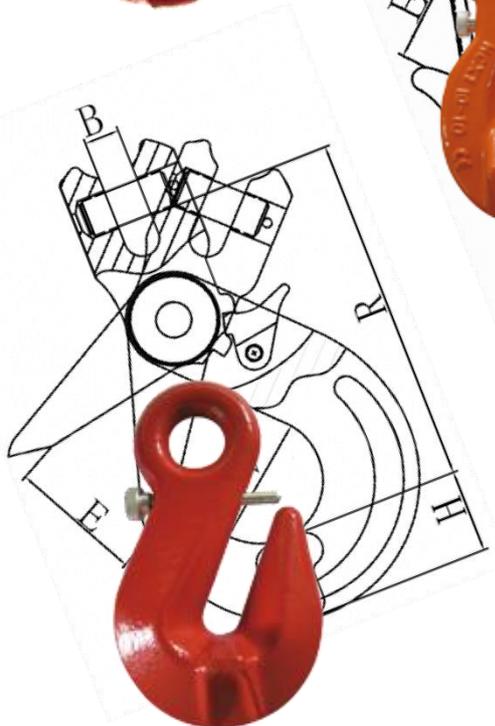
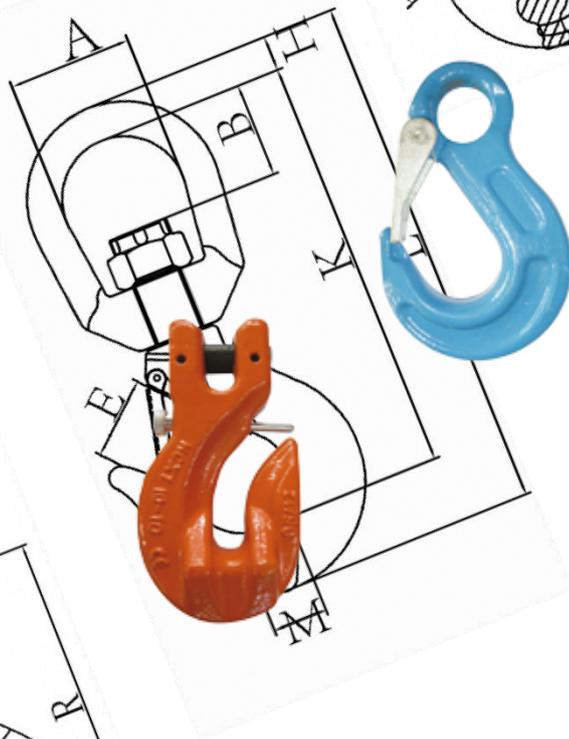
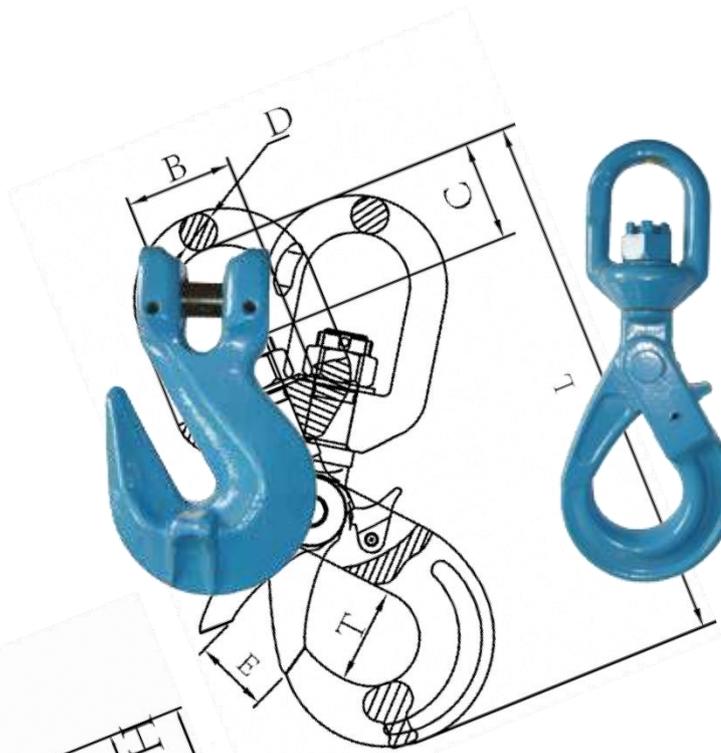
- Material: improved alloy steel, heat treated and hardened
- The WLL is 25% bigger than grade 80
- With aWLL certificate
- With breaking load test of the batch
- With fatigue test 1.5 times the WLL for 20000 cycles of the batch
- With 100% magnetic-powder crack detection
- With individual 100% control and test of the loading pins
- The surface of the item is treated with powdered plasticizer
- Suitable for grade 100 riggings
- Color: blue RAL 5015

		Marking	WLL (t)	Sizes (mm)					Weight (kg)
				A	B	D	K	W	
		X-016-06	1.4	15	17	7	55	38	0.2
		X-016-07	2.5	18	22	9	62	40	0.3
		X-016-10	4.0	25	26	11	78	47	0.6
		X-016-13	6.7	30	35	16	95	53	1.1
		X-016-16	10.0	36	38	19	115	67	2.0
		X-016-20	16.0	42	46	22	132	80	3.3
X-016-22	19.0	49	59	24	187	125	7.7		

Safety factor: 4:1. The marking is mandatory.

Description	Size / Grade	WLL	Manufacturer	CE marking	Batch №
Mark	10-10	4 T	Bull	CE	11-1

**Caution! Never exceed the shown WLL!**

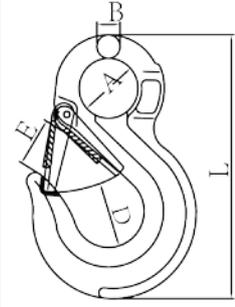


# Hooks

## EYE HOOKS WITH A SAFETY LATCH TYPE BULL 013

- Material: alloy steel, heat treated and hardened
- With a WLL certificate
- With breaking load test of the batch
- With fatigue test 1.5 times the WLL for 20000 cycles of the batch
- With 100% magnetic-powder crack detection

- With a cast safety latch
- The surface of the item is treated with powdered plasticizer
- Color: orange RAL 2003 or red RAL 3020
- Suitable for load chains EN 818-2, grade 80

		Marking	Weight (kg)	WLL (t)	Breaking load (t)	B±1	E±1	D±1	A±1	L±2
		8-Bull 013-06	0.3	1.12	4.48	9	24	21	20	108
		8-Bull 013-7/8	0.4	2.0	8.0	11	30	26	25	133
		8-Bull 013-10	0.9	3.15	12.6	15	34	39	38	167
		8-Bull 013-13	1.7	5.3	21.2	19	39	54	43	213
		8-Bull 013-16	3.2	8	32	23	46	64	50	255
		8-Bull 013-20	5.8	12.5	50	24	40	80	62	305
		8-Bull 013-22	8.5	15	60	32	71	80	62	348
		8-Bull 013-26	13	21.2	84.8	35	81	82	64	394
8-Bull 013-32	17	31.5	126	37	102	112	88	480		

Spare parts – a set type SP-BULL 013				
	Marking	Size	Marking	Size
	SP-Bull 013-6	6-8	SP-Bull 074-20	20-8
	SP-Bull 013-7/8	7/8-8	SP-Bull 074-22	22-8
	SP-Bull 013-10	10-8	SP-Bull 074-26	26-8
	SP-Bull 013-13	13-8	SP-Bull 074-32	32-8
	SP-Bull 013-16	16-8		
This set includes: cast safety latch, screw, nut and a spring – galvanized				

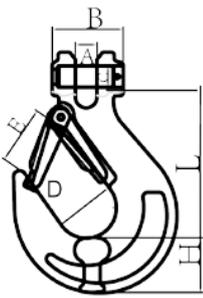
Safety factor: 4:1. The marking is mandatory.

Description	Mark
Size / Grade	10-8
WLL	3.15 T
Manufacturer	Bull
CE marking	CE
Batch №	11-1

## CLEVIS HOOKS WITH A SAFETY LATCH, TYPE BULL 012

- Material: stainless alloy steel, heat treated and hardened
- With a WLL certificate
- With breaking load test of the batch
- With fatigue test 1.5 times the WLL for 20000 cycles of the batch
- With 100% magnetic-powder crack detection

- With individual 100 % control and test of the loading pins
- With a cast safety latch
- The surface of the item is treated with powdered plasticizer
- Color: orange RAL 2003 or red RAL 3020
- Suitable for load chains EN 818-2, grade 80

		Marking	Weight (kg)	WLL (t)	Breaking load (t)	A±0.5	B±1.5	D±1	H±1	L±2	E±2
		8-Bull 012-06	0.32	1.12	4.48	8	32	35	23	76	26
		8-Bull 012-7/8	0.48	2.0	8.0	9.5	37	37	32.5	85.5	29
		8-Bull 012-10	0.95	3.15	12.6	13	49	46	35	104	39
		8-Bull 012-13	1.8	5.3	21.2	16.5	56.5	56	42.5	128	47
		8-Bull 012-16	3.4	8	32	21.5	70.5	60	54	150	55
		8-Bull 012-20	6	12.5	50	24	77	79	58	180	61
		8-Bull 012-22	10.4	15	60	27	91	101	62	213	72
		8-Bull 012-26	14.5	21.2	84.8	30	117	115	75	250	85
8-Bull 012-32	27.0	31.5	126	35	150	140	88	317	106		

Safety factor: 4:1. The marking is mandatory.

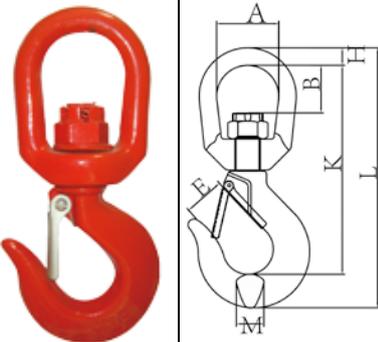
Description	Size / Grade	WLL	Manufacturer	CE marking	Batch №
Mark	10-8	3.15 T	Bull	CE	11-1

Spare parts – loading pin type BULL 012					Spare parts – loading set type BULL 012				
	Marking	Size	Marking	Size		Marking	Size	Marking	Size
	SP-Bull 012-6	6-8	SP-Bull 012-20	20-8		SP-Bull 012-6	6-8	SP-Bull 012-20	20-8
	SP-Bull 012-7/8	7/8-8	SP-Bull 012-22	22-8		SP-Bull 012-7/8	7/8-8	SP-Bull 012-22	22-8
	SP-Bull 012-10	10-8	SP-Bull 012-26	26-8		SP-Bull 012-10	10-8	SP-Bull 012-26	26-8
	SP-Bull 012-13	13-8	SP-Bull 012-32	32-8		SP-Bull 012-13	13-8	SP-Bull 012-32	32-8
	SP-Bull 012-16	16-8				SP-Bull 012-16	16-8		

**Caution! Never exceed the shown WLL!**

## SWIVEL HOOKS WITHOUT A BEARING, TYPE BULL 040, NO ROTATION UNDER LOAD

- Material: alloy steel, heat treated and hardened
- With a WLL certificate
- With breaking load test of the batch
- With fatigue test 1.5 times the WLL for 20000 cycles of the batch
- With 100% magnetic-powder crack detection
- With a safety latch
- The surface of the item is treated with powdered plasticizer
- Color: orange RAL 2003 or red RAL 3020
- Suitable for load chains EN 818-2, grade 80

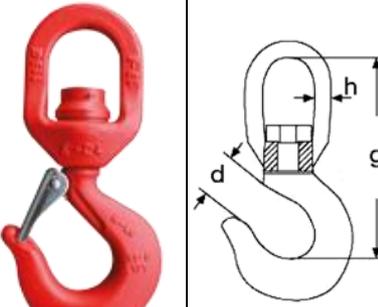
	Marking	Weight (kg)	WLL (t)	Breaking load (t)	A±1.2	E±1.5	B±1.5	H±1	K±2	L±2.5	M±0.5
	8-Bull 040-06	0.34	1.12	4.48	32	22	17	9	109	137	16
	8-Bull 040-08	1.02	2	8	42	21.5	35	15.8	150	192	21
	8-Bull 040-10	1.24	3.15	12.6	42.5	26	35	15.8	162.5	208.5	23
	8-Bull 040-13	3.60	5.3	21.2	48	32.5	39	18	191	246	31
	8-Bull 040-16	4.66	8	32	62	43	53	25	243.5	313	34
	8-Bull 040-20	7.4	12.5	50	68	49.5	51	28.5	276.5	363.5	41.5
	8-Bull 040-22	10.6	15	60	79	54.5	65	32	332	431	55.7
	8-Bull 040-26	21.4	21.2	84.8	105	81	114	40	429.5	545.5	70
8-Bull 040-32	32	31.5	126	105	100	96	40	465.3	596	76.2	

Safety factor: 4:1. The marking is mandatory.

Description	Size /Grade	WLL	Manufacturer	CE marking	Batch №
Mark	10-8	3.15 T	Bull	CE	11-1

## SWIVEL HOOKS WITH A BEARING, TYPE BULL 306 LHW, WITH ROTATION UNDER LOAD

- Material: alloy steel, heat treated and hardened
- With a WLL certificate
- With breaking load test of the batch
- With fatigue test 1.5 times the WLL for 20000 cycles of the batch
- With 100% magnetic-powder crack detection
- With a safety latch
- The surface of the item is treated with powdered plasticizer
- Color: orange RAL 2003 or red RAL 3020
- Suitable for load chains EN 818-2, grade 80

	Type	WLL (kg)	Weight (kg/piece)	Sizes (mm)		
				d	t	g
	6/7-8	1.600	0.90	14	145	21
	8-8	2.000	1.30	15	160	23
	10-8	3.200	1.60	17	171	26
	13-8	5.400	3.50	22	221	34
	16-8	8.000	6.50	26	266	44
	19-8	11.500	8.50	28	309	50
	22-8	16.000	15.00	32	352	58
26-8	22.000	24.50	40	432	78	
32-8	31.500	54.00	48	505	82	

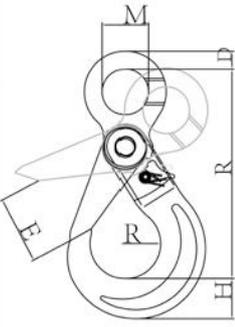
Safety factor: 4:1. The marking is mandatory.

Description	Size /Grade	WLL	Manufacturer	CE marking	Batch №
Mark	10-8	3.15 T	Bull	CE	11-1

**Caution! Never exceed the shown WLL!**

## SELF-LOCKING EYE HOOKS, TYPE BULL 081

- Material: alloy steel, heat treated and hardened
- With aWLL certificate
- With breaking load test of the batch
- With fatigue test 1.5 times the WLL for 20000 cycles of the batch
- With 100% magnetic-powder crack detection
- The surface of the item is treated with powdered plasticizer
- Color: orange RAL 2003 or red RAL 3020
- Suitable for load chains EN 818-2, grade 80
- With self-locking mechanism

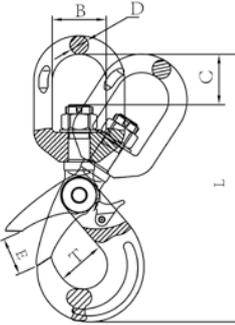
		Marking	Weight (kg)	WLL (t)	Breaking load (t)	M±1	R±2.5	D±1	R±1	H±1	E±2
		8-Bull 081-06	0.5	1.12	4.48	22	110.5	10	34	19.5	28
		8-Bull 081-7/8	0.8	2	8	25	136	12	46	24	34
		8-Bull 081-10	1.43	3.15	12.6	32	171	15	56	30	44
		8-Bull 081-13	2.86	5.3	21.2	40.5	208.5	19.5	69	40	52
		8-Bull 081-16	5.64	8	32	56	257.5	22	86	50.5	60
		8-Bull 081-20	7.6	12.5	50	64.5	275	27	100	55	81
		8-Bull 081-22	13	15	60	70	320	30	98	67	82
		8-Bull 081-26	18	21.2	84.8	80	363	34	110	75	110
		8-Bull 081-32	44.5	31.5	126	105	472	45	166	97	168

Safety factor: 4:1. The marking is mandatory.

Description	Size / Grade	WLL	Manufacturer	CE marking	Batch №
Mark	10-8	3.15 T	Bull	CE	11-1

## SELF-LOCKING SWIVEL EYE HOOKS WITHOUT A BEARING, TYPE BULL 083, NO ROTATION UNDER LOAD

- Material: alloy steel, heat treated and hardened
- With aWLL certificate
- With breaking load test of the batch
- With fatigue test 1.5 times the WLL for 20000 cycles of the batch
- With 100% magnetic-powder crack detection
- The surface of the item is treated with powdered plasticizer
- Color: orange RAL 2003 or red RAL 3020
- Suitable for load chains EN 818-2, grade 80
- With self-locking mechanism

		Marking	Weight (kg)	WLL (t)	Breaking load (t)	B±2	C±2	D±1	L±3	T±1.5	E±2
		8-Bull 083-06	0.71	1.12	4.48	32.5	22	11.25	170	34	29
		8-Bull 083-7/8	1.1	2	8	35.5	26	12.5	210	46	34
		8-Bull 083-10	2.0	3.15	12.6	42	34	15	247	56	44
		8-Bull 083-13	4.0	5.3	21.2	50	38.5	16	302	69	52
		8-Bull 083-16	7.3	8	32	61	55	21.5	383	86	60
		8-Bull 083-20	11.6	12.5	50	72	61	26	418	100	83
		8-Bull 083-22	16.0	15	60	95	95	33	527	98	88
		8-Bull 083-26	21.5	21.2	84.8	122	115	42	610	110	95.5
		8-Bull 083-32	79	31.5	126	140	126	52	777	166	150

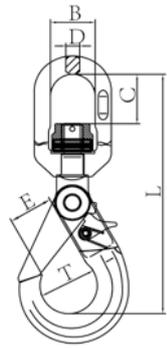
Safety factor: 4:1. The marking is mandatory.

Description	Size / Grade	WLL	Manufacturer	CE marking	Batch №
Mark	10-8	3.15 T	Bull	CE	11-1

**Caution! Never exceed the shown WLL!**

## SELF-LOCKING SWIVEL EYE HOOKS WITH A BEARING, TYPE BULL 042, WITH ROTATION UNDER LOAD

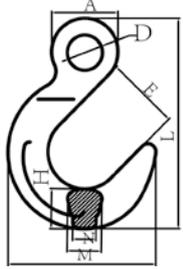
- Material: alloy steel, heat treated and hardened
- The surface of the item is treated with powdered plasticizer
- With a WLL certificate
- Color: orange RAL 2003 or red RAL 3020
- With breaking load test of the batch
- Suitable for load chains EN 818-2, grade 80
- With fatigue test 1.5 times the WLL for 20000 cycles of the batch
- With self-locking mechanism
- With 100% magnetic-powder crack detection

		Marking	Weight (kg)	WLL (t)	Breaking load (t)	B±2	C±2	D±1	L±3	T±1.5	E±2
		8-Bull 042-06	0.71	1.12	4.48	32.5	34.8	11.5	163.3	34	27
		8-Bull 042-7/8	1.1	2	8	36	40	13	195.2	46	35
		8-Bull 042-10	2.0	3.15	12.6	42	48	15.5	237	56	44
		8-Bull 042-13	4.0	5.3	21.2	50	58	17	282	69	53
		8-Bull 042-16	7.3	8	32	61	61	21.5	341.5	86	60
		8-Bull 042-20	11.6	12.5	50	76	75.5	26.5	399.5	100	87
		8-Bull 042-22	16.0	15	60	97	97	33	461	98	80
8-Bull 042-26	21.5	21.2	84.8	123	115	42	536.5	110	98		

Safety factor: 4:1. The marking is mandatory.

## FOUNDRY EYE HOOKS, TYPE BULL015

- Material: alloy steel, heat treated and hardened
- With 100% magnetic-powder crack detection
- With a WLL certificate
- The surface of the item is treated with powdered plasticizer
- With breaking load test of the batch
- Color: orange RAL 2003 or red RAL 3020
- With fatigue test 1.5 times the WLL for 20000 cycles of the batch
- Suitable for load chains EN 818-2, grade 80

		Marking	Weight (kg)	WLL (t)	Breaking load (t)	E±1.2	A±1	D±1	H±1	M±1	N±0.5	K±2	L±2
		8-Bull 015-7/8	1.09	2	8	63.5	39	18	31	25.4	18	120	163
		8-Bull 015-10	2.04	3.15	12.6	76	50.8	22	38	32.6	23	146	200
		8-Bull 015-13	3.22	5.3	21.2	89	63.5	27	44.5	38.1	27	171	238
		8-Bull 015-16	5.53	8	32	102	76	32	52	46	32	198	278
		8-Bull 015-20	8.75	12.5	50	114.5	89	38	65	55	39	232	325
		8-Bull 015-22	11.93	15	60	127.5	102	45	69	57	40	256	361
		8-Bull 015-26	16.8	21.2	84.8	140	126	67.5	77	66	45	283	402
8-Bull 015-32	26.6	31.5	126	153.5	151.5	81.5	97.5	80	58	327	461		

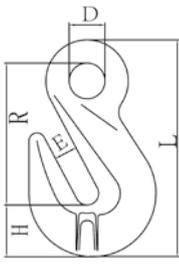
Safety factor: 4:1. The marking is mandatory.

Description	Size /Grade	WLL	Manufacturer	CE marking	Batch №
Mark	10-8	3.15 T	Bull	CE	11-1

**Caution! Never exceed the shown WLL!**

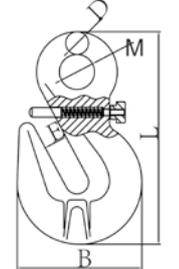
## SHORTENING GRAB EYE HOOKS, TYPE BULL 085

- Material: alloy steel, heat treated and hardened
- With aWLL certificate
- With breaking load test of the batch
- With fatigue test 1.5 times the WLL for 20000 cycles of the batch
- With 100% magnetic-powder crack detection
- The surface of the item is treated with powdered plasticizer
- Color: orange RAL 2003 or red RAL 3020
- Suitable for load chains EN 818-2, grade 80

		Marking	Weight (kg)	WLL (t)	Breaking load (t)	E±0.5	D±1	H±1	R±2	L±2
		8-Bull 085-06	0.14	1.12	4.48	8	13.5	17.9	51.4	75.3
8-Bull 085-7/8	0.245	2	8	10.8	18	20	61.5	91.2		
8-Bull 085-10	0.65	3.15	12.6	13	20	29	80	122		
8-Bull 085-13	1.39	5.3	21.2	16.5	26	42.8	99.7	158		
8-Bull 085-16	2.2	8	32	20	30.5	47.7	104	169		
8-Bull 085-20	4.6	12.5	50	25	37.5	56	140	219		
8-Bull 085-22	8.2	15	60	28	44	68	165	259		
8-Bull 085-26	9.8	21.2	84.8	30	41	77	188.8	298		
8-Bull 085-32	19.4	31.5	126	38	57	95	228	361		

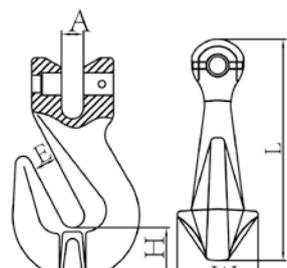
## SHORTENING GRAB EYE HOOKS WITH A SAFETY PIN, TYPE BULL 0317

**NEW!**

		Marking	Weight (kg)	WLL (t)	Breaking load (t)	M±1	B±1.5	D±1	E±0.5	L±2
		8-Bull 317-7/8	0.29	2	8	17	50	9.5	11	88.5
8-Bull 317-10	0.75	3.15	12.6	20	71	13	13	121.5		
8-Bull 317-13	1.62	5.3	21.2	26	96	15.5	16.5	158		

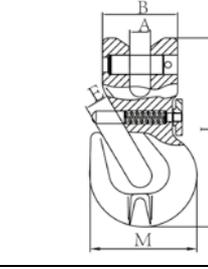
## SHORTENING CLEVIS HOOKS, TYPE BULL 086

- Material: alloy steel, heat treated and hardened
- With aWLL certificate
- With breaking load test of the batch
- With fatigue test 1.5 times the WLL for 20000 cycles of the batch
- With 100% magnetic-powder crack detection
- With individual 100% control and test of the loading pins
- The surface of the item is treated with powdered plasticizer
- Color: orange RAL 2003 or red RAL 3020
- Suitable for load chains EN 818-2, grade 80

		Marking	Weight (kg)	WLL (t)	Breaking load (t)	E±1	A±0.5	H±1	W±1	L±2
		8-Bull 086-06	0.25	1.12	4.48	8.3	8	17.7	26.7	75
8-Bull 086-7/8	0.32	2	8	11	9.5	18.5	33.5	89		
8-Bull 086-10	0.73	3.15	12.6	13	12.5	29	46	126		
8-Bull 086-13	1.6	5.3	21.2	16.5	15	42.5	57.5	163.5		
8-Bull 086-16	2.8	8	32	19	18.5	45.5	74	183.5		
8-Bull 086-20	5	12.5	50	24	23	56	74	219		
8-Bull 086-22	6.3	15	60	27	27	68.5	90	254		
8-Bull 086-26	14.5	21.2	84.8	30	30	77	102	309		

## SHORTENING CLEVIS HOOKS WITH A SAFETY PIN, TYPE BULL 313

**NEW!**

		Marking	Weight (kg)	WLL (t)	Breaking load (t)	A±0.5	B±1.2	E±0.5	M±2	L±2
		8-Bull 313-06	0.28	1.12	4.48	8	32	8	43.5	75
8-Bull 313-7/8	0.33	2	8	9.5	35	11	19.5	89		
8-Bull 313-10	0.88	3.15	12.6	12.5	42.5	13.2	70.5	126.5		
8-Bull 313-13	1.85	5.3	21.2	15	63	16.5	90	163.5		
8-Bull 313-16	3.24	8	32	19.5	65.5	19.2	112.5	183.5		

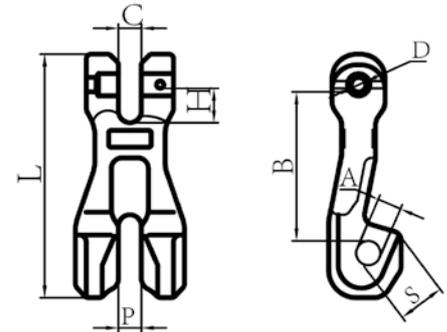
Safety factor for types Bull 085/0317/086/313 – 4:1. The marking is mandatory.

Description	Size / Grade	WLL	Manufacturer	CE marking	Batch No
Mark	10-8	3.15 T	Bull	CE	11-1

**Caution! Never exceed the shown WLL!**

## SHORTENING CLEVIS CLUTCH HOOK, TYPE BULL 073

- Material: alloy steel, heat treated and hardened
- With a WLL certificate
- With breaking load test of the batch
- With fatigue test 1.5 times the WLL for 20000 cycles of the batch
- With 100% magnetic-powder crack detection
- With individual 100% control and test of the loading pins
- The surface of the item is treated with powdered plasticizer
- Color: orange RAL 2003 or red RAL 3020
- Suitable for load chains EN 818-2, grade 80



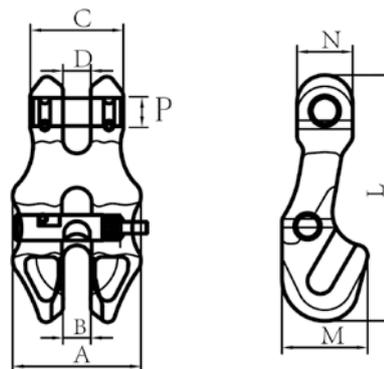
Marking	Weight (kg)	WLL (t)	Breaking load (t)	P±0.5	C±0.5	A±0.3	B±2	H±1	S±0.3	L±2	D±0.5
8-Bull 073-06	0.17	1.12	4.48	7.5	7.5	8	44	10.3	12	73.5	7.8
8-Bull 073-7/8	0.37	2	8.0	9.5	9.5	10.5	61.7	14	17	101	9.2
8-Bull 073-10	0.97	3.15	12.6	13	13	12.4	92	18.4	28	138	13.2
8-Bull 073-13	2.01	5.3	21.2	16.5	16.5	16	115	22.7	34.5	177	16.2
8-Bull 073-16	3.32	8	32	21	21	19.5	143	28.5	40	220	20
8-Bull 073-20	6.2	12.5	50	23.5	23.5	23	152	33.6	46	238	24.3
8-Bull 073-22	8.5	15	60	25.5	25.5	26	195	39	57.5	295	28.1

Safety factor: 4:1. The marking is mandatory.

Description	Size / Grade	WLL	Manufacturer	CE marking	Batch No
Mark	10-8	3.15 T	Bull	CE	11-1

## SHORTENING CLEVIS CLUTCH HOOK WITH A SAFETY PIN, TYPE BULL 638

**NEW!**



Marking	Weight (kg)	WLL (t)	Breaking load (t)	A±0.5	B±0.5	C±0.5	D±0.5	M±0.3	N±0.5	P±0.1	L±1
Bull-638 8-8	0.41	2	8	50	9.5	33	9.5	33	23	9.2	92
Bull-638 10-8	0.75	3.15	12.6	60	12.5	43	12.5	40	26	13.3	115
Bull-638 13-8	1.67	5.3	21.2	79	15	55	15	54	34	163	149

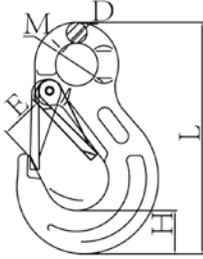
Safety factor: 4:1. The marking is mandatory.

Description	Size / Grade	WLL	Manufacturer	CE marking	Batch No
Mark	10-8	3.15 T	Bull	CE	11-1

**Caution! Never exceed the shown WLL!**

## EYE HOOKS WITH A SAFETY LATCH, TYPE BULL 1003

- Material: improved alloy steel, heat treated and hardened
- With 25% higher WLL than grade 80 items
- With a WLL certificate
- With breaking load test of the batch
- With fatigue test 1.5 times the WLL for 20000 cycles of the batch
- With 100% magnetic-powder crack detection
- The surface of the item is treated with powdered plasticizer
- Color: blue RAL 5015
- With cast safety latch
- Suitable for load chains grade 100

 	Marking	Weight (kg)	WLL (t)	Breaking load (t)	D±1	E±2	H±1	M±1	L±2.5
	10-Bull 1003-06	0.32	1.4	5.6	10	18.5	21	20.5	111
	10-Bull 1003-08	0.6	2.5	10	11	25	27.5	25	137.5
	10-Bull 1003-10	1.2	4	16	16	28	33	34	171.5
	10-Bull 1003-13	2.2	6.7	26.8	19	38	43.5	43	219
	10-Bull 1003-16	3.5	10	40	24.5	44	50	50	260
	10-Bull 1003-20	7.15	16	64	27	52	56	55	298
	10-Bull 1003-22	11.5	19	76	29	66	62	60	330
	10-Bull 1003-26	12.2	26.5	106	35	73	75	70	376
10-Bull 1003-32	17.5	39.3	157.2	39	87	89	81.5	458	

Spare parts – set SP BULL 1003&1004				
	Marking	Size	Marking	Size
	SP-Bull 1003/4-6	6-10	SP-Bull 1003/4-20	20-10
	SP-Bull 1003/4-8	8-10	SP-Bull 1003/4-22	22-10
	SP-Bull 1003/4-10	10-10	SP-Bull 1003/4-26	26-10
	SP-Bull 1003/4-13	13-10	SP-Bull 1003/4-32	32-10
	SP-Bull 1003/4-16	16-10		

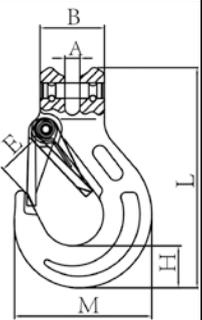
The set includes: cast safety latch, screw, nut and a spring – galvanized

Safety factor 4:1  
The marking is mandatory

Description	Mark
Size /Grade	10-10
WLL	4 T
Manufacturer	Bull
CE marking	CE
Batch №	11-1

## CLEVIS HOOKS WITH A SAFETY LATCH, TYPE BYULL 1004

- Material: improved alloy steel, heat treated and hardened
- With 25% higher WLL than grade 80 items
- With a WLL certificate
- With breaking load test of the batch
- With fatigue test 1.5 times the WLL for 20000 cycles of the batch
- With individual 100% control and test of the loading pins
- With 100% magnetic-powder crack detection
- The surface of the item is treated with powdered plasticizer
- Color: blue RAL 5015
- With cast safety latch
- Suitable for load chains grade 100

 	Marking	Weight (kg)	WLL (t)	Breaking load (t)	A±0.5	B±1	E±1.5	H±1	M±2	L±2.5
	10-Bull 1004-06	0.33	1.4	5.6	7.5	32	18.5	21	68.5	109
	10-Bull 1004-08	0.7	2.5	10	9.5	37	25	27.5	88	134
	10-Bull 1004-10	1.3	4	16	12	48	28	33.5	105.5	161.5
	10-Bull 1004-13	2.3	6.7	26.8	15	59	38	42	134	203
	10-Bull 1004-16	3.6	10	40	17.5	70	44	50	160.5	248
	10-Bull 1004-20	7.3	16	64	25	85	52	56	190.5	297
	10-Bull 1004-22	12.1	19	76	27	100	66	62	214.5	326

Spare parts – set № SP BULL 1004 – load pin				
	Marking	Size	Marking	Size
	SP-Bull 1004-6	6-10	SP-Bull 1004-16	16-10
	SP-Bull 1004-8	8-10	SP-Bull 1004-20	20-10
	SP-Bull 1004-10	10-10	SP-Bull 1004-22	22-10
	SP-Bull 1004-13	13-10		

The set includes: load pin and two axes

Safety factor 4:1 The marking is mandatory

Description	Mark
Size /Grade	10-10
WLL	4 T
Manufacturer	Bull
CE marking	CE
Batch №	11-1

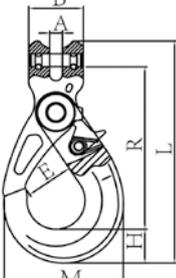
**Caution! Never exceed the shown WLL!**

- Material: improved alloy steel, heat treated and hardened
- With a WLL certificate
- With breaking load test of the batch
- With fatigue test 1.5 times the WLL for 20000 cycles of the batch
- With 100% magnetic-powder crack detection
- With individual 100% control and test of the loading pins
- The surface of the item is treated with powdered plasticizer
- Color: blue RAL 5015
- With a self-locking safety latch, locked the hook is loaded
- Suitable for load chains grade 100

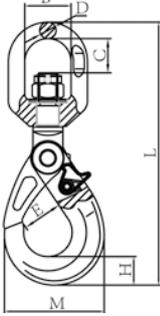
## SELF-LOCKING EYE HOOKS, TYPE BULL 1005

Image	Diagram	Marking	Weight (kg)	WLL (t)	Breaking load (t)	A	D±1	E±1	H±1	R±2	M±2	L±3
		10-Bull 1005-06	0.5	1.4	5.6	21	43	28	20	110	70	141
		10-Bull 1005-08	0.9	2.5	10	27	51	35.5	26	137	90	175
		10-Bull 1005-10	1.5	4	16	34.5	64.3	45	30	169	108	212.5
		10-Bull 1005-13	2.7	6.7	26.8	40	80	53.5	40.5	209	138.5	270
		10-Bull 1005-16	5.7	10	40	50	104	62	50.5	254	170.5	331
		10-Bull 1005-20	7.9	16	64	60	120	76.5	62	277	192.5	369
		10-Bull 1005-22	11.2	19	76	70	134	80	66	319.5	205	417

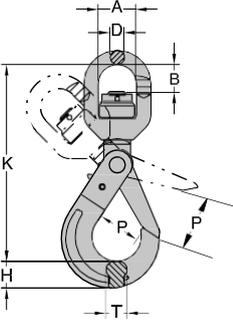
## SELF-LOCKING CLEVIS HOOKS, TYPE BULL 1006

Image	Diagram	Marking	Weight (kg)	WLL (t)	Breaking load (t)	A±0.5	B±1	E±1	H±1	R±2	M±2	L±3
		10-Bull 1006-06	0.5	1.4	5.6	7.5	32	28	20	96	70	131
		10-Bull 1006-08	0.9	2.5	10	9.5	36	35.5	26	123	90	166
		10-Bull 1006-10	1.6	4	16	12	46	45	30	144	109	196.5
		10-Bull 1006-13	2.9	6.7	26.8	15	59	53.5	40.5	182	138.5	251
		10-Bull 1006-16	5.8	10	40	17.5	70	62	50.5	217	170.5	303
		10-Bull 1006-20	8.6	16	64	25	85	76.5	62	235	192.5	337.5
		10-Bull 1006-22	12.1	19	76	25.5	98	80	66	276.5	205	391

## SELF-LOCKING SWIVEL EYE HOOKS, WITHOUT A BEARING, NO ROTATION UNDER LOAD, TYPE BULL 1007

Image	Diagram	Marking	Weight (kg)	WLL (t)	Breaking load (t)	B±1	C±1	D±0.5	E±1	H±1	M±2	L±3
		10-Bull 1007-06	0.6	1.4	5.6	32.5	23	11.5	28	20	70	184
		10-Bull 1007-08	1.1	2.5	10	36	28	13	35.5	26	90	229
		10-Bull 1007-10	2	4	16	42	35	15.5	45	30	108	269
		10-Bull 1007-13	4	6.7	26.8	50	40	17	53.5	40.5	138.5	330
		10-Bull 1007-16	6.8	10	40	61	56	21.5	62	50.5	170.5	413
		10-Bull 1007-20	12.5	16	64	72	62	26	76.5	62	192.5	463
		10-Bull 1007-22	17.1	19	76	97	94	33	80	66	205	572

## SELF-LOCKING SWIVEL EYE HOOKS, WITH A BEARING, WITH ROTATION UNDER LOAD, TYPE BULL 1007-1

Image	Diagram	WLL (t)	Breaking load (t)	Sizes (mm)						Weight (kg)	
				K	P	B	A	D	T		H
		1.4	5.6	149	28	22	32	12	15	19	0.7
		2.5	10	186	34	29	36	13	20	24	1.3
		4.0	16	218	44	34	41	16	26	30	2.0
		6.7	26.8	276	51	43	46	21	30	39	4.2
		10.0	40	329	60	50	61	23	36	49	7.3
		16.0	64	387	70	82	74	25	53	65	12.6
		19.0	76	457	80	95	97	33	49	63	19.2
26.5	106	535	99	115	123	42	56	69	32.7		

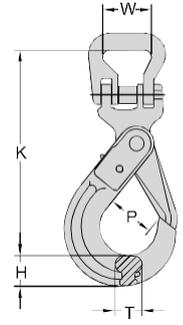
Safety factor: 4:1. The marking is mandatory.

Description	Size / Grade	WLL	Manufacturer	CE marking	Batch №
Mark	10-10	4 T	Bull	CE	11-1

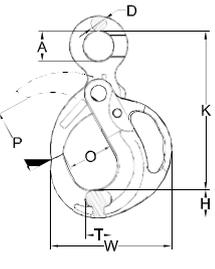
**Caution! Never exceed the shown WLL!**

- Material: improved alloy steel, heat treated and hardened
- With a WLL certificate
- With breaking load test of the batch
- With fatigue test 1.5 times the WLL for 20000 cycles of the batch
- With 100% magnetic-powder crack detection
- With individual 100% control and test of the loading pins
- The surface of the item is treated with powdered plasticizer
- Color: blue RAL 5015
- With a self-locking safety latch, locked the hook is loaded
- Suitable for load chains grade 100

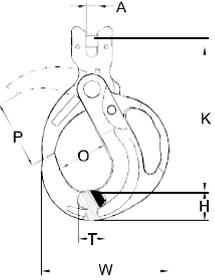
### SELF-LOCKING HOOKS FOR WEBBINGS, TYPE YK 28

		WLL (t)	Breaking load (t)	Sizes (mm)					Weight (kg)
				K	P	W	T	H	
		1.4	5.6	138	29	38	15	19	0.6
		2.5	10.0	169	34	40	20	24	1.0
		4.0	16.0	196	44	47	26	30	1.9
		6.7	26.8	253	52	53	30	39	3.9
		10.0	40.0	305	60	67	36	49	6.9
		16.0	64.0	328	90	80	48	62	11.9
19.0	76.0	416	80	125	49	63	18.6		

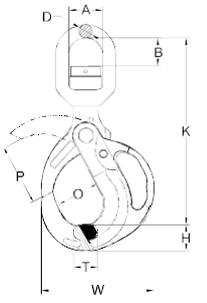
### EYE SELF-LOCKING HOOKS WITH BACK HANDLE, TYPE YK 950

		WLL (t)	Breaking load (t)	Sizes (mm)							Weight (kg)	
				K	W	P	O	A	T	D		H
		4.0	16.0	175	139	71	49	32	27	13	31	1.9
		6.7	26.8	227	174	80	57	40	34	16	39	3.0
		10.0	40.0	277	212	114	78	50	39	21	47	6.3
		16.0	64.0	329	250	127	91	60	54	23	56	11.7
20.0	80.0	350	260	151	105	70	56	24	59	14.5		

### CLEVIS SELF-LOCKING HOOKS WITH BACK HANDLE, TYPE YK 951

		WLL (t)	Breaking load (t)	Sizes (mm)						Weight (kg)	
				K	W	P	O	A	T		H
		4.0	16.0	153	139	71	49	11	27	31	1.9
		6.7	26.8	206	174	80	57	14	34	39	4.1
		10.0	40.0	243	212	114	78	18	39	47	6.4
		16.0	64.0	310	250	127	91	21	54	56	12.7
20.0	80.0	300	260	151	105	24	56	59	14.1		

### SWIVEL SELF-LOCKING EYE HOOKS WITH BACK HANDLE, TYPE YK 952N

		WLL (t)	Breaking load (t)	Sizes (mm)							Weight (kg)		
				K	W	P	O	A	B	T		D	H
		4.0	16.0	225	139	71	49	41	34	27	16	31	2.4
		6.7	26.8	285	174	80	57	46	44	34	21	39	5.2
		10.0	40.0	345	212	114	78	61	50	39	23	47	8.4
		16.0	64.0	433	250	127	91	74	82	54	25	56	14.5
20.0	80.0	475	260	151	105	97	95	56	33	59	19.9		

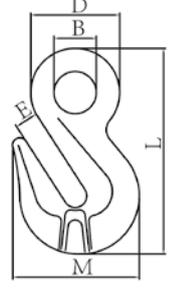
Safety factor: 4:1. The marking is mandatory.

Description	Size / Grade	WLL	Manufacturer	CE marking	Batch №
Mark	10-10	4 T	Bull	CE	11-1

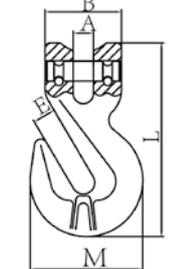
**Caution! Never exceed the shown WLL!**

- Material: improved alloy steel, heat treated and hardened
- With 25% higher WLL than grade 80 items
- With aWLL certificate
- With breaking load test of the batch
- With fatigue test 1.5 times the WLL for 20000 cycles of the batch
- With 100% magnetic-powder crack detection
- With individual 100% control and test of the loading pins
- The surface of the item is treated with powdered plasticizer
- Color: blue RAL 5015
- Suitable for load chains grade 100

## SHORTENING GRAB EYE HOOKS, TYPE BULL 1008

		Marking	Weight (kg)	WLL (t)	Breaking load (t)	E±1	B±1	D±1.5	M±2	L±3
		10-Bull 1008-06	0.2	1.4	5.6	8	14.5	30.5	43.5	71
10-Bull 1008-08	0.28	2.5	10	10.8	18	37	53	91.5		
10-Bull 1008-10	0.72	4	16	13.5	22.5	48.5	72	127.5		
10-Bull 1008-13	1.6	6.7	26.8	16.5	28	59	96	163		
10-Bull 1008-16	2.45	10	40	19.2	36	74	112.5	183		
10-Bull 1008-20	4.72	16	64	24	43.5	89.5	143	227		
10-Bull 1008-22	8.2	19	76	27	48.5	100.5	160.5	260.5		

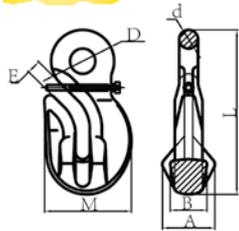
## SHORTENING CLEVIS GRAB HOOKS, TYPE BULL 1009

		Marking	Weight (kg)	WLL (t)	Breaking load (t)	A±0.5	B±1.5	E±1	M±2	L±3
		10-Bull 1009-06	0.22	1.4	5.6	7.5	32	8	43.5	75
10-Bull 1009-08	0.34	2.5	10	9.5	36	10.8	53	91.5		
10-Bull 1009-10	0.82	4	16	12	46	13.5	72	126		
10-Bull 1009-13	1.75	6.7	26.8	15	59	16.5	96	163.5		
10-Bull 1009-16	2.88	10	40	17.5	70	19.2	112.5	183.5		
10-Bull 1009-20	4.84	16	64	24	85	24	143	224		
10-Bull 1009-22	8.3	19	76	27	100	27	160.5	262		

Safety factor: 4:1. The marking is mandatory.

Description	Size / Grade	WLL	Manufacturer	CE marking	Batch No
Mark	10-10	4 T	Bull	CE	11-1

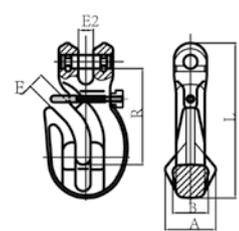
**NEW!**



## SHORTENING EYE GRAB HOOKS WITH A SAFETY PIN, TYPE BULL 1023

Marking	Weight (kg)	WLL (t)	Breaking load (t)	A±1	B±0.8	d±1.5	D±0.5	E±0.5	L±2
10-Bull 1023-8	0.5	2.5	10	35	25	12	16.5	10.5	110
10-Bull 1023-10	1.0	4	16	64	32	15	21	14	136.5
10-Bull 1023-13	2.2	6.7	26.8	57	40	20.5	27.5	15.5	180

**NEW!**



## SHORTENING CLEVIS GRAB HOOKS WITH A SAFETY PIN, TYPE BULL 1024

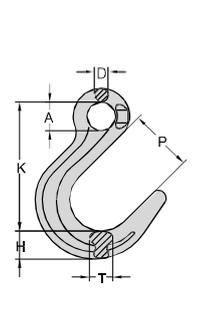
Marking	Weight (kg)	WLL (t)	Breaking load (t)	A±1	B±0.8	d±0.5	D±0.5	E±0.5	L±2
10-Bull 1024-8	0.62	2.5	10	35	25	66	10.5	10.5	108
10-Bull 1024-10	1.16	4	16	44	32	82	12	13	134
10-Bull 1024-13	2.6	6.7	27	57	40	107	15	15.5	175

Safety factor: 4:1. The marking is mandatory.

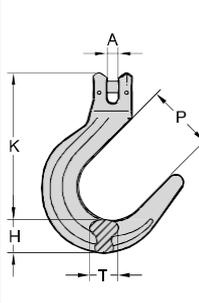
Description	Size / Grade	WLL	Manufacturer	CE marking	Batch No
Mark	10-10	4 T	Bull	CE	11-1

- Material: improved alloy steel, heat treated and hardened
- With a WLL certificate
- With breaking load test of the batch
- With fatigue test 1.5 times the WLL for 20000 cycles of the batch
- With 100% magnetic-powder crack detection
- With individual 100% control and test of the loading pins
- The surface of the item is treated with powdered plasticizer
- Color: blue RAL 5015
- With a self-locking safety latch, locked the hook is loaded
- Suitable for load chains grade 100

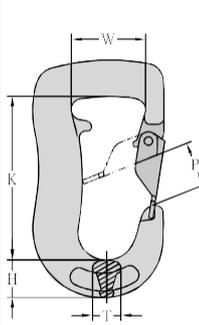
## FOUNDRY EYE HOOKS, TYPE BULL 1035

		WLL (t)	For chain	Sizes (mm)						Weight (kg)
				K	P	A	D	T	H	
		2.5	7.8	123	62	24	12	19	27	0.8
		4.0	10	149	74	32	15	23	32	1.6
		6.7	13	180	88	40	19	32	39	2.5
		10.0	16	213	98	50	25	41	47	4.4
		16.0	20	248	113	60	26	46	57	9.3

## CLEVIS FOUNDRY HOOKS, TYPE BULL 1036

		WLL (t)	For chain	Sizes (mm)					Weight (kg)
				K	P	A	T	H	
		2.5	7.8	133	62	9	19	27	0.95
		4.0	10	163	74	11	23	32	1.8
		6.7	13	200	88	14	32	39	3.6
		10.0	16	239	98	18	41	47	6.4
		16.0	20	305	113	21	46	62	11.2

## SPECIAL HOOKS FOR WEBBINGS, TYPE YK032

		WLL (t)	Sizes (mm)					Weight (kg)
			K	P	W	T	H	
		1	89	25	43	15	20	0.7
		2	116	30	53	20	27	1.5
		3	119	32	64	26	32	2.4
		5	145	45	61	38	44	3.5

Safety factor: 4:1. The marking is mandatory.

Description	Size / Grade	WLL	Manufacturer	CE marking	Batch №
Mark	10-10	4 T	Bull	CE	11-1

## S TYPE HOOKS WITHOUT A SAFETY LATCH

### ITEM № 1600

- Standard execution
- Marked and polished in red
- Safety capacity 4:1



WLL (kg)	A	B	C	D	kg/piece
50	6	80	25	28	0,05
100	8	80	25	28	0,08
200	10	80	25	28	0,10
300	14	100	30	35	0,26
500	16	130	40	45	0,42
750	18	160	50	56	0,70
1000	20	180	55	63	1,00
1250	22	200	60	70	1,25
1500	26	220	65	77	2,00
2000	32	260	80	91	3,65
3000	36	320	95	112	5,70
4000	40	360	110	126	8,50
5000	45	400	120	140	12,00
6000	55	450	135	158	20,00
8000	60	550	165	192	27,00
10000	65	600	180	210	35,00
12500	70	700	180	210	50,00

### ITEM № 1610

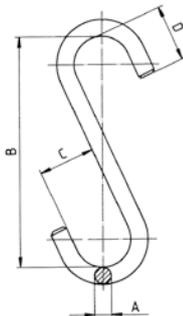
- Standard execution
- With a closed eye
- Marked and polished in red
- Safety capacity 4:1



WLL (kg)	A	B	C	D	kg/piece
100	8	80	25	28	0,08
200	10	80	25	28	0,12
300	14	100	30	35	0,30
500	16	130	40	45	0,52
750	18	160	50	56	0,80
1000	20	180	55	63	1,10
1250	22	200	60	70	1,50
1500	26	220	65	77	2,30
2000	32	260	80	91	4,30
3000	36	320	95	112	6,00
4000	40	360	110	126	9,00
5000	45	400	120	140	14,00
6000	55	450	135	158	22,00
8000	60	550	165	192	31,00
10000	65	600	180	210	42,00
12500	70	700	180	210	59,00

### ITEM № 1700

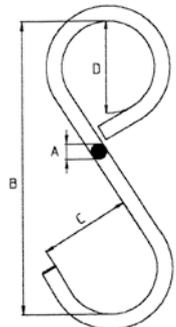
- With bigger construction height
- Marked and polished in red
- Safety capacity 4:1



WLL (kg)	A	B	C	D	kg/piece
100	8	115	28	28	0,08
150	10	115	28	28	0,09
250	12	153	38	38	0,18
350	14	190	50	50	0,45
500	16	230	63	63	0,70
750	20	267	76	76	1,30
1000	22	305	88	88	1,80
1300	26	331	100	100	2,80
1500	28	380	115	115	3,70
2000	32	407	127	127	5,50
2400	36	430	140	140	7,00
2800	38	460	150	150	8,70
3200	40	500	160	160	10,00

### ITEM № 1710

- With bigger construction height
- With a closed eye
- Marked and polished in red
- Safety capacity 4:1



WLL (kg)	A	B	C	D	kg/piece
50	6	80	25	28	0,05
100	8	115	28	28	0,10
150	10	115	28	28	0,15
250	12	153	38	38	0,30
350	14	190	50	50	0,50
500	16	230	63	63	0,80
750	20	267	76	76	1,50
1000	22	305	88	88	2,00
1300	26	331	100	100	3,20
1500	28	380	115	115	4,20
2000	32	407	127	127	6,00
2400	36	430	140	140	8,10
2800	38	460	150	150	10,00
3200	40	500	160	160	12,00

## S TYPE HOOKS WITH IRON SHEET SAFETY LATCH

### ITEM № 1620

- With two-sided safety latches
- Marked and polished in red
- Safety capacity 4:1



WLL (kg)	A	B	C	D
100	8	80	20	15
200	10	80	17	20
300	14	100	23	20
500	16	130	32	22
750	18	160	42	27
1.000	20	180	48	37
1.250	22	200	51	38
1.500	26	220	55	50
2.000	32	260	70	56
3.000	36	320	84	65
4.000	40	360	103	76
5.000	45	400	110	84

### ITEM № 1640

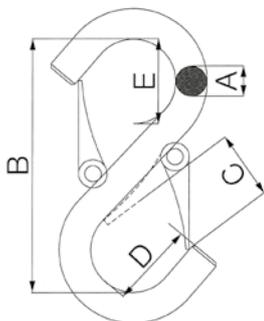
- Standard execution
- With one-sided closed eye and a safety latch
- Marked and polished in red
- Safety capacity 4:1



WLL (kg)	A	B	C	D	E
100	8	80	20	15	28
200	10	80	17	20	28
300	14	100	23	20	35
500	16	130	32	22	45
750	18	160	42	27	56
1.000	20	180	48	37	63
1.250	22	200	51	38	70
1.500	26	220	55	50	77
2.000	32	260	70	56	91
3.000	36	320	84	65	112
4.000	40	360	103	76	126
5.000	45	400	110	84	140

### ITEM № 1730

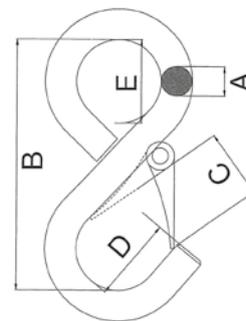
- With bigger construction height
- With two-sided safety latches
- Marked and polished in red
- Safety capacity 4:1



WLL (kg)	A	B	C	D
100	8	115	23	15
200	10	115	19	20
250	12	153	31	23
350	14	190	42	27
500	16	230	55	40
750	20	267	68	47
1.000	22	305	81	62
1.300	26	331	91	68
1.500	28	380	105	88
2.000	32	407	117	92
2.400	36	430	130	105
2.800	38	460	140	115
3.200	40	500	149	113

### ITEM № 1750

- With bigger construction height
- With one-sided closed eye and a safety latch
- Marked and polished in red
- Safety capacity 4:1



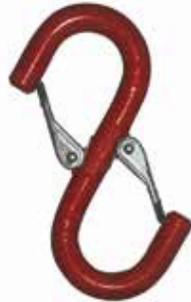
WLL (kg)	A	B	C	D	E
100	8	115	23	15	28
200	10	115	19	20	28
250	12	153	31	23	38
350	14	190	42	27	50
500	16	230	55	40	63
750	20	267	68	47	76
1.000	22	305	81	62	88
1.300	26	331	91	68	100
1.500	28	380	105	88	115
2.000	32	407	117	92	127
2.400	36	430	130	105	140
2.800	38	460	140	115	150
3.200	40	500	149	113	160

**Caution! Never exceed the shown WLL!**

## S TYPE HOOKS WITH FORGED SAFETY LATCH

### ITEM № 1625

- Standard execution
- With two-sided safety latches
- Marked and polished in red
- Safety capacity 4:1



WLL (kg)	A	B	C	D
100	8	80	20	15
200	10	80	17	20
300	14	100	23	20
500	16	130	32	22
750	18	160	42	27
1.000	20	180	48	37
1.250	22	200	51	38
1.500	26	220	55	50
2.000	32	260	70	56
3.000	36	320	84	65

### ITEM № 1645

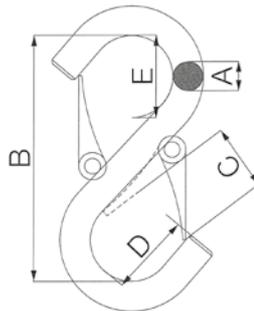
- Standard execution
- With one-sided closed eye and a safety latch
- Marked and polished in red
- Safety capacity 4:1



WLL (kg)	A	B	C	D	E
100	8	80	20	15	28
200	10	80	17	20	28
300	14	100	23	20	35
500	16	130	32	22	45
750	18	160	42	27	56
1.000	20	180	48	37	63
1.250	22	200	51	38	70
1.500	26	220	55	50	77
2.000	32	260	70	56	91
3.000	36	320	84	65	112

### ITEM № 1735

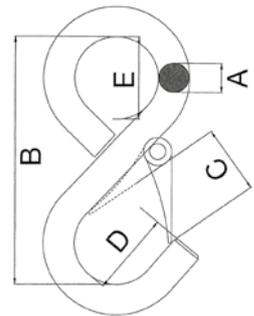
- With bigger construction height
- With two-sided safety latches
- Marked and polished in red
- Safety capacity 4:1



WLL (kg)	A	B	C	D
100	8	115	23	15
200	10	115	19	20
250	12	153	31	23
350	14	190	42	27
500	16	230	55	40
750	20	267	68	47
1.000	22	305	81	62
1.300	26	331	91	68

### ITEM № 1755

- With bigger construction height
- With one-sided closed eye and a safety latch
- Marked and polished in red
- Safety capacity 4:1



WLL (kg)	A	B	C	D	E
100	8	115	23	15	28
200	10	115	19	20	28
250	12	153	31	23	38
350	14	190	42	27	50
500	16	230	55	40	63
750	20	267	68	47	76
1.000	22	305	81	62	88
1.300	26	331	91	68	100

## S TYPE HOOKS WITHOUT A SAFETY LATCH

### ITEM № 1810

- Standard execution
- Marked and polished in green
- Safety capacity 4:1



WLL (kg)	A	B	C	D
1.200	20	180	55	63
1.700	25	220	65	77
2.000	30	260	80	91
3.150	35	320	95	112
4.300	40	360	110	126

### ITEM № 1830

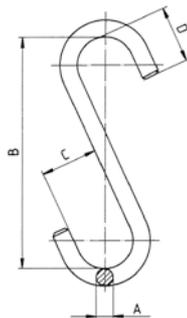
- Standard execution
- With one-sided closed eye
- Marked and polished in green
- Safety capacity 4:1



WLL (kg)	A	B	C	D
1.200	20	180	55	63
1.700	25	220	65	77
2.000	30	260	80	91
3.150	35	320	95	112
4.300	40	360	110	126

### ITEM № 1820

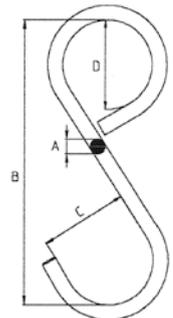
- With bigger construction height
- Marked and polished in green
- Safety capacity 4:1



WLL (kg)	A	B	C	D
1.000	20	267	76	76
1.500	25	331	100	100
2.000	30	407	127	127
2.500	35	430	140	140
3.500	40	500	160	160

### ITEM № 1840

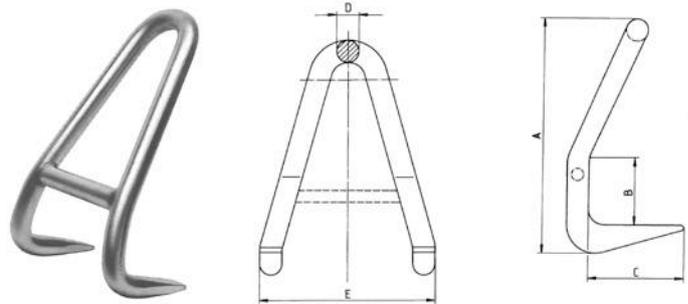
- With bigger construction height
- With one-sided closed eye
- Marked and polished in green
- Safety capacity 4:1



WLL (kg)	A	B	C	D
1.000	20	267	76	76
1.500	25	331	100	100
2.000	30	407	127	127
2.500	35	430	140	140
3.500	40	500	160	160

## ITEM № 1900

- Special product for sheet iron operations, lightweight
- Produced by high tensile steel, by request only, with reinforcement
- Marked and polished in red

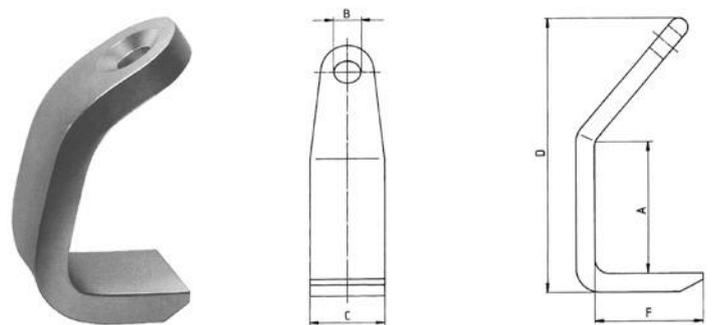


WLL (kg)	A	B	C	D	E	kg/piece
500	180	50	80	18	150	1,3
1120	210	60	95	20	170	1,8
1500	240	70	105	22	200	2,2
2000	280	80	115	26	220	3,3
2500	340	100	120	32	270	6,5
3200	400	120	140	32	320	8,3
4000	530	160	180	36	420	13,5
5300	660	200	210	40	520	19,0
6000	800	250	250	50	640	33,0
7500	980	300	300	60	760	60,0
10000	1000	400	350	70	800	75,0

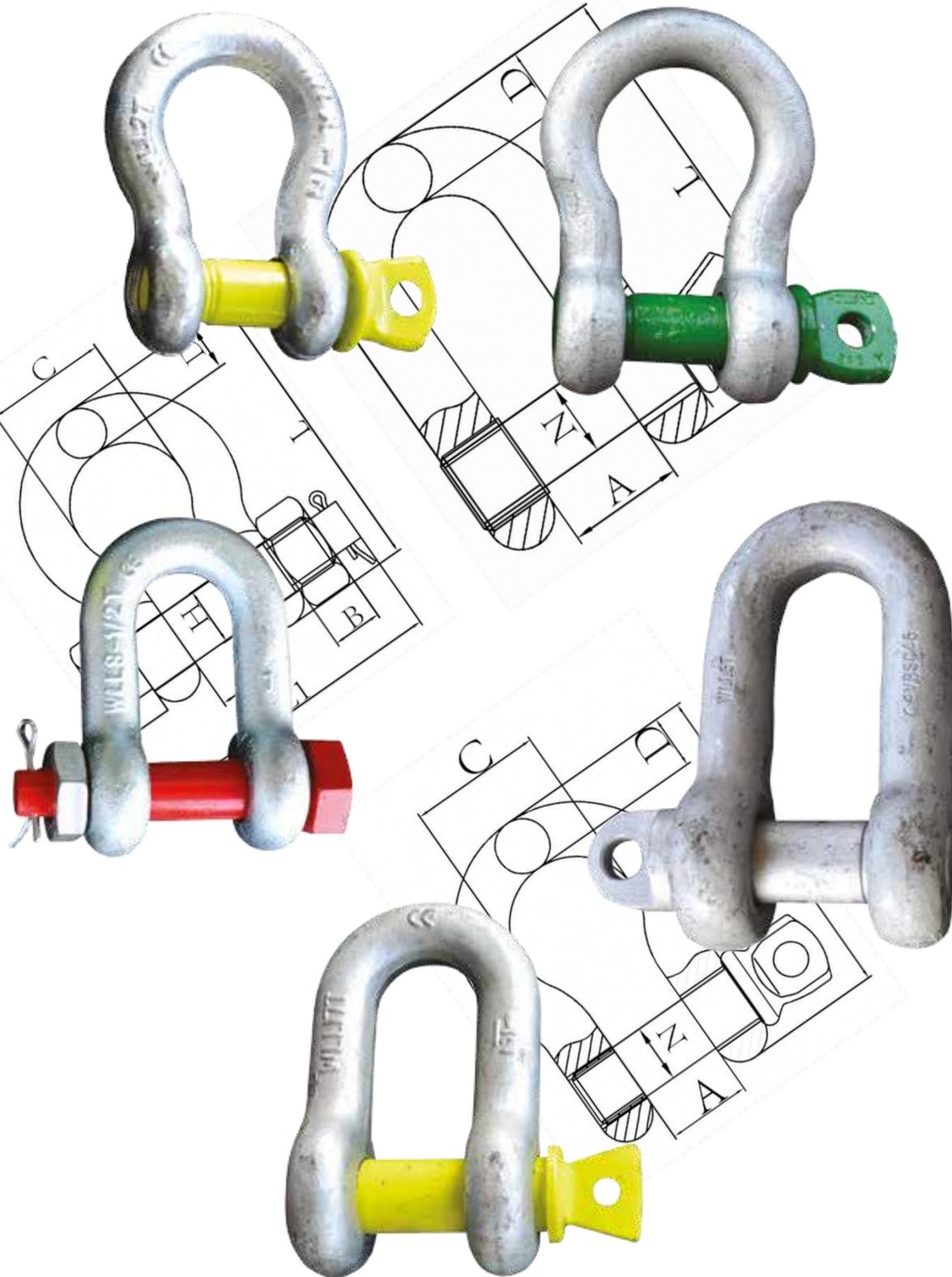
## SPECIAL CLAMPS FOR SHEET IRON

## ITEM № 2100

- Special product for sheet iron operations, lightweight
- Produced by high tensile steel, by request only, with simplified shape, by request it can be produced with a handle
- Marked and polished in red



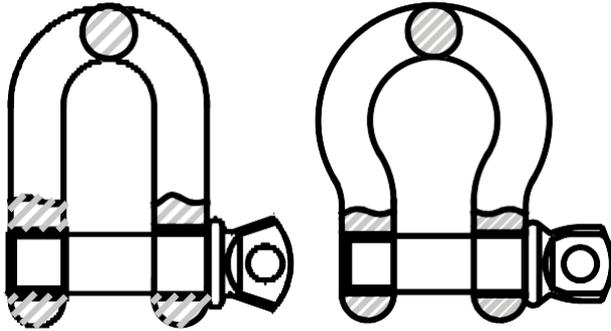
WLL (kg)	A	B	C	D	E	kg/piece
500	80	16	50	170	70	0,8
1000	90	20	60	210	90	1,4
1500	110	23	70	240	105	2,5
2000	125	25	80	275	110	3,5
2500	145	30	90	300	120	5,7
3000	185	35	100	380	135	7,4
4000	220	35	115	450	145	10,2
5000	260	40	130	520	160	15,0
7500	300	45	150	600	180	20,0
10000	300	45	150	600	180	28



# Shackles

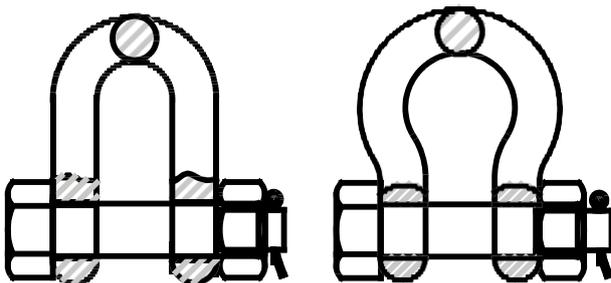
### SCREW TYPE SHACKLES, TYPE BULL 365 AND BULL 364

- Suitable mainly for single load and unload operations.
- By side loading, the WLL decreases!
- Before every lifting operation, the bolt must be tightened!

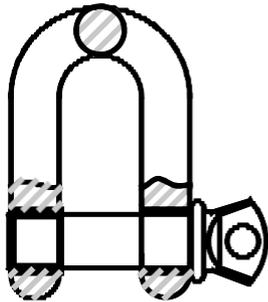


### BOLT TYPE SHACKLES, TYPE BULL 363 AND BULL 362

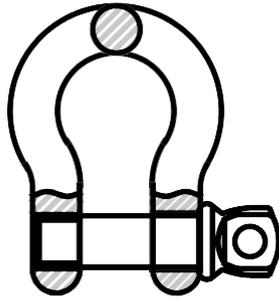
- Suitable for permanent and long-termed rigging, also for long load and unload operations.
- By side loading, the WLL decreases!
- The nut always has to be tightened and the safety pin – on its place!



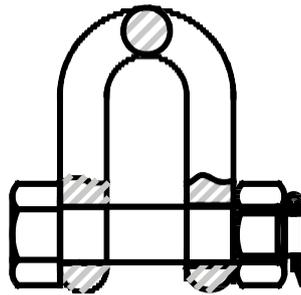
**SAFE WORK WITH SHACKLES**



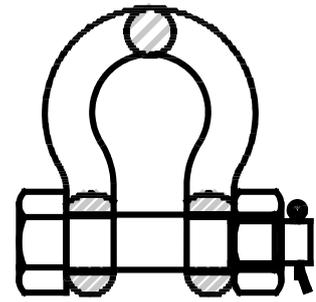
**BULL 363**



**BULL 362**

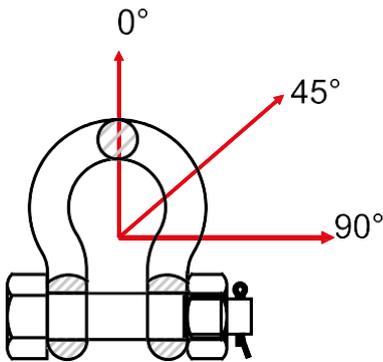


**BULL 365**



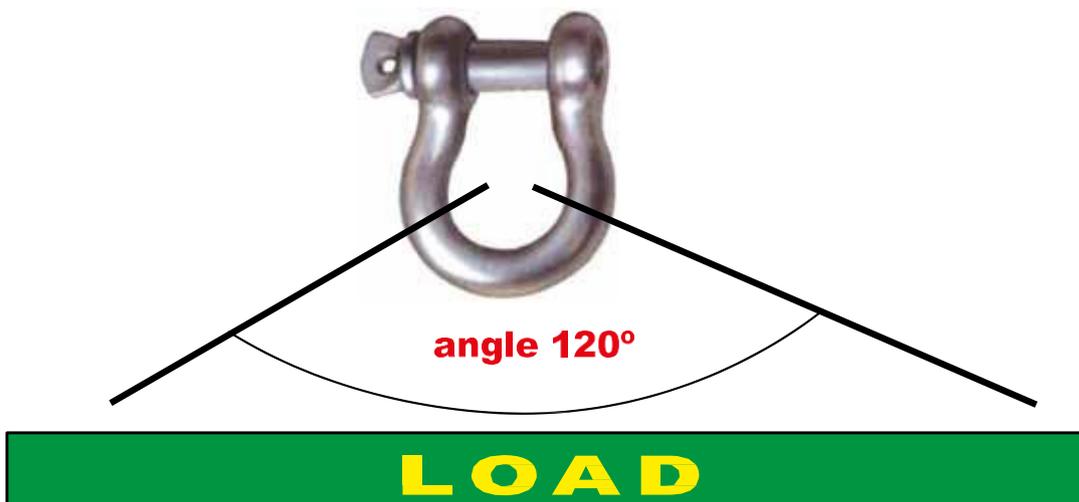
**BULL 364**

**BY SIDE LOADING, THE WLL DECREASES!**



SHACKLES BULL 362, BULL 363, BULL 364, BULL 365	
Working angle	WLL
0°	100%
0° – 45°	70%
45° – 90°	50%

**WHEN USING SHACKLES TYPE BULL 364 AND BULL 362 AS A MASTER LINK, THE MAXIMUM WORKING ANGLE IS 120°. NEVER EXCEED THIS WORKING ANGLE!**



*Caution! Never exceed the shown WLL!*

## HIGH-TENSILE D TYPE SCREW SHACKLES TYPE BULL 365

- These shackles are forged, with a heat-treatment and hardened
- The body of the shackle is made by carbon steel with galvanized surface
- The loading pin is made by alloy steel, painted
- Application: for single lifting operations

Safety capacity 6:1. The marking is mandatory.

Description	Mark
Size	3/8
WLL	1 T
Manufacturer	Bull
CE marking	CE
Batch No	14/1

Marking	Weight (kg)	WLL (t)	Breaking load (t)	A±1	D±0.5	L±2	N±0.2
Bull-365-1/4	0.05	0.5	3	12	6.35	40.4	7.5
Bull-365-5/16	0.08	0.75	4.5	13.5	8	48.5	9.5
Bull-365-3/8	0.13	1	6	16.8	9.7	58.5	11.5
Bull-365-7/16	0.19	1.5	9	19	11.2	67.6	13.4
Bull-365-1/2	0.27	2	12	20.6	12.7	77	15.5
Bull-365-5/8	0.57	3.25	19.5	27	15.5	95.5	19.5
Bull-365-3/4	1.19	4.75	28.5	32	20.6	116.6	21.5
Bull-365-7/8	1.43	6.5	39	36.6	24.6	135.5	24
Bull-365-1	2.15	8.5	51	43	25.4	151	29.2
Bull-365-1-1/8	3.06	9.5	57	46	31.75	172.2	29.5
Bull-365-1-1/4	4.10	12	72	51.6	35	190.5	35.7
Bull-365-1-3/8	5.28	13.5	81	57.2	38.1	210.3	39
Bull-365-1-1/2	7.22	17	102	60.5	41.1	230.1	39
Bull-365-1-3/4	12.13	25	150	73.2	53.8	278.6	48
Bull-365-2	19.19	35	210	82.6	50.8	321	56
Bull-365-2-1/2	32.55	55	330	105	66.5	377	67.5

The shown WLL is for vertical loading only

## HIGH-TENSILE D TYPE BOLT SHACKLES, WITH NUT AND SAFETY PIN, TYPE BULL 363

- These shackles are forged, with a heat-treatment and hardened
- The body of the shackle is made by carbon steel with galvanized surface
- The loading pin is made by alloy steel, painted
- The nut is galvanized
- Application: for permanent or long term rigging operations

Safety capacity 6:1. The marking is mandatory.

Description	Mark
Size	3/8
WLL	1 T
Manufacturer	Bull
CE marking	CE
Batch No	14/1

Marking	Weight (kg)	WLL (t)	Breaking load (t)	A±1.2	D±0.5	N±0.2	L±2	L1±0.5	B
Bull-363-3/16	0.01	0.33	1.98	9.7	4.8	7	34.15	32	3.2
Bull-363-1/4	0.05	0.5	3	11.9	6.4	8	40.4	40	4
Bull-363-5/16	0.10	0.75	4.5	13.5	8	9.7	48.5	48.4	5
Bull-363-3/8	0.15	1	6	16.8	9.7	11.2	58.7	57.8	6
Bull-363-7/16	0.22	1.5	9	19	11.2	12.7	67.8	65.9	7
Bull-363-1/2	0.34	2	12	20.6	12.7	16.3	77	73.7	8
Bull-363-5/8	0.67	3.25	19.5	27	16	20	95.5	94	10
Bull-363-3/4	1.14	4.75	28.5	32	20.6	22.6	115	108.7	10
Bull-363-7/8	1.75	6.5	39	36.6	24.6	25.9	135.4	127.8	12
Bull-363-1	2.52	8.5	51	43	25.4	29.2	151	145.8	13.5
Bull-363-1-1/8	3.40	9.5	57	46	31.75	31.8	172.2	163.7	15
Bull-363-1-1/4	4.90	12	72	51.6	35	35.6	190.5	178.4	18
Bull-363-1-3/8	6.24	13.5	81	57.2	38.1	38.9	210.3	188.3	19
Bull-363-1-1/2	8.39	17	102	60.5	41.2	42.2	230	211	20
Bull-363-1-3/4	14.24	25	150	73.2	53.8	51.8	278.7	281.6	39
Bull-363-2	21.20	35	210	82.6	59.9	58.4	323.6	313.5	46
Bull-363-2-1/2	38.55	55	330	105	66.8	71.1	377.2	375	58
Bull-363-3	56.35	85	510	127	90	82.6	428.5	444.4	64

The shown WLL is for vertical loading only

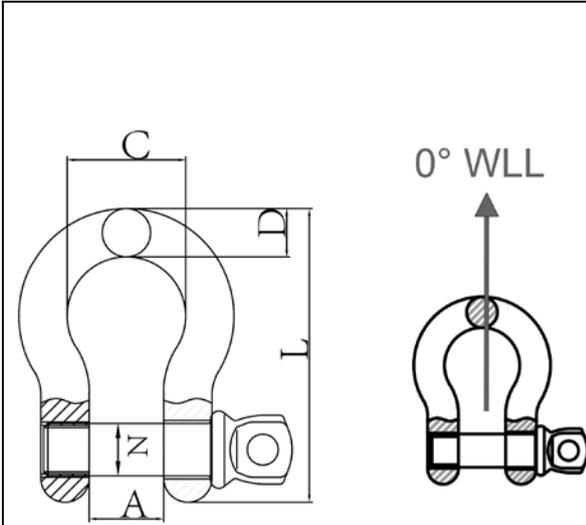
**Caution! Never exceed the shown WLL!**

## HIGH TENSILE OMEGA TYPE/BOW/ SCREW SHACKLE TYPE BULL 364

Safety capacity 6:1. The marking is mandatory.

- These shackles are forged, with a heat-treatment and hardened
- The body of the shackle is made by carbon steel with galvanized surface
- The loading pin is made by alloy steel, painted
- Application: for single loading operations

Description	Mark
Size	3/8
WLL	1 T
Manufacturer	Bull
CE marking	CE
Batch №	14/1



The shown WLL is for vertical loading only

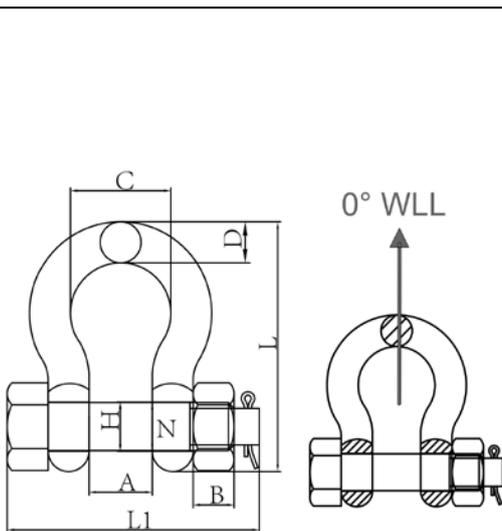
Marking	Weight (kg)	WLL (t)	Breaking load (t)	A±1.2	C±1.2	D±0.5	N±0.2	L±2
Bull-364-	0.03	0.33	1.98	9.65	15.3	4.8	6	37.5
Bull-364-1/4	0.05	0.5	3	12	19.8	6.4	7.5	46.8
Bull-364-	0.09	0.75	4.5	13.5	21.4	8	9.5	53
Bull-364-	0.14	1	6	16.8	26.2	9.7	11.5	63.2
Bull-364-	0.17	1.5	9	19.1	29.5	11.2	13.4	78
Bull-364-1/2	0.33	2	12	20.6	33.3	12.7	15.5	83.3
Bull-364-	0.62	3.25	19.5	27	42.9	16	19.5	106.
Bull-364-	1.07	4.75	28.5	32	50.8	20.6	21.5	126.
Bull-364-7/8	1.64	6.5	39	36.6	58	24.6	24	148
Bull-364-1	2.28	8.5	51	43	68.4	27	26.5	167
Bull-364-1-	3.36	9.5	57	46	74	31.8	29.5	190
Bull-364-1-	4.31	12	72	51.6	82.6	35	35.7	209.
Bull-364-1-	6.14	13.5	81	57.2	92.2	38.1	39	232.
Bull-364-1-	7.80	17	102	60.5	98.6	41	39	254
Bull-364-1-	12.60	25	150	73.2	127	57	48	313.
Bull-364-2	20.41	35	210	82.6	146	61	56	347.
Bull-364-2-	38.90	55	330	105	184.2	79.5	67.5	453.

## HIGH TENSILE OMEGA TYPE/BOW/ BOLT SHACKLE WITH NUT AND SAFETY PIN, TYPE BULL 362

Safety capacity 6:1. The marking is mandatory.

- These shackles are forged, with a heat-treatment and hardened
- The body of the shackle is made by carbon steel with galvanized surface
- The loading pin is made by alloy steel, painted
- The nut is galvanized
- Application: for permanent or long term rigging

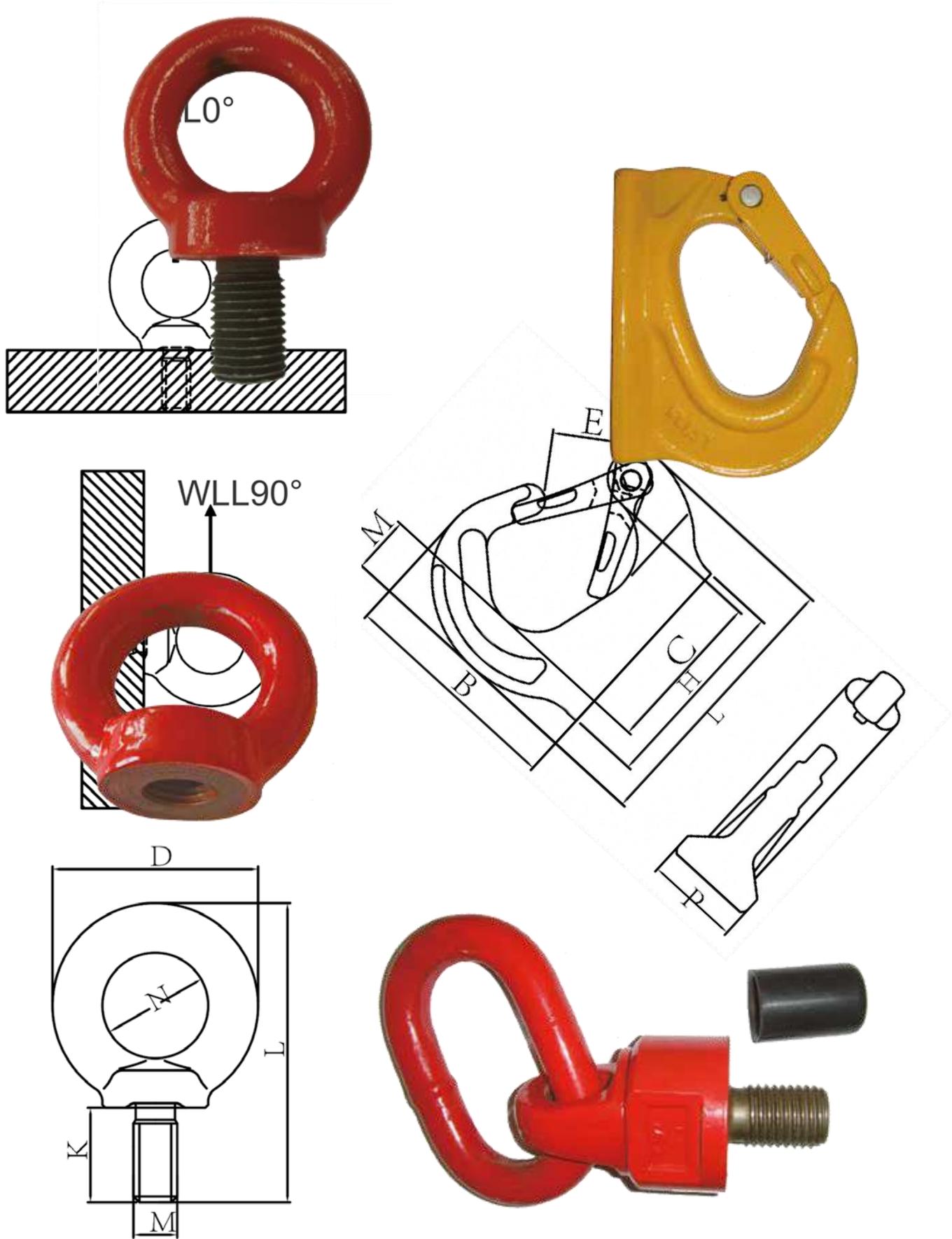
Description	Mark
Size	3/8
WLL	1 T
Manufacturer	Bull
CE marking	CE
Batch №	14/1



The shown WLL is for vertical loading only

Marking	Weight (kg)	WLL (t)	Breaking load (t)	A±1.5	C±1.5	D±1	L±3	H	+2 0	N	L±0.5	B
Bull-362-3/16	0.03	0.33	1.98	9.7	15.3	4.8	37.5	7	6	32	3.2	
Bull-362-1/4	0.05	0.5	3	11.9	19.8	6.35	46.8	8.7	7.5	40	4	
Bull-362-5/16	0.10	0.75	4.5	13.5	21.4	8	53	11.5	9.5	48.4	5	
Bull-362-3/8	0.15	1	6	16.8	26.2	9.7	63.3	13	11.2	58.8	6	
Bull-362-7/16	0.22	1.5	9	19	29.5	11.2	78	15	13.4	65.9	7	
Bull-362-1/2	0.46	2	12	20.6	33.3	12.7	83.3	17	15.2	73.7	8	
Bull-362-5/8	0.73	3.25	19.5	27	42.9	17.5	106.5	21	19	94	10	
Bull-362-3/4	1.10	4.75	28.5	32	50.8	20.6	126.5	23.5	21.2	108.7	10	
Bull-362-7/8	1.79	6.5	39	36.6	58	24.6	148.1	26.5	24	127.8	12	
Bull-362-1	2.57	8.5	51	43	68.4	27	166.6	29.5	27	145.8	13.5	
Bull-362-1-1/8	3.75	9.5	57	46	74	31.75	190	32	30	160.6	15	
Bull-362-1-1/4	5.31	12	72	51.6	82.6	35	209.6	38.5	36	181.4	18	
Bull-362-1-3/8	7.18	13.5	81	57.2	92.2	38.1	232.7	41	39	188.3	19	
Bull-362-1-1/2	9.43	17	102	60.5	98.6	41.2	254	41.5	39	211	20	
Bull-362-1-3/4	15.38	25	150	73.2	127	57.2	313.5	50.5	48	281.6	39	
Bull-362-2	23.70	35	210	82.5	146	61	347.5	58.5	56	311	46	
Bull-362-2-1/2	44.56	55	330	105	184.2	79.5	453.2	70.5	68	403	58	
Bull-362-3	69.85	85	510	127	200.2	92	546	82.5	80	476	64	

**Caution! Never exceed the shown WLL!**



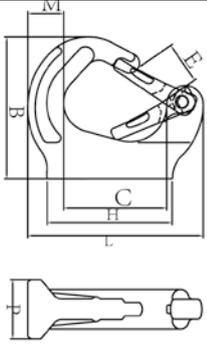
## Lifting points

## WELD ON HOOKS, TYPE BULL 019

- Material: alloy steel, with a heat-treatment and hardened
- With breaking load test
- With 100% magnetic-powder crack detection
- The surface of the item is treated with powdered plasticizer
- Color: orange RAL or yellow RAL 1003
- With a forged safety latch
- The welding must be done only by a qualified welder!

Safety factor 5:1. The marking is mandatory.

Description	Mark
WLL	2 T
Manufacturer	Bull
CE marking	CE
Batch №	11-1

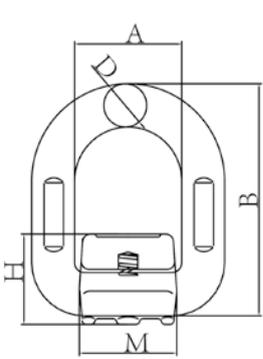
		Marking	Weight (kg)	WLL (t)	Breaking load (t)	B±1.5	C±1.2	E±0.5	H±2	M±1	P±1	L±2
		8-Bull 019-2.0T	0.83	2	10	92	67	30	81	23.3	34	114
		8-Bull 019-3.0T	1.2	3	15	106	73.5	33.2	116	33.6	36	129
		8-Bull 019-5.0T	2.46	5	25	133	94	39	159	44	43.5	171
		8-Bull 019-8.0T	3.26	8	40	136.5	94	35	159	44	51	177
		8-Bull 019-10.0T	5.17	10	50	169.5	134.5	50.54	194	54.7	53	223

## D TYPE WELDING POINTS, TYPE BULL 344

- Material: alloy steel, with a heat-treatment and hardened
- With breaking load test
- With 100% magnetic-powder crack detection
- The surface of the item is treated with powdered plasticizer
- Color: orange RAL or red RAL 3020
- With an inner spring that ensures a better rotation control
- The welding must be done only by a qualified welder!

Safety factor 4:1. The marking is mandatory.

Description	Mark
WLL	2 T
Manufacturer	Bull
CE marking	CE
Batch №	11-1

		Marking	Weight (kg)	WLL (t)	Breaking load (t)	A±1	2B±2	D±1	M±1.2	H±0.3
		8-Bull344-1T	0.4	1.12	4.48	41	78.5	13	37	35
		8-Bull 344-2T	0.47	2	8	42	88	14	40	37
		8-Bull 344-3T	0.69	3.15	12.6	45	94	17	42.5	40
		8-Bull 344-5T	1.46	5.3	21.2	55	118	22	61	52
		8-Bull 344-8T	2.5	8	32	70	141	26.5	70.5	57
		8-Bull 344-15T	5.79	15	60	97	188	34	90	77

**Caution! Never exceed the shown WLL!**

## HIGH-TENSILE RING BOLTS, TYPE BULL 054

- Material: alloy steel, with a heat-treatment and hardened
- With 100% magnetic-powder crack detection
- The surface of the item is treated with powdered plasticizer
- Color: orange RAL 2003 or red RAL 3020
- With a higher WLL

Safety factor 4:1. The marking is mandatory.

Description	Mark
Size	M8
WLL	1 T
Manufacturer	Bull
CE marking	CE
Batch №	

		Marking	Weight (kg)	WLL (t)		D	K	N	L	C±1
				with working angle 0°	with working angle 90°					
<p><b>THIS WAY OF USE IS NOT RECOMMENDED!</b></p>		8-Bull 054-M6	0.05	0.4	0.15	28	13	16	42	17
		8-Bull 054-M8	0.06	1	0.4	36	15	20	51	20
		8-Bull 054-M10	0.11	1	0.4	45	18	25	63	25
		8-Bull 054-M12	0.18	2	0.75	54	22	30	75	30
		8-Bull 054-M14	0.28	4	1.5	63	28	35	88	35
		8-Bull 054-M16	0.28	4	1.5	63	28	35	88	35
		8-Bull 054-M20	0.45	6	2.3	72	30	40	101	40
		8-Bull 054-M24	0.87	8	3.2	90	38	50	128	50
		8-Bull 054-M30	1.66	12	4.5	108	45	60	154	60
		8-Bull 054-M36	2.65	16	7	126	55	70	183	70
		8-Bull 054-M42	4.03	24	9	144	65	80	212	85
		8-Bull 054-M48	6.38	32	12	166	70	90	238	100

## HIGH TENSILE RING NUTS TYPE BULL 055

- Material: alloy steel, with a heat-treatment and hardened
- With 100% magnetic-powder crack detection
- The surface of the item is treated with powdered plasticizer
- Color: red RAL 3020
- With a higher WLL

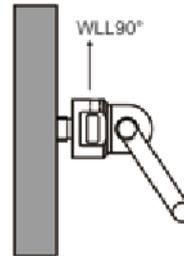
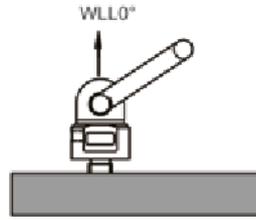
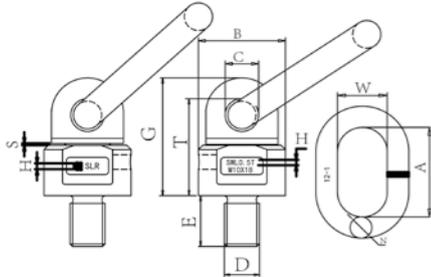
Safety factor 4:1. The marking is mandatory.

Description	Mark
Size	M8
WLL	1 T
Manufacturer	Bull
CE marking	CE
Batch №	

		Marking	Weight (kg)	WLL (t)		D±1	N±0.6	L±0.5
				with working angle 0°	with working angle 90°			
<p><b>THIS WAY OF USE IS NOT RECOMMENDED!</b></p>		Bull 055-M6	0.049	0.4	0.15	36	20	36
		Bull 055-M8	0.05	1	0.4	36	20	36
		Bull 055-M10	0.09	1	0.4	45	25	45
		Bull 055-M12	0.16	2	0.75	54	30	53
		Bull 055-M16	0.24	4	1.5	63	35	62
		Bull 055-M20	0.36	6	2.3	63	35	62
		Bull 055-M24	0.72	8	3.2	72	40	71
		Bull 055-M30	1.32	12	4.5	72	40	71
		Bull 055-M36	2.08	16	7	81	45	81
		Bull 055-M42	3.11	24	9	90	50	90
		Bull 055-M48	5.02	32	12	90	50	90

## HIGH-TENSILE RING BOLTS WITH A MASTER LINK, TYPE BULL 303

- Material: alloy steel, with a heat-treatment and hardened
- With a WLL certificate
- With breaking load test of the batch
- With fatigue test 1.5 times the WLL for 20000 cycles of the batch
- With 100% magnetic-powder crack detection
- The surface of the item is treated with powdered plasticizer
- Color: orange RAL 2003 or red RAL 3020



Marking	Weight (kg)	WLL Ø		D x E	B	C	G	T	A	W	N	H	S
		with working angle 0°	with working angle 90°										
8-Bull 303-M8	0.41	0.6	0.3	M 8 x 13	36	16.5	51	41	55	30	14	3	1
8-Bull 303-M10	0.43	0.9	0.45	M 10 x 18	36	16.5	51	41	55	30	14	3	1
8-Bull 303-M10x90	0.38	1.0	0.5	M 10 x 90	36	16.5	51	41	55	30	14	3	1
8-Bull 303-M12	0.44	1.0	0.5	M 12 x 18	36	16.5	51	41	55	30	14	3	1
8-Bull 303-M12x40	0.52	1.0	0.45	M 12 x 40	36	16.5	51	41	55	30	14	3	1
8-Bull 303-M12x45	0.47	1.0	0.5	M 12 x 45	36	16.5	51	41	55	30	14	3	1
8-Bull 303-M12x110	0.53	1.0	0.5	M 12 x 110	36	16.5	51	41	55	30	14	3	1
8-Bull 303-M14	0.45	2.0	1.12	M 14 x 20	36	16.5	51	41	55	30	14	3	1
8-Bull 303-M16	0.46	2.0	1.12	M 16 x 40	36	16.5	52	42	55	30	14	3	1
8-Bull 303-M16x40	0.48	2.0	1.12	M 16 x 100	36	16.5	52	42	55	30	14	3	1
8-Bull 303-M16x100	0.54	2.0	1.12	M 16 x 100	36	16.5	52	42	55	30	14	3	1
8-Bull 303-M16x120	0.6	2.0	1.12	M 16 x 120	36	16.5	52	42	55	30	14	3.5	1
8-Bull 303-M20	0.96	4	2	M 20 x 30	49.5	19	68	56	70	35	16	3.5	1
8-Bull 303-M20x120	1.17	4	2	M 20 x 120	49.5	19	68	56	70	35	16	3.5	1
8-Bull 303-M24	1.45	6.3	3.15	M 24 x 40	57	22	78	65.5	85	40	18	3.5	1.5
8-Bull 303-M24x40	1.42	6.3	3.15	M 24 x 90	57	22	78	65.5	85	40	18	3.5	1.5
8-Bull 303-M24x90	1.66	6.3	3.15	M 24 x 90	57	22	78	65.5	85	40	18	3.5	1.5
8-Bull 303-M24x120	1.74	6.3	3.15	M 24 x 120	57	22	78	65.5	85	40	18	3.5	1.5
8-Bull 303-M27	1.47	6.3	3.15	M 27 x 35	57	22	78	65.5	85	40	20	3.5	1.5
8-Bull 303-M30(5T)	2.17	10.6	5.3	M 30 x 35	66	23.5	96.5	80.5	85	40	20	4	1.5
8-Bull 303-M30x38	2.18	10.6	5.3	M 30 x 38	66	23.5	96.5	80.5	85	40	20	4	1.5
8-Bull 303-M30x120	2.65	10.6	5.3	M 30 x 120	66	23.5	96.5	80.5	85	40	22	4	1.5
8-Bull 303-M30(8T)	3.57	11.8	8	M 30 x 35	80	28	112	92	115	50	22	6	2
8-Bull 303-M30x38	3.58	11.8	8	M 30 x 38	80	28	112	92	115	50	22	6	2
8-Bull 303-M30x120	4.01	11.8	8	M 30 x 120	80	28	112	92	115	50	22	6	2
8-Bull 303-M36x90	4.17	11.8	8	M 36 x 90	80	27	109	89.5	115	50	22	6	2
8-Bull 303-M36x400	6.41	11.8	8	M 36 x 400	80	27	109	89.5	115	50	22	6	2
8-Bull 303-M39	3.65	11.8	8	M 39 x 50	80	27	109	89.5	115	50	22	6	2
8-Bull 303-M39x90	3.71	11.8	8	M 39 x 90	80	27	109	89.5	115	50	22	6	2
8-Bull 303-M42	3.62	15	10	M 42 x 50	80	27	109	89.5	115	50	25	6	2.5
8-Bull 303-M42x60	3.72	15	10	M 42 x 60	80	27	109	89.5	115	50	25	6	2.5
8-Bull 303-M42x130	4.46	15	10	M 42 x 130	80	27	109	89.5	115	50	25	6	2.5
8-Bull 303-M42x180	5.0	15	10	M 42 x 180	80	27	109	89.5	115	50	25	6	2.5
8-Bull 303-M45x60	4.17	15	10	M 45 x 60	80	27	109	89.5	115	50	25	6	2.5
8-Bull 303-M48	4.02	15	10	M 48 x 50	80	27	109	89.5	115	50	25	6	2.5
8-Bull 303-M48x110	4.8	15	10	M 48 x 110	80	27	109	89.5	115	50	25	6	2.5
8-Bull 303-M56x84	11.6	25	15	M 56 x 84	117	42	310	280	152	70	32	7	2.5
8-Bull 303-M64x95	12.4	25	15	M 64 x 95	117	42	310	280	152	70	32	7	2.5

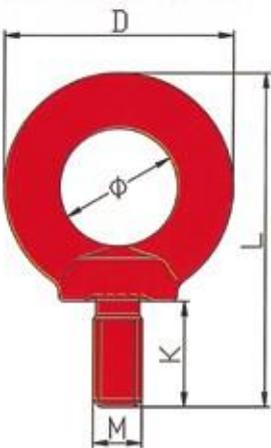
Safety factor: 4:1. The marking is mandatory.

Description	Size	WLL	Manufacturer	CE marking	Batch №
Mark	M20x30	2 T	Bull	CE	-

**Caution! Never exceed the shown WLL!**

## RING BOLTS DIN 580, TYPE BULL 054

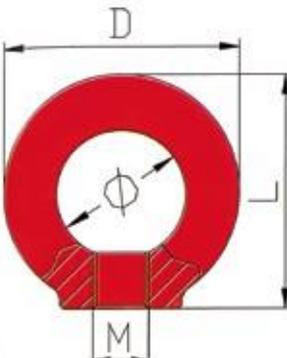
- Material: normal steel
- With lower WLL



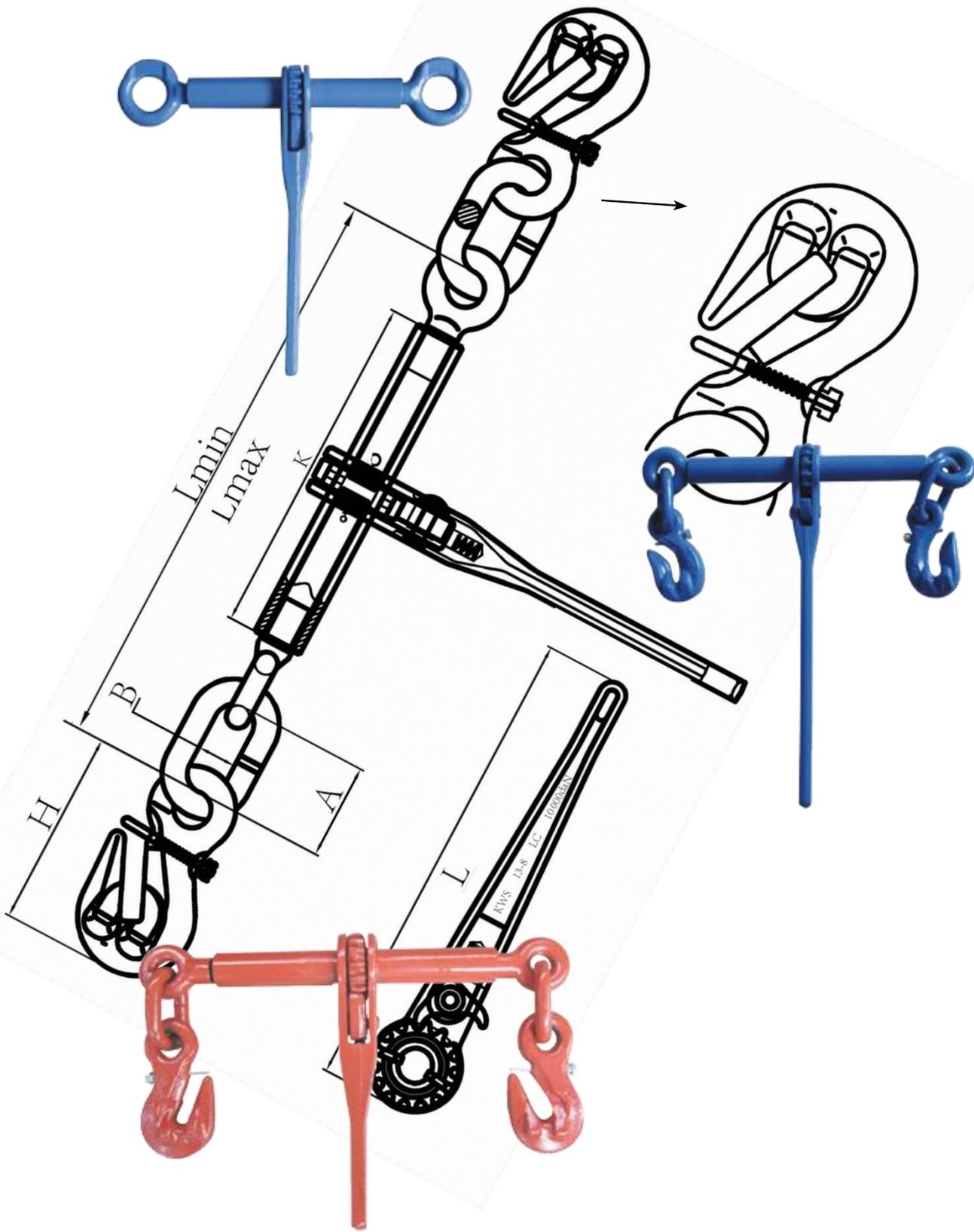
Marking	Weight (kg)	WLL $\Phi$		D	K	$\Phi$	L
		with working angle 45°	vertical				
Bull 054-M6	0.05	0.05	0.075	28	13	16	42
Bull 054-M8	0.06	0.095	0.14	36	15	20	51
Bull 054-M10	0.11	0.17	0.23	45	18	25	63
Bull 054-M12	0.18	0.24	0.34	54	22	30	75
Bull 054-M14	0.28	0.32	0.46	63	28	35	89.5
Bull 054-M16	0.285	0.5	0.7	63	28	35	90
Bull 054-M18	0.42	0.65	0.83	72	30	40	101
Bull 054-M20	0.45	0.83	1.2	72	30	40	101
Bull 054-M22	0.67	1.05	1.5	81	35	45	115.5
Bull 054-M24	0.87	1.27	1.8	90	38	50	128
Bull 054-M27	0.88	1.83	2.5	90	38	50	128
Bull 054-M30	1.66	2.6	3.6	108	45	60	154
Bull 054-M33	1.72	3.2	4.5	108	45	60	154
Bull 054-M36	2.65	3.7	5.1	126	55	70	183
Bull 054-M39	2.8	4.3	6.0	126	55	70	183
Bull 054-M42	4.03	5.0	7.0	144	65	80	212
Bull 054-M45	4.25	5.5	7.5	144	65	80	212
Bull 054-M48	6.38	6.1	8.6	166	70	90	238
Bull 054-M52	6.6	7.3	9.0	166	70	90	238
Bull 054-M56	8.8	8.3	11.8	184	80	100	267
Bull 054-M64	12.4	11.0	16.0	206	90	110	293

## RING NUT DIN 582, TYPE BULL 055

- Material: normal steel
- With lower WLL



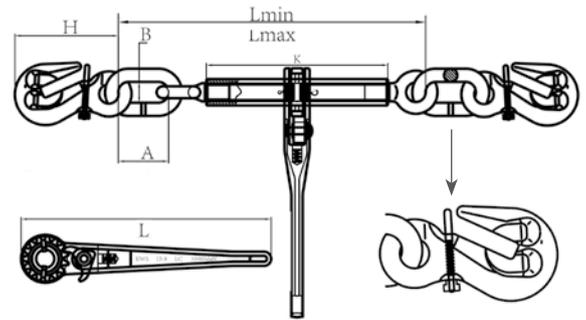
Marking	Weight (kg)	WLL $\Phi$		D	$\Phi$	L
		with working	vertical			
Bull 055-M6	0.049	0.05	0.075	36	20	36
Bull 055-M8	0.05	0.095	0.14	36	20	36
Bull 055-M10	0.09	0.17	0.23	45	25	45
Bull 055-M12	0.16	0.24	0.34	54	30	53
Bull 055-M14	0.2	0.32	0.46	63	35	62
Bull 055-M 16	0.24	0.5	0.7	63	35	62
Bull 055-M18	0.34	0.65	0.83	72	40	71
Bull 055-M20	0.36	0.83	1.2	72	40	71
Bull 055-M22	0.58	1.05	1.5	81	45	81
Bull 055-M24	0.72	1.27	1.8	90	50	90
Bull 055-M27	0.7	1.83	2.5	90	50	90
Bull 055-M30	1.32	2.6	3.6	108	60	109
Bull 055-M33	1.3	3.2	4.5	108	60	109
Bull 055-M36	2.08	3.7	5.1	126	70	128
Bull 055-M39	2.02	4.3	6.0	126	70	128
Bull 055-M42	3.11	5.0	7.0	144	80	147
Bull 055-M45	3.04	5.5	7.5	144	80	147
Bull 055-M48	5.02	6.1	8.6	166	90	168
Bull 055-M52	4.95	7.3	9.0	166	90	168
Bull 055-M56	6.69	8.3	11.8	184	100	187
Bull 055-M64	9.30	11.0	16.0	206	110	208



*Ratchet load binders*

## RATCHET LOAD BINDERS WITH HOOK WITH A SAFETY PIN, GRADE 80, TYPE BULL 670

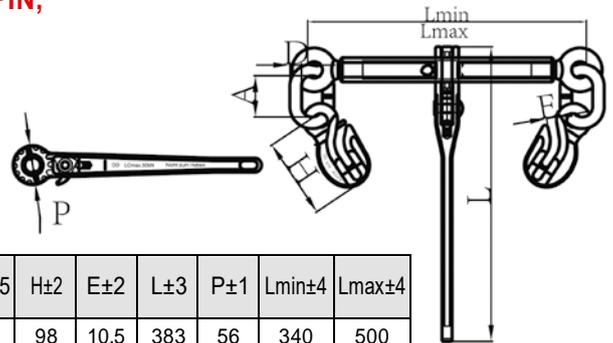
- Execution according EN 12195-3
- Forged, with a ratchet
- Suitable for work with chains grade 80
- With shortening grab hooks with a safety pin, grade 80
- Not to be used for load lifting, only for load securing!
- Color: orange RAL 2003 or red RAL 3020



	Marking	Weight (kg)	WLL (kN)	Breaking load (kN)	A	B	H	Lmin	Lmax	L
	8-8	3.18	40	80.4	52	25	92	340	500	210
	10-8	5.30	63	126	50	25	118	365	525	280
	13-8	8.40	100	212	72	30	146.5	365	525	355
	16-8	8.80	160	322	72	32	178	390	550	355
Mandatory marking: handle – size 8, grade 8, CE, load capacity 40 kN, not to lift with, BULL; hook – size 8, grade 8, CE, BULL										

## RATCHET LOAD BINDERS WITH HOOK WITH A SAFETY PIN, GRADE 100, TYPE BULL 1030

- Execution according EN 12195-3
- Forged, with a ratchet
- Suitable for work with chains grade 100
- With shortening grab hooks with a safety pin, grade 100
- Not to be used for load lifting, only for load securing!
- The surface of the item is treated with powdered plasticizer
- Color: blue RAL 5015



	Marking	Weight (kg)	WLL (kN)	BLL (kN)	A±4	D±1.5	H±2	E±2	L±3	P±1	Lmin±4	Lmax±4
	10-Bull 1030-8	3.71	50	100	50	12	98	10.5	383	56	340	500
	10-Bull 1030-10	5.85	80	160	50	14	121.5	13	390	65	365	525
	10-Bull 1030-13	9.34	134	268	72	20	159.5	15.5	392.5	69	365	525
*BI – Breaking load; Breaking load = WLL x 2												
Mandatory marking: handle – size 8, grade 10, CE, load capacity 50 kN, not to lift with, BULL; hook – size 8, grade 10, CE, BULL												

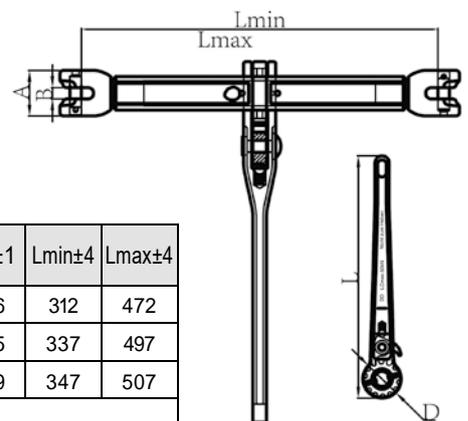
## EYE RATCHET LOAD BINDERS, GRADE 100, TYPE BULL 1031

	Marking	Weight (kg)	WLL (kN)	Breaking load (kN)
	10-Bull 1031-8	2.6	50	100
	10-Bull 1031-10	4.3	80	160
	10-Bull 1031-13	5.0	134	268
Breaking load = WLL x 2				
Mandatory marking: handle – size 8, grade 10, CE, load capacity 50 kN, not to lift with, BULL; eye – size 8, grade 10, CE, BULL				

## CLEVIS LOAD BINDERS, GRADE 100, TYPE BULL 1032

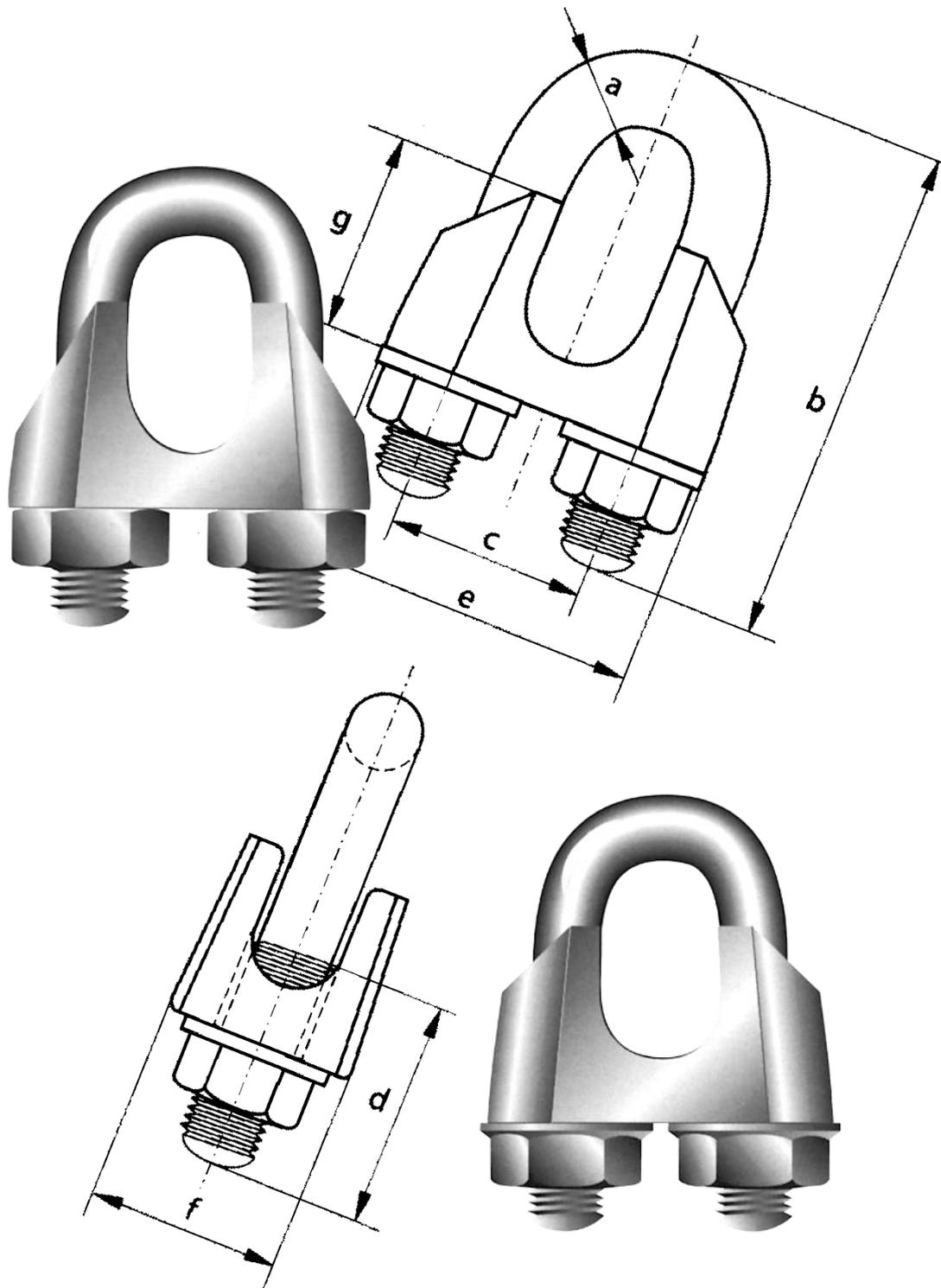
- Execution according EN 12195-3
- Forged, with a ratchet
- Suitable for work with chains grade 100
- Not to be used for load lifting, only for load securing!
- The surface of the item is treated with powdered plasticizer
- Color: blue RAL 5015

**NEW!**



	Marking	Weight (kg)	WLL (kN)	BLL (kN)	A±1	B±1.5	L±3	D±1	Lmin±4	Lmax±4
	10-Bull 1032-8	3.5	50	100	40	10	383	56	312	472
	10-Bull 1032-10	5.5	80	160	49	13	390	65	337	497
	10-Bull 1032-13	7.1	134	268	64	16	392.5	69	347	507
*BI – Breaking load; Breaking load = WLL x 2										
Mandatory marking: handle – size 8, grade 10, CE, load capacity 50 kN, not to lift with, BULL; fork – size 8, grade 10, CE, BULL										

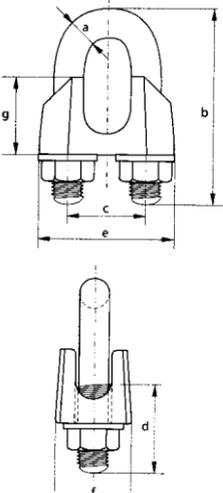
**Caution! Never exceed the shown WLL!**



*Wire rope clips*

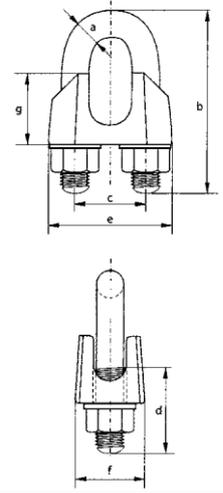
## WIRE ROPE CLIPS, SIMILAR TO DIN 741, FOR COMMERCIAL USE /NON LOAD CARRYING OPERATIONS/

- Material: cast body  
the U clips – carbon steel
- Standard: as DIN741
- Surface: galvanized

 E - 6220 	Wire rope diameter	Clips diameters	Clips length	Width	Thread length	Body length	Body width	Body height	Weight /100 pcs
	mm	a mm	b mm	c mm	d mm	e mm	f mm	g mm	kg
3	4	20	9	12	21	10	10	1.4	
5	5	24	11	13	23	11	10	1.5	
6	5	28	13	15	26	12	11	2.1	
8	6	34	16	19	30	14	15	4.1	
10	8	42	19	22	34	18	17	6.8	
11	8	44	20	22	36	19	18	7.2	
13	10	55	24	30	42	23	21	13	
14	10	57	25	30	44	23	22	13.5	
16	12	63	29	33	50	26	26	21	
19	12	75	32	38	54	29	30	28	
22	14	85	37	44	61	33	34	40	
26	14	95	41	45	65	35	37	44	
30	16	110	48	50	74	37	43	66	
34	16	120	52	55	80	42	50	85	
40	16	140	58	60	88	45	55	104	

## WIRE ROPE CLIPS, LIKE EN 13411-5, TYPE A

- Material: cast steel body  
the U clips – carbon steel
- Standard: as EN 13411-5, type A, previously DIN 1142
- Surface: galvanized

 E - 6260 	Wire rope diameter	Clips diameter	Clips length	Width	Thread length	Body length	Body width	Body height	Weight /100 pcs
	mm	a mm	b mm	c mm	d mm	e mm	f mm	g mm	kg
5	4	25	12	14	25	13	13	2	
6.5	5	32	14	17	30	16	14	4	
8	7	41	18	20	39	20	18	8.2	
10	7	46	20	24	40	20	21	9.2	
12	10	56	24	28	50	25	24	21.5	
13	11	64	29	29	55	28	29	27.5	
14	12	66	28	31	59	30	28	39.5	
16	12	76	34	35	64	32	35	43	
19	12	83	37	36	68	33	40	49	
22	14	96	41	40	74	34	44	68	
26	18	111	46	50	84	38	51	117	
30	18	127	54	55	95	41	59	140	
34	22	141	60	60	105	45	67	213	
40	24	159	68	65	117	49	77	268	

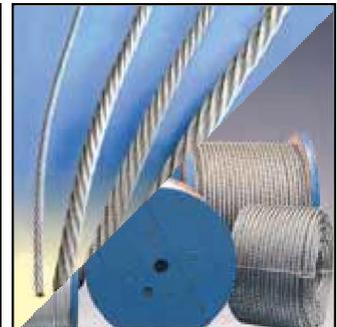
## GENERAL RANGE OF PRODUCTS

### I. CHAINS

1. Roller chains
2. Conveyor chains
3. Special chains –P.I.V chains, silent chains, conveyor chains, rotary chains, etc.
4. Round-link chains
5. Agricultural chains
6. Connecting links
7. Sprockets

### II. RIGGING EQUIPMENTS

1. Chain slings and load chains
2. Webbing
3. Wire rope slings and ropes
4. Lifting clamps – horizontal and vertical
5. Lifting magnets
6. Lever and chain hoists
7. Rigging elements – hooks, master links, shackles, links, lifting points, ring-bolts, wire clips, etc.
8. Cargo anchoring webbings and chains



### III. WOVEN CLOTH AND WELDED MESH

1. Stainless woven clothes
2. Welded mesh
3. Crimped mesh
4. Perforated mesh
5. Filters

### IV. ROPES

1. Standard steel wire ropes
2. Special steel wire ropes
3. Synthetic ropes
4. Elements – ferrules, clips, turnbuckles, thimbles, quick connecting links, etc.



Webbing slings



Chain slings



Wire rope slings



Clamps



Chain and lever hoists



Magnets



Hooks



Master links and shackles



Lifting points and wire rope clips

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