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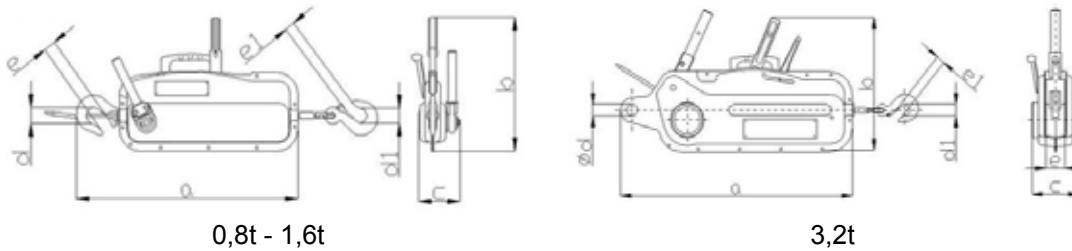
ROPE HOIST

Use:

- wide range of use particularly in construction, agriculture, forestry, transport, etc.
- for lifting and towing loads in all directions
- for extricating items, demolishing buildings
- for putting up posts, installing electrical wiring, tensioning in cable car stations
- in logging
- for installation and manipulation works of all types
- also in variant for use in explosive environment ("NEXP")

Characteristics:

- simple construction, portable
- the option of manipulating loads at various distances

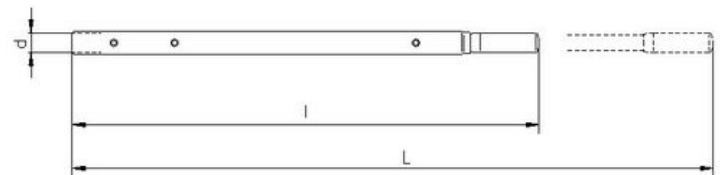


Type	Lifting capacity (t)	Lifting 1) speed (m/min)	Operating force on lever (N)	Main dimensions (mm)						Weight (kg)	
				a	b max	c	d	d1	e		e1
30-10	0,8	2	250	535	300	125	36	32	23,5	23,5	11,1
30-00	1,6	2	450	630	360	155	43	46	32,5	32,5	19,2
30-11	3,2	0,45 0,84	380 (B) 750 (A)	680	410	140	28	64	47	45,5	33,5

1) Calculated on presumption 35 swings by lever per minute
 2) A – higher lifting speed B – lower lifting speed
 Hoist of lifting capacity 3,2t has hinge pin instead of hook

HAND LEVER

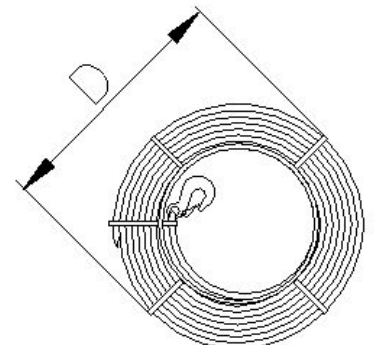
Lifting capacity (t)	Main dimensions (mm)			Weight (kg)
	d	l in inserted position	L	
0,8	22	650	1100	2
1,6	29	730	1220	2,8
3,2				



ROPE WITH CARTRIDGE

Lifting capacity (t)	Ø of rope (mm)	Rope length (mm)	D (mm)	Weight* (kg)
	Specification of rope according to EN 12385-4			
0,8	Ø 8 6×19 SFC 1770 BsZ	10, 20, 30, 40	345	5,9
1,6	Ø 11 6×19 SFC 1770 BsZ	10, 20, 30, 40	420	12
3,2	Ø 16 6×27 WSC 1770 BsZ	10, 20, 30, 40	520	25

* Weight applies to rope of length 20m



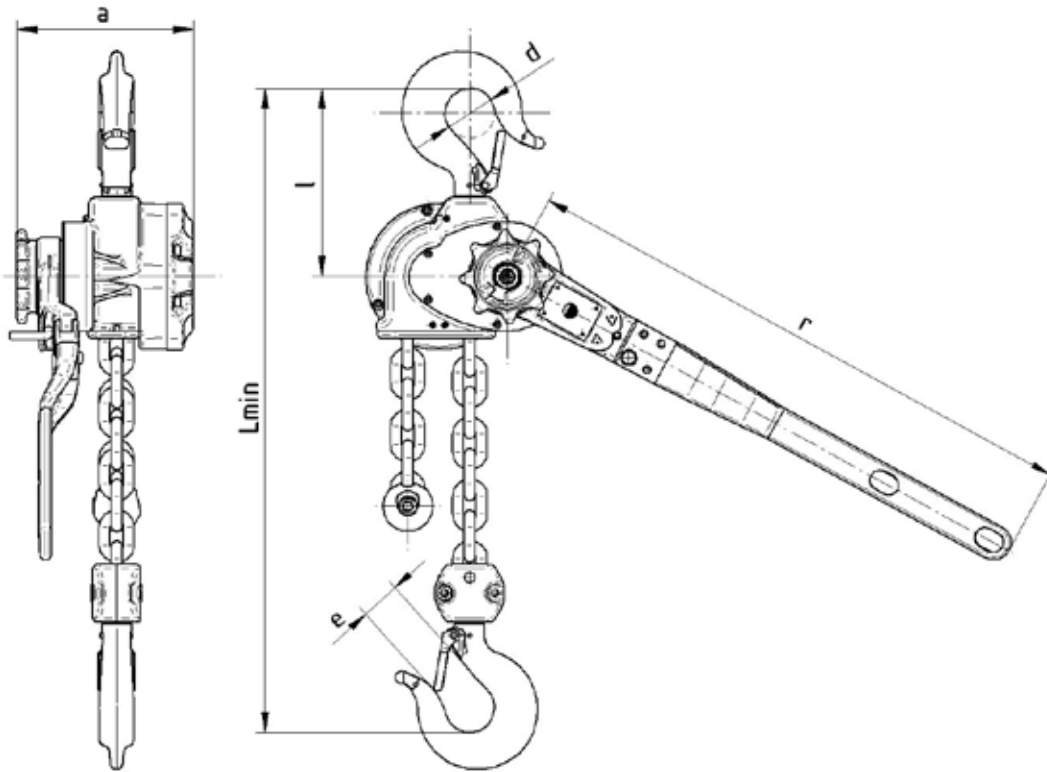
RZC RATCHET HOIST

Use:

- wide range of use particularly in construction and in mining and anywhere where loads must be manipulated
- for lifting and towing loads
- for tensioning fences, extricating work, pulling out posts
- as a lifting device for suspended mine railway
- for installation and manipulation work of various types
- suitable for heavy duty use – in mines, smelting works, etc.
- can also be used in environments with a risk of explosion (“NEXP”)

Characteristics:

- simple, robust construction, portable
- withstands rough use
- equipped with a safety device against overloading
- simple operation
- minimum maintenance requirements



Type	Lifting capacity (t)	Number of load chain falls	Loading chain	Operating force (N)	Lifting * speed (m/min)	Main dimensions (mm)						Weight (kg)	Weight increase per 1m of lift (kg)
						a	d	e min	l	L min	r		
RZC	0,8	1	Ø 5 x 15	400	1,27	145	36	23,5	145	327	560	8,4	0,55
	1,6	1	Ø 9 x 27	370	0,52	165	43	29,5	160	380	560	16	1,84
	3,2	1	Ø 11 x 31	400	0,37	173	50	35,5	223	417	560	21	2,73
	5	2	Ø 11 x 31	300	0,18	173	56	42	242	630	560	34	5,46
	6,3	2	Ø 11 x 31	400	0,18	173	63	48	265	650	560	40	5,46
	7,5	2	Ø 11 x 31	480	0,18	173	56	43	386	880	560	53	5,46

* Calculated on presumption of 48 swings by hand lever per minute.
(1 swing = movement by hand lever from one extreme position to another and back)

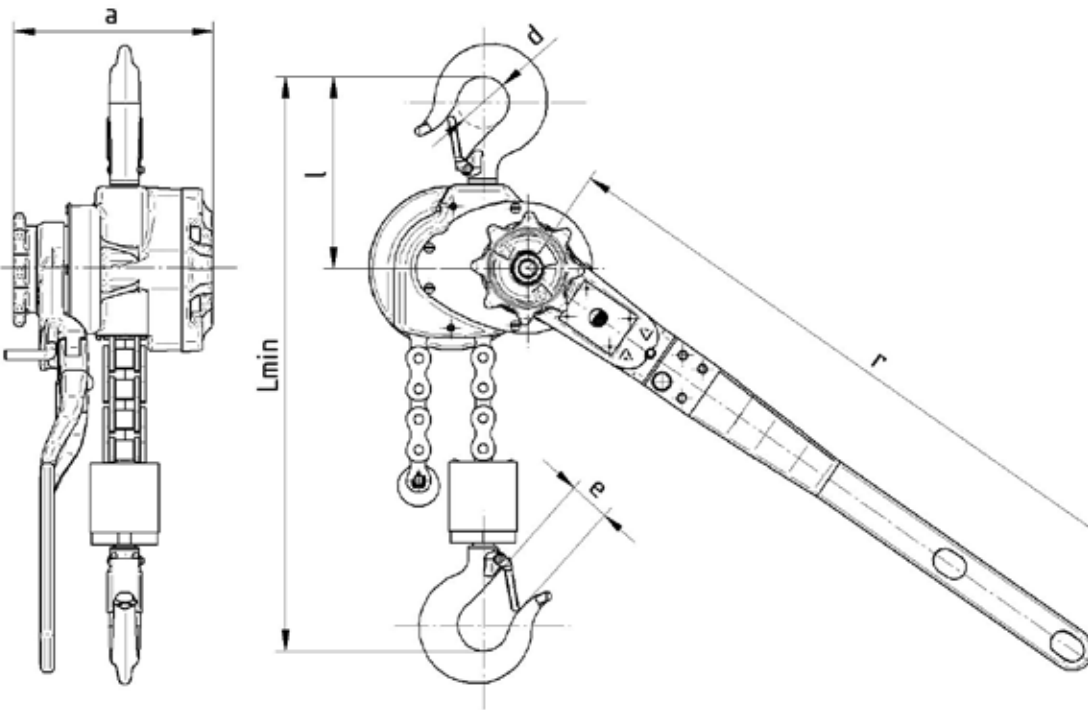
RZV RATCHET HOIST

Use:

- wide range of use particularly in construction and mining and anywhere where loads must be manipulated
- for lifting and towing loads
- for tensioning fences, extricating work, pulling out posts in mines
- as a lifting device for suspended mine tracks
- for installation and manipulation work of various types
- suitable for heavy duty use – in mines, smelting works etc.
- can also be used in environments with a risk of explosion ("NEXP")

Characteristics:

- simple, robust construction, portable
- withstanding rough use
- equipped with a safety device against overloading
- simple operation



Type	Lifting capacity (t)	Number of load chain falls	Operating force (N)	Lifting * speed (m/min)	Main dimensions (mm)						Weight (kg)	Weight increase per 1m of lift (kg)
					a	d	e min	l	L min	r		
RZV	0,8	1	400	1,27	145	36	23,5	145	327	560	9,5	1,5
	1,6	1	370	0,52	165	43	29,5	160	395	560	17	2,7
	3,2	2	370	0,26	165	50	35,5	223	500	560	24,5	5,4
	5	3	440	0,22	160	56	39,5	213	555	560	41	8,1
	6,3	4	430	0,17	160	63	48	260	640	560	46	10,8

* Calculated on presumption of 48 swings by hand lever per minute.
(1 swing = movement by hand lever from one extreme position to another and back)

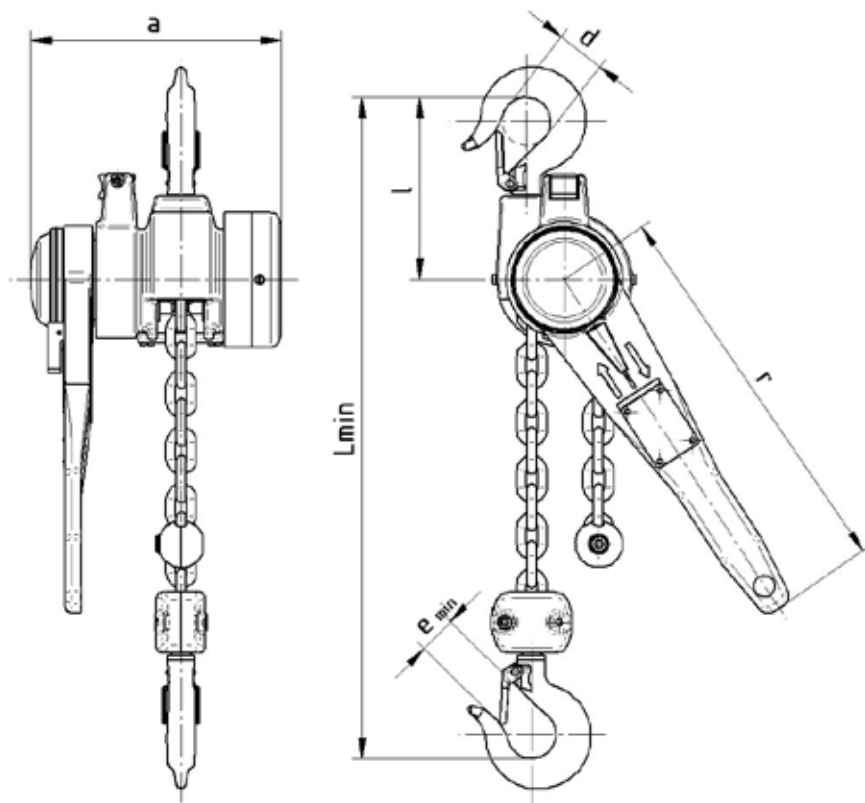
Z310 RATCHET HOIST

Use:

- wide range of use when lifting and manipulating loads
- for lifting and towing loads
- for tensioning work
- for installation and manipulation work of various types
- especially suitable for 'lighter' workshop jobs
- can also be used in environments with a risk of explosion ("NEXP")

Characteristics:

- simple, light construction, portable
- minimum actuating force
- simple operation
- low maintenance requirements



Type	Lifting capacity (t)	Number of load chain falls	Loading chain	Operating force (N)	Lifting* speed (m/min)	Main dimensions (mm)						Weight (kg)
						a	d	e (min)	l	L (min)	r	
Z310	0,5	1	Ø 5 x 15	120	0,3	166	30	18,5	120	235	290	7,6
Z310-1	1	1	Ø 7 x 21	180	0,33	190	36	23,5	135	300	380	10,5
Z310	1,6	1	Ø 9 x 27	300	0,4	187	43	29,5	175	420	380	14,4
	3,2	2	Ø 9 x 27	350	0,2	187	50	35,5	220	500	380	22,5
	5	3	Ø 9 x 27	400	0,13	187	56	39,5	230	700	380	33

* calculated on presumption of 48 swings by hand lever per minute.
(1 swing = movement by hand lever from one extreme position to another and back)

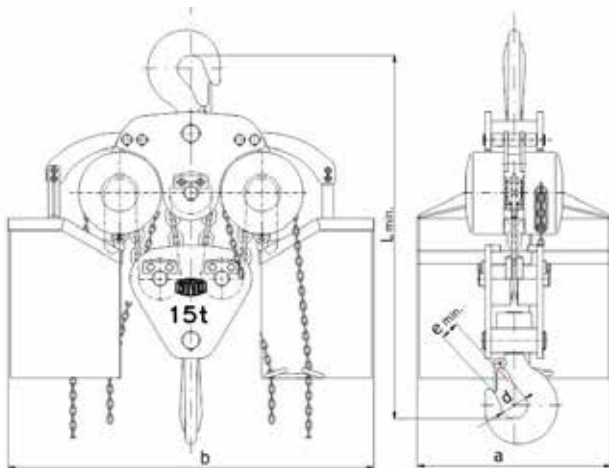
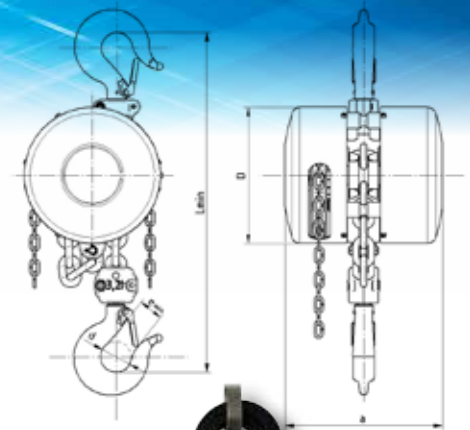
CHAIN BLOCK

Use:

- as any other fixed hoists for lifting and lowering of loads
- especially suitable where the lifting device is not used frequently
- for occasional use
- in places without the power source
- as service hoist for assembly and maintenance work in technological equipment of all kinds
- also in variant for explosion hazard environment (" NEXP")

Characteristics:

- robust, heavy-duty and purposeful construction
- simple operation
- low maintenance requirements



Type	Lifting capacity (t)	Number of load chain falls	Loading chain	Hand chain	Operating force (N)	Lifting* speed (m/min)	Main dimensions (mm)					Weight (kg)
							a	d	D	e (min)	L (min)	
Z100	0,25	1	Ø 3,1 x 9,3	Ø 3 x 14,3	270	2	120	30	80	18,5	255	4,4
	0,5		Ø 5 x 15		300	1,1	165	30	115	18,5	250	8,5
	1		Ø 7 x 21		350	0,7	180	36	136	23,5	330	14,1
	1,6		Ø 9 x 27		320	0,36	220	43	198	29,5	410	24
	3,2	2	Ø 11 x 31	Ø 4 x 20	400	0,29	254	220	50	35,5	510	37,4
	5				400	0,145			56	39,5	655	52,3
	7,5				480	0,15			56	43	875	70
	10				400	0,1			63	47	1000	85

* calculated on presumption of winding off 30m of the hand chain per minute

Type	Lifting capacity (t)	Number of load chain falls	Loading chain	Hand chain	Lifting force on one of the chain blocks (N)	Lifting* speed (m/min)	Main dimensions (mm)					Weight without the chain (kg)	Weight increase per 1m of lift (kg)
							a	d	d	e (min)	L (min)		
Z100	15	4	Ø11x31	Ø4x20	480	0,3	510	1000	71	50	980	220	13
	20	6			400	0,2	510	1150	80	62	1100	250	19,2

* Calculated on presumption of winding off 30m of the hand chain per minute

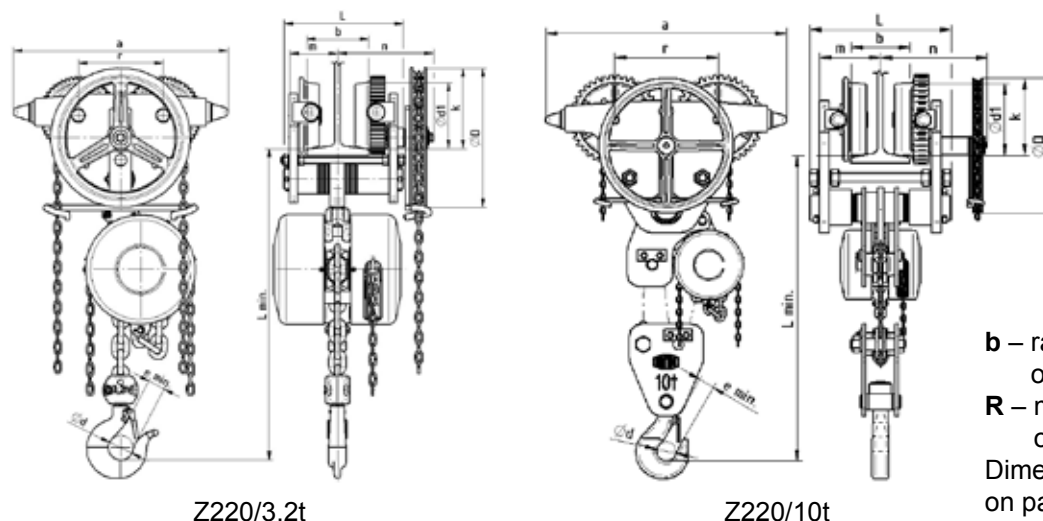
TRAVELLING CHAIN BLOCK

Use:

- as a standard manually controlled crane for lifting and moving loads in the area of the crane track
- particularly useful for use wherever the lifting device is not used intensively
- for occasional use
- as service hoist for assembly and maintenance work in technological equipment of all kinds
- in places without a power source
- can also be used in environments with a risk of explosion ("NEXP")

Characteristics:

- simple construction, the trolley easily adapts to the width of the crane track
- simple operation
- low maintenance requirements



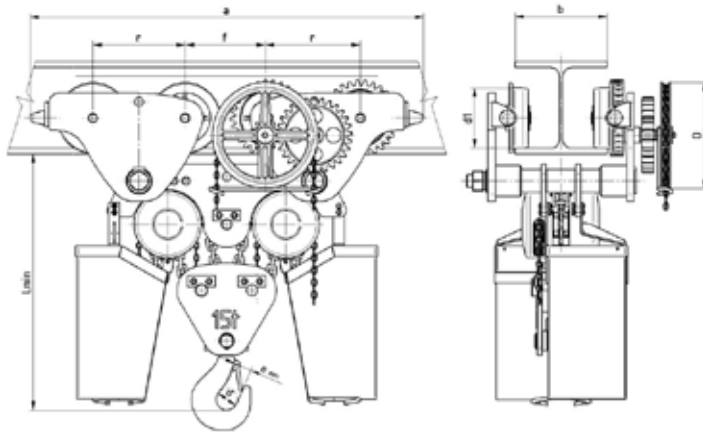
b – range of flange width of a girder
R – minimal curvature radius of trolley track
 Dimension of **L**, **m**, **n** are available on page 12

Type	Lifting capacity (t)	Main dimensions (mm)								I – beam	
		a	d	d1	D	emin	Lmin	r	k	b	R
Z220-A	0,5 t	245	30	55	109	18,5	290	87	95	58-113	1000
Z220-B	not suitable for profile HEM									58-226	
Z220-C										125-300	
Z220-A	1 t	245	36	55	109	23,5	340	87	95	58-113	1000
Z220-B	not suitable for profile HEM									58-226	
Z220-C										125-300	
Z220-A	1,6 t	350	43	100	230	29,5	457	140	136	58-113	1700
Z220-B										58-226	
Z220-C										137-300	
Z220-A	3,2 t	435	50	133	280	35,5	575	170	162	82-125	2500
Z220-B										82-226	
Z220-C										160-300	
Z220-A	5 t	505	56	148	345	39,5	660	218	227	90-137	2800
Z220-B										90-226	
Z220C										170-300	
Z220	7,5 t	685	56	196	345	43	875	300	222	125-185 (I)	5000
Z220-C										146-300	
Z220	10 t	765	63	228	428	47	920	328	256	125-185 (I)	9000
Z220-C										180-300	

Type	Lifting capacity (t)	Number of load chain falls	Load chain	Operating force for travel ** (N)	Operating force for lift (N)	Lifting speed * (m/min)	Travel speed * (m/min)	Weight (kg)
Z220-A	0,5	1	Ø5×15	250	300	1,1	4,8	16,9
Z220-B								18,6
Z220-C								19,6
Z220-A	1	1	Ø7×21	250	350	0,7	4,8	22,4
Z220-B								24,1
Z220-C								25,1
Z220-A	1,6	1	Ø9×27	150	320	0,36	2,25	44,4
Z220-B								46,2
Z220-C								47,4
Z220-A	3,2	1	Ø11×31	280	400	0,29	2,3	73,1
Z220-B								74,9
Z220-C								76,6
Z220-A	5	2	Ø11×31	350	400	0,15	1,8	105,5
Z220-B								107,5
Z220-C								110,8
Z220	7,5	2	Ø11×31	500	480	0,15	5,97	207,2
Z220-C								211,2
Z220	10	3	Ø11×31	500	390	0,1	7,3	264,5
Z220-C								272

* Calculated on presumption of unwinding 30 m of hand chain per minute.

** At trolleys with lifting capacities 3,2 – 10t it is necessary when loading with loads approaching nominal lifting capacity to ensure the operation by two persons



b – width of beam's flange sets the customer, when placing the order for travelling chain block

Type	Lifting capacity (t)	Main dimensions (mm)							
		a	d	d1	D	r	f	emin	Lmin
Z220	15	1290	71	196	345	300	270	50	780
	20	1500	80	237	428	328	380	62	720

Type	Lifting capacity (t)	Number of load chain falls	Load chain	Operating force for travel (N)	Operating force for lift (N)	Lifting speed * (m/min)	Lift max. ** (m)	Weight without chain (kg)	Weight increase per 1m of lift (kg)
Z220	15	4	Ø11×31	500	480	0,15	12	285	13
	20	6			400	0,1	8	345	19,2

* calculated on presumption of unwinding 30 m of hand chain per minute on each chain block.

** Lift according to order. Lifts longer then stated in the table must be consulted with the producer.

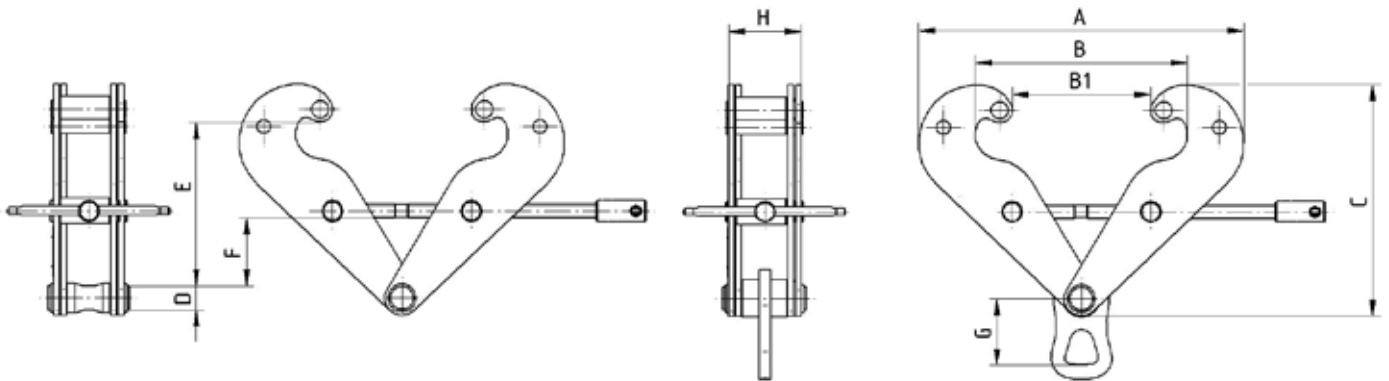
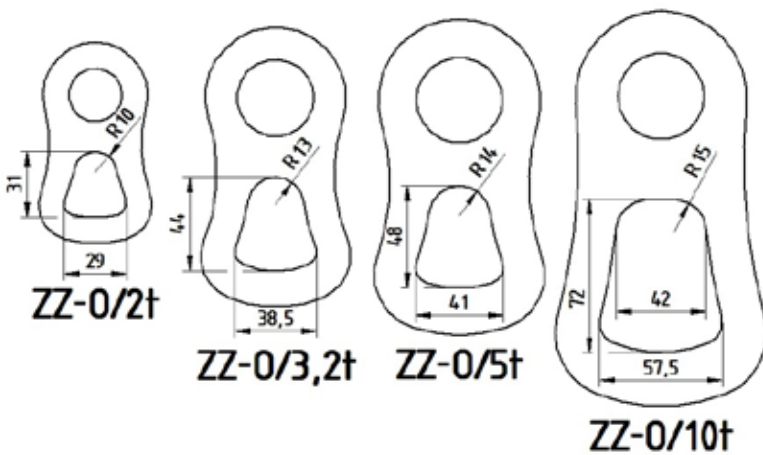
GIRDER CLAMPS

Use:

- as an accessory tool for manual hoists made by the BRANO company, possibly also for hoists of other brands
- serving as simple and rapid suspension of manual hoists on beams or posts of the "I" profile
- suitable as portable tool during installation, repair or other types of work

Characteristics:

- simple and rapid installation to a structure
- low maintenance requirements



Type	Lifting capacity (t)	Main dimensions (mm)									Weight (kg)	
		A max.	B max.	B1 max.	C max.	D	E min. max.	F min.	G	H max.	with cross beam (ZZ)	with eye (ZZ-o)
ZZ	2	360	270	220	220	20	108155	35	57,5	61	2,9	3,1
	3,2	415	300	235	285	34	145190	55	81	85	6,5	7
	5	415	300	235	285	38	142187	52	88	93	8,4	9
	10	415	300	235	285	-	-	-	120	109	-	15,5

B – width of I girder flange