

Branecké železárny was founded by Carl Vaclav Dorasil and his partners. He was a man of many interests. He was an imperial counsel, a businessman and an industrial entrepreneur, a member of Silesian Landtag, the associate of the Silesian Regional Committee and the President of the Chamber of Commerce while pushing for the construction of water supply.

In 1895 he obtained honorary citizenship of the town of Opava. In 1867, his small hardware factory had 150 employees and changed its status to a public company owned by C.R.O. Schüller et al. from Opava.

After the sale of municipal land, the factory was expanded. Its enlargement resulted in increasing the number of jobs. At the end of 1869, it was transformed to a joint stock company Branecká továrna na drát, plechové zboží a hřebíky based in Opava, substantially widening its range of products.

In 1910 Branecké železárny had four hundred employees, and four years later they already employed seven hundred workers and five hundred eighty farm workers.

In 1927 it was taken over by the American company YALE and Town Manufacturing Co., Stampford and started mass production of various types of locks, hydraulic door closers, rack jacks and other technologically advanced products. Between 1939 and 1945, the production program has to be tailored to the needs of the German army.

In 1951, the production of manual hoists was started, which still stays unchanged as one of the main export products with its quality known worldwide.

The new company Branecké železárny, n. p., Branka u Opavy was established by nationalization in 1946.

In 1988, BRANO - Branecké železárny a strojírny, a state-owned enterprise based in Hradec nad Moravicí, was founded. In 1992 the company was incorporated in the Commercial Register as BRANO, a.s., with its headquarters in Hradec nad Moravicí.

BRANO has created the immortal Czech slogan "Brano zavírá samo" (literally "Brano closes automatically") which has become embedded in the subconscious of the society and is itself an unquestionable catchphrase of the company.

Zdroj: Opavský deník





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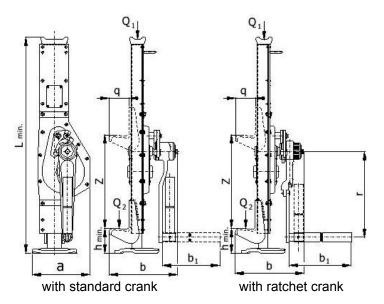


RACK JACK – STANDARD

Use:

- for lifting and manipulation with all kinds of load
- for assembly work of all kind especially in construction works
- also in variant for use in explosive environment ("NEXP")

- robust, simple and 'indestructible' construction
- lifting using the head or side brace
- reliably holding the load in any position using the lock in the crank
- acceptable actuating force in the crank
- increased operating comfort in the version with the ratchet handle ("RK") and ratchet-crank lever ("RKP")
- low maintenance requirements
- meets requireme
- 1) Handle in position "crank" 2) Handle in position "lever"





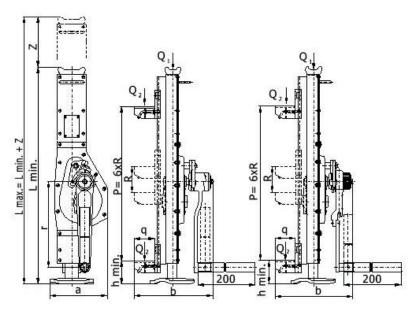
Туре		capaci- (t)	Operating force on crank	Main dimensions diffin		Weight (kg)						
	Q1	Q2	(N)	а	b	b1	q	h min.	L min.	r	Z	
15-00			380		210							14,7
15-00-RK	2,5	1,75	300	175	210	200	60	75	735	250	345	15,5
15-00-RKP			380 1) 230 2)		230							16,3
15-00			550		240							22,3
15-00-RK	5	3,5	550	200	240	200	70	85	765	300	360	22,8
15-00-RKP			550 1) 330 2)		250							23,4
15-01			540		295							38,6
15-01-RK	10	7	540	245	295	200	80	90	795	300	345	39,1
15-01-RKP			540 1) 320 2)		305							39,7
15-01			730		215					400		65
15-01-RK	16	11	/ 30	280	315	280	77	160	900	400	320	65
15-01-RKP			970 1) 490 2)		370					300		65
Z23	20	14	800	325	330	280	77	150	960	400	300	90

RACK JACK WITH ADJUSTABLE SUPPORT

Use:

- for lifting and manipulation with all kinds of load
- for assembly work of all kind especially in construction works
- also in variant for use in explosive environment ("NEXP")

- robust, simple and 'indestructible' construction
- lifting by head or adjustable side support
- the adjustable support allows optimal use of rack bar lift
- the option of setting 7 positions of the side support
- reliably holds the load in any position using the lock in the crank
- acceptable actuating force in the crank
- increased operating comfort in the version with the ratchet handle ("RK") and ratchet-crank lever ("RKP")
- low maintenance requirements
- meets requirements of CSN EN 1494
- 1) Handle in position "crank"
- 2) Handle in position "lever"





Туре		capa- ′ (t)	Operating force on crank		Main dimensions (mm)								Weight (kg)	
	Q1	Q2	(N)	а	b	q	h min.	L min.	r	Р	R	Z		
15-00-VK			380		250								16,4	
15-00-VK-RK	2,5	1,75	360	175	250	60	75	735	250	540	90	345	17,2	
15-00-VK-RKP	2,0	1,70	380 1) 230 2)	170	265		70	700	200	0.10		0.10	18	
15-00-VK			550		275								24,4	
15-00-VK-RK	5	3,5	550	200	250	70	80	765	300	540	90	360	24,9	
15-00-VK-RKP		0,0	550 1) 330 2)	200	285	70		700	000	0.10		000	25,5	
15-01-VK			E40		325								41,1	
15-01-VK-RK	10	7	540	245	315	-	140	795	300	600	100	345	41,7	
15-01-VK-RKP	10	,	540 1) 320 2)	245 335		80 140		730	550	550	100	0-10	42,3	

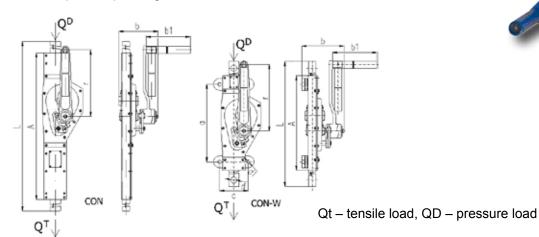


CONTAINER RACK JACK

Use:

- for installation into machine systems for the purpose of lifting mobile structure components
- examples of use for lifting container lids and roofs, manipulating water gates of reservoirs,
 lifting screens or stop-logs in waste water treatment plants, cable car tension stations
- many other applications for manual lifting and lowering of load
- also in variant for use in explosive environment ("NEXP")
- lifting up to 3 meter

- robust, simple and 'indestructible' construction
- the basic version ("CON") enables flexible adaptation of the jack for installation into a structure
- the "wall' version ("CON-W") is prepared for installation using built-in brackets and apertures at the ends of the rack
- will reliably hold the load in any position using the lock in the crank
- acceptable operating force in the crank



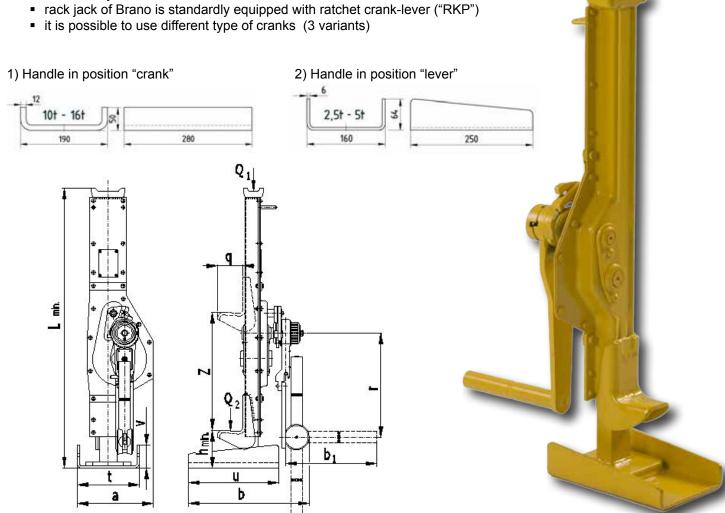
Typo	Lifting ca-	Operating force			Mai	n dim	ensior	ns (mr	n)			Lift	Maight (kg)
Туре	pacity (t)	on crank (N)	L	Α	а	b	b1	С	d	d1	r	LIIL	Weight (kg)
			660									345	12,8
15-00-CON-W	2,5	380	970	360	320	180	200	80	25	13	250	580	15,2
			1200									850	17
			690									360	22,1
15-00-CON-W	5	550	970	427	350	190	200	80	30	13	300	605	25,6
			1200									850	28,5
			690									345	35
15-01-CON-W	10	540	970	580	490	225	200	80	30	13	300	615	40
			1200									825	45
			660									345	11,4
15-00-CON	2,5	380	970	655	-	_	200	_	_	_	250	680	13,8
			1200									850	15,6
			690									360	19
15-00-CON	5	550	970	662	_	_	200	_	_	_	300	680	22,5
			1200									850	25,4
			690									345	33
15-01-CON	10		970	670	_	_	200	200 –	_	_	300	615	38
			1200									825	43

RAIL RACK JACK

Use:

- specifically shaped foot allows use of the rack jack for minor repairs of railway tracks
- for heavy lifting and manipulation of various loads

- robust, simple and 'indestructible' construction
- specifically shaped foot allows to fix the jack between tracks and sleepers safely and easily
- size and the U shape of foot ensure the stability of jack on rough surface
- thanks to stability the rails are lifter simply and safely
- foot of the jack can be customized to the customer's needs
 rack jack of Brano is standardly equipped with ratchet crank-lever ("RI



Tuno		capaci- (t)	Operating for-				M	ain din	nensic	ns (m	nm)				Weight
Туре	Q1	Q2	ce on crank (N)	а	t	u	٧	b max	b1	q	h min	L min	r	Z	(kg)
15-00-GHW	2,5	1,75	380 1) 230 2)	215	160	250	64	315	200	55	75	735	275	345	21
15-00-GHW	5	3,5	550 1) 330 2)	240	160	250	64	335	200	70	85	765	275	360	24
15-01-GHW	10	7	540 1) 320 2)	255	190	280	50	365	200	80	90	795	300	345	40
15-01-GHW	16	11,2	730 1) 440 2)	291	190	280	50	420	280	90	160	900	300	320	68
			Work	ing te	mpera	ture r	ange ·	-20° →	+50°						

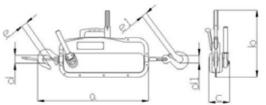
ROPE HOIST

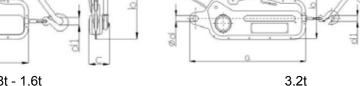
Use:

- 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









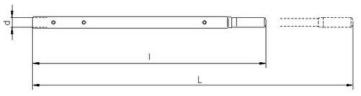
0,8t - 1,6t	3 (
0,01 - 1,01	3,4

	Lifting	Lifting 1)	Operating								
Туре	capacity (t)	speed (m/min)	force on lever (N)	а	b max	С	d	d1	е	e1	Weight (kg)
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

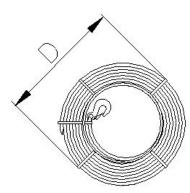
HAND LEVER

Lifting		Main dimensions (mm))	Moiabt
capacity (t)	d	I in inserted position	L	Weight (kg)
0,8	22	650	1100	2
1,6	29	730	1220	2.0
3,2	29	730	1220	2,8



ROPE WITH CARTRIDGE

Lifting capacity (t)	Ø of rope (mm) Specification of rope according to EN 12385-4	Rope length (mm)	D (mm)	Weight* (kg)
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 ro	pe of length 20r	n	



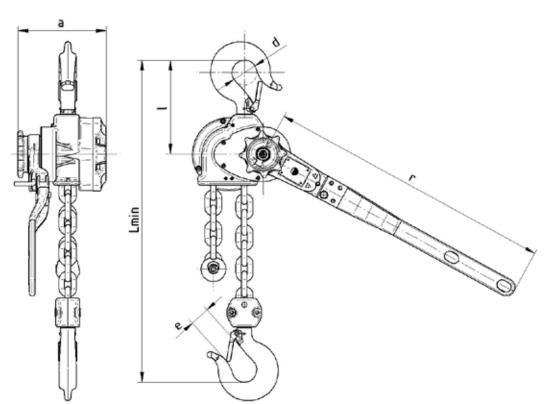
RZC RATCHET HOIST

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





	Lifting Number			Opera-	Lifting *		Main	dimen	sions	(mm)			Weight
Туре	capacity (t)	of load chain falls	Loading chain	ting force (N)	speed (m/min)	а	d	e min	I	L min	r	Weight (kg)	increase per 1m of lift (kg)
	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
RZC	3,2	1	Ø 11 x 31	400	0,37	173	50	35,5	223	417	560	21	2,73
RZC	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)



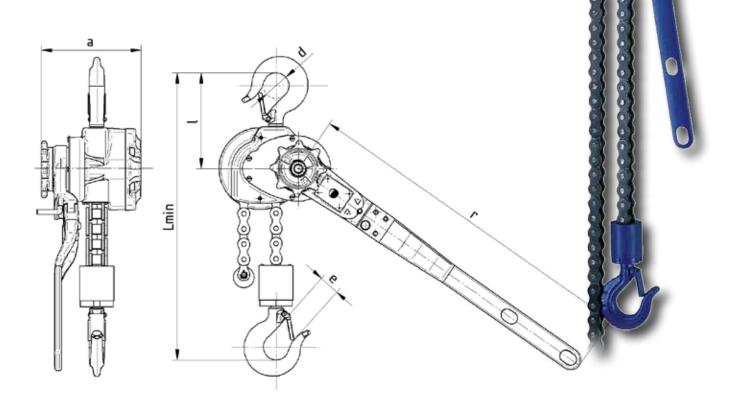
RZV RATCHET HOIST

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



	Lifting	Number	Opera-	Lifting *		Main	dimen	sions	(mm)			Weight
Туре	capacity (t)	of load chain falls	ting force (N)	speed (m/min)	а	d	e min	I	L min	r	Weight (kg)	increase per 1m of lift (kg)
	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
RZV	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)



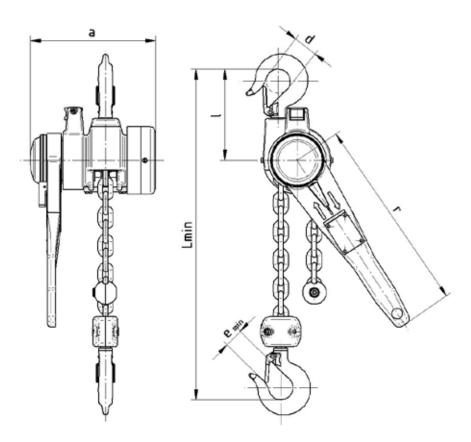
Z310 RATCHET HOIST

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





	Lifting	Number		Opera-	Lifting*		M	ain dimer	sions	(mm)		
Туре	capacity (t)	of load chain falls	Loading chain	ting force (N)	speed (m/min)	а	d	e (min)	I	L (min)	r	Weight (kg)
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
	1,6	1	Ø 9 x 27	300	0,4	187	43	29,5	175	420	380	14,4
Z310	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)

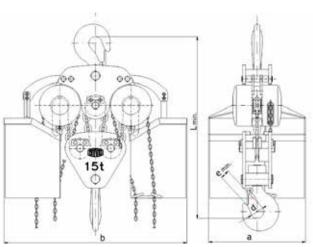
CHAIN BLOCK

Use:

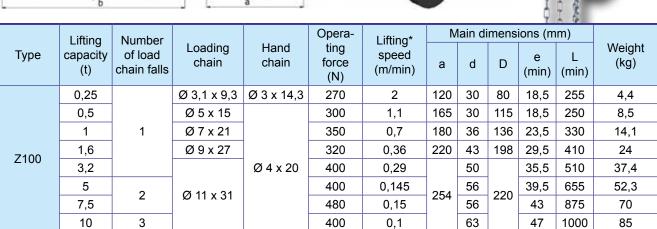
- as any other fixed hoists for lifting and lowering of loads
- especially suitable where the lifting devise is not used frequently
- for occasional use
- in places without the power source
- as service hoist for assembly and maintenance work in technological equipment of all kinds
- also in variant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

Characteristics:

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







Ī						Lifting force		Ma	in dim	ensi	ons (n	nm)	Weight	Weight
	Туре	Lifting capacity (t)	Number of load chain falls	oad Loading		on one of the chain blocks (N)	Lifting* speed (m/min)	а	d	` '		L (min)	without	increase per 1m of lift (kg)
ı	Z100	15	4	Ø11×31	Ø4×20	480	0,3	510	1000	71	50	980	220	13
ı	2100	20	6	ונייווש	Ø4×20	400	0,2	510	1150	80	62	1100	250	19,2
П			<u> </u>											

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

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

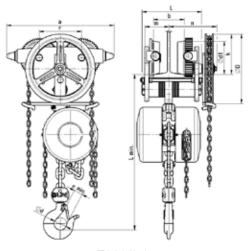
TRAVELLING CHAIN BLOCK

Use:

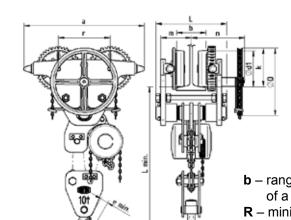
- as a standard manually controlled crane for lifting and moving loads in the area of the crane track
- particularly useful for use wherever the lifting device is not used intensively
- for occasional use
- as service hoist for assembly and maintenance work in technological equipment of all kinds
- in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

Characteristics:

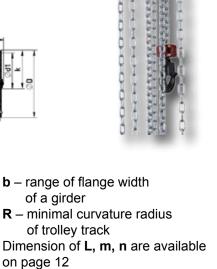
- simple construction, the trolley easily adapts to the width of the crane track
- simple operation
- low maintenance requirements







Z220/10t



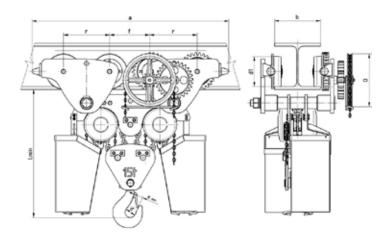
Туре	Lifting capacity (t)			Mai	in dimer	nsions (ı	mm)			I – beam	า
, .		а	d	d1	D	emin	Lmin	r	k	b	R
Z220-A	0,5 t									58-113	
Z220-B	not suitable	245	30	55	109	18,5	290	87	95	58-226	1000
Z220-C	for profile HEM	240	30	33	103	10,5	230	07	33	125-300	1000
Z220-A	1 t									58-113	
Z220-B	not suitable	245	36	55	109	23,5	340	87	95	58-226	1000
Z220-C	for profile HEM	240	00		100	20,0	040	01	33	125-300	1000
Z220-A										58-113	
Z220-B	1,6 t	350	43	100	230	29,5	457	140	136	58-226	1700
Z220-C										137-300	
Z220-A										82-125	
Z220-B	3,2 t	435	50	133	280	35,5	575	170	162	82-226	2500
Z220-C										160-300	
Z220-A										90-137	
Z220-B	5 t	505	56	148	345	39,5	660	218	227	90-226	2800
Z220C										170-300	
Z220	7,5 t	685	56	196	345	43	875	300	222	125-185 (I)	5000
Z220-C	7,5 ι	000	50	190	340	43	0/0	300	222	146-300	5000
Z220	10 t	765	63	228	428	47	920	328	256	125-185 (I)	9000
Z220-C	10 t	700	03	220	420	41	920	320	200	180-300	9000



Туре	Lifting ca- pacity (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								16,9
Z220-B	0,5	1	Ø5×15	250	300	1,1	4,8	18,6
Z220-C								19,6
Z220-A								22,4
Z220-B	1	1	Ø7×21	250	350	0,7	4,8	24,1
Z220-C								25,1
Z220-A								44,4
Z220-B	1,6	1	Ø9×27	150	320	0,36	2,25	46,2
Z220-C								47,4
Z220-A								73,1
Z220-B	3,2	1	Ø11×31	280	400	0,29	2,3	74,9
Z220-C								76,6
Z220-A								105,5
Z220-B	5	2	Ø11×31	350	400	0,15	1,8	107,5
Z220-C								110,8
Z220	7.5	2	Ø11 v 21	500	400	0.15	E 07	207,2
Z220-C	7,5		Ø11×31	500	480	0,15	5,97	211,2
Z220	10	3	Ø11×31	500	200	0.1	7.0	264,5
Z220-C	10	3	ונ×ווש	500	390	0,1	7,3	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

Turne	_	Lifting consoity (t)				Main dime	ensions (m	m)		
Тур	E	Lifting capacity (t)	а	d	d1	D	r	f	emin	Lmin
722	.0	15	1290	71	196	345	300	270	50	780
Z220	.0	20	1500	80	237	428	328	380	62	720

(t) falls (N) (N) (IIIIII) (III) Glain (Ng) (of lift kg)
Z220 15 4 Ø11×31 500 480 0,15 12 285	13
2220 20 6 211*31 300 400 0,1 8 345 1	9,2

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

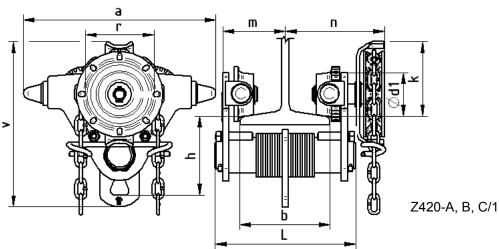
^{**} Lift according to order. Lifts longer then stated in the table must be consulted with the producer.

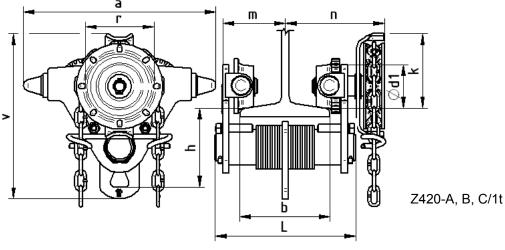
SINGLE BEAM TROLLEY

Use:

- as manually controlled trolleys for suspending BRANO hoists or hoists of other brands of the corresponding loading capacity
- for moving loads within the area of the crane track
- as part of the service hoists for installation and maintenance work in technological facilities of all types
- can also be used in environments with a risk of explosion ("NEXP")

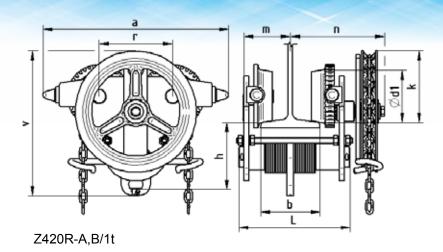
- simple construction, with trolley adapting easily to the width of the crane track
- simple operation
- low maintenance requirements

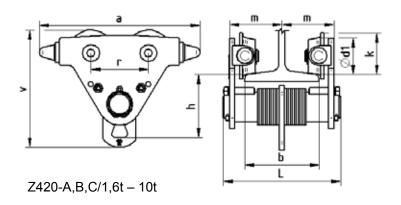




Туре	Lifting ca- pacity (t)				Mai	n dimer	nsions (r	nm)			Bear (I, IPE, HE <i>l</i> HEM	A, HEB,
		а	h	L	V	d1	r	k	m	n	b	R
Z420-A	1			178					52-80	99-126	50-113	
Z420-B	not	245	100	286	209	55	87	95	52-134	99-180	50-226	1000
Z420-C	suitable			372					90-177	136-223	125-300	
Z420R-A	for profile	245	100	178	177	55	87	63	52-80	_	50-113	1000
Z420R-B	HEM	245	100	286	177	55	01	03	52-134	_	50-226	1000
Z420-A				212					80-91	168-175	58-113	
Z420-B	1,6	350	121,5	324	269	100	140	136	80-145	168-230	58-226	1700
Z420-C				396					129-181	214-266	137-300	
Z420-A				239					86-97	178-189	82-125	
Z420-B	3,2	435	134	340	309	133	170	162	86-146	178-238	82-226	2500
Z420-C				414					113-183	205-275	160-300	
Z420-A				275					101-116	199-214	90-137	
Z420-B	5	505	149	364	391	148	218	227	101-162	199-260	90-226	2800
Z420-C				436					133-198	231-296	170-300	
Z420	7,5	685	248	415	432,5	196	300	222	150-186	294-330	125-185 (I)	5000
Z420-C	<i>1</i> ,5	000	240	518	432,5	190	300	222	161-238	301-382	146-300 (I)	5000
Z420	10	765	278	448	503.5	228	328	256	160-193	306-339	125-185 (I)	9000
Z420-C	10	700	2/0	552	503,5	220	320	230	185-245	331-391	180-300 (I)	9000







b – range of flange width of a girderR – minimal curvature radius of trolley track

Туре	Lifting capacity (t)	Operating force for travel ** (N)	Travel speed * (m/min)	Weight (kg)
Z420-A				8,7
Z420-B		250	4,8	10,4
Z420-C	1			11,4
Z420R-A		_	_	6,4
Z420R-B		_	_	78
Z420-A				21
Z420-B	1,6	150	2,25	22,8
Z420-C				24
Z420-A				35,9
Z420-B	3,2	280	2,3	37,8
Z420-C				39,5
Z420-A				52,9
Z420-B	5	350	1,8	54,7
Z420-C				58
Z420	7,5	500	5,97	124,2
Z420-C	C, 1	500	5,97	128,2
Z420	10	500	7.2	179,5
Z420-C	10	500	7,3	187

* 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

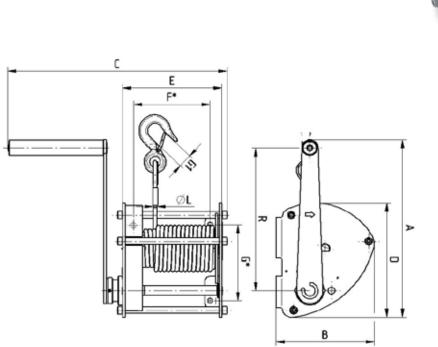
WIRE ROPE WINCH

Use:

- for manual lifting and towing of loads
- as a service hoist for installation and maintenance work in technological facilities of all types
- for loading passenger vehicles or boats onto trailers
- for manipulation activities on small boats (hoisting the sails, etc.)
- can also be used in environments with a risk of explosion ("NEXP")

Characteristics:

- simple and light construction
- simple operation
- anti-corrosion surface treatment by galvanization
- ready for installation to a structure
- low maintenance requirements





						Main (dimen	sions	(mm)					Technical p	arameters	
T	ype	Lifting capacity (t)	А	В	С	D	Ш	F*	G*	G1	L	R	Rope (mm)	Lift (m)	Gear ratio	Operating force on crank max. (N)	Weight of winch with the rope (kg)
١.	. NI	0,5t	264	167	344	193	186	144	115	19	5	200	Ø5	10	1:08	250	9,5
	LN	1t	373	207	460	240	209	160	160	19	8	300	Ø8	10	1:06	320	15,2

* hole distances for anchoring of the rope winch \varnothing of anchorage holes – LN/0,5t – 9mm, LN/1t – 11mm

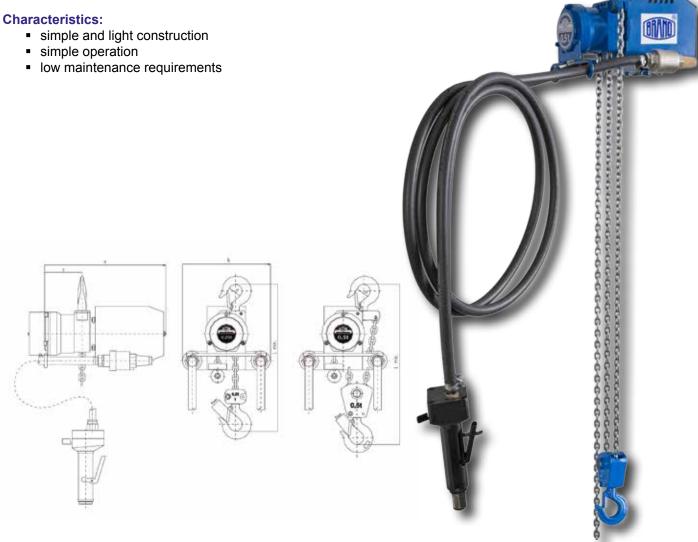
PNEUMATIC CHAIN BLOCK

Use:

- as a standard stable hoist for lifting and lowering loads
- in places where a source of compressed air is available
- as a service hoist for installation and maintenance work in technological facilities of all types

• particularly suitable in areas with a risk of explosion or dust, where it is not possible to use hoists with electric drive (paint shops, gasworks, deep mines, chemical operations, etc.) - the version bearing the marking "NEXP"

 standard manufactured load-carrying capacity is 250 kg, or 500kg, greater load-carrying capacity per query

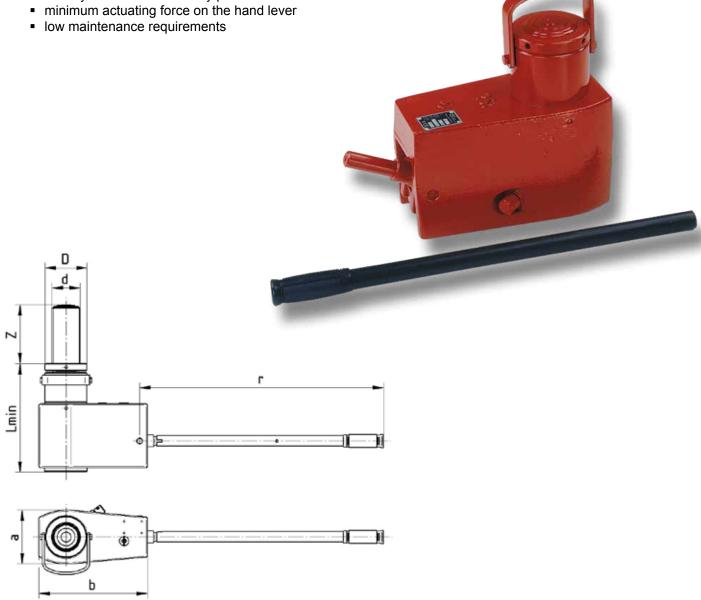


HYDRAULIC JACK

Use:

- serving as a mobile jack for lifting and manipulating loads of great weight (up to 100t) of various types
- for installation works of all types particularly in constructions (bridge building, steel structures, etc.)
- can also be used in environments with a risk of explosion ("NEXP")

- robust and simple construction
- reliably holds the load in any position



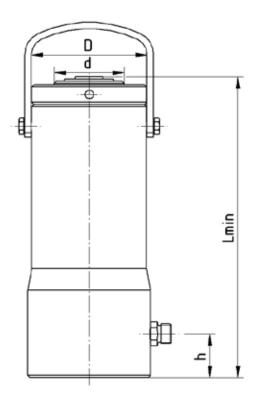
	Lifting		M	ain dimer	sions (m	m)		Weight	Lift (Z)	Capacity	Operating
Туре	capacity (t)	а	b	d	D	L min	r	(kg)	(mm)	of tank (I)	force (N)
	25	135	271	70	105	280	600	25	145	1	310
Z320	50	180	316	100	145	290	600	48	145	2	310
	100	250	381	140	210	325	800	95	145	4	310

HYDRAULIC CYLINDER JACK

Use:

- serving as a mobile jack for lifting, expanding and manipulating loads of great weight (up to 200t) of various types
- independent manual pump serves as the source of pressure energy
- for installation works of all types particularly in constructions (bridge building, steel structures, etc.)
- particularly suitable for use in small spaces
- can also be used in environments with a risk of explosion ("NEXP")

- robust, simple construction
- reliably holds a load in any position
- low maintenance requirements





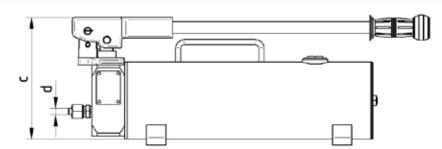
	Lifting	Ma	ain dimer	nsions (m	m)			Technical	parameters	
Туре	capacity (t)	L min	d	D min	h	Lift (mm)	Operating pressure (MPa)	Stroke volume (I)	Connecting screw-coupling (mm)	Weight (kg)
	25	283	70	105	40			0,56		20
Z321	50 290		290 100		37	1/15	65	1,4	M10 v 1 F	40
Z3Z1	100	328	140	210	52	145	00	2,23	M18 x 1,5	87
	200	370	200	300	55			4,55		190

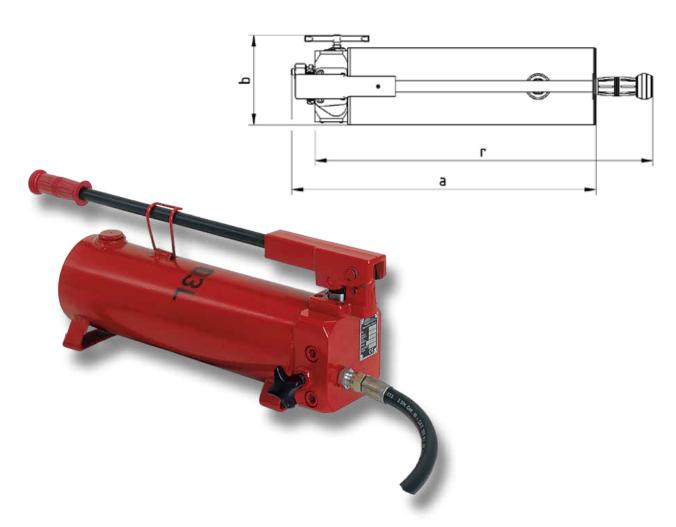
HYDRAULIC PUMP

Use:

- serving as the source of pressure energy chiefly for hydraulic cylinder jacks BRANO Z321
- can also be used as the source of pressure energy for other purposes

- simple construction
- protected against overburdening by a safety valve
- low maintenance requirements





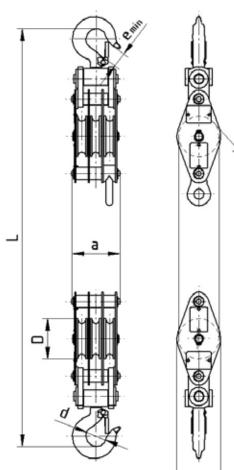
	Capa-		Main	dimensio	ns (mm)			Technical	parameters	
Туре	city of tank (I)	а	b	С	d	r	Operating pressure max. (MPa)	Opera- ting force (N)	Number of outlets (ks)	Weight (kg)
HP03L	3	556							1	15
HP05L	5	726	160	194	M18x1.5	535	65	370	2	19
HP07L	7	926							2	21

STANDARD PULLEY BLOCK

Use:

- as a portable tool in assembly, repair and other operations
- for lifting and towing loads in any direction by manually pulling on the rope, but usually using an engine driven windlass
- K10 K12 types of standard pulley blocks are intended for textile rope, the K15 type for steel rope

- robust and simple construction
- low maintenance requirements





			Ма	in dimen	sions (m	nm)			Tech	nical para	ameters	
Туре	Lifting capacity (t)	а	b	d	D	emin	Lmin	Rope	Number of pulleys in pulley block*	Ø of rope max.	Ope- rating force F (N)	Weight** (kg)
K10	0,5	72	145	30	125	18,5	730		1	25	2660	14
K11	1	115	145	36	125	23,5	930	tovtilo	2	25	2760	19
KII	2	125	200	50	180	35,5	1215	textile	2	26	5670	30
K12	0,3	75	65	30	60	18,5	570		3	10	575	3,5
	1	80	200	36	180	23,5	1175		1	12,5	5620	20
K15	2	100	250	50	230	35,5	1215	steel	1	12,5	11260	43
KIS	4	115	300	56	280	39,5	1410	SICCI	1	20	22400	54
	6	145	350	63	325	50	1770		1	20	33730	104

^{*} Each product always has two pulley blocks, top and bottom. ** Weight of the whole product, top and bottom pulley blocks (no rope).

BRICKLAYER'S PULLEY

Use:

 serving as portable tool for installation and bricklaying work when lifting and towing loads by manual force

Characteristics:

- simple construction in five versions for various types of suspension
- low maintenance requirements

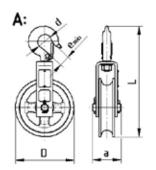
Pulleys of all versions include a rope with a hook of Z500L type, which is not included in the scope of delivery and is required to order separately.

The rope Z500L has \varnothing 11mm, the basic length of the rope is 20 m. Alternatively, another polyamide or hemp rope may be used with up to \varnothing 16mm.

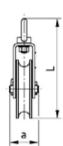


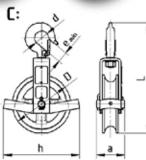


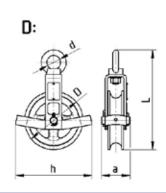




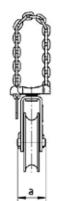


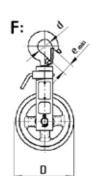


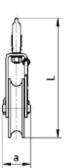












Туре	Lifting capacity (kg)	а	d	D	e min	h	L	Weight of pulley (kg)
A – with hook, without cover		61	30	125	20	_	240	1,6
B – with hook, without cover		61	28	125	_	_	233	1,7
C – with hook, with cover	500	61	30	125	20	165	240	1,8
D – with hook, with cover	500	61	28	125	_	165	233	1,9
E – with chain, without cover		61	_	125	_	_	_	2,3
F – with hook, without cover		61	30	125	20	_	256	1,7

CONTAINER PEDESTAL SYSTEM - ARMY PROGRAM

PEDESTAL SYSTEM

The container pedestal system is a solution developed primarily for leveling containers equipped with ISO corner blocks. **Use:**

- The adjustable pedestals enable leveling a container placed on a rough terrain.
- The pedestals are height-adjustable in a range from 150 to 250 mm.
- They are to be placed under all four bottom corner blocks.
- The load of the container pedestal must not exceed the specified allowed bearing capacity.

Technical information:

- maximum load 6 tons
- weight 15 kg
- dimensions minimum (LxWxH) 200x200x150
- dimensions maximum (LxWxH) 200x200x250

The container pedestal system is protected by a patent and a utility design.

The design of the container pedestal system meets requirements specified by the Directive of the European Parliament and of the Council 2006/42/ES as amended by the Czech technical regulations – the Regulation of the Government n. 176/2008 Sb. as amended, and meets requirements of the harmonized Czech technical standards ČSN EN ISO 12100.

The product can be supplied in any color on the basis of customer order.

The adjustable container pedestal (CM-CCR 150) and the fixing container pedestal (CM-CCF 100)

The fixing pedestal is only intended to support the adjustable pedestal if it is necessary to underlay the container up to a height higher than the range of the adjustable pedestal (250mm)

	Lifting capacity (t)				Main di	mensior	ns (mm)						
Туре	Q	A min	A max	A1	В	С	D	Е	F	G	Weight (kg)		
CM-CCR 150/x	6	150	250	132	200	200	25	27	62	30	17,2		
CM-CCF 100/x	6	_	100	106	200	200	25	27	_	_	8,6		
	operating temperature range -30°C až +55°C												

Note: x – color design of the base system

Connecting screw (CM-VR)

The connecting screw is designed for the connection of the container pedestals in the case the containers are placed side by side. This ensures constant distances between containers.

Type	Lifting capacity (t)		Main dimen	sions (mm)		Dead-weight (kg)				
	Q	L	L L1 D D1							
CM-VR 100/x	_	100	140	24	37	0,6				
CM-VR 390/x	_	390	430	24	37	1,6				
operating temperature range -30°C až +55°C										

Note: x - color design of the base system

RACK JACK

Use:

- robust and durable construction
- acceptable actuating force in the crank
- reliably holds the load in any position using the lock in the crank
- low maintenance requirements
- RPK contains overload protection
- standard production load-carrying capacities are 5 t or 10 t

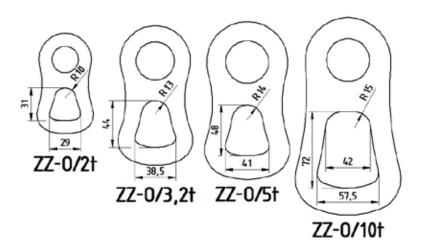


GIRDER CLAMPS

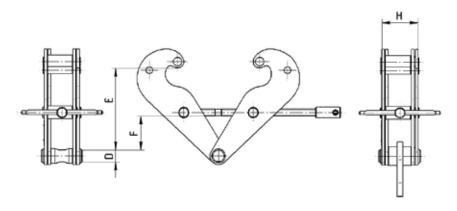
Use:

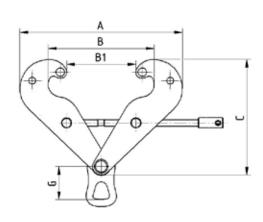
- as an accessory tool for manual hoists made by the BRANO company, possibly also for hoists of other brands
- serving as simple and rapid suspension of manual hoists on beams or posts of the "I" profile
- suitable as portable tool during installation, repair or other types of work

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









	Lifting				Main d	limensio	ns (mm)				Weight	(kg)	
Туре	Lifting capacity (t)	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)	
	2	360	270	220	220	20	108155	35	57,5	61	2,9	3,1	
ZZ	3,2	415	300	235	285	34	145190	55	81	85	6,5	7	
22	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												

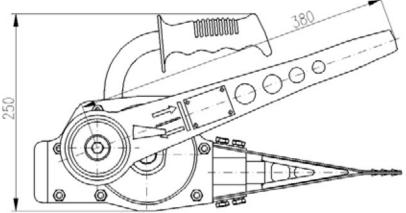
MECHANICAL WEDGE

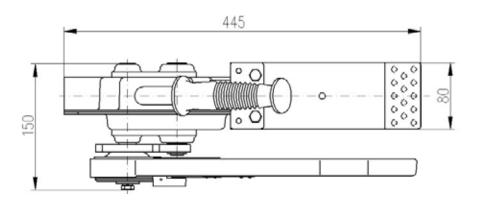
Use:

- helpful for loggingmaking the tree cutting easier
- channeling the fall of the tree
- enables round timber to be hewed

- robust construction
- simple control by means of a hand lever
- low maintenance requirements
- environmentally friendly







Туре	Operating force (N)	Max. perpendicular com	Weight (kg)
MK4	350	60	10

CAST PULLEY

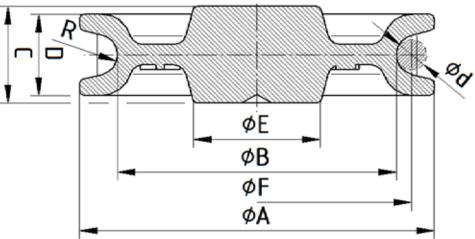
Use:

- semi-finished product for manufacturing of pulleys for various types of use
- for example for fitness equipment, suspension devices, as a support for movement and change of direction of wires and for many other applications
- pulleys have a cast dimple for drilling the central hole
- the central hole for rotation of the pulley is made by the customer according to their own needs

Recommended rope diameter Ø d in accordance with ČSN 271820:

- \emptyset dmax = R / (0.53 ÷ 0.56)
- Ø d = F / (14 * ÷ 26 **)
 For leveling pulleys
 - ** For guiding pulleys





Size – Ø pulley (mm)	30	40	50	60	70	80	90	100	120
Dimension A (mm)	30	40	50	60	70	80	90	100	120
Dimension B (mm)	20	30	36	45	55	61	71	81	98
Dimension C (mm)	11	12	17	18	19	23	24	26	28
Dimension D (mm)	11	12	16	16	16	20	20	22	26
Dimension E (mm)	13	15	15	26	25	28	30	35	35
Dimension R (mm)	2,5	3	4	4	4	5	5	6	8
Weight (kg)	0,05	0,07	0,1	0,17	0,23	0,34	0,5	0,7	0,85

DOOR CLOSERS

Basic information:

Your doors may open to the left or right hand. How can you tell?

- Left hand doors (LH) open towards the observer and the door hinges are visible to the left.
- Right hand doors (RH) open towards the observer and the door hinges are visible on the right.
- All BRANO door closers can be used for both versions. The installation instructions describe simple manipulation for installation on left and right hand doors. The instructions are attached to every door closer.
- If you have insufficient space in the direction the door opens, the closer can also be installed 'upside down'. All the door closer functions are maintained (note that this does not apply to R12 and R12A types)
- When installing the closer onto exterior doors, we recommend that, the door closer is installed on the inside of the door if possible. This protects the closer from the weather, temperature changes, theft, ...

Selection of a suitable type of closer:

- The type of door closer is determined according to the design of the closer, the design of the door, the color of the door and the options for attaching the closer.
- We recommend the individual types according to the following table:

Closer type	Door type	Comment
R12, R12A	Classic, historical, warehouse and industrial doors, older types of elevator doors	Easier to open in the initial phase (small children, elderly people)
K204, K214	Classic and office doors and doors into office buildings	Easier to open in the initial phase (small children, elderly people)
P100, D80V, Bxx	Modern doors, plastic doors, modern types of elevator doors, modern buildings	Supplementary function: so-called pram phase (the door closer has a delay function so as to enable slower persons to pass through (people in wheelchairs, prams,)

Selection of the correct size of door closer:

- If you know the weight of the door, you select the closer according to the following table.
- If you do not know the weight of the door, you can estimate it according to the door width. Again you use the following table. The values apply to standard doors (wooden doors with single glass pane, not fire doors). In this case we recommend that you use door closers for the weight of one level higher.

Size according to	Door weight	Door width	Size according to	Door weight	Door width	Type	Door weight	Door width
EN 1154	(kg)	(cm)	EN 1154	1154 (kg) (cm)		Type	(kg)	(cm)
1	Do 25	70	3	40-65	100	B87	25-45	85
2	20-38	80	4	55-85	105	B88	40-65	95
3	30-60	90	5	80-150	120	B89	60-85	110
4	42-70	105	6	100-140	150			
K204, K	K204, K214, R12, R12A			D80V	7-89			

HYDRAULIC DOOR CLOSER

R12, R12A

The Brano R12 and R12A door closers are flagship products in the Brano range. Many people know it intimately from residential and panel buildings, hostels, shops and wherever it is necessary to close after opening the access door.

Characteristics:

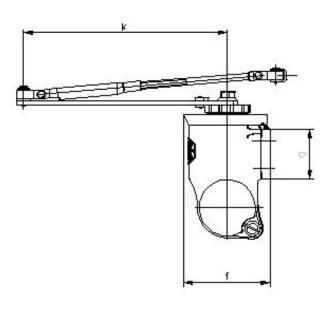
- Hydraulic overhead door closer
- **Use:** for installation on left and right door leaf. It can be installed upside down.
- Max. door dimensions and weight: maximum recommended width 105 cm, weight up to 80 kg
- Suitable also for outdoor use Brano R12 and R12A closers are filled with oil of high thermostability. Therefore, in the temperature range between -20°C and +40°C, the closer is almost maintenance-free and reduces the need for customization cap in different seasons. The actual adjustment is a simple operation, simply of turning the adjusting screw.
- Colors: silver, gold

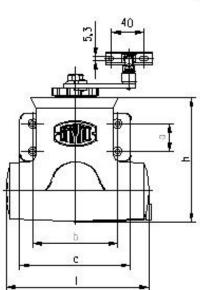
Technical information:

Body width: 123 - 172 mmNib width: 96 - 135 mm

Distance between mounting screws: 70 - 98 mm

■ Body height: 73 – 100 m





Туре	Size according to EN	Door wei- ght (kg)	Door width (cm)	а	g	b	С	f	h	k	I	Weight (kg)
R12/11	1	Max.25	70	19	39	70	96	73	100	185	123	2,46
R12A/12	2	20-38	80	21	45	77	112	77	115	195	133	3,07
R12A/13	3	30-60	90	28	50	86	122	85	127	225	150	3,95
R12A/14	4	42-80	105	32	55	98	135	100	143	243	172	5,58



HYDRAULIC DOOR CLOSER

K204

Brano K204 has been a classic and proven hydraulic door closer for years. It is used to regulate door closing. The most common use can be found in residential and panel buildings and wherever it is necessary to close the access door.

Characteristics:

- Hydraulic overhead door closer
- Use: for installation on left and right door leaf. It can be installed upside down.
- Max. door dimensions and weight: maximum recommended width 105 cm, weight up to 70 kg
- Suitable for outdoor use Brano K204 closers are filled with oil of high thermostability. Therefore, in the temperature range between -20°C and +40°C, the closer is almost maintenance-free and reduces the need for customization cap in different seasons. The actual adjustment is a simple operation, simply of turning the adjusting screw.

Color: silver

Technical information:

Dimensions:

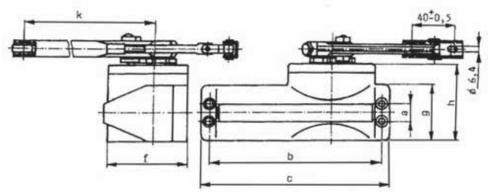
Dimensions of the closer according to the selected size:

Length: 173 - 178 mm
Body height: 73-77 mm
Depth: 79 - 85.5 mm

You can change the closing speed, including the final soft closing.

Opening angle max. 130°





Туре	Size accor- ding to EN 1154	Door weight (kg)	Door width (cm)	а	b	С	f	g	h	k	Weight (kg)
K204/11	1	Max.25	70	16	158	173	79	54	73	185	2,39
K204/12	2	20-38	80	16	158	173	79	54	73	185	2,45
K204/13	3	30-60	90	16	163	178	85,5	61	77	215	2,7
K204/14	4	42-70	105	16	163	178	85,5	61	77	215	2,75

HYDRAULIC DOOR CLOSER

K214

The K214 is the latest generation of Brano hydraulic door closers. We have improved the design and added new colors. The Brano K214 closer provides a simple and reliable door closing solution. This is a basic security element of property protection.

Characteristics:

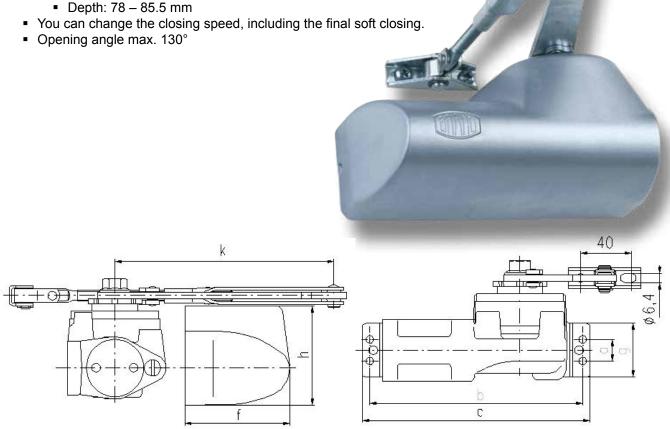
- Hydraulic overhead door closer
- Use: for installation on left and right door leaf.
- Max. door dimensions and weight: maximum recommended width 105 cm, weight up to 70 kg
- Suitable for outdoor use Brano K204 closers are filled with oil of high thermostability. Therefore, in the temperature range between -20°C and + 40°C, the closer is almost maintenance-free and reduces the need for customization cap in different seasons. The actual adjustment is a simple operation, simply of turning the adjusting screw.
- Color: silver, gold

Technical information:

• Dimensions of the closer according to the selected size:

Dimensions:

Length: 169 – 173 mm
 Body height: 74-76 mm
 Depth: 78 – 85.5 mm

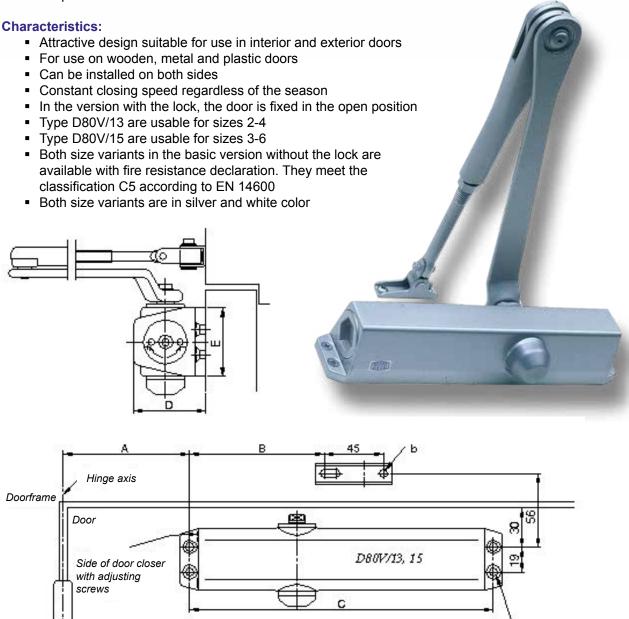


Туре	Size accor- ding to EN 1154	Door weight (kg)	Door width (cm)	а	b	С	f	g	h	k	Weight (kg)
K214/11	1	Max.25	70	16	158	169	78	40	73,5	185	2,34
K214/12	2	20-38	80	16	158	169	78	40	73,5	185	2,4
K214/13	3	30-60	90	16	163	173	85,5	40	76	215	2,52
K214/14	4	42-70	105	16	163	173	85,5	40	76	215	2,59

PINION DOOR CLOSER

D80V

Variant of pinion door closer Brano D80V.



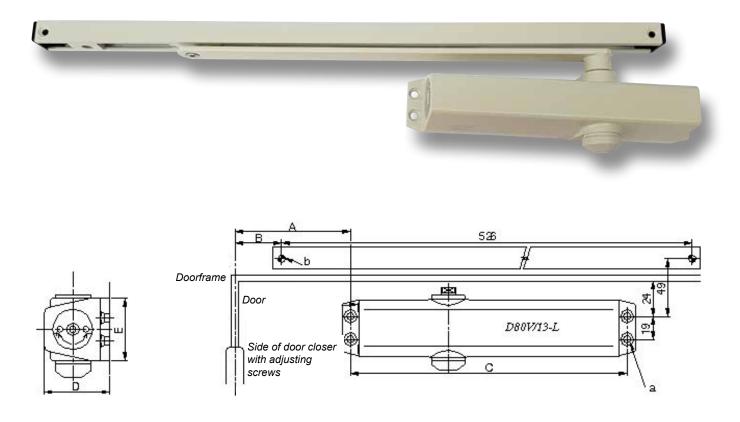
Standard type	Type with door stopper	Size according to EN 1154	Door weight (kg)	Door width (mm)	Α	В	С	D	Е	а	b
		2	< 40	< 850							
D80V/13	D80V/13-S	3	< 60	< 950	97	103	232	49	49	6,5	6
		4	< 80	< 1100							
		3	< 60	< 950	55	155					
D90\//1E	D90V/4E C	4	< 80	< 1100	55	155	260	E E	52	6.5	6
D80V/15	D80V/15-S	5	5 < 100 < 1250	00	120	268	55	52	6,5	6	
		6	< 120	< 1400	90	120					

PINION DOOR CLOSER

D80V-L

Pinion door closers D80V-L – sliding arm.

- Attractive design suitable for use in interior and exterior doors
- For use on wooden, metal and plastic doors
- Can be installed on both sides
- Constant closing speed regardless of season eliminates the specifics of hydraulic door closers
- In the arm there is an integrated lock that fixes the door in the open position and can also act as a door stop
- Door closer lock can be adjusted to any angle of door opening at any time, to change or completely reset by using tools
- Type D80V/13-L usable for sizes 2-3
- Type D80V/15-L usable for sizes 3-5
- Both size variants are in silver and white color



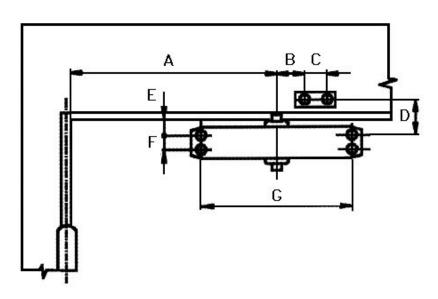
Standard type	Sicze accor- ding to EN 1154	Door weight (kg)	Door width (mm)	А	В	С	D	E	а	b
D80V/13-L	2	< 40	< 850	118		232	49	49		
DOUV/13-L	3	< 60	< 950	110		232	49	49		
	3	< 60	< 950		60				6,5	5,5
D80V/15-L	4	< 80	< 1100	108		268	55	52		
	5	< 100	< 1250							

PINION DOOR CLOSER 700

- Regulation of door latching and closing phase
 Assembly possible for both right and left door
 'Reversed' assembly possible
- Suitable for both exterior and interior use
- White and silver variants



Type	Ci-ro	Α	В	С	D	E	F	G	
Туре	Size	mm							
7001	2	130	60	40	46,5	26,5	19	162	
7002	3	210	60	40	47	27	19	188	
7003	4	210	60	40	47	27	19	188	
7004	5	240	73	45	69	38	19	230	



Туре	Size	Door weight (kg)	Door width (mm)	Opening angle	Working temperature
7001	2	25-65	90-100	144°	min. – 30 °C, max. + 40 °C
7002	3	45-75	110	144°	min. – 30 °C, max. + 40 °C
7003	4	65-90	110	144°	min. – 30 °C, max. + 40 °C
7004	5	80-105	110	144°	min. – 30 °C, max. + 40 °C

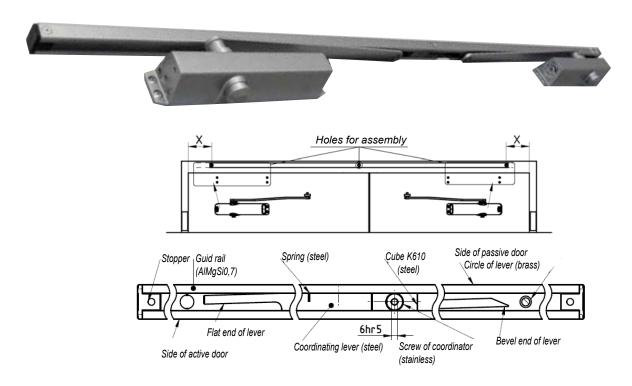
SLIDING ARM COORDINATOR K610

Characteristics:

- used for coordinated closing of double leaf doors
- attractive design with minimum installation dimensions
- simple installation installation instructions on YouTube
- suitable for use on interior and exterior doors
- including D80V-L door closer of 13 or 15 size variant (depending on door parameters)
- in two colors: white and silver
- weather and temperature resistant
- can be supplied with a lock that keeps the door open
- minimum door width 2 x 70 cm and maximum 2 x 1250 cm with weight 100 kg
- option of custom-made production for atypical door wings
- the product is available with the certificates for assembly on fire resistant doors



Product has certificate for mounting on fire doors



Indicative table for assigning the size of the coordination bar and door closers to the door:

Width doorframe	Door weight	Closer size	Rail length	Fire door	Туре
1412 (1400-1500)	max.20	1 (11)	1270	NE	D80V/13-L
1612 (1600-1700)	20-40	2 (12)	1470	NE	D80V/13-L
1812 (1800-1900)	40-60	3 (13)	1670	ANO	D80V/13-L D80V/15-L
2012 (2000-2100)	60-80	4 (14)	1870	ANO	D80V/15-L
2212 (2200-2300)	80-100	5 (15)	2070	ANO	D80V/15-L

FLOOR DOOR CLOSER P221

Use:

- The closer is intended for use in areas with a temperate climate. It works reliably in temperatures from -20°C to +40°C
 - for swinging doors
 - for doors with a door stop, left and right hand
 - for metal, all-glass or wooden doors.

When ordering, you must state what type of door the closer is intended for !!!!!!

Types of floor door close:

- P221D floor door closer for doors with a stop
- P221DS floor door closer for doors with a stop and a lock
- P221S floor door closer for swinging doors
- P221SS floor closer for swinging doors with a lock

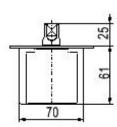
Locks of BRANO door closers enable fixing of the doors in an open position of over 90° to both sides. This lock can be removed at the customer's request, and the doors can then be opened up to 150° to both sides. The metal casing is made of stainless steel.

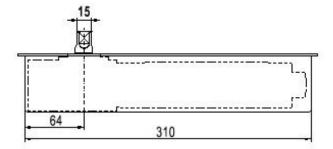
Characteristics:

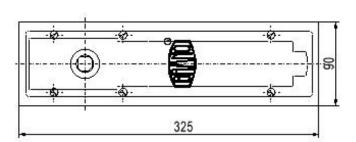
- by default, the maximum door weight is 60 kg
- if using on heavier doors, a consultation with the manufacturer is necessary
- The production of the floor door closers was taken over from the company Zukov, so this product can replace some of the types of floor door closers formerly manufactured by Zukov.

Installation and maintenance of the door closer:

 The floor door closer can be installed rotated 90° to the door axis. It does not require cleaning or lubrication.







Туре	P221	P221 with lock	
Max. door weight	60 kg	60 kg	
Max. door width	95 cm	95 cm	
Angle of opening	150°	150°	
Arrestment	95°	95°	
Weight	4,95 kg	4,95 kg	



DOOR HOLDER

K501

A mechanical door holder with the advantage of locking and unlocking at any door opening angle, without installation tools necessary. Simple installation regardless of the door closer used.

Characteristics:

■ Body dimensions: 149x32x27

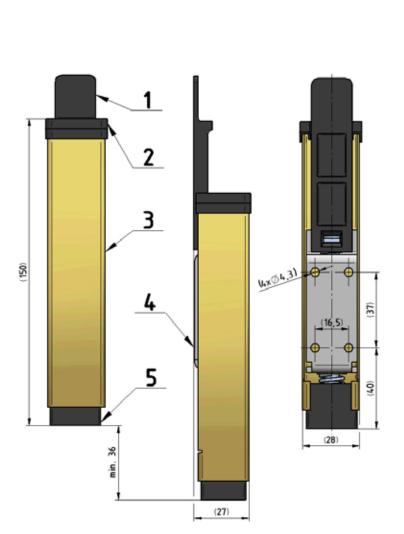
■ Movement in the "y" axis (lift): max. 40mm

Colors: white, brown, silver and gold

■ Weight: 0.21kg

Use:

- Securing of the door wing is performed by pressing the head which results in the protrusion of the jammer. This is then secured in any position by the internal mechanism of the door. By pressing the button, the jammer spring returns to the default position
- The door holder must reliably lock the door leaf against closing under a 50N pressure acting in the closing direction of the door leaf





- 1 Button
- 2 Head
- 3 Cover
- 4 Body
- 5 Bumper







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