



SPARE PARTS CATALOGUE

Electric Wire Rope Hoists, Type WR



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DIRECTIONS FOR USING THE CATALOGUE

The present catalogue comprises all parts of the WR electric hoists.

The tables show the numbers of the figures and the positions, the name, quantity and catalogue number of the parts for the specific modification.

The units whose positions are in square brackets "[]", cannot be disassembled and are delivered as whole sets. In parenthesis "()" are put the numbers of standard articles such as bolts, nuts, safety rings, etc., which usually are not offered as spare parts, but it's not impossible for the customer to order them. They are shown and described for the sake of facilitating the electric hoist maintenance. When replacing them make sure to observe the strength class of the tightening elements.

The meaning of the symbols in the catalogue numbers columns is as follows:

"-" - not available in this particular modification;

"+" - available in this particular modification;

The lifting speeds are denoted by V1 and V2, shown in Table 1.

Table 1

Lifting speed - designation		V1		V2	
Size	Reeving	4/1	2/1	4/1	2/1
	Lifting speed				
WR**006		16	32	-	-
WR**010		16	32	24	47
WR**015					
WR**020					
WR**030		16	20	-	-
WR**040		16	-	-	-
WR**055		10	9	15	11
WR**070		8	-	13	-
WR**088		9	-	-	-
WR**110		9	-	-	-

Table 2

Size	Reeving	Lifting height, ft.							
		H1	H2	H3	H4	H5	H6	H7	H8
WR**006	4/1	21	33	44	59	66	84	-	-
	2/1	16	26	36	56	75	97	103	123
WR**010	4/1	20	30	41	54	62	74	-	-
	2/1	23	34	54	74	84	100	108	131
WR**015	4/1	18	28	38	48	51	61	-	-
	2/1	25	39	54	74	95	113	-	-
WR**020	4/1	16	26	36	41	49	54	66	-
	2/1	25	39	54	74	95	113	-	-
WR**030	4/1	26	36	46	56	-	-	-	-
	2/1	23	36	49	69	87	105	-	-
WR**040	4/1	26	36	48	57	-	-	-	-
	2/1	-	-	-	-	-	-	-	-
WR**055	4/1	25	34	43	52	-	-	-	-
	2/1	66	79	98	144	-	-	-	-
WR**070	4/1	21	30	38	46	33	39	-	-
	2/1	-	-	-	-	-	-	-	-

The other symbols, used in the catalogue, denote: Q-capacity; dr - rope diameter; Vt - travel speed; Dtw - Driven travel wheel diameter, V - Lifting speed, S - Reeving.

THE MANUFACTURER HAS THE RIGHT TO PLACE CHANGE IN PARTS CATALOGUE

1. LIFTING REDUCER

1.1. 2-stage planetary reducer

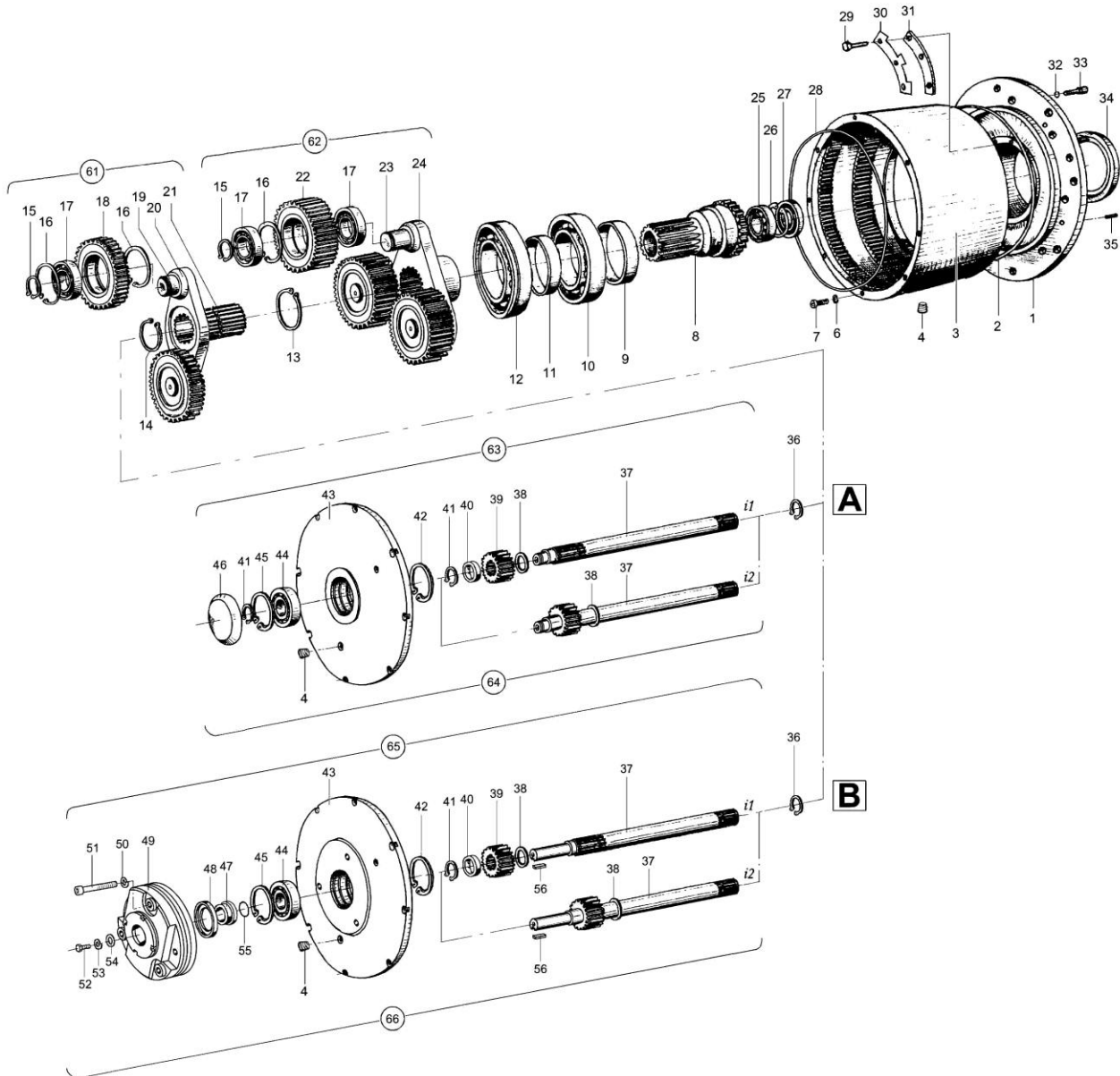


Fig. 1

1.1.1. Transmission ratio - i

Table 1.1

Size	Transmission Ratio		Reducer							
	Index	Nomin.	Modification – Without brake							
			H1	H2	H3	H4	H5	H6	H7	H8
			Part number							
WR**006	i_1	33.3	WR331.000.11	WR331.000.12	WR331.000.13	WR331.000.11	-	-	-	-
	i_2	50.5	WR331.000.21	WR331.000.22	WR331.000.23	WR332.000.21	-	-	-	-
WR**010	i_1	47.6	WR431.000.11	WR431.000.12	WR431.000.13	WR431.000.11	-	-	-	-
WR**015	i_1	47.6	WR531.000.11	WR531.000.12	WR531.000.13	WR531.000.11	-	-	-	-
	i_2	65.0	WR531.000.21	WR531.000.22	WR531.000.23	WR531.000.21	-	-	-	-
WR**020	i_1	55.0	WR631.000.11	WR631.000.12	WR631.000.13	WR631.000.11				
WR**030	i_1	55.0	WR633.000.11	WR633.000.12	WR633.000.13	WR633.000.11				

Size	Transmission Ratio		Reducer							
	Index	Nomin.	Modification – With brake							
			H1	H2	H3	H4	H5	H6	H7	H8
			Part number							
WR**006	i_1	33.3	WR332.000.11	WR332.000.12	WR332.000.13	WR332.000.11	-	-	-	-
	i_2	50.5	WR332.000.21	WR332.000.22	WR332.000.23	WR332.000.21	-	-	-	-
WR**010	i_1	47.6	WR432.000.11	WR432.000.12	WR432.000.13	WR432.000.11	-	-	-	-
WR**015	i_1	47.6	WR532.000.11	WR532.000.12	WR532.000.13	WR532.000.11	-	-	-	-
	i_2	65.0	WR532.000.21	WR532.000.22	WR532.000.23	WR532.000.21	-	-	-	-
WR**020	i_1	55.0	WR632.000.11	WR632.000.12	WR632.000.13	WR632.000.11				
WR**030	i_1	55.0	WR634.000.11	WR634.000.12	WR634.000.13	WR634.000.11				

1.1.2. Reducer (fig. 1) and electric motor

Table 1.2

Size	V		Electric motor			Reducer					
	Ind.	m/min.	Single-speed	Double-speed		Modification A			Modification B		
				Variant I	Variant II	H1, H4, H5	H2	H3	H1, H4, H5	H2	H3
						Part number					
WR**006 WR**006	V1	16 16/4	KG 1608-6 -	- KG I 2110-24/6	-	WR331.000.11	WR331.000.12	WR331.000.13	WR332.000.11	WR332.000.12	WR332.000.13
	V2	24 24/4	KG 1608-4 -	- KG I 2110-24/4	-						
	V1	16/5	-	-	CT 100LB-12/4 BRII	WR331.000.21	WR331.000.22	WR331.000.23	WR332.000.21	WR332.000.22	WR332.000.23
WR**006	V2	24/7	-	-	CT 100LB-12/4 BRII	WR331.000.11	WR331.000.12	WR331.000.13	WR332.000.11	WR332.000.12	WR332.000.13
WR**010 WR**010	V1	16 16/4	KG 2008-6 -	- KG I 2612-24/6	- P160 M4-24/6	WR431.000.11	WR431.000.12	WR431.000.13	WR432.000.11	WR432.000.12	WR432.000.13
	V2	24 24/4	KG 2008-4 -	- KG I 2612-24/4	- P160 M4-24/4						
WR**015	V1	16 16/4	KG 2011-6 -	- KG II 2714-24/6	-	WR531.000.11	WR531.000.12	WR531.000.13	WR532.000.11	WR532.000.12	WR532.000.13
	V2	24 24/4	KG I 2012-4 -	- KG II 2714-24/6	-						
	V1	16/2,4	-	-	P160 M5-24/4	WR531.000.21	WR531.000.22	WR531.000.23	WR532.000.21	WR532.000.22	WR532.000.23
						H1, H4 – H7	H2	H3	H1, H4 – H7	H2	H3
WR**020 WR**020 WR**020	V1	16 16/4	KG 2412-6 -	- KG I 3317-24/6	- P200 M6-24/6	WR631.000.11	WR631.000.12	WR631.000.13	WR632.000.11	WR632.000.12	WR632.000.13
	V2	24 24/4	KG I 2714-4 -	- KG I 3317-24/4	- P200 M6-24/4						
						H1	H2, H4 – H7	H3	H1	H2, H4 – H7	H3
WR**030 WR**030 WR**030040	V1	16 16/4	KG 2714-6 -	- KG I 3517-24/6	-	-	WR731.000.12	WR731.000.13	-	WR732.000.12	WR732.000.13

1.1.3. Details, available in all reducers

1.1.3.1. Reducer WR**006 (fig. 1)

Table 1.3

Modification			A			B				
2-stage planetary reducer (complete)			WR331.000.11		WR331.000.21		WR332.000.11		WR332.000.21	
			WR331.000.12 WR331.000.13		WR331.000.22 WR331.000.23		WR332.000.12 WR332.000.13		WR332.000.22 WR332.000.23	
Transmission ratio - i			i1 = 33.3		i2 = 50.5		i1 = 33.3		i2 = 50.5	
Lifting height			H1 H4 H5	H2 H3	H1 H4 H5	H2 H3	H1 H4 H5	H2 H3	H1 H4 H5	H2 H3
Pos.	Designation	QTY	Part number							
1	Flange	1	WR331.002.00							
2	Rubber ring	1	WR331.006.00							
3 (4)	Tooth rim	1	WR331.001.00							
(6)	Stopper BDS 2527–71	1	IV conical 1/4"							
(7)	Spring washer BDS 833–82/Zng	8	2 – 6H							
[8]	Screw BDS 2171–83/Zn	8	M 6x14 – 8.8							
[9]	Geared bush	1	WR331.331.00							
(10)	Space bush	1	WR331.332.00							
11	Ball bearing DIN 625	1	6210							
(12)	Space bush	1	WR331.301.00							
(13)	Ball bearing DIN 625	1	6210 N B							
(14)	Ring BDS 2170–77	1	40							
(15)	Ring BDS 2170–77	1	B 40							
(16)	Ring BDS 2170–77	5	B 20							
(17)	Ring BDS 2170–77	5	A 47							
[18]	Ball bearing DIN 625	8	6204							
[19]	Planetary gear	2	WR331.211.10	WR331.211.20	WR331.211.10	WR331.211.20				
[20]	Axle	2	WR331.221.00							
21	Planet carrier I	1	WR331.222.10	WR331.222.20	WR331.222.10	WR331.222.20				
22	Sun gear	1	WR331.201.00							
[23]	Planetary gear	3	WR331.311.00							
[24]	Axle	3	WR331.321.00							
(25)	Planet carrier II	1	WR331.322.00							
(26)	Ball bearing DIN 625	1	6004							
(27)	Ring BDS 2170–77	1	A 42							
28	Gasket BDS 9954–83	1	B 20x42x10							
(29)	Rubber ring	1	WR331.008.00							
30	Bolt BDS 1230–72/Zn	6	I M8x16 – 5.6							
31	Safety pad	2	WR331.004.00							
(32)	Stop sector	2	WR331.003.00							
(33)	Spring washer BDS 833–82/Zng	8	2 – 8H							
(34)	Screw BDS 2171–83/Zn	8	M 8x18 – 8.8							
35	Gasket BDS 9954–83	1	B 65x90x10							
(36)	Cylindrical pin	2	WR331.005.00							
[61]	Ring BDS 2170–77	1	B 20							
[62]	Gearing I complete	1	WR331.200.10	WR331.200.20	WR331.200.10	WR331.200.20				
	Gearing II complete	1	WR331.300.00							
[63]	Shaft (complete)	Pos.	[63]	[64]	[65]	[66]				
[64]		1	WR331.100.11	WR331.100.21	WR332.100.11	WR332.100.21				
[65]		1	WR331.100.12	WR331.100.22	WR332.100.12	WR332.100.22				
[66]		1	WR331.100.13	WR331.100.23	WR332.100.13	WR332.100.23				
(4)	Stopper BDS 2527–71	1	IV conical 1/4"							
37	Shaft	1	WR331.102.11	WR331.102.21	WR332.102.11	WR332.102.21				
		1	WR331.102.12	WR331.102.22	WR332.102.12	WR332.102.22				
		1	WR331.102.13	WR331.102.23	WR332.102.13	WR332.102.23				
	Adjusting bush	1	WR331.103.00							
39	Sun gear	1	WR331.104.00	–	WR331.104.00	–				
40	Space bush	1	WR331.105.00	–	WR331.105.00	–				
(41)	Ring BDS 2170–77	3	B 20	–	–	–				
		2	–	B 20	–	–				
		1	–	–	B 20	–				
(42)	Ring BDS 2170–77	1	A 47							
43	Cover	1	WR331.101.00				WR332.101.00			
(44)	Ball bearing BDS 4843–84	1	6204							
(45)	Ring BDS 2170–77	1	A 47							
46	Cap	1	WR331.107.00				–			
47	Bush	1	–				WR332.107.00			
(48)	Gasket BDS 9954–83	1	–				A 30x47x10			
(49)	Break "Lenze"	1	–				BFK 458 10N 180VDC			
(50)	Spring washer BDS 833–82/Zng	3	–				2 – 6H			
(51)	Screw BDS 2171–83/Zn	3	–				I M6x60 – 8.8			
(52)	Screw BDS 2171–83/Zn	1	–				I M5x20 – 8.8			
(53)	Spring washer BDS 833–82/Zng	1	–				2 – 5H			
54	Washer	1	–				WR332.108.00			
55	Safety ring	1	–				WR332.109.00			
(56)	Key DIN 6885A	1	–				5x5x20			

1.1.3.2. Reducer WR**010 (fig. 1)

Table 1.4

Modification			A			B		
2-stage planetary reducer (complete)			WR431.000.11			WR432.000.11		
			WR431.000.12			WR432.000.12		
			WR431.000.13			WR432.000.13		
Transmission ratio - i			i1 = 47.6					
Lifting height			H1	H2	H3	H1	H2	H3
			H4			H4		
			H5			H5		
Pos.	Designation	QTY	Part number					
1	Flange	1	WR531.002.00					
2	Rubber ring	1	WR531.006.00					
3 (4)	Tooth rim	1	WR531.001.00					
(6)	Stopper BDS 2527–71	1	IV conical 1/4"					
(7)	Spring washer BDS 833–82/Zng	8	2 – 6H					
[8]	Screw BDS 2171–83/Zn	8	M 6x16 – 8.8					
[9]	Geared bush	1	WR531.331.00					
(10)	Space bush	1	WR531.332.00					
11	Ball bearing DIN 625	1	6215					
(12)	Space bush	1	WR531.301.00					
(13)	Ball bearing DIN 625	1	6215 N					
(14)	Ring BDS 2170–77	1	B 60					
(15)	Ring BDS 2170–77	1	B 48					
(16)	Ring BDS 2170–77	5	B 30					
(17)	Ring BDS 2170–77	5	A 62					
[18]	Ball bearing DIN 625	8	6206					
[19]	Planetary gear	2	WR531.211.10					
[20]	Axle	2	WR531.221.00					
21	Planet carrier I	1	WR531.222.10					
22	Sun gear	1	WR531.201.00					
[23]	Planetary gear	3	WR531.311.00					
[24]	Axle	3	WR531.321.00					
(25)	Planet carrier II	1	WR531.322.00					
(26)	Ball bearing DIN 625	1	6205					
(27)	Ring BDS 2170–77	1	A 52					
28	Gasket BDS 9954–83	1	B 25x52x10					
(29)	Rubber ring	1	WR531.008.00					
30	Bolt BDS 1230–72/Zn	6	I M8x16 – 5.6					
31	Safety pad	2	WR531.004.00					
(32)	Stop sector	2	WR531.003.00					
(33)	Spring washer BDS 833–82/Zng	8	2 – 8H					
(34)	Screw BDS 2171–83/Zn	8	M 8x25 – 8.8					
35	Gasket BDS 9954–83	1	B 100x130x12					
(36)	Cylindrical pin	2	WR331.005.00					
[61]	Ring BDS 2170–77	1	B 25					
[62]	Gearing I complete	1	WR531.200.10					
	Gearing II complete	1	WR531.300.00					
		Pos.	[63]			[65]		
[63]	Shaft (complete)	1	WR431.100	.11		WR432.100.11		
[65]		1	WR431.100.12			WR432.100.12		
		1	WR431.100.13			WR432.100.13		
(4)	Stopper BDS 2527–71	1	IV conical 1/4"					
37	Shaft	1	WR431.102.11			WR432.102.11		
		1	WR431.102.12			WR432.102.12		
		1	WR431.102.13			WR432.102.13		
38	Adjusting bush	1	WR531.103.00					
39	Sun gear	1	WR531.104.00					
40	Space bush	1	WR531.105.00					
(41)	Ring BDS 2170–77	2	B 25			–		
		1	–			B 25		
(42)	Ring BDS 2170–77	1	A 62					
43	Cover	1	WR531.101.00			WR532.101.00		
(44)	Ball bearing BDS 4843–84	1	6305					
(45)	Ring BDS 2170–77	1	A 62					
46	Cap	1	WR531.107.00			–		
47	Bush	1	–			WR532.107.00		
(48)	Gasket BDS 9954–83	1	–			A 40x62x10		
(49)	Break "Lenze"	1	–			BFK 458 12N 180VDC		
(50)	Spring washer BDS 833–82/Zng	3	–			2 – 6H		
(51)	Screw BDS 2171–83/Zn	3	–			I M6x70 – 8.8		
(52)	Screw BDS 2171–83/Zn	1	–			I M6x20 – 8.8		
(53)	Spring washer BDS 833–82/Zng	1	–			2 – 6H		
54	Washer	1	–			WR532.108.01		
55	Safety ring	1	–			WR532.109.01		
(56)	Key DIN 6885A	1	–			6x6x25		

1.1.3.3. Reducer WR**015 (fig. 1)

Table 1.5

Modification			A			B		
2-stage planetary reducer (complete)			WR531.000.11 WR531.000.12 WR531.000.13	WR531.000.21 WR531.000.22 WR531.000.23	WR532.000.11 WR532.000.12 WR532.000.13	WR532.000.21 WR532.000.22 WR532.000.23		
Transmission ratio - i			i1 = 47.6	i2 = 65.0	i1 = 47.6	i2 = 65.0		
Lifting height			H1 H2 H3 H4 H5	H1 H2 H3 H4 H5	H1 H2 H3 H4 H5	H1 H2 H3 H4 H5		
Pos.	Designation	QTY	Part number					
1	Flange	1	WR531.002.00					
2	Rubber ring	1	WR531.006.00					
3 (4)	Tooth rim	1	WR531.001.00					
(6)	Stopper BDS 2527–71	1	IV conical 1/4"					
(7)	Spring washer BDS 833–82/Zng	8	2 – 6H					
[8]	Screw BDS 2171–83/Zn	8	M 6x16 – 8.8					
[9]	Geared bush	1	WR531.331.00					
(10)	Space bush	1	WR531.332.00					
11	Ball bearing DIN 625	1	6215					
(12)	Space bush	1	WR531.301.00					
(13)	Ball bearing DIN 625	1	6215 N					
(14)	Ring BDS 2170–77	1	B 60					
(15)	Ring BDS 2170–77	1	B 48					
(16)	Ring BDS 2170–77	5	B 30					
(17)	Ring BDS 2170–77	5	A 62					
[18]	Ball bearing DIN 625	8	6206					
[19]	Planetary gear	2	WR531.211.10	WR531.211.20	WR532.211.10	WR532.211.20		
[20]	Axle	2	WR531.221.00					
21	Planet carrier I	1	WR531.222.10	WR531.222.20	WR532.222.10	WR532.222.20		
22	Sun gear	1	WR531.201.00					
[23]	Planetary gear	3	WR531.311.00					
[24]	Axle	3	WR531.321.00					
(25)	Planet carrier II	1	WR531.322.00					
(26)	Ball bearing DIN 625	1	6205					
(27)	Ring BDS 2170–77	1	A 52					
28	Gasket BDS 9954–83	1	B 25x52x10					
(29)	Rubber ring	1	WR531.008.00					
30	Bolt BDS 1230–72/Zn	6	I M8x16 – 5.6					
31	Safety pad	2	WR531.004.00					
(32)	Stop sector	2	WR531.003.00					
(33)	Spring washer BDS 833–82/Zng	8	2 – 8H					
(34)	Screw BDS 2171–83/Zn	8	M 8x25 – 8.8					
35	Gasket BDS 9954–83	1	B 100x130x12					
(36)	Cylindrical pin	2	WR331.005.00					
[61]	Ring BDS 2170–77	1	B 25					
[62]	Gearing I complete	1	WR531.200.10	WR531.200.20	WR531.200.10	WR531.200.20		
	Gearing II complete	1	WR531.300.00					
[63]		Pos.	[63]	[64]	[65]	[66]		
[64]	Shaft (complete)	1	WR531.100.11	WR531.100.21	WR532.100.11	WR532.100.21		
[65]		1	WR531.100.12	WR531.100.22	WR532.100.12	WR532.100.22		
[66]		1	WR531.100.13	WR531.100.23	WR532.100.13	WR532.100.23		
(4)	Stopper BDS 2527–71	1	IV conical 1/4"					
37	Shaft	1	WR531.102.11	WR531.102.21	WR532.102.11	WR532.102.21		
		1	WR531.102.12	WR531.102.22	WR532.102.12	WR532.102.22		
		1	WR531.102.13	WR531.102.23	WR532.102.13	WR532.102.23		
38	Adjusting bush	1	WR531.103.00					
39	Sun gear	1	WR531.104.00	–	WR531.104.00	–		
40	Space bush	1	WR531.105.00	–	WR531.105.00	–		
(41)	Ring BDS 2170–77	2	B 25	–	–	–		
		1	–	B 25	B 25	–		
(42)	Ring BDS 2170–77	1	A 62					
43	Cover	1	WR531.101.00			WR532.101.00		
(44)	Ball bearing BDS 4843–84	1	6305					
(45)	Ring BDS 2170–77	1	A 62					
46	Cap	1	WR531.106.00			–		
47	Bush	1	–			WR532.107.00		
(48)	Gasket BDS 9954–83	1	–			A 40x62x10		
(49)	Break “Lenze”	1	–			BFK 458 14N 180VDC		
(50)	Spring washer BDS 833–82/Zng	3	–			2 – 8H		
(51)	Screw BDS 2171–83/Zn	3	–			I M8x85 – 8.8		
(52)	Screw BDS 2171–83/Zn	1	–			I M6x20 – 8.8		
(53)	Spring washer BDS 833–82/Zng	1	–			2 – 6H		
54	Washer	1	–			WR532.108.01		
55	Safety ring	1	–			WR532.109.01		
(56)	Key DIN 6885A	1	–			6x6x30		

1.1.3.4. Reducer WR**020 and WR**030 (fig. 1)

Table 1.6

Modification			WR**020			WR**030		
			A	B		A	B	
2-stage planetary reducer (complete)			WR631.000.11 WR631.000.12 WR631.000.13	WR632.000.11 WR632.000.12 WR632.000.13		WR731.000.12 WR731.000.13	WR732.000.12 WR732.000.13	
Transmission ratio - i			i1 = 55.0			i1 = 67.0		
Lifting height			H1 H2 H3 H4 H5	H1 H2 H3 H4 H5		H2, H4 – H7 H3	H2, H4 – H7 H3	
Pos.	Designation	QTY	Part number					
1	Flange	1	WR631.002.00			WR731.002.00		
2	Rubber ring	1	WR631.006.00			WR731.006.00		
3 (4)	Tooth rim	1	WR631.001.00			WR731.001.00		
(6)	Stopper BDS 2527–71	1	M 6x16 – 8.8 WR631.331.00 WR631.332.00 6218 WR631.301.00 6218 N B 75 B 55 B 40 A 80 6208			M 6x20 – 8.8 WR731.331.00 WR731.333.00 6222 WR731.332.00 6222 B 110 B 65 B 50 A 110 6310		
(7)	Spring washer BDS 833–82/Zng	8						
[8]	Screw BDS 2171–83/Zn	8						
[9]	Geared bush	1						
(10)	Space bush	1						
11	Ball bearing DIN 625	1						
(12)	Space bush	1						
(13)	Ball bearing DIN 625	1						
(14)	Ring BDS 2170–77	1						
(15)	Ring BDS 2170–77	1						
(16)	Ring BDS 2170–77	5						
(17)	Ring BDS 2170–77	5						
[18]	Ball bearing DIN 625	8						
[19]	Planetary gear	2	WR631.211.10			WR731.211.10		
[20]	Axle	2	WR631.221.00			WR731.221.00		
21	Planet carrier I	1	WR631.222.10			WR731.222.10		
22	Sun gear	1	WR631.201.00			WR731.201.00		
[23]	Planetary gear	3	WR631.311.00			WR731.311.00		
[24]	Axle	3	WR631.321.00			WR731.321.00		
(25)	Planet carrier II	1	WR631.322.00			WR731.322.00		
(26)	Ball bearing DIN 625	1	6206			6207		
(27)	Ring BDS 2170–77	1	A 62			A 72		
28	Gasket BDS 9954–83	1	B 30x62x10			B 35x72x12		
(29)	Rubber ring	1	WR631.008.00			WR731.008.00		
30	Bolt BDS 1230–72/Zn	6	I M8x16 – 5.6			–		
31	Safety pad	2	WR631.004.00			–		
(32)	Stop sector	2	WR631.003.00			–		
(33)	Spring washer BDS 833–82/Zng	8	2 – 10H			2 – 14H		
(34)	Screw BDS 2171–83/Zn	8	M 10x30 – 8.8			I M 14x35 – 8.8		
35	Gasket BDS 9954–83	1	B 130x160x15			B 150x200x15		
(36)	Cylindrical pin	2	WR631.005.00			WR731.005.00		
[61]	Ring BDS 2170–77	1	B 30			–		
[62]	Gearing I complete	1	WR631.200.10			WR731.200.10		
	Gearing II complete	1	WR631.300.00			WR731.300.00		
[63]	Shaft (complete)	Pos.	[63]	[65]		[63]	[65]	
[65]		1	WR631.100.11	WR632.100.11		WR731.100.12	WR732.100.12	
		1	WR631.100.12	WR632.100.12		WR731.100.13	WR732.100.13	
		1	WR631.100.13	WR632.100.13				
(4)	Stopper BDS 2527–71	1	IV conical 1/4"					
37	Shaft	1	WR631.102.11	WR632.102.11		WR731.102.12	WR732.102.12	
		1	WR631.102.12	WR632.102.12		WR731.102.13	WR732.102.13	
		1	WR631.102.13	WR632.102.13				
38	Adjusting bush	1	WR631.103.00			–		
39	Sun gear	1	WR631.104.00			–		
40	Space bush	1	WR631.105.00			–		
(41)	Ring BDS 2170–77	2	B 30			–		
		1	–			B 30		
(42)	Ring BDS 2170–77	2	A 62			A 72		
43	Cover	1	631 101 00			731 101 00		
(44)	Ball bearing BDS 4843–84	1	6206			6207		
(45)	Ring BDS 2170–77	1	A 62			A 72		
46	Cap	1	WR631.106.00			WR731.106.00		
47	Bush	1	–			–		
(48)	Gasket BDS 9954–83	1	WR632.107.00			–		
(49)	Break "Lenze"	1	A 40x62x10			–		
(50)	Spring washer BDS 833–82/Zng	3	BKF 458 16N 180VDC			–		
(51)	Screw BDS 2171–83/Zn	3	2 – 8H			–		
(52)	Screw BDS 2171–83/Zn	1	I M8x90 – 8.8			–		
(53)	Spring washer BDS 833–82/Zng	1	I M10x20 – 8.8			–		
54	Washer	1	2 – 10H			–		
55	Safety ring	1	WR632.108.00			–		
(56)	Key DIN 6885A	1	WR632.109.00			–		
			8x7x30			–		
			8x7x30			–		

1.2. 3-stage planetary reducer

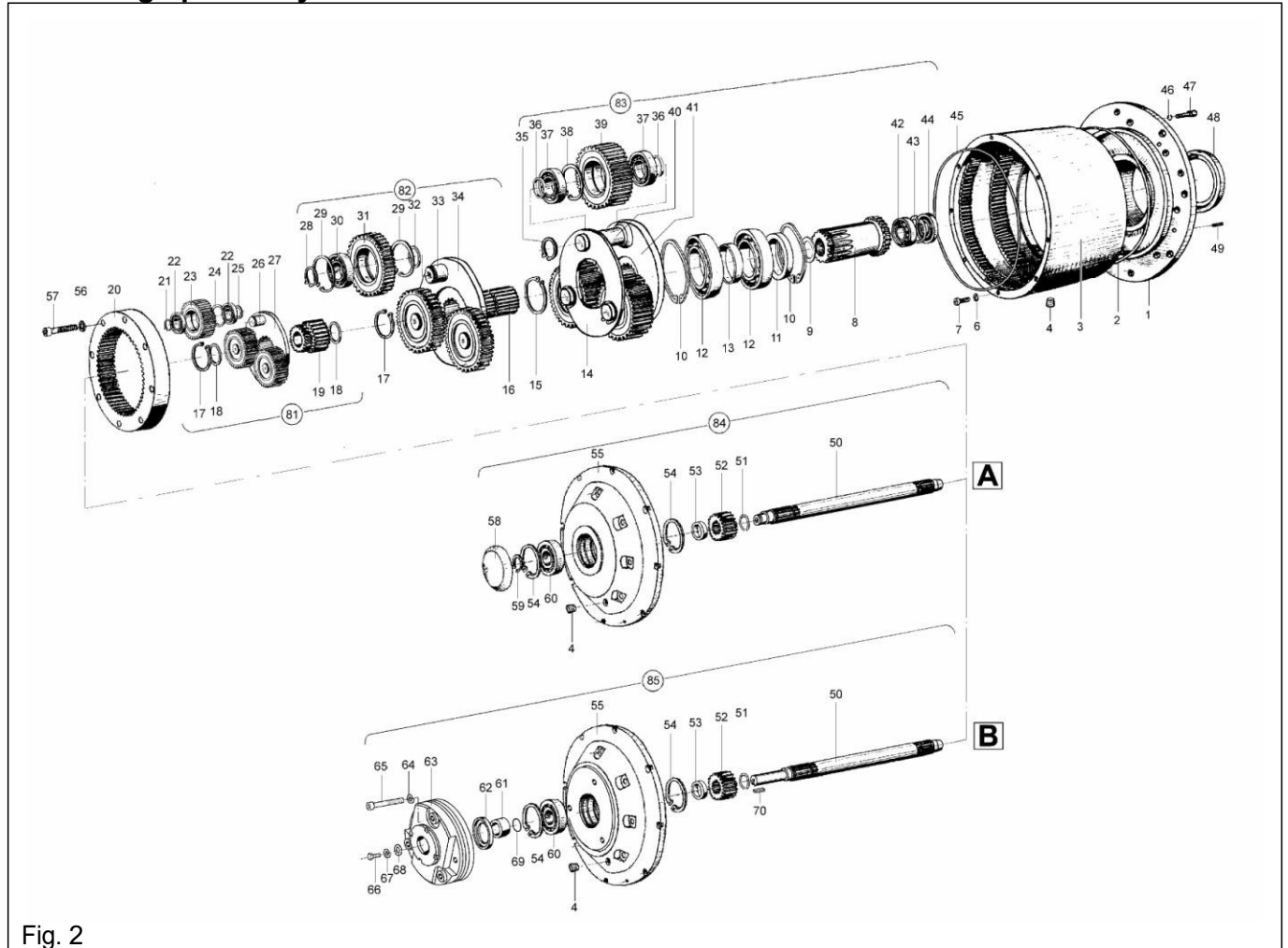


Fig. 2

1.2.1. Transmission ratio - i

Table 1.7

Size	Transmission ratio - i		Reducer											
	Index	Nomin	Modification A – without brake							Modification B – with brake				
			H2	H3	H4	H5	H6	H7	H2	H3	H4	H5	H6	H7
			Part number											
WR**030040	i ₁	102.7	WR731.000.22	WR731.000.23	WR731.000.22				WR732.000.22	WR732.000.23	WR732.000.22			
WR**030055	i ₂	135.2	WR731.000.32	WR731.000.33	WR731.000.32				WR732.000.32	WR732.000.33	WR732.000.32			
WR**030070	i ₃	155.0	WR731.000.42	WR731.000.43	WR731.000.42				WR732.000.42	WR732.000.43	WR732.000.42			

1.2.2. Reducer (fig. 2) and electric motor

Table 1.8

Size	V		Electric motor double-speed	Reducer			
	Ind.	m/min.		Modification A		Modification B	
				H2, H4 – H7	H3	H2, H4 – H7	H3
				Part number			
WR**030040	V1	16/2.4	P200 M7 - 24/4	WR731.000.22	WR731.000.23	WR732.000.22	WR732.000.23
WR**030055	V1	12.5/3.2	P200 M7 - 24/4	WR731.000.32	WR731.000.33	WR732.000.32	WR732.000.33
WR**030070	V1	10.5/2.6	P200 M7 - 24/4	WR731.000.42	WR731.000.43	WR732.000.42	WR732.000.43

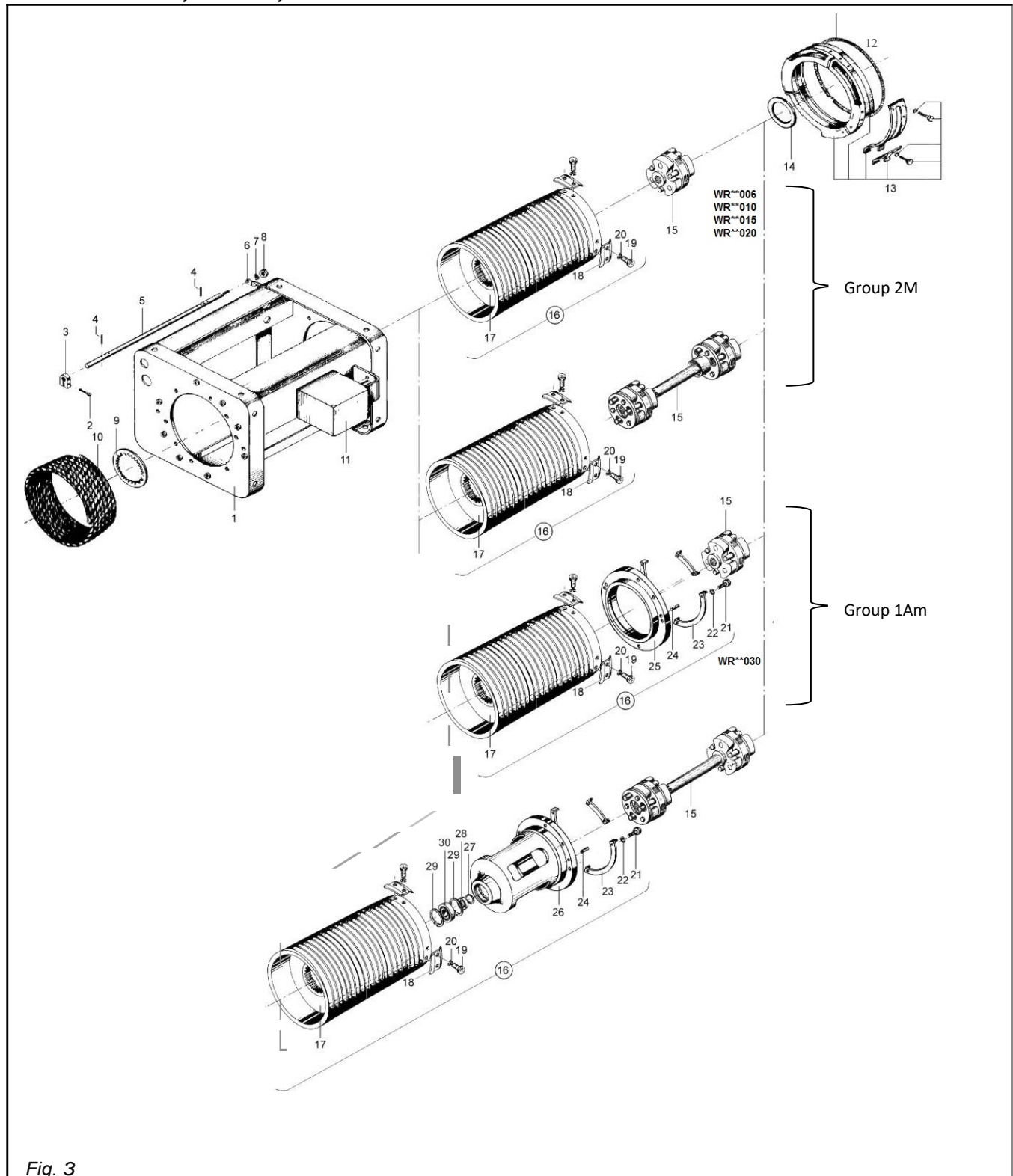
1.2.3. Details, available in all reducers, fig. 2

Table 1.9

Modification			A			B		
2-stage planetary reducer (complete)			WR731.000.22 WR731.000.23	WR731.000.32 WR731.000.33	WR731.000.42 WR731.000.43	WR732.000.22 WR732.000.23	WR732.000.32 WR732.000.33	WR732.000.42 WR732.000.43
Transmission ratio - i			i ₁ = 102.7	i ₂ = 135.2	i ₃ = 155.0	i ₁ = 102.7	i ₂ = 135.2	i ₃ = 155.0
Lifting height			H2, H4 – H7 H3	H2, H4 – H7 H3	H2, H4 – H7 H3	H2, H4 – H7 H3	H2, H4 – H7 H3	H2, H4 – H7 H3
Pos.	Designation	QTY	Part number					
1	Flange	1	WR731.301.00					
2	Safety ring	1	WR731.003.00					
3	Tooth rim	1	WR731.001.20					
(4)	Stopper BDS 2527–71	1	IV conical 1/4"					
(6)	Spring washer BDS 833–82/Zng	1	2 – 6H					
(7)	Screw BDS 2171–83/Zn	2	I M6x20 – 8.8					
8	Geared bush	1	WR731.331.20					
9	Adjusting bush	2	WR731.302.20					
(10)	Ring BDS 2170–77	1	A 200					
11	Space bush	1	WR731.333.00					
(12)	Ball bearing DIN 625	2	6222					
13	Bush	1	WR731.332.00					
14	Disc	2	WR731.301.20					
(15)	Ring BDS 2170–77	1	B 110					
16	Sun gear	1	WR731.201.20					
(17)	Ring BDS 2170–77	1	B 65					
18	Adjusting bush	1	WR731.302.21					
19	Sun gear	2	WR731.401.20					
20	Tooth flange	2	WR731.006.00					
21	Ring BDS 2170–77	1	B 25					
(22)	Ball bearing DIN 625	1	6005					
23	Planetary gear	3	WR731.411.20	WR731.410.30	WR731.410.40	WR731.411.20	WR731.410.30	WR731.410.40
(24)	Ring BDS 2170–77	6	A 47					
25	Space bush	3	WR731.202.22					
[26]	Axle	3	WR731.421.20					
[27]	Planet carrier	3	WR731.422.20	WR731.422.30	WR731.422.40	WR731.422.20	WR731.422.30	WR731.422.40
(28)	Ring BDS 2170–77	3	B 35					
(29)	Ring BDS 2170–77	1	A 100					
(30)	Ball bearing DIN 625	3	6407					
31	Planetary gear	6	WR731.211.20					
32	Space bush	3	WR731.202.20					
[33]	Axle	3	WR731.221.20					
[34]	Planet carrier II	3	WR731.222.20					
(35)	Ring BDS 2170–77	3	B 50					
36	Bush Distance	1	WR731.202.21					
(37)	Ball bearing DIN 625	3	6310					
(38)	Ring BDS 2170–77	6	A 110					
39	Planetary gear	6	WR731.311.20					
[40]	Axle	3	WR731.321.20					
[41]	Planet carrier III	3	WR731.322.20					
(42)	Ball bearing DIN 625	3	6207					
(43)	Ring BDS 2170–77	1	A 72					
(44)	Gasket BDS 9954–84	1	B 35x72x12					
45	Safety ring	1	WR731 005 00					
(46)	Spring washer BDS 833–82/Zng	1	2 – 14H					
(47)	Screw BDS 2171–83/Zn	1	I M14x35 – 8.8					
(48)	Gasket BDS 9954–84	1	B 150x200x15					
49	Cylindrical pin	2	WR731.004.00					
[81]	Gearing I complete	1	WR731.400.20	WR731.400.30	WR731.400.40	WR731.400.20	WR731.400.30	WR731.400.40
[82]	Gearing II complete	2	WR731.200.20					
[83]	Gearing III complete	1	WR731.300.20					
[84]	Shaft (complete)	Pos.	[84]			[85]		
[85]		1	WR731.100.22	WR731.100.32	WR731.100.42	WR732.100.22	WR732.100.32	WR732.100.42
		1	WR731.100.23	WR731.100.33	WR731.100.43	WR732.100.23	WR732.100.33	WR732.100.43
50	Shaft	1	WR731.103.22	WR731.103.32	WR731.103.42	WR732.103.22	WR732.103.32	WR732.103.42
		1	WR731.103.23	WR731.103.33	WR731.103.43	WR732.103.23	WR732.103.33	WR732.103.43
51	Ring	1	WR731.104.00					
52	Sun gear	1	WR731.102.20	WR731.102.30	WR731.102.40	WR731.102.20	WR731.102.30	WR731.102.40
53	Space bush	1	WR731.202.00					
(54)	Ring BDS 2170–77	2	A 72					
55	Cover	1	WR731.101.20			WR732.101.20		
(56)	Spring washer BDS 833–82/Zng	8	2 – 6H					
(57)	Screw BDS 2171–83/Zn	8	I M6x16 – 8.8					
58	Cap	1	WR731.103.00			–		
(59)	Ring BDS 2170–77	1	B 35			–		
(60)	Ball bearing DIN 625	1	6207					
			IV conical 1/4"					

(4)	Stopper BDS 2527-71	1	-	WR732.107.00
61	Bush	1	-	A 45x72x10
(62)	Gasket BDS 9954-83	1	-	BFK 458 18N 180VDC
(63)	Break "Lenze"	1	-	2 - 8H
(64)	Spring washer BDS 833-82/Zng	6	-	I M8x95 - 8.8
65	Screw BDS 2171-83/Zn	6	-	I M10x25 - 8.8
(66)	Screw BDS 2171-83/Zn	1	-	2 - 10H
(67)	Spring washer BDS 833-82/Zng	1	-	WR732.108.00
68	Washer	1	-	WR732.109.00
69	Safety ring	1	-	8x7x30

2. BODY WITH SWITCHING-OFF SYSTEM, DRUM, ROPE GUIDE, ROPE, CLUTCH COMPLETE



2.1. Size WR**006 (dr = 7 mm), group 2M (fig. 3)

Table 2.1

Pos.	Designation	S	QTY	Reduced headroom					Normal headroom				
				H1	H2	H3	H4	H5	H1	H2	H3	H4	H5
				Part number									
[1]	Body with load limiter	2/1	1	WR372.000.11	WR372.000.12	WR372.000.13	WR372.000.14	WR372.000.15	WR372.000.21	WR372.000.22	WR372.000.23	WR372.000.24	WR372.000.25
		4/1	1	-	-	WR374.000.13	WR374.000.14	WR374.000.15	-	-	WR374.000.23	WR374.000.24	WR374.000.25
[1]	Body without load limiter	2/1	1	WR372.000.11	WR372.000.12	WR372.000.13	WR372.000.14	WR372.000.15	WR372.100.21	WR372.100.22	WR372.100.23	WR372.100.24	WR372.100.25
		4/1	1	-	-	WR374.100.13	WR374.100.14	WR374.100.15	-	-	WR374.100.23	WR374.100.24	WR374.100.25
(2)	Bolt BDS 1230-85/Zn		2	IM 6x20 – 5.6									
3	Racket		2	WR370.001.00									
(4)	Cotter pin BDS 55-77		2	2.5x14									
5	Rod		1	WR370.002.11	WR370.002.12	WR370.002.13	WR370.002.14	WR370.002.15	WR370.002.21	WR370.002.22	WR370.002.24	WR370.002.24	WR370.002.25
5	Rod-micro speed		1	WR370.003.11	WR370.003.12	WR370.003.13	WR370.003.14	WR370.003.15	WR370.003.21	WR370.003.22	WR370.003.23	WR370.003.24	WR370.003.25
6	Fork – micro speed		1	WR370.004.00									
(7)	Spring washer BDS 833-82/Zng		1	2 – 6H									
(8)	Nut BDS 744-91/Zn		1	M 6 – 5									
9	Adjusting washer		*	WR370.005.00									
10	Rope	2/1	1	WR372.008.01	WR372.008.02	WR372.008.03	WR372.008.04	WR372.008.05	WR372.008.01	WR372.008.02	WR372.008.03	WR372.008.04	WR372.008.05
		4/1	1	-	-	WR374.008.03	WR374.008.04	WR374.008.05	-	-	WR374.008.03	WR374.008.04	WR374.008.05
[11]	Load limiter type HOT 05	2/1	1	WR362.300.00									
		4/1	1	WR364.300.00									
12	Spring		1	WR370.210.00									
[13]	Rope guide		1	WR370.200.10					WR370.200.20				
14	Adjusting washer		*	WR370.007.00									
[15]	Clutch complete		1	WR320.000.00			WR320.000.04	WR320.000.05	WR320.000.00			WR320.000.04	WR320.000.05
[16]	Drum complete, (Pos. 17 – 20)		1	WR340.000.01	WR340.000.02	WR340.000.03	WR340.000.04	WR340.000.05	WR340.000.01	WR340.000.02	WR340.000.03	WR340.000.04	WR340.000.05
[17]	Drum		1	WR340.100.01	WR340.100.02	WR340.100.03	WR340.100.04	WR340.100.05	WR340.100.01	WR340.100.02	WR340.100.03	WR340.100.04	WR340.100.05
18	Platte		3	WR370.006.00									
(19)	Screw BDS 2171-83/Zn		6	M 6x14 – 8.8									
(20)	Spring washer BDS 833-82/Zng		6	2 – 6H									

2.2. Size WR**010 (dr = 10 mm), group 2M (fig. 3)

Table 2.2

Pos.	Designation	S	QTY	Reduced headroom					Normal headroom				
				H1	H2	H3	H4	H5	H1	H2	H3	H4	H5
				Part number									
[1]	Body with load limiter	2/1	1	WR472.000.11	WR472.000.12	WR472.000.13	WR472.000.14	WR472.000.15	WR472.000.21	WR472.000.22	WR472.000.23	WR472.000.24	WR472.000.25
		4/1	1	-	-	WR474.000.13	WR474.000.14	WR474.000.15	-	-	WR474.000.23	WR474.000.24	WR474.000.25
[1]	Body without load limiter	2/1	1	WR472.000.11	WR472.000.12	WR472.000.13	WR472.000.14	WR472.000.15	WR472.100.21	WR472.100.22	WR472.100.23	WR472.100.24	WR472.100.25
		4/1	1	-	-	WR474.100.13	WR474.100.14	WR474.100.15	-	-	WR474.100.23	WR474.100.24	WR474.100.25
(2)	Bolt BDS 1230-85/Zn		2	IM 6x20 – 5.6									
3	Racket		2	WR370.001.00									
(4)	Cotter pin BDS 55-77		2	2.5x14									
5	Rod		1	WR470.002.11	WR470.002.12	WR470.002.13	WR470.002.14	WR470.002.15	WR470.002.21	WR470.002.22	WR470.002.23	WR470.002.24	WR470.002.25
6	Fork		1	WR570.004.00									
(7)	Spring washer BDS 833-82/Zng		1	2 – 6H									
(8)	Nut BDS 744-91/Zn		1	M 6 – 5									
9	Adjusting washer		*	WR570.005.00									
10	Rope	2/1	1	WR472.008.01	WR472.008.02	WR472.008.03	WR472.008.04	WR472.008.05	WR472.008.01	WR472.008.02	WR472.008.03	WR472.008.04	WR472.008.05
		4/1	1	-	-	WR474.008.03	WR474.008.04	WR474.008.05	-	-	WR474.008.03	WR474.008.04	WR474.008.05
[11]	Load limiter type HOT 10	2/1	1	WR462.300.00									
		4/1	1	WR464.300.00									
12	Spring		1	WR470.210.00									
[13]	Rope guide		1										
		for WR**010	1	WR471.200.10					WR471.200.20				
		for WR**010	1	WR470.200.10					WR470.200.20				
14	Adjusting washer		*	WR570.007.00									
[15]	Clutch complete		1	WR420.000.00			WR420.000.04	WR420.000.05	WR420.000.00			WR420.000.04	WR420.000.05
[16]	Drum complete, (Pos. 17 – 20)												
		For WR**010	1	WR441.100.01	WR441.100.02	WR441.100.03	WR441.100.04	WR441.100.05	WR441.100.01	WR441.100.02	WR441.100.03	WR441.100.04	WR441.100.05
		For WR**010	1	WR440.000.01	WR440.000.02	WR440.000.03	WR440.000.04	WR440.000.05	WR440.000.01	WR440.000.02	WR440.000.03	WR440.000.04	WR440.000.05
[17]	Drum												
		For WR**010	1	WR441.100.01	WR441.100.02	WR441.100.03	WR441.100.04	WR441.100.05	WR441.100.01	WR441.100.02	WR441.100.03	WR441.100.04	WR441.100.05
		For WR**010	1	WR440.100.01	WR440.100.02	WR440.100.03	WR440.100.04	WR440.100.05	WR440.100.01	WR440.100.02	WR440.100.03	WR440.100.04	WR440.100.05
18	Platte		3	WR570.006.00									
	Screw BDS 2171-83/Zn		6	M 10x25 – 8.8									
(20)	Spring washer BDS 833-82/Zng		6	2 – 10H									

2.3. Size WR**0015 (dr = 12 mm), group 2M (fig. 3)

Table 2.3

Pos.	Designation	S	QTY	Reduced headroom					Normal headroom				
				H1	H2	H3	H4	H5	H1	H2	H3	H4	H5
				Part number									
[1]	Body with load limiter	2/1	1	WR572.000.11	WR572.000.12	WR572.000.13	WR572.000.14	WR572.000.15	WR572.000.21	WR572.000.22	WR572.000.23	WR572.000.24	WR572.000.25
		4/1	1	-	-	WR574.00.13	WR574.100.14	WR574.100.15	-	-	WR574.000.23	WR574.000.24	WR574.00.25
[1]	Body without load limiter	2/1	1	WR572.000.11	WR572.000.12	WR572.000.13	WR572.000.14	WR572.000.15	WR572.100.21	WR572.100.22	WR572.100.23	WR572.100.24	WR572.100.25
		4/1	1	-	-	WR574.100.13	WR574.100.14	WR574.100.15	-	-	WR574.100.23	WR574.100.24	WR574.100.25
(2)	Bolt BDS 1230-85/Zn		2	IM 6x20 – 5.6									
3	Racket		2	WR370.001.00									
(4)	Cotter pin BDS 55-77		2	2.5x14									
5	Rod		1	WR570.002.11	WR570.002.12	WR570.002.13	WR570.002.14	WR570.002.15	WR570.002.21	WR570.002.22	WR570.002.23	WR570.002.24	WR570.002.25
6	Fork		1	WR570.004.00									
(7)	Spring washer BDS 833-82/Zng		1	2 – 6H									
(8)	Nut BDS 744-91/Zn		1	M 6 - 5									
9	Adjusting washer		*	WR570.005.00									
10	Rope	2/1	1	WR572.008.01	WR572.008.02	WR572.008.03	WR572.008.04	WR572.008.05	WR572.008.01	WR572.008.02	WR572.008.03	WR572.008.04	WR572.008.05
		4/1	1	-	-	WR574.008.03	WR574.008.04	WR574.008.05	-	-	WR574.008.03	WR574.008.04	WR574.008.05
[11]	Load limiter type HOT 16	2/1	1	WR562.300.00									
		4/1	1	WR564.300.00									
12	Spring			WR570.210.00									
[13]	Rope guide												
		For WR**015	1	WR571.200.10					WR571.200.20				
		For WR**015	1	WR571.200.10					WR570.200.20				
14	Adjusting washer		*	WR570.007.00									
[15]	Clutch complete		1	WR520.000.00			WR520.000.04	WR520.000.05	WR520.000.00			WR520.000.04	WR520.000.05
[16]	Drum complete, (Pos. 17 – 20)												
	For WR**015		1	WR541.100.01	WR541.100.02	WR541.100.03	WR541.100.04	WR541.100.05	WR541.100.01	WR541.100.02	WR541.100.03	WR541.100.04	WR541.100.05
	For WR**015		1	WR540.000.01	WR540.000.02	WR540.000.03	WR540.000.04	WR540.000.05	WR540.000.01	WR540.000.02	WR540.000.03	WR540.000.04	WR540.000.05
[17]	Drum												
		For WR**015	1	WR541.100.01	WR541.100.02	WR541.100.03	WR541.100.04	WR541.100.05	WR541.100.01	WR541.100.02	WR541.100.03	WR541.100.04	WR541.100.05
	For WR**015		1	WR540.100.01	WR540.100.02	WR540.100.03	WR540.100.04	WR540.100.05	WR540.100.01	WR540.100.02	WR540.100.03	WR540.100.04	WR540.100.05
18	Platte		3	WR570.006.00									
(19)	Screw BDS 2171-83/Zn		6	M 10x30 – 8.8									
(20)	Spring washer BDS 833-82/Zng		6	2 – 10H									

2.4. Size WR**020 (dr = 15 mm), group 2M (fig. 3)

Table 2.4

Pos.	Designation	S	QTY	Reduced headroom						Normal headroom					
				H2	H3	H4	H5	H6	H7	H2	H3	H4	H5	H6	H7
				Part number											
[1]	Body without load limiter	2/1	1	WR672.000.12	WR672.000.13	WR672.000.14	WR672.000.15	WR672.000.16	WR672.000.17	WR672.000.22	WR672.000.23	WR672.000.24	WR672.000.25	WR672.000.26	WR672.000.27
		4/1	1	-	WR674.000.13	WR674.000.14	WR674.000.15	WR674.000.16	WR674.000.17	-	WR674.000.23	WR674.000.24	WR674.000.25	WR674.000.26	WR674.000.27
[1]	Body without load limiter	2/1	1	WR672.000.12	WR672.000.13	WR672.000.14	WR672.000.15	WR672.000.16	WR672.000.17	WR672.100.22	WR672.100.23	WR672.100.24	WR672.100.25	WR674.100.26	WR674.100.27
		4/1	1	-	WR674.100.13	WR674.100.14	WR674.100.15	WR674.100.16	WR674.100.17	-	WR674.100.23	WR674.100.24	WR674.100.25	WR674.100.26	WR674.100.27
(2)	Bolt BDS 1230-85/Zn		2	IM 6x20 – 5.6											
3	Racket		2	WR370.001.00											
(4)	Cotter pin BDS 55-77		2	2.5x14											
5	Rod		1	WR670.002.12	WR670.002.13	WR670.002.14	WR670.002.15	WR670.002.16	WR670.002.17	WR670.002.22	WR670.002.23	WR670.002.24	WR670.002.25	WR670.002.26	WR670.002.27
6	Fork		1	WR670.004.00											
(7)	Spring washer BDS 833-82/Zng		1	2 – 6H											
(8)	Nut BDS 744-91/Zn		1	M 6 – 5											
9	Adjusting washer		*	WR670.005.00											
10	Rope	2/1	1	WR672.008.02	WR672.008.03	WR672.008.04	WR672.008.05	WR672.008.06	WR672.008.07	WR672.008.02	WR672.008.03	WR672.008.04	WR672.008.05	WR672.008.06	WR672.008.07
		4/1	1	-	WR674.008.03	WR674.008.04	WR674.008.05	WR674.008.06	WR674.008.07	-	WR674.008.03	WR674.008.04	WR674.008.05	WR674.008.06	WR674.008.07
[11]	Load limiter type HOT 25	2/1	1	WR662.300.00											
		4/1	1	WR664.300.00											
12	Spring		1	WR6740.210.00											
[13]	Rope guide		1	WR670.200.10						WR670.200.20					
14	Adjusting washer		*	WR670.007.00											
[15]	Clutch complete		1	WR620.000.00		WR620.000.04	WR620.000.05	WR620.000.06	WR620.000.07	WR620.000.00		WR620.000.04	WR620.000.05	WR620.000.06	WR620.000.07
[16]	Drum complete, (Pos. 17 – 20)		1	WR640.000.02	WR640.000.03	WR640.000.04	WR640.000.05	WR640.000.06	WR640.000.07	WR640.000.02	WR640.000.03	WR640.000.04	WR640.000.05	WR640.000.06	WR640.000.07
[17]	Drum		1	WR640.100.02	WR640.100.03	WR640.100.04	WR640.100.05	WR640.100.06	WR640.100.07	WR640.100.02	WR640.100.03	WR640.100.03	WR640.100.05	WR640.100.06	WR640.100.07
18	Platte		3	WR670.006.00											
(19)	Screw BDS 2171-83/Zn		6	M 12x30 – 8.8											
(20)	Spring washer BDS 833-82/Zng		6	2 – 12H											

2.5. Size WR**030 (dr = 18 mm), group 1Am (fig. 3)

Table 2.5

Pos.	Designation	S	QTY	Reduced headroom						Normal headroom					
				H2	H3	H4	H5	H6	H7	H2	H3	H4	H5	H6	H7
				Part number											
[1]	Body with load limiter	2/1	1	WR772.000.12	WR772.000.13	WR772.000.14	WR772.000.15	WR772.000.16	WR772.000.17	WR772.000.22	WR772.000.23	WR772.000.24	WR772.000.25	WR772.000.26	WR772.000.27
		4/1	1	-	-	WR774.000.14	WR774.000.15	WR774.000.16	WR774.000.17	-	-	WR774.000.24	WR774.000.25	WR774.000.26	WR774.000.27
[1]	Body without load limiter	2/1	1	WR772.000.12	WR772.000.13	WR772.000.14	WR772.000.15	WR772.000.16	WR772.000.17	WR772.100.22	WR772.100.23	WR772.100.24	WR772.100.25	WR772.100.26	WR772.100.27
		4/1	1	-	-	WR774.100.14	WR774.100.15	WR774.100.16	WR774.100.17	-	-	WR774.100.24	WR774.100.25	WR774.100.26	WR774.100.27
(2)	Bolt BDS 1234-85/Zn		2	IM 6x20 – 5.6											
3	Racket		2	WR370.001.00											
(4)	Cotter pin BDS 55-77		2	2.5x16											
5	Rod		1	WR770.002.12	WR770.002.13	WR770.002.14	WR770.002.15	WR770.002.16	WR770.002.17	WR770.002.22	WR770.002.23	WR770.002.24	WR770.002.25	WR770.002.26	WR770.002.27
6	Fork		1	WR770.004.00											
(7)	Spring washer BDS 833-82/Zng		1	2 – 6H											
(8)	Nut BDS 744-91/Zn		1	M 6 – 5											
9	Adjusting washer		*	WR670.005.00											
		2/1	1	WR772.008.02	WR772.008.03	WR772.008.04	WR772.008.05	WR772.008.06	WR772.008.07	WR772.008.02	WR772.008.03	WR772.008.04	WR772.008.05	WR772.008.06	WR772.008.07
10	Rope	4/1	1	-	-	WR774.008.04	WR774.008.05	WR774.008.06	WR774.008.07	-	-	WR774.008.04	WR774.008.05	WR774.008.06	WR774.008.07
[11]	Load limiter type HOT 40	2/1	1	WR762.300.00											
		4/1	1	WR764.300.00											
12	Spring		1	WR770.210.00											
[13]	Rope guide		1	WR770.200.10						WR770.200.20					
14	Adjusting washer		*	WR770.007.00											
[15]	Clutch complete		1	WR720.000.00		WR720.000.04	WR720.000.05	WR720.000.06	WR720.000.07	WR720.000.00		WR720.000.04	WR720.000.05	WR720.000.06	WR720.000.07
[16]	Drum complete, (Pos. 17 – 25)		1	WR740.000.02	WR740.000.03	-				WR740.000.02	WR740.000.03	-			
[16]	Drum complete (Pos. 17-24,26-30)		1	-		WR740.000.04	WR740.000.05	WR740.000.06	WR740.000.07	-		WR740.000.04	WR740.000.05	WR740.000.06	WR740.000.07
[17]	Drum		1	WR740.100.02	WR740.100.03	WR740.100.04	WR740.100.05	WR740.100.06	WR740.100.07	WR740.100.02	WR740.100.03	WR740.100.04	WR740.100.05	WR740.100.06	WR740.100.07
18	Platte		3	WR770.006.00											
(19)	Screw BDS 2171-83/Zn		6	M 16x40 – 8.8											
(20)	Spring washer BDS 833-82/Zng		6	2 – 16H											
(21)	Bolt BDS 1234-85/Zn		6	M 12x35 – 5.6											
(22)	Spring washer BDS 833-82/Zng		6	2 – 16H											
23	Adjusting washer		3	WR770.009.00											
24	Pin		2	WR770.010.00											
25	Flange		1	WR770.011.00		-				WR770.011.00		-			
26	Casette		1	-		WR770.301.00				-		WR770.301.00			
(27)	Ring BDS 2170-77		1	B 35											
28	Bush		1	WR770.302.00											
(29)	Ring BDS 2170-77		2	A 72											
(30)	Ball bearing Din 625		1	6207											

3. REEVING

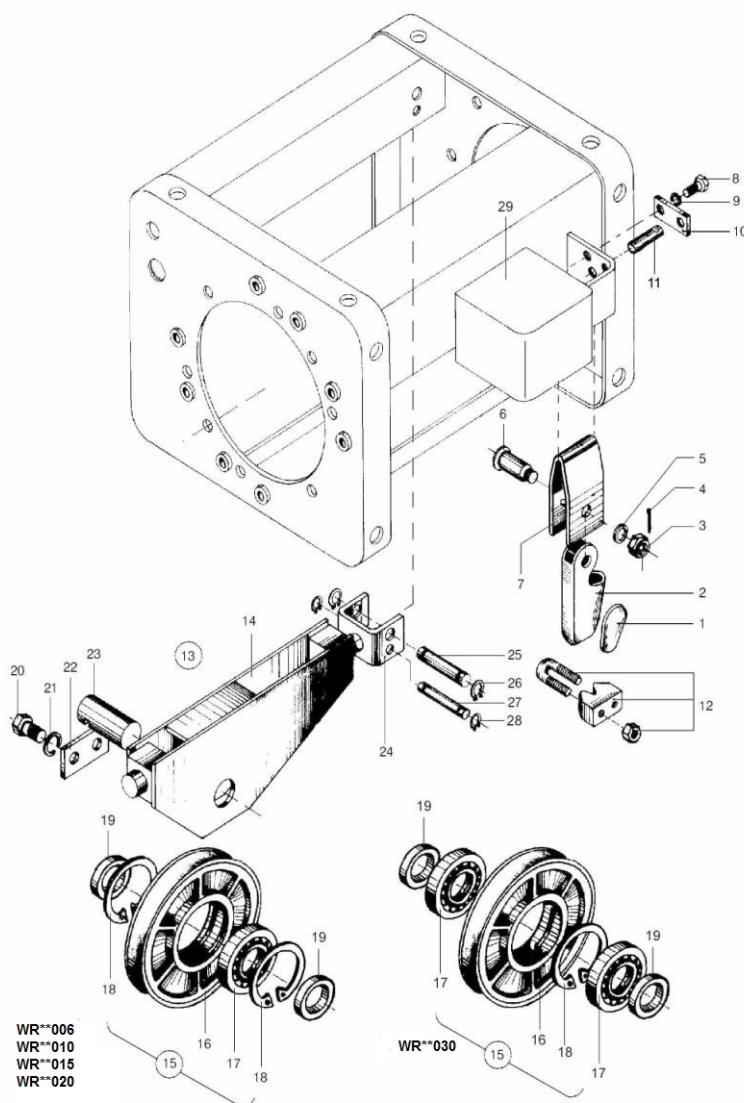


Fig. 4

3.1. Fixing the rope to the body (fig. 4)

Table 3.1

					WR**006	WR**010	WR**015	WR**020	WR**030
		Headroom			7	10	12	15	18
		normal	reduced						
Pos.	Designation	Reeving		QTY	Part number				
1	Wedge	2/1, 4/1	4/1	1	WR364.006.00	WR464.006.00	WR564.006.00	WR664.006.00	WR764.006.00
2	Wedge bush	2/1, 4/1	4/1	1	WR364.005.00	WR464.005.00	WR464.005.00	WR664.005.00	WR764.005.00
(3)	Nut BDS 745–82/Zn	2/1, 4/1	4/1	1	M 16 – 5	M 16 – 5	M 16 – 5	M 16 – 5	M 20 – 5
(4)	Cotter pin BDS 55–77	2/1, 4/1	4/1	1	2x20	4x20	4x20	4x30	4x35
5	Washer BDS 206–78/Zn	2/1, 4/1	4/1	1	A 16	A 16	A 16	A 16	A 20
6	Axle	2/1, 4/1	4/1	1	WR364.009.00	WR464.009.00	WR464.009.00	WR664.009.00	WR764.009.00
7	Platte	2/1, 4/1	4/1	1	WR364.004.00	WR464.004.00	WR464.004.00	WR664.004.00	WR764.004.00
(8)	Bolt BDS 1234–85/Zn	2/1, 4/1	4/1	2	M 6x12 – 5.6	M 6x12 – 5.6	M 6x12 – 5.6	M 6x12 – 5.6	M 6x12 – 5.6
(9)	Spring washer BDS 833–82/Zng	2/1, 4/1	4/1	2	2 – 6H	2 – 6H	2 – 6H	2 – 6H	2 – 6H
10	Fixing plate	2/1, 4/1	4/1	1	WR364.002.00	WR364.002.00	WR364.002.00	WR364.002.00	WR364.002.00
11	Axle	2/1, 4/1	4/1	1	WR364.003.00	WR464.003.00	WR464.003.00	WR664.003.00	WR764.003.00
(12)	Clamp DIN 1142, No	2/1, 4/1	4/1	1	8	10	13	16	19

Note: The details, fixing the rope to the body of hoists reduced headroom, reeving 2/1, are as shown in tables 8.2.

3.2. Traverse with roller complete – Reeving 4/1 (fig. 4)

Table 3.2

Size			WR**006	WR**010	WR**015	WR**020	WR**030
Rope diameter – mm			7	10	12	15	18
Pos.	Designation	QTY	Part number				
13	Traverse with roller (Pos. 14, 15, 20 ÷ 23)	1	Table 3.3				
[14]	Traverse	1	Table 3.3				
(15)	Roller complete (Pos. 16 ÷ 18)	1	WR364.120.00	WR464.120.00	WR564.120.00	WR664.120.00	WR764.120.00
16	Roller	1	WR364.121.00	WR464.121.00	WR564.121.00	WR664.121.00	WR764.121.00
(17)	Ball bearing DIN 625	1	6207–2RS	6210–2RS	6212–2RS	6312–2RS	–
	Ball bearing DIN 625	2	–	–	–	–	6312–2RS
(18)	Ring BDS 2170–77	2	A 72	A 90	A 110	A 130	–
	Ring BDS 2170–77	1	–	–	–	–	A 130
19	Space bush	2	WR364.101.00	WR464.101.00	WR564.101.00	WR664.101.00	WR764.101.00
(20)	Bolt BDS 1234–85/Zn	2	IM 10x16 – 5.6	IM 10x16 – 5.6	IM 10x16 – 5.6	IM 10x22 – 5.6	IM 12x25 – 5.6
(21)	Spring washer BDS 833–82/Zng	2	2 – 10H	2 – 10H	2 – 10H	2 – 10H	2 – 12H
22	Fixing plate	1	WR364.103.00	WR464.103.00	WR564.103.00	WR664.103.00	WR764.103.00
23	Axle	1	WR364.102.00	WR464.102.00	WR564.102.00	WR664.102.00	WR764.102.00
Fixing for traverse with roller complete							
24	Bracket	1	WR364.001.00	WR464.001.00	WR564.001.00	WR664.001.00	WR764.001.00
25	Axle	1	WR364.007.00	WR464.007.00	WR464.007.00	WR664.007.00	WR764.007.00
(26)	Ring BDS 2170–77	2	B 20	B 22	B 22	B 25	B 28
27	Axle	1	WR364.008.00	WR464.008.00	WR464.008.00	WR664.008.00	WR764.008.00
(28)	Ring BDS 2170–77	2	B 12	B 14	B 14	B 16	B 18
[29]	Load limiter	2/1	WR362.300.00	WR462.300.00	WR562.300.00	WR662.300.00	WR762.300.00
		4/1	WR364.300.00	WR464.300.00	WR564.300.00	WR664.300.00	WR764.300.00

3.3. Traverse with roller – Pos. 13 (fig. 4)

Table 3.3

Lifting height			H3	H4	H5	H6	H7
Pos.	Designation	QTY	Part number				
Size WR**006							
[13]	Traverse with roller, complete (Pos. 14, 15, 20 ÷ 23)	1	WR364.100.03	WR364.100.04	WR364.100.05	—	—
[14]	Traverse	1	WR364.110.03	WR364.110.04	WR364.110.05	—	—
Size WR**010							
[13]	Traverse with roller, complete (Pos. 14, 15, 20 ÷ 23)	1	WR464.100.03	WR464.100.04	WR464.100.05	—	—
[14]	Traverse	1	WR464.110.03	WR464.110.04	WR464.110.05	—	—
Size WR**015							
[13]	Traverse with roller, complete (Pos.14, 15, 20 ÷ 23)	1	WR564.100.03	WR564.100.04	WR564.100.05	WR564.100.06	—
[14]	Traverse	1	WR564.110.03	WR564.110.04	WR564.110.05	WR564.110.06	—
Size WR**020							
[13]	Traverse with roller, complete (Pos.14, 15, 20 ÷ 23)	1	WR664.100.03	WR664.100.04	WR664.100.05	WR664.100.06	WR664.100.07
[14]	Traverse	1	WR664.110.03	WR664.110.04	WR664.110.05	WR664.110.06	WR664.110.07
Size WR**030							
[13]	Traverse with roller, complete (Pos.14, 15, 20 ÷ 23)	1	—	WR764.100.04	WR764.100.05	WR764.100.06	WR764.100.07
[14]	Traverse	1	—	WR764.110.04	WR764.110.05	WR764.110.06	WR764.110.07

4. CLUTCH

4.1. Clutches for lifting height H1, H2 and H3 (fig. 5)

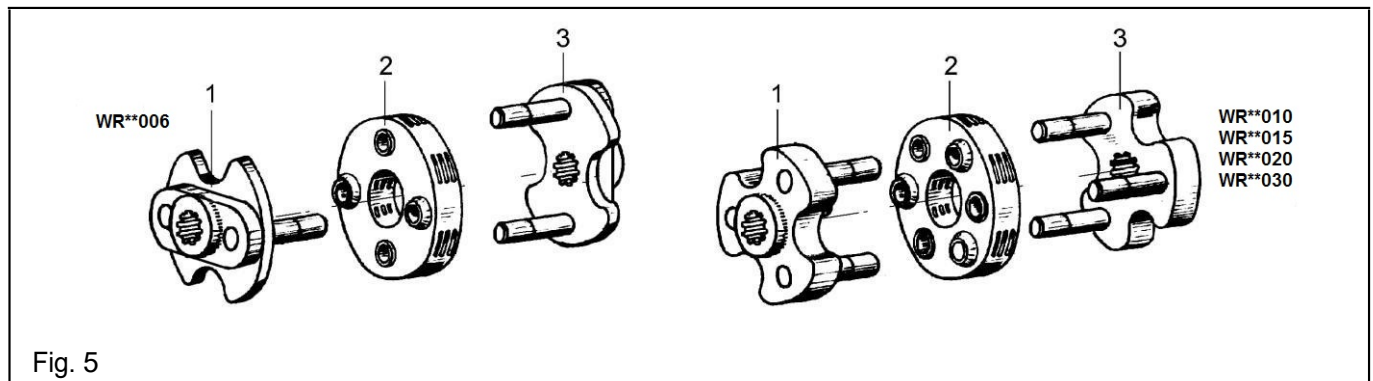


Table 4.1

Size			WR**006	WR**010	WR**015	WR**020	WR**030
Lifting height			H1, H2, H3	H1, H2, H3	H1, H2, H3	H2, H3	H2, H3
Pos.	Designation	QTY	Part number				
-	Clutch complete, fig. 5	1	WR320.000.00	WR420.000.00	WR520.000.00	WR620.000.00	WR720.000.00
[1]	Disc	1	WR320.010.00	WR420.010.00		WR620.010.00	WR720.010.00
[2]	Elastic body	1	WR320.030.00	WR420.030.00	WR520.030.00	WR620.030.00	WR720.030.00
[3]	Disc	1	WR320.020.00	WR420.020.00		WR620.020.00	WR720.020.00

4.2. Clutches for lifting height H4 ... H7 (fig. 6)

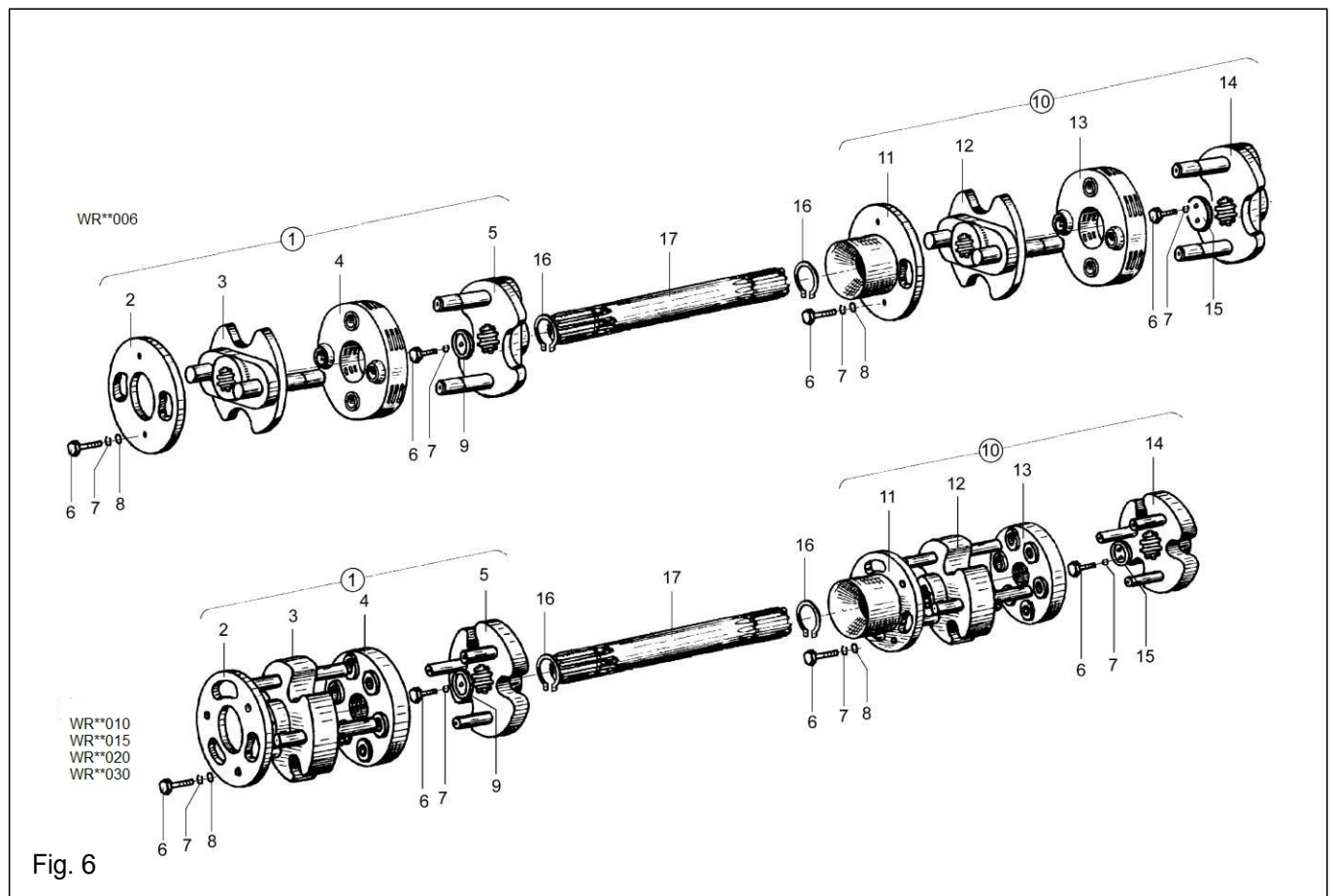


Table 4.2

Size			WR**006		WR**010		WR**015			WR**020				WR**030			
Lifting height			H4	H5	H4	H5	H4	H5	H6	H4	H5	H6	H7	H4	H5	H6	H7
Pos.	Designation	QTY	Part number														
-	Clutch complete, fig. 6	1	WR320.000.04 WR320.000.05	WR420.000.04 WR420.000.05	WR520.000.04 WR520.000.05 WR520.000.06	WR620.000.04 WR620.000.05 WR620.000.06 WR620.000.07	WR720.000.04 WR720.000.05 WR720.000.06 WR720.000.07										
[1]	Clutch	1	WR321.000.00	WR421.000.00	WR521.000.00	WR621.000.00	WR721.000.00										
2	Cover	1	WR321.002.00	WR421.002.00	WR421.002.00	WR621.002.00	-										
[3]	Disc	1	WR320.040.00	WR420.040.00	WR520.040.00	WR620.040.00	WR720.040.00										
[4]	Elastic Body	1	WR320.030.00	WR420.030.00	WR520.040.00	WR620.030.00	WR720.040.00										
[5]	Disc	1	WR321.050.00	WR421.050.00	WR421.050.00	WR621.050.00	WR721.050.00										
(6)	Bolt BDS 1234-85/Zn	3	IM 6x15 – 5.6	-	-	-	-										
		4	-	IM 6x25 – 5.6	IM 6x25 – 5.6	IM 8x25 – 5.6	-										
(7)	Spring washer BDS 833-82/Zng	3	2 – 6H	-	-	-	-										
		4	-	2 – 6H	2 – 6H	2 – 8H	-										
(8)	Washer BDS 206-78/Zn	2	A M6	-	-	-	-										
		3	-	A M6	A M6	A M8	-										
9	Washer	1	WR321.004.00	WR421.004.00	WR421.004.00	WR621.004.00	-										
[10]	Clutch	1	WR322.000.00	WR422.000.00	WR522.000.00	WR622.000.00	WR722.000.00										
11	Cover	1	WR322.002.00	WR422.002.00	WR422.002.00	WR622.002.00	-										
[12]	Disc	1	WR320.040.00	WR420.040.00	WR520.040.00	WR620.040.00	WR720.040.00										
[13]	Elastic Body	1	WR320.030.00	WR420.030.00	WR520.030.00	WR620.030.00	WR720.030.00										
[14]	Disc	1	WR322.060.00	WR422.060.00	WR422.005.00	WR622.005.00	WR722.060.00										
15	Washer	1	WR322.005.00	WR422.005.00	WR422.005.00	WR622.005.00	-										
(6)	Bolt BDS 1234-85/Zn	4	IM 6x15 – 5.6	-	-	-	-										
		5	-	IM 6x25 – 5.6	IM 6x25 – 5.6	IM 8x25 – 5.6	-										
(7)	Spring Washer BDS 833-82/Zng	4	2 – 6H	-	-	-	-										
		5	-	2 – 6H	2-6H	2-8H	-										
(8)	Washer BDS 206-78/Zn	2	A M6	-	-	-	-										
		3	-	A M6	A M6	A M8	-										
(16)	Ring BDS 2170-77	2	B 20	B 25	B 25	B25	B 35										
17	Shaft	1	WR320.001.04 WR320.001.05	WR420.001.04 WR420.001.05	WR520.001.04 WR520.001.05 WR520.001.06	WR620.001.04 WR620.001.05 WR620.001.06 WR620.001.07	WR720.001.04 WR720.001.05 WR720.001.06 WR720.001.07										

4.3. Details, mounted to the electric motor (fig. 7)

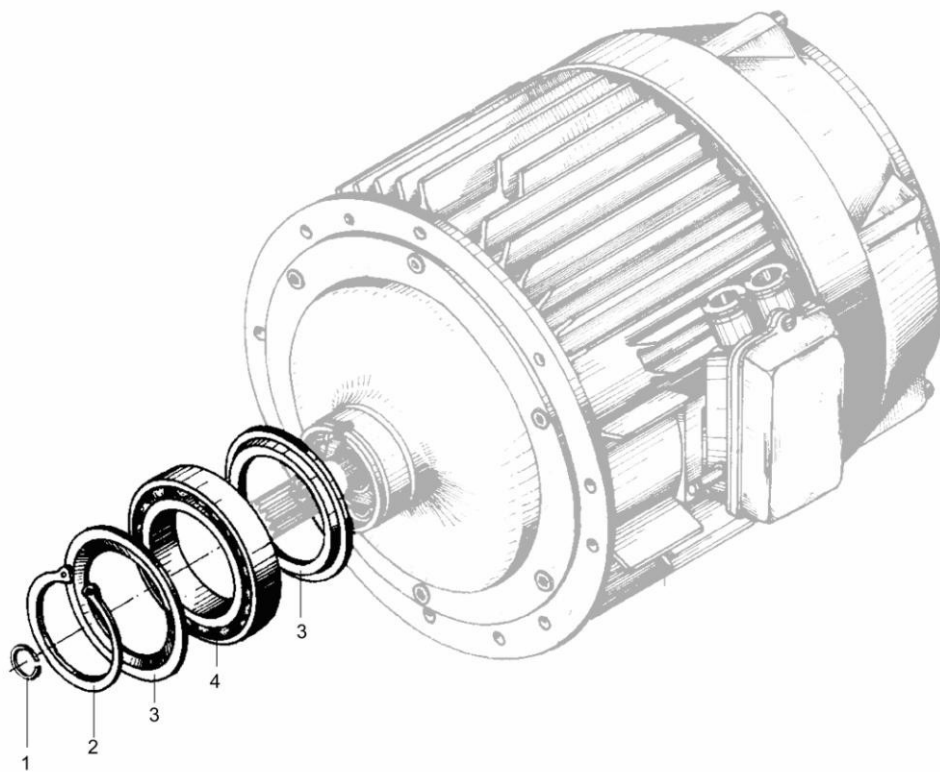


Fig. 7

Table 4.3

Size			WR**006	WR**010	WR**015	WR**020	WR**030
Pos.	Designation	QTY	Part number				
(1)	Ring BDS 2170-77	1	B 25	B 30	B 30	B 40	B 45
(2)	Ring BDS 2170-77	1	B 75	B 80	B 80	B 105	B 120
3	Washer	2	WR300.001.00	WR400.001.00	WR400.001.00	WR600.001.00	WR700.001.00
(4)	Ball bearing BDS 4843-84	1	6015	6016	6016	6021	6024

5. LOAD LIMITER, type HOT

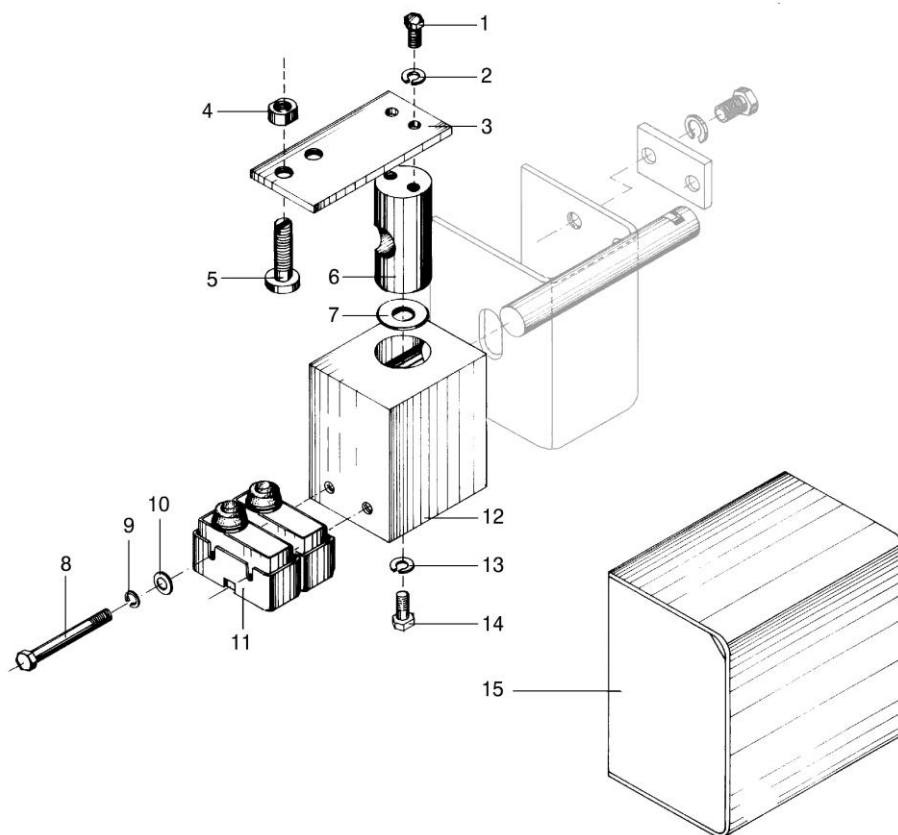


Fig. 8

Table 5.1

Size			WR**006		WR**010		WR**015		WR**020		WR**030	
Type			HOT 05		HOT 10		HOT 16		HOT 25		HOT 40	
Reeving			4/1	2/1	4/1	2/1	4/1	2/1	4/1	2/1	4/1	2/1
Pos.	Designation	QTY	Part number									
–	Load limiter, fig. 8	1	WR364.300.00 WR362.300.00		WR464.300.00 WR462.300.00		WR564.300.00 WR562.300.00		WR664.300.00 WR662.300.00		WR764.300.00 WR762.300.00	
(1)	Bolt BDS 1234–85/Zn	2	M 6x12 – 5.6									
(2)	Spring washer BDS 833–82/Zng	2	2 – 6H									
3	Platte	1	WR364.301.00 WR362.301.00		WR464.301.00 WR462.301.00		WR464.301.00 WR462.301.00		WR664.301.00 WR662.301.00		WR764.301.00 WR762.301.00	
(4)	Nut BDS 1250–83/Zn	2	M8 x 0,8 – 5									
5	Screw	2	WR364.303.00									
6	Piston	1	WR364.302.00		WR464.302.00		WR464.302.00		WR664.302.00		WR764.302.00	
7	Spring complete	1	WR364.320.00		WR464.320.00		WR564.320.00		WR664.320.00		WR764.320.00	
(8)	Screw BDS 832–83/Zn	2	1A M4x50 – 4.8									
(9)	Spring washer BDS 833–82/Zng	2	2 – 4H									
(10)	Washer BDS 206–78/Zn	2	A M 4									
(11)	End limiter switch	2	OMRON Z –15GK55									
12	Body	1	WR364.304.00		WR464.304.00		WR464.304.00		WR664.304.00		WR764.304.00	
(13)	Bolt BDS 1234–85/Zn	2	2M10x20 – 5.6									
(14)	Washer BDS 206–78/Zn	2	A M 10									
[15]	Cover	1	WR364.310.00		WR464.310.00		WR464.310.00		WR664.310.00		WR764.310.00	

6. HOOK SET

6.1. Hook complete for reeving 2/1 (fig. 9)

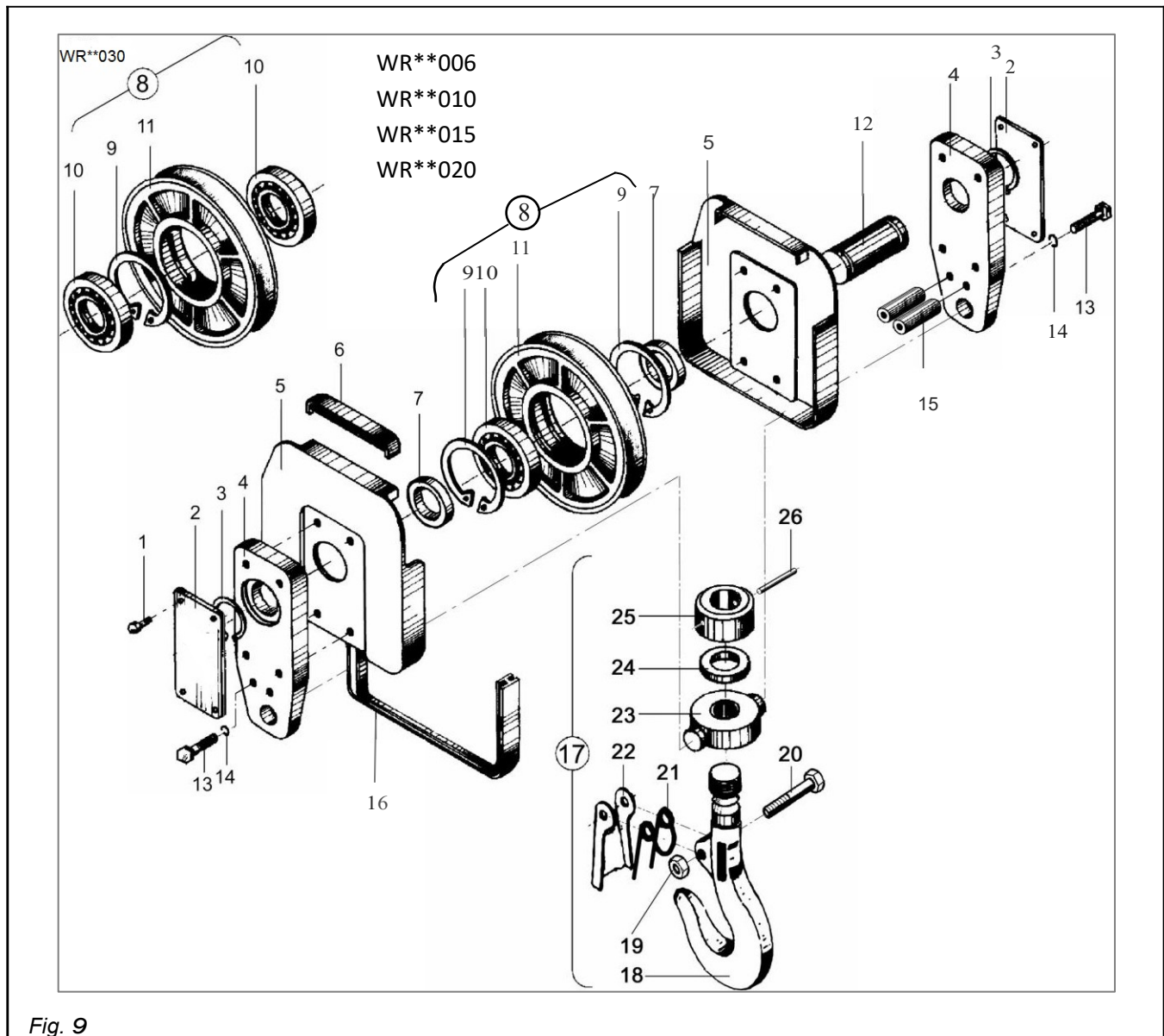


Table 6.1

Size			WR**006	WR**010	WR**015	WR**020	WR**030
Capacity, t			3	5	7.5	10	15
Group FEM 9.511 / DIN 15020			2m	2m	2m	2m	1Am
Hook number acc. to DIN 15400			0.5 S	1 S	1.6 S	2.5 S	4 S
Rope diameter – mm			7	10	12	15	18
Pos.	Designation	QTY	Part number				
–	Hook complete, fig. 9	1	WR362.200.00	WR462.200.00	WR562.200.00	WR662.200.00	WR762.200.00
(1)	Bolt BDS 1338–85/Zn	8	1B M4x5 – 5.8				
2	Plate	2	WR362.205.00	WR462.205.00	WR562.205.00	WR662.205.00	WR762.205.00
(3)	Ring BDS 2170–77	2	B 35	B 50	B 60	B 60	B 60
4	Platte	2	WR362.201.00	WR462.201.00	WR562.201.00	WR662.201.00	WR762.201.00
5	Cover	2	WR362.203.00	WR462.203.00	WR562.203.00	WR662.203.00	WR762.203.00
6	Profile	1	WR362.206.00	WR462.206.00	WR562.206.00	WR662.206.00	WR762.206.00
7	Bush	2	WR362.208.00	WR462.208.00	WR562.208.00	WR662.208.00	WR762.208.00
8	Roller complete (Pos. 9–11)	1	WR364.120.00	WR464.120.00	WR564.120.00	WR664.120.00	WR764.120.00
(9)	Ring BDS 2170–77	2	A 72	A 90	A 110	A 130	–
		1	–	–	–	–	A 130
(10)	Ball bearing DIN 625	1	6207 – 2RS	6210 – 2RS	6212 – 2RS	6312 – 2RS	–
		2	–	–	–	–	6312 – 2RS
11	Roller	1	WR364.121.00	WR464.121.00	WR564.121.00	WR664.121.00	WR764.121.00
12	Axle	1	WR362.204.00	WR462.204.00	WR562.204.00	WR662.204.00	WR762.204.00
(13)	Screw BDS 2171–83/Zn	2	M 6x70 – 8.8	M 8x85 – 8.8	M 10x95 – 8.8	M 10x105 – 8.8	M 12x130 – 8.8
(14)	Spring washer BDS 833–82/Zng	2	2 – 6H	2 – 8H	2 – 10H	2 – 10H	2 – 12H
15	Bush	2	WR362.207.00	WR462.207.00	WR562.207.00	WR662.207.00	WR762.207.00
16	Profile	1	WR362.202.00	WR462.202.00	WR562.202.00	WR662.202.00	WR762.202.00
[17]	Hook with traverse (Pos. 18 + 23)	1	WR362.210.00	WR462.210.00	WR562.210.00	WR662.210.00	WR762.210.00
18	Hook No: 0,5	1	WR362.211.00	–	–	–	–
	Hook No: 1	1	–	WR462.211.00	–	–	–
	Hook No: 1,6	1	–	–	WR562.211.00	–	–
	Hook No: 2,5	1	–	–	–	WR662.211.00	–
	Hook No: 4	1	–	–	–	–	WR762.211.00
19	Nut BDS 9731-81/Cd	1	M6	M6	M6	M6	M6
20	Screw BDS 1338–85/Zn	1	M6x30 – 5.6	M6x30 – 5.6	M6x40 – 5.6	M6x40 – 5.6	M6x40 – 5.6
21	Spring	1	WR362.215.00	WR462.215.00	WR562.215.00	WR662.215.00	WR662.215.00
22	Hook safety catch No: 0,5	1	WR362.216.00	–	–	–	–
	Hook safety catch No: 1	1	–	WR462.216.00	–	–	–
	Hook safety catch No: 1,6	1	–	–	WR562.216.00	–	–
	Hook safety catch No: 2,5	1	–	–	–	WR662.216.00	–
	Hook safety catch No: 4	1	–	–	–	–	WR762.216.00
23	Traverse	1	WR362.213.00	WR462.213.00	WR562.213.00	WR662.213.00	WR762.213.00
(24)	Bearing DIN 711	1	51105	51106	51107	51108	51210
25	Nut	1	WR362.214.00	WR462.214.00	WR562.214.00	WR662.214.00	WR762.214.00
(26)	Spring pin DIN 1481	1	4x50	4x50	6x60	8x65	10x85

6.2. Hook complete for reeving 4/1 (fig. 10)

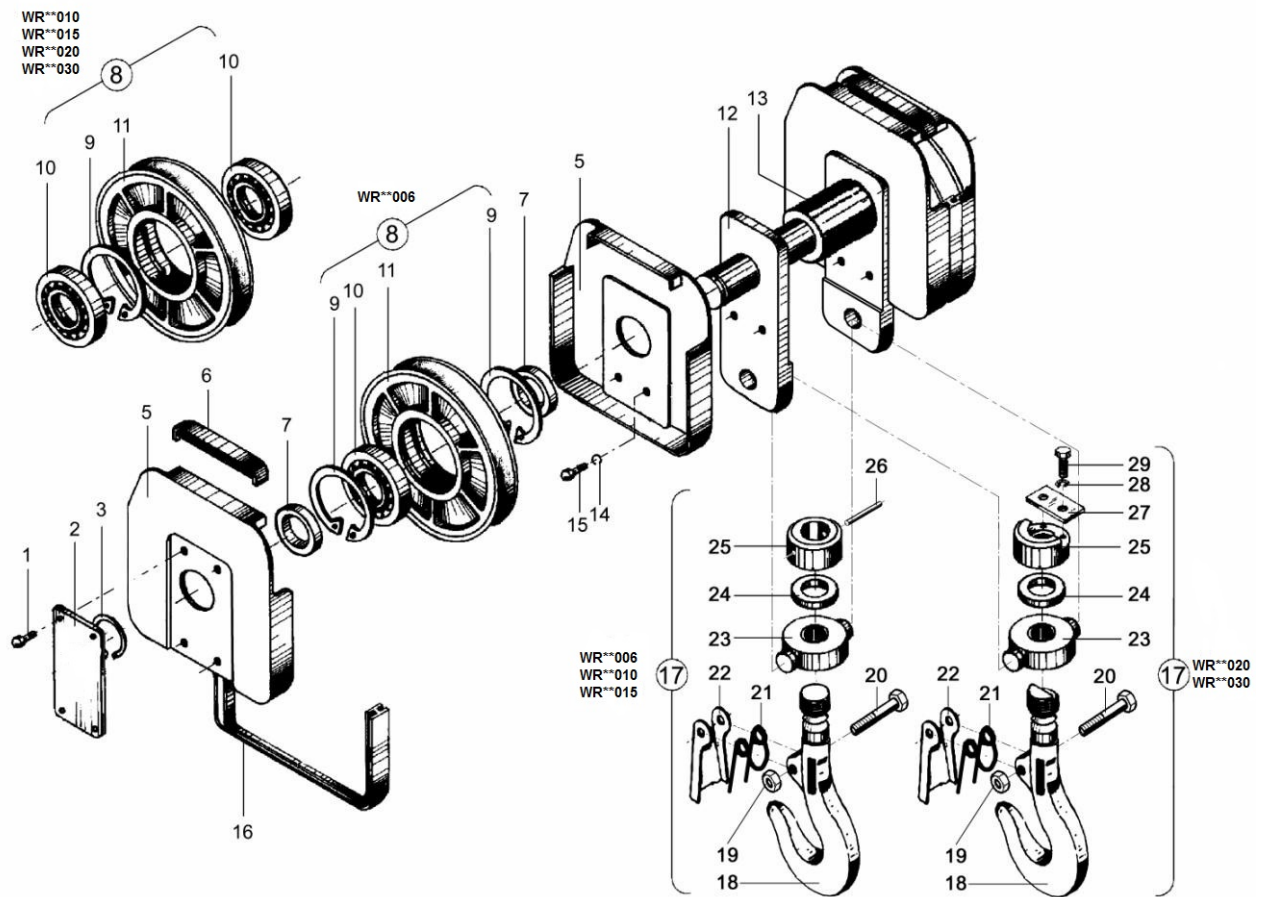


Fig.10

Table 6.2

Size			WR**006	WR**010	WR**015	WR**020	WR**030
Capacity, t			3	5	7.5	10	15
Group FEM 9.511 / DIN 15020			2m	2m	2m	2m	1Am
Hook number acc. to DIN 15400			1	2.5	4	6	6
Rope diameter – mm			7	10	12	15	18
Pos.	Designation	QTY	Part number				
–	Hook complete, fig. 10	1	WR364.200.00	WR464.200.00	WR564.200.00	WR664.200.00	WR764.200.00
(1)	Bolt BDS 1338–85/Zn	8	1B M4x5 – 8.8				
2	Plate	2	WR364.201.00	WR464.201.00	WR564.201.00	WR664.201.00	WR764.201.00
(3)	Ring BDS 2170–77	2	B 35	B 35	B 50	B 60	B 60
5	Cover	4	WR364.204.00	WR464.204.00	WR564.204.00	WR664.204.00	WR764.204.00
6	Profile	2	WR362.206.00	WR462.206.00	WR562.206.00	WR662.206.00	WR762.206.00
7	Bush	4	WR364.202.00	WR464.202.00	WR564.202.00	WR664.202.00	WR764.202.00
8	Roller complete (Pos. 9–11)	2	WR364.120.00	WR464.230.00	WR564.230.00	WR664.230.00	WR764.120.00
(9)	Ring BDS 2170–77	2	A 72	–	–	–	–
	Ring BDS 2170–77	1	–	A 72	A 90	A 110	A 130
(10)	Ball bearing DIN 625	1	6207 – 2RS	–	–	–	–
	Ball bearing DIN 625	2	–	6207 – 2RS	6210 – 2RS	6212 – 2RS	6312 – 2RS
11	Roller	1	WR364.121.00	WR464.231.00	WR564.231.00	WR664.231.00	WR764.121.00
12	Platte	2	WR364.205.00	WR464.205.00	WR564.205.00	WR664.205.00	WR764.205.00
13	Axle	1	WR364.203.00	WR464.203.00	WR564.203.00	WR664.203.00	WR764.203.00
(14)	Spring washer BDS 833–82/Zng	4	2 – 6H	2 – 6H	2 – 6H	2 – 6H	2 – 8H
15	Bolt BDS 1234–85/Zn	4	I M6x16 – 5.6	I M6x16 – 5.6	I M6x16 – 5.6	I M6x16 – 5.6	I M8x16 – 5.6
16	Profile	2	WR362.202.00	WR462.202.00	WR562.202.00	WR662.202.00	WR762.202.00
[17]	Hook with traverse (Pos. 18–29)	1	WR364.210.00	WR464.210.00	WR564.210.00	WR664.210.00	WR764.210.00
18	Hook No: 1	1	WR462.211.00	–	–	–	–
	Hook No: 2,5	1	–	WR662.211.00	–	–	–
	Hook No: 4	1	–	–	WR762.211.00	–	–
	Hook No: 6	1	–	–	–	WR664.211.00	–
	Hook No: 10	1	–	–	–	–	WR764.211.00
19	Nut BDS 9731-81/Cd	1	M6	M6	M6	M8	M8
20	Screw BDS 1338–85/Zn	1	M6x30 – 5.6	M6x40 – 5.6	M6x40 – 5.6	M8x55 – 5.6	M8x55 – 5.6
21	Spring	1	WR462.215.00	WR662.215.00	WR662.215.00	WR664.215.00	WR664.215.00
22	Hook safety catch No: 1	1	WR462.216.00	–	–	–	–
	Hook safety catch No: 2,5	1	–	WR662.216.00	–	–	–
	Hook safety catch No: 4	1	–	–	WR762.216.00	–	–
	Hook safety catch No: 6	1	–	–	–	WR664.216.00	–
	Hook safety catch No: 10	1	–	–	–	–	WR764.216.00
23	Traverse	1	WR364.213.00	WR464.213.00	WR564.213.00	WR664.213.00	WR764.213.00
(24)	Bearing DIN 711	1	51106	51108	51210	51214	51218
25	Nut	1	WR462.214.00	WR662.214.00	WR762.214.00	WR664.214.00	WR764.214.00
(26)	Spring pin DIN 1481	1	4x50	8x65	10x85	–	–
27	Platte	1	–	–	–	WR664.217.00	WR764.217.00
(28)	Spring washer BDS 833–82/Zng	2	–	–	–	2 – 10H	2 – 10H
(29)	Screw BDS 1234–85/Zn	2	–	–	–	I M10x20 – 5.6	I M10x20 – 5.6

7. TRAVEL MECHANISM - normal headroom

7.1. Travel mechanism without electric motor

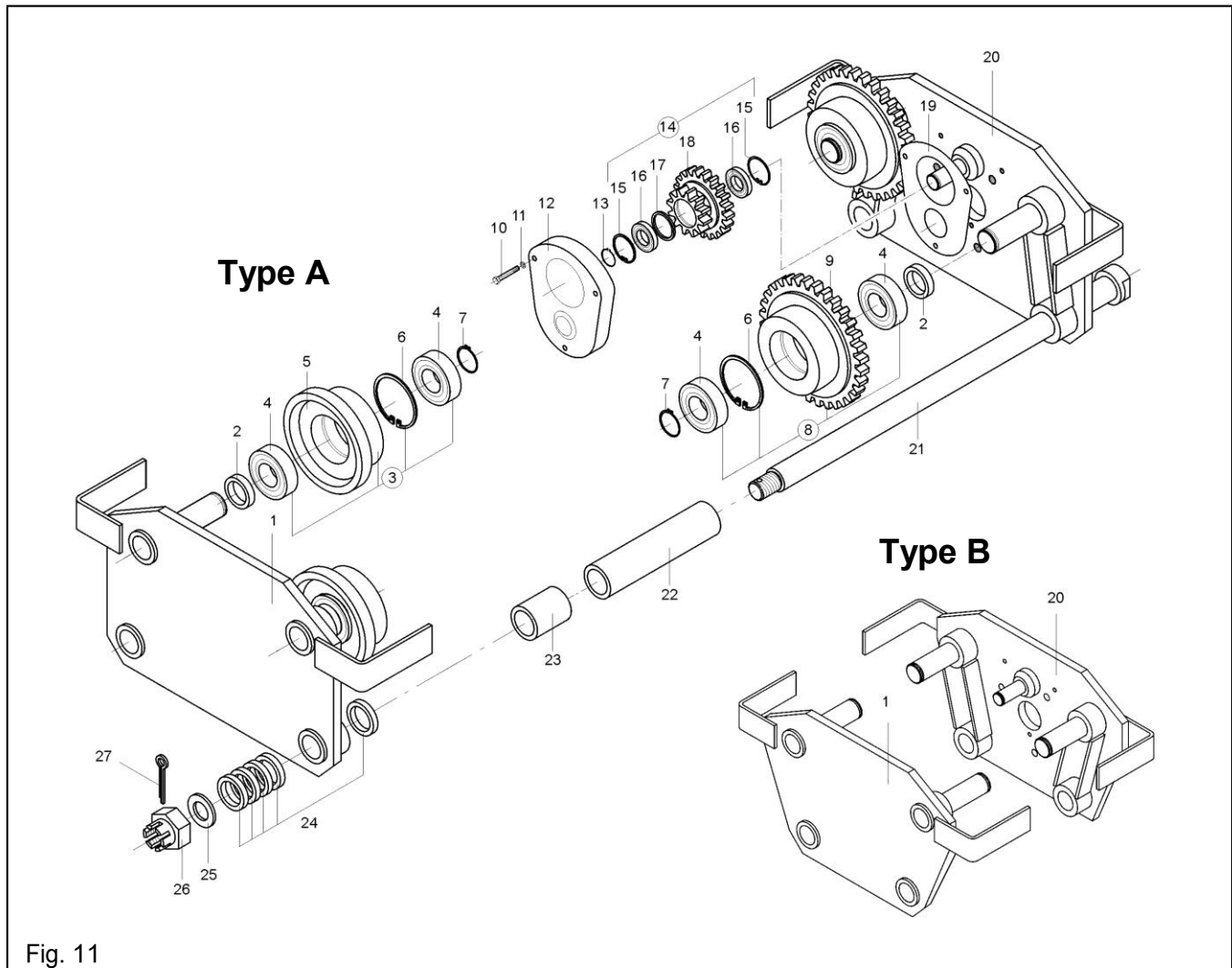


Fig. 11

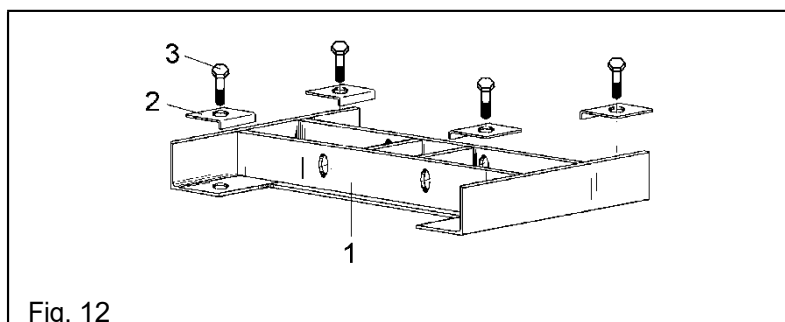


Fig. 12

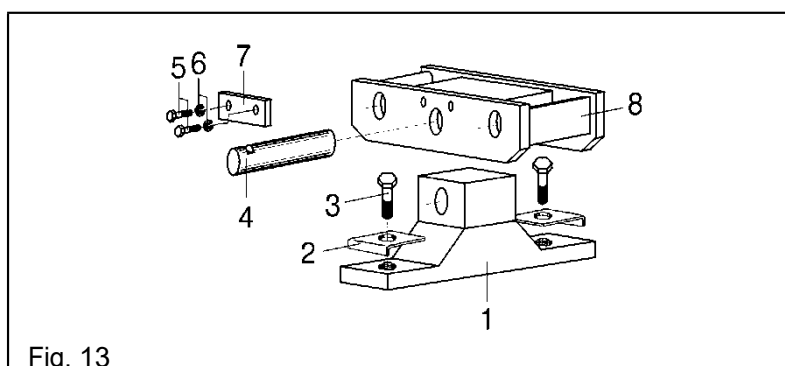


Fig. 13

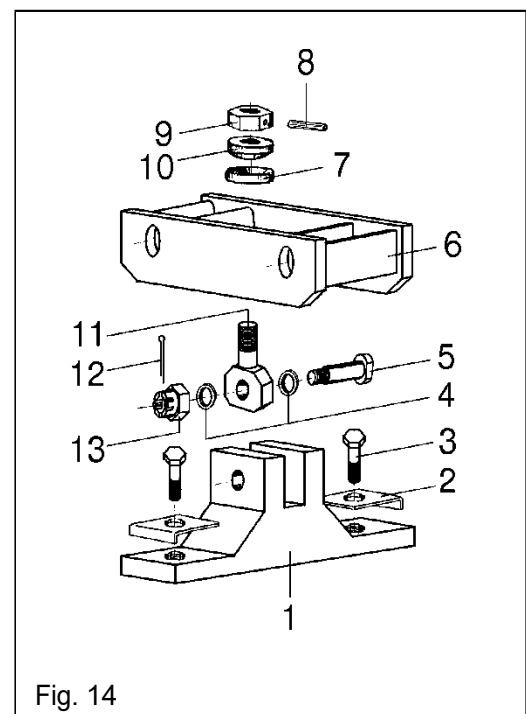


Fig. 14

Table 7.1

Size	Reeving			2/1							4/1			
	Lifting height			H1	H2	H3	H4	H5	H6	H7	H3	H4	H5	
	Fig.	Designation		Part number										
WR**006	-	Technical data	Capacity, t	1.5						-	2			
			Quantity of trolleys	1				2			1	2		
	11	Travel mechanism complete, Pos. 1 ÷ 27	Type	B		A		B			A	B		
			D _{sk} , mm	100							125	100		
			Profile	b ₁ =90...160 b ₂ =160...230 b ₃ =230...300	WR101.100.01	WR101.100.12		WR101.100.01			WR121.100.12	WR101.100.01		
					WR102.100.01	WR102.100.12		WR102.100.01			WR122.100.12	WR102.100.01		
			WR103.100.01	WR103.100.12		WR103.100.01		WR123.100.12	WR103.100.01					
	12	Trolley complete	Frame	WR11.200.01	WR100.200.02	WR100.200.03		-			WR125.200.04	-		
	Non-hinge		-						WR100.300.04		-	WR100.300.04		
Hinge										WR100.400.04			WR100.400.04	
WR**010	-	Technical data	Capacity, t	2.5						-	5			
			Quantity of trolleys	1				2			1	2		
	11	Travel mechanism complete, Pos. 1 ÷ 27	Type	B		A		B			A	B		
			D _{sk} , mm	125							125			
			Profile	b ₁ =130...190 b ₂ =190...250 b ₃ =250...300	WR121.100.01	WR121.100.12		WR121.100.01			WR121.100.12	WR121.100.01		
					WR122.100.01	WR122.100.12		WR122.100.01			WR122.100.12	WR122.100.01		
			WR123.100.01	WR123.100.12		WR123.100.01		WR123.100.12	WR123.100.01					
	12	Trolley complete	Frame	WR125.200.01	WR125.200.02	WR125.200.03		-			WR125.200.05	-		
	Non-hinge		-						WR125.300.04		-	WR125.300.04		
Hinge										WR125.400.04			WR125.400.04	
WR**015	-	Technical data	Capacity, t	3.75						-	7.5			
			Quantity of trolleys	1				2			1	2		
	11	Travel mechanism complete, Pos. 1 ÷ 27	Type	B		A		B			A	B		
			D _{sk} , mm	125							160	125		
			Profile	b ₁ =130...190 b ₂ =190...250 b ₃ =250...300	WR122.100.01	WR121.100.12		WR121.100.01			WR161.100.12	WR121.100.01		
					WR122.100.01	WR122.100.12		WR122.100.01			WR162.100.12	WR122.100.01		
			WR123.100.01	WR123.100.12		WR123.100.01		WR163.100.12	WR123.100.01					
	12	Trolley complete	Frame	WR126.200.01	WR126.200.02	WR126.200.03		-			WR160.200.04	-		
	Non-hinge		-						WR125.300.04		-	WR125.300.04		
Hinge										WR125.400.04			WR125.400.04	
WR**020	-	Technical data	Capacity, t	5						-	10			
			Quantity of trolleys	1				2			2			
	11	Travel mechanism complete, Pos. 1 ÷ 27	Type	B		A		B			B			
			D _{sk} , mm	160							125		160	
			Profile	b ₁ =150...200 b ₂ =200...250 b ₃ =250...300	WR161.100.01	WR161.100.12		WR121.100.01			WR161.100.01			
					WR162.100.01	WR162.100.12		WR122.100.01			WR162.100.01			
			WR163.100.01	WR163.100.12		WR123.100.01		WR163.100.01						
	12	Trolley complete	Frame	-	WR160.200.02	WR160.200.03		-			-			
	Non-hinge		-						WR125.300.05		160.300.03			
Hinge										WR125.400.05		160.400.03		
WR**030	-	Technical data	Capacity, t	-	7.5						-			
			Quantity of trolleys		2									
	11	Travel mechanism complete, Pos. 1 ÷ 27	Type		B									
			D _{sk} , mm		160									
			Profile		b ₁ =150...200 b ₂ =200...250 b ₃ =250...300	WR161.100.01 WR162.100.01 WR163.100.01								
						-								
	12	Trolley complete	Frame		WR160.300.02									
	Non-hinge		WR160.400.02											
			Hinge		WR160.400.02									

7.1.1. Trolley (fig. 11)

Table 7.2

Travel mechanism		b1 b2 b3	WR101.100.01 WR102.100.01 WR103.100.01	WR101.100.12 WR102.100.12 WR103.100.12	WR121.100.01 WR122.100.01 WR123.100.01	WR121.100.12 WR122.100.12 WR123.100.12	WR161.100.01 WR162.100.01 WR163.100.01	WR161.100.12 WR162.100.12 WR163.100.12
Type			B	A	B	A	B	A
Pos.	Designation	QTY	Part number					
[1]	Driven side wall with axles	1	WR100.140.00	WR100.140.10	WR125.140.00	WR125.140.10	WR160.140.00	WR160.140.10
2	Space bush	4	WR100.101.00		WR125.101.00		WR160.101.00	
[3]	Driven travel wheel, complete (Pos. 4 + 6)	2	WR100.150.00		WR125.150.00		WR160.150.00	
(4)	Ball bearing Din 625	8	6305 - RS		6307 - RS		6309 - RS	
5	Driven travel wheel	2	WR100.151.00		WR125.151.00		WR160.151.00	
(6)	Ring BDS 2170-77	4	A 62		A 80		A 100	
(7)	Ring BDS 2170-77	4	B 25		B 35		B 45	
[8]	Driving travel wheel, complete (Pos. 4 + 6)	2	WR100.130.00		WR125.130.00		WR160.130.00	
9	Driving travel wheel	2	WR100.131.00		WR125.131.00		WR160.131.00	
(10)	Bolt BDS 1234-85/Zn	3	M 6x30 – 5.6		M 6x30 – 5.6		M 6x30 – 5.6	
(11)	Spring washer BDS 833-82/Zng	3	2 – 6H		2 – 6H		2 – 6H [12]	
	Cover 1		WR100.160.00		WR125.160.00		WR160.160.00	
(13)	Ring BDS 2170-77	1	B 17		B 20		B 20	
[14]	Gear, complete (Pos. 15+18)	1	WR100.120.00		WR125.120.00		WR160.120.00	
(15)	Ring BDS 2170-77	1	A 40		A 47		A 47 (16)	
	Ball bearing DIN 625	2	6203 - RS		6204 - RS		6204 - RS	
17	Space bush	1	WR100.106.00		WR125.122.00		WR125.122.00	
18	Gear	1	WR100.121.00		WR125.121.00		WR160.121.00	
19	Gasket	1	WR100.104.00		WR125.104.00		WR160.104.00	
[20]	Driving side wall with axis	1	WR100.110.00	WR100.110.10	WR125.110.00	WR125.110.10	WR160.110.00	WR160.110.10
21	Stud	b1 b2 b3	2	WR101.102.00 WR102.102.00 WR103.102.00	WR121.102.00 WR122.102.00 WR123.102.00		WR161.102.00 WR162.102.00 WR163.102.00	
22	Bush	2	WR100.103.01		WR125.103.01		WR160.103.01	
23	Bush	2	WR100.103.02		WR125.103.02		WR160.103.02	
24	Bush	42	WR100.103.03		-		-	
		30	-		WR125.103.03		-	
		36	-		-		WR160.103.03	
(25)	Washer BDS 206-78/Zn	2	A M 24		A M 30		A M 42	
(26)	Nut BDS 1272-82/Zn	2	M 24 – 8		M 30 – 8		M 42 – 8	
(27)	Cotter pin BDS 55-77	2	5x45		6x60		8x80	

7.1.2. Travel mechanism with one trolley (fig. 12)

Table 7.3

Size				WR**006		WR**010		WR**015		WR**020
Reeving				2/1	4/1	2/1	4/1	2/1	4/1	2/1
Pos.	Designation	QTY	Lifting height	Part number						
1	Frame	1	H1 H2 H3	WR100.200.01 WR100.200.02 WR100.200.03	- - WR125.200.04	WR125.200.01 WR125.200.02 WR125.200.03	- - WR125.200.05	WR126.200.01 WR126.200.02 WR126.200.03	- - WR160.200.04	- WR160.200.02 WR160.200.03
(2)	Washer BDS 1275-74	4	H1 – H3	14 – 2		20 – 2		20 – 2		24 – 2
(3)	Bolt BDS 1234-75/Zn	4	H1 – H3	M 14x50-5.6		M 20x60-5.6		M 20x60-5.6		M 24x70-5.6

7.1.3. Travel mechanism with two trolley's - non-hinge (fig. 13)

Table 7.4

Size			WR**006	WR**010; WR**015	WR**020		WR**030
Reeving			2/1; 4/1	2/1; 4/1	2/1	4/1	2/1
Lifting height			H4, H5	H4, H5	H4 – H7	H3 – H5	H2 – H7
Pos.	Designation	QTY	Part number				
	Trolley complete, Pos. 1 8	1	WR100.300.04	WR125.300.04	WR125.300.05	WR160.300.03	WR160.300.02
1	Bracket	1	WR100.301.00	WR125.301.00	WR125.301.10	WR160.301.10	WR160.301.00
(2)	Washer BDS 1275–74/Zn	4	14 – 2	20 – 2	24 – 2		24 – 2
(3)	Bolt BDS 1234–75/Zn	4	M 14x50 – 5.6	M 20x60 – 5.6	M 24x70 – 5.6		M 24x80 – 5.6
4	Axle	2	WR100.302.00	WR125.302.000	WR125.302.00	WR160.302.00	WR160.302.00
(5)	Bolt BDS 1234–75/Zn	4	M 8x16 – 5.6	M 10x20 – 5.6	M 10x20 – 5.6	M 12x20 – 5.6	M 12x20 – 5.6
(6)	Spring washer BDS 833–82/Zng	4	2 – 8H	2 – 10H	2 – 10H	2 – 12H	2 – 12H
(7)	Fixing plate BDS 2348–81	2	25	35	35	45	45
8	Frame	1	WR100.310.00	WR125.310.00	WR125.310.00	WR160.310.00	WR160.310.00

7.1.4. Travel mechanism with two trolley's - hinge (fig. 14)

Table 7.5

Size			WR**006	WR**010; WR**015	WR**020		WR**030
Reeving			2/1; 4/1	2/1; 4/1	2/1	4/1	2/1
Lifting height			H4, H5	H4, H5	H4 – H7	H3 – H5	H2 – H7
Pos.	Designation	QTY	Part number				
	Trolley complete, Pos. 1 13	1	WR100.400.04	WR125.400.04	WR125.400.05	WR160.400.03	WR160.400.02
1	Bracket	1	WR100.401.00	WR125.401.00	WR125.401.10	WR160.401.10	WR160.401.00
(2)	Washer BDS 1275–74/Zn	4	14 – 2	20 – 2	24 – 2		24 – 2
(3)	Bolt BDS 1234–75/Zn	4	M 14x50 – 5.6	M 20x60 – 5.6	M 24x70 – 5.6		M 24x80 – 5.6
4	Bush	4	WR100.402.00	WR125.402.00	WR125.402.10	WR160.402.10	WR160.402.
5	Bolt	2	WR100.403.00	WR125.403.00	WR160.403.00		
6	Frame	2	WR100.410.00	WR125.410.00	WR160.410.00		
7	Conical washer	2	WR100.404.00	WR125.404.00	WR160.404.00		
(8)	Pin BDS 1980–78	2	6h11x55	8h11x73	8h11x115		
9	Nut	2	WR100.405.00	WR125.405.00	WR160.405.00		
10	Spherical washer	2	WR100.406.00	WR125.406.00	WR160.406.00		
11	Axle	2	WR100.407.00	WR125.407.00	WR160.407.00		
(12)	Cotter pin BDS 55–77	2	5x45	6,3x60	8x80		
(13)	Nut BDS 1272–84/Zn	2	M 24 – 5	M 30 – 5	M 42 – 5		

7. 2. Drive

Table 7.6

Fig.	Travel speed, m/min			Travel mechanism					
		Travel mechanism	b ₁ b ₂ b ₃	WR101.100.01 WR102.100.01 WR103.100.01	WR101.100.12 WR102.100.12 WR103.100.12	WR121.100.01 WR122.100.01 WR123.100.01	WR121.100.12 WR122.100.12 WR123.100.12	WR161.100.01 WR162.100.01 WR163.100.01	WR161.100.12 WR162.100.12 WR163.100.12
		Type		B	A	B	A	B	A
		Designation		Part number					
15	20	Electric motor		KK1204 – 6A		KK1405 – 6A		KK1407 – 6A	
	32	Electric motor		KK1204 – 4A		KK1405 – 4A		KK1407 – 4A	
	32/10	Electric motor		KK1405 – 12/4A		KK1407 – 12/4A		KK1606 – 12/4A	
16	8	Unit with electric motor		WR100.500.11		WR125.500.11			
	10	Unit with electric motor		WR100.500.12		WR125.500.12			
	12	Unit with electric motor		WR100.500.13		WR125.500.13			
	15	Unit with electric motor		WR100.500.14		WR125.500.14			
	12/4	Unit with electric motor		WR100.500.21		WR125.500.21			
	15/5	Unit with electric motor		WR100.500.22		WR125.500.22			
	20/6.5	Unit with electric motor		WR100.500.23		WR125.500.23			

7.2.1. Drive without unit – for travel speeds 20; 32 and 32/10 m/min (fig. 15)

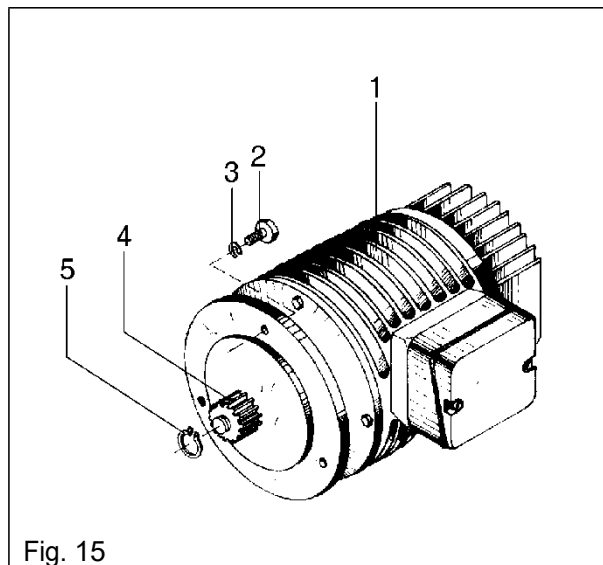


Table 7.8

Pos.	Travel mechanism	b1 b2 b3	WR101.100.01 WR102.100.01 WR103.100.01	WR101.100.12 WR102.100.12 WR103.100.12	WR121.100.01 WR122.100.01 WR123.100.01	WR121.100.12 WR122.100.12 WR123.100.12	WR161.100.01 WR162.100.01 WR163.100.01	WR161.100.12 WR162.100.12 WR163.100.12
	Type		B	A	B	A	B	A
	Travel speed, m/min		20 32 32/10		20 32 32/10		20 32 32/10	
	Designation	QTY	Part number					
1	Electric motor	1	KK 1204 – 6A KK 1204 – 4A KK1405 – 12/4A		KK1405 – 6A KK 1405 – 4A KK 1407 – 12/4A		KK1407 – 6A KK 1407 – 4A KK 1606 – 14/4A	
(2)	Bolt BDS 1230-85/Zn	3	I M 6x20 – 5.6		I M 8x20 – 5.6		I M 8x20 – 5.6	
(3)	Spring washer BDS 833-82/Zng	3	2 – 6H		2 – 8H		2 – 8H	
4	Gear	1	WR100.501.11		WR125.501.11		WR125.501.11	
5	Safety ring	1	WR100.502.00		-		-	

(5)	Ring BDS 2170-77	1	-	B 12	B 12
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7.2.2. Drive with unit – for travel speeds 8; 10; 12; 15 and 12/4; 15/5; 20/6 m/min (fig. 16)

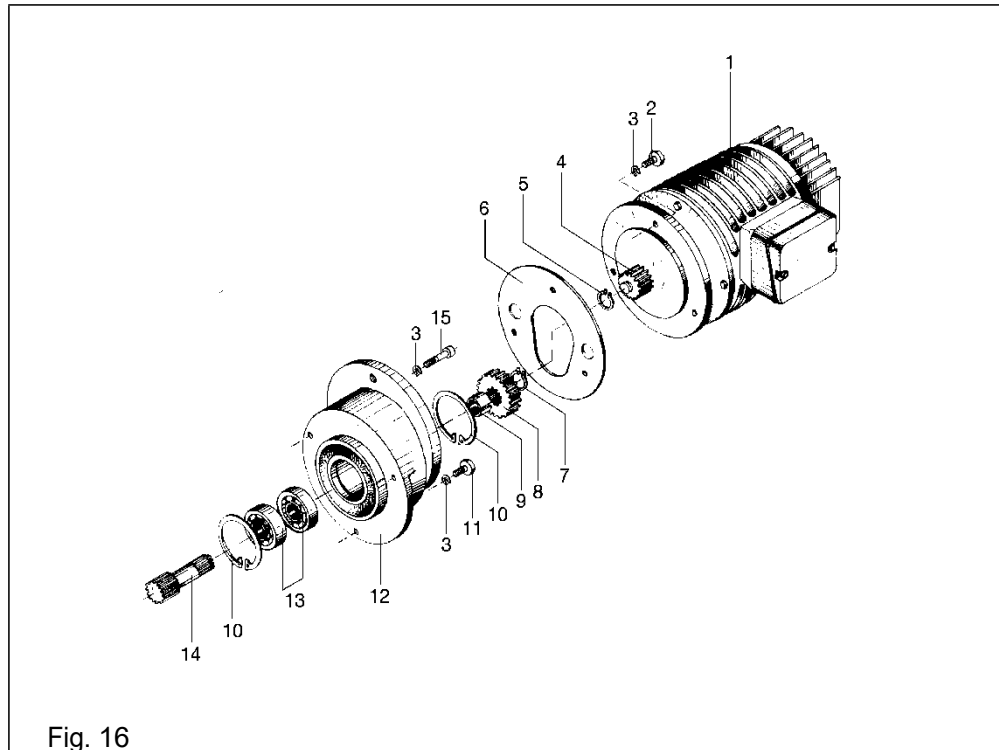


Fig. 16

Table 7.9

Pos.	Travel mechanism	b1 b2 b3	WR101.100.01 WR102.100.01 WR103.100.01	WR101.100.12 WR102.100.12 WR103.100.12	WR121.100.01 WR122.100.01 WR123.100.01	WR121.100.12 WR122.100.12 WR123.100.12	WR161.100.01 WR162.100.01 WR163.100.01	WR161.100.12 WR162.100.12 WR163.100.12
	Type		B	A	B	A	B	A
	Travel speed, m/min		20 32 32/10	32 32/10	20 32 32/10	32 32/10	20 32 32/10	32 32/10
	Designation	QTY	Part number					
1	Electric motor	1	KK 1204 – 6A KK 1204 – 4A KK1405 – 12/4A		KK1405 – 6A KK 1405 – 4A KK 1407 – 12/4A		KK1407 – 6A KK 1407 – 4A KK 1606 – 14/4A	
(2)	Bolt BDS 1230-85/Zn	3	I M 6x20 – 5.6		I M 8x20 – 5.6		I M 8x20 – 5.6	
(3)	Spring washer BDS 833-82/Zng	3	2 – 6H		2 – 8H		2 – 8H	
4	Gear	1	WR100.501.11		WR125.501.11		WR125.501.11	
5	Safety ring	1	WR100.502.00		-		-	
(5)	Ring BDS 2170-77	1	-		B 12		B 12	

8. TRAVEL MECHANISM – reduced headroom

8.1. Reeving 2/1 (fig. 17)

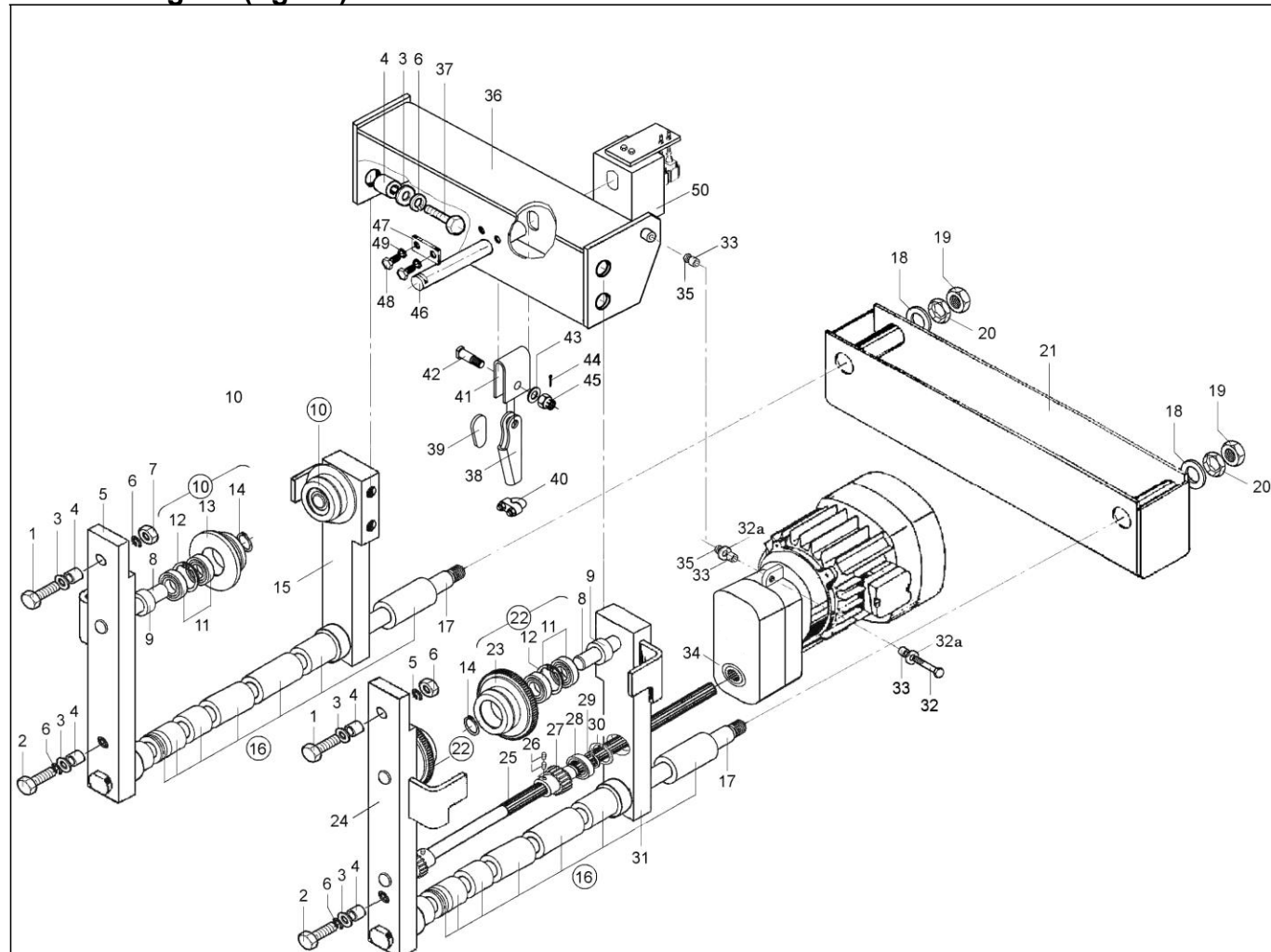


Fig. 17

8.1.1. Modification

Table 8.1

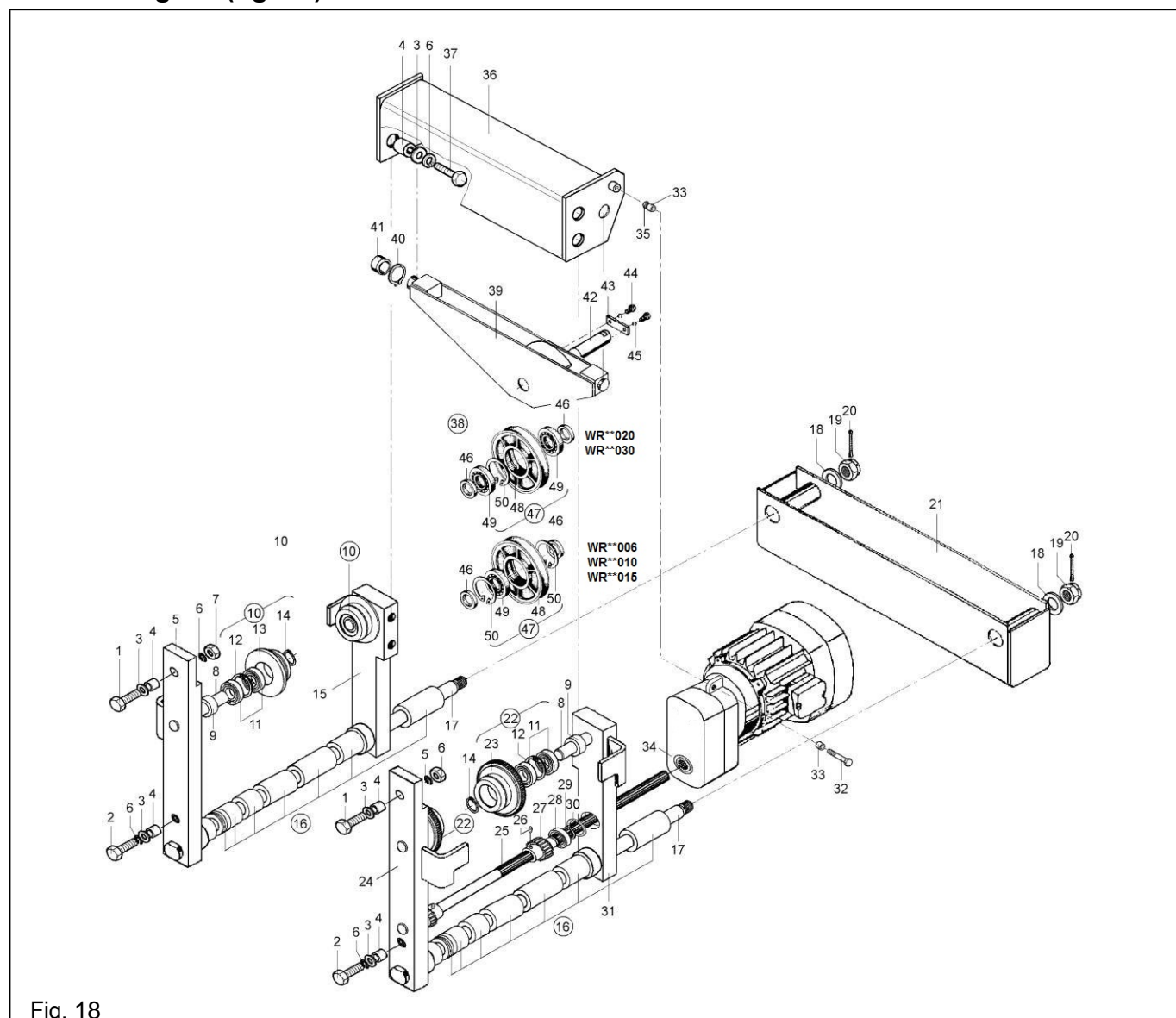
Size	width of profile, mm	Part number						
		Lifting height						
		H1	H2	H3	H4	H5	H6	H7
WR**006	b ₁ = 100 ... 170	WR380.000.11	WR380.000.12	WR380.000.13	WR380.000.14	WR380.000.15	–	–
	b ₂ = 170 ... 240	WR380.000.21	WR380.000.22	WR380.000.23	WR380.000.24	WR380.000.25	–	–
	b ₃ = 240 ... 300	WR380.000.31	WR380.000.32	WR380.000.33	WR380.000.34	WR380.000.35	–	–
WR**010	b ₁ = 100 ... 170	WR480.000.11	WR480.000.12	WR480.000.13	WR480.000.14	WR480.000.15	–	–
	b ₂ = 170 ... 240	WR480.000.21	WR480.000.22	WR480.000.23	WR480.000.24	WR480.000.25	–	–
	b ₃ = 240 ... 300	WR480.000.31	WR480.000.32	WR480.000.33	WR480.000.34	WR480.000.35	–	–
WR**015	b ₁ = 100 ... 170	WR580.000.11	WR580.000.12	WR580.000.13	WR580.000.14	WR580.000.15	WR580.000.16	–
	b ₂ = 170 ... 240	WR580.000.21	WR580.000.22	WR580.000.23	WR580.000.24	WR580.000.25	WR580.000.26	–
	b ₃ = 240 ... 300	WR580.000.31	WR580.000.32	WR580.000.33	WR580.000.34	WR580.000.35	WR580.000.36	–
WR**020	b ₁ = 100 ... 170	–	WR680.000.12	WR680.000.13	WR680.000.14	WR680.000.15	WR680.000.16	WR680.000.17
	b ₂ = 170 ... 240	–	WR680.000.22	WR680.000.23	WR680.000.24	WR680.000.25	WR680.000.26	WR680.000.27
	b ₃ = 240 ... 300	–	WR680.000.32	WR680.000.33	WR680.000.34	WR680.000.35	WR680.000.36	WR680.000.37
WR**030	b ₁ = 100 ... 170	–	WR780.000.12	WR780.000.13	WR780.000.14	WR780.000.15	WR780.000.16	WR780.000.17
	b ₂ = 170 ... 240	–	WR780.000.22	WR780.000.23	WR780.000.24	WR780.000.25	WR780.000.26	WR780.000.27
	b ₃ = 240 ... 300	–	WR780.000.32	WR780.000.33	WR780.000.34	WR780.000.35	WR780.000.36	WR780.000.37

8.1.2. Details, available in all modifications (fig. 17)

Table 8.2

Size			WR**006	WR**010	WR**015	WR**020	WR**030
Capacity, t			3	5	7.5	10	15
Driven travel wheel diameter, mm			100	125	125	160	200
Rope diameter, mm			7	10	12	15	18
Width of profile, designation			b1	b1	b1	b1	b1
			b2	b2	b2	b2	b2
			b3	b3	b3	b3	b3
Pos.	Designation	QTY	Part number				
(1)	Bolt BDS1230-83/Zn	2	M12 x 55 - 5.6	M14 x 70 - 5.6	M14 x 70 - 5.6	M16 x 85 - 5.6	M20 x 100 - 5.6
(2)	Bolt BDS1230-83/Zn	2	M12 x 50 - 5.6	M14 x 60 - 5.6	M14 x 60 - 5.6	M16 x 55 - 5.6	M20 x 85 - 5.6
(3)	Washer BDS 206-78/Zn	8	A M12	A M14	A M14	A M16	A M20
4	Bush	8	WR381.001.00	WR481.001.00	WR481.001.00	WR681.001.00	WR781.001.00
[5]	Driven carrier II	1	WR381.110.00	WR481.110.00	WR481.110.00	WR681.110.00	WR781.110.00
(6)	Spring washer BDS 833-82/Zng	8	2 - 12H	2 - 14H	2 - 14H	2 - 16H	2 - 20H
(7)	Nut BDS 1271-82/ Zn	2	I M12 - 8	I M14 - 8	I M14 - 8	I M16 - 8	I M20 - 8
8	Axle	4	WR381.101.00	WR481.101.00	WR481.101.00	WR681.101.00	WR781.101.00
9	Space bush	4	WR381.102.00	WR481.102.00	WR481.102.00	WR681.102.00	WR781.102.00
10	Driven travel wheel , complete (Pos. 11...13)	2	WR100.150.10	WR125.150.10	WR125.150.10	WR160.150.10	WR200.150.10
(11)	Ball bearing DIN 625	8	6206 - RS	6208 - RS	6208 - RS	6209 - RS	6311 - RS
(12)	Ring BDS 2170-77	4	A 62	A 80	A 80	A 100	A 120
13	Driven travel wheel	2	WR100.151.00	WR125.151.00	WR125.151.00	WR160.151.00	WR200.151.00
(14)	Ring BDS 2170-77	4	B 30	B 40	B 40	B 45	B 55
[15]	Driven carrier I	1	WR381.410.00	WR481.410.00	WR481.410.00	WR681.410.00	WR781.410.00
16	Bush, complete	2	WR381.004.00	WR481.004.00	WR481.004.00	WR681.004.00	WR781.004.00
17	Stud	2	WR381.002.00	WR481.002.00	WR481.002.00	WR681.002.00	WR781.002.00
(18)	Washer BDS 206-78/Zn	2	A M36	A M36	A M36	A M42	A M48
(19)	Nut BDS 1272-82/Zn	2	M 36 - 8	M 36 - 8	M 36 - 8	M 42 - 8	M 48 - 8
(20)	Cotter pin BDS 55-77	2	6x70	6x70	6x70	8x80	8x90
[21]	Counterweight box	1	Table 8.6				
[22]	Driving travel wheel, complete (Pos. 23, 11, 12)	2	WR100.130.10	WR125.130.10	WR125.130.10	WR160.130.10	WR200.130.10
23	Driving travel wheel	1	WR100.131.10	WR125.131.10	WR125.131.10	WR160.131.10	WR200.131.10
[24]	Driving carrier II	1	WR381.210.00	WR481.210.00	WR481.210.00	WR681.210.00	WR781.210.00
25	Shaft	1	WR381.003.10 WR381.003.20 WR381.003.30	WR481.003.10 WR481.003.20 WR481.003.30	WR481.003.10 WR481.003.20 WR481.003.30	WR481.003.10 WR481.003.20 WR481.003.30	WR481.003.10 WR481.003.20 WR481.003.30
(26)	Screw BDS 1261-83/Zn	2	M 6x8 - 14H	M 6x8 - 14H	M 6x8 - 14H	M 6x8 - 14H	M 6x8 - 14H
27	Tooth bush	2	WR381.201.00	WR481.201.00	WR481.201.00	WR581.201.00	WR581.201.00
(28)	Ball bearing DIN 625	2	6207 - 2RS	6007 - 2RS	6007 - 2RS	6007 - 2RS	6007 - 2RS
(29)	Ring BDS 2170-77	2	B 35	B 35	B 35	B 35	B 35
(30)	Ring BDS 2170-77	2	A 62	A 62	A 62	A 62	A 62
[31]	Driving carrier I	1	WR381.310.00	WR481.310.00	WR481.310.00	WR681.310.00	WR781.310.00
(32)	Bolt BDS1234-85/Zn	1	M 14x110 - 5.6	M 14x110 - 5.6	M 14x110 - 5.6	M 14x110 - 5.6	M 14x110 - 5.6
33	Pad	2	WR481.124.00	WR481.124.00	WR481.124.00	WR481.124.00	WR481.124.00
[34]	Gear-motor	1	Table 8.5				
(35)	Nut BDS 743-83/Zn	2	M14 - 8	M14 - 8	M14 - 8	M14 - 8	M14 - 8
[36]	Frame	1	Table 8.6				
(37)	Bolt BDS1230-83/Zn	4	M 12 x 40 - 5.6	M14 x 45 - 5.6	M14 x 45 - 5.6	M16 x 55 - 5.6	M20 x 100 - 5.6
38	Wedge bush	1	WR364.005.00	WR464.005.00	WR464.005.00	WR664.005.00	WR764.005.00
39	Wedge	1	WR364.006.00	WR464.006.00	WR564.006.00	WR664.006.00	WR764.006.00
(40)	Clamp DIN 1142, No	1	8	10	13	16	19
41	Platte	1	WR364.004.00	WR464.004.00	WR464.004.00	WR664.004.00	WR764.004.00
42	Axle	1	WR364.009.00	WR464.009.00	WR464.009.00	WR664.009.00	WR764.009.00
(43)	Washer BDS 206-78/Zn	1	A 16	A 16	A 16	A 16	A 20
(44)	Cotter pin BDS 55-77	1	2x20	4x20	4x20	4x30	4x35
(45)	Nut BDS 745-82/Zn	1	M 16 - 5	M 16 - 5	M 16 - 5	M 16 - 5	M 20 - 5
46	Axle	1	WR364.003.00	WR464.003.00	WR464.003.00	WR664.003.00	WR764.003.00
47	Fixing plate	1	WR364.002.00	WR364.002.00	WR364.002.00	WR364.002.00	WR364.002.00
(48)	Bolt BDS 1234-85/Zn	2	M 6x12-5.6	M 6x12-5.6	M 6x12-5.6	M 6x12-5.6	M 6x12-5.6
(49)	Spring washer BDS 833-82/Zng	2	2 - 6H	2 - 6H	2 - 6H	2 - 6H	2 - 6H
[50]	Load limiter	1	HOT 05	HOT 10	HOT 16	HOT 25	HOT 40
	Designation						
	Part number		WR362.300.00	WR462.300.00	WR562.300.00	WR662.300.00	WR762.300.00

8.2. Reeving 4/1 (fig. 18)



8.2.2. Details, available in all modifications (fig. 18)

Table 8.4

Size			WR**006	WR**010	WR**015	WR**020	WR**030
Capacity, t			3	5	7.5	10	15
Driven travel wheel diameter, mm			100	125	160	200	250
Rope diameter, mm			7	10	12	15	18
Width of profile, designation			b1	b1	b1	b1	b1
			b2	b2	b2	b2	b2
			b3	b3	b3	b3	b3
Pos.	Designation	QTY	Part number				
(1)	Bolt BDS 1230–83/Zn	2	M12 x 55 – 5.6	M14 x 70 – 5.6	M14 x 70 – 5.6	M16 x 85 – 5.6	M20 x 100 – 5.6
(2)	Bolt BDS 1230–83/Zn	2	M12 x 50 – 5.6	M14 x 60 – 5.6	M14 x 60 – 5.6	M16 x 55 – 5.6	M20 x 85 – 5.6
(3)	Washer BDS 206–78/Zn	8	A M12	A M14	A M14	A M16	A M20
4	Bush	8	WR381.001.00	WR481.001.00	WR481.001.00	WR681.001.00	WR781.001.00
[5]	Driven carrier II	1	WR381.110.00	WR481.110.00	WR581.110.00	WR681.110.00	WR781.110.00
(6)	Spring washer BDS 833–82/Zng	8	2 – 12H	2 – 14H	2 – 14H	2 – 16H	2 – 20H
(7)	Nut BDS 1271–82/ Zn	2	I M12 – 8	I M14 – 8	I M14 – 8	I M16 – 8	I M20 – 8
8	Axle	4	WR381.101.00	WR481.101.00	WR581.101.00	WR681.101.00	WR781.101.00
9	Space bush	4	WR381.102.00	WR481.102.00	WR581.102.00	WR681.102.00	WR781.102.00
10	Driven travel wheel, complete (Pos. 11...13)	2	WR100.150.10	WR125.150.10	WR160.150.10	WR200.150.10	WR250.150.10
(11)	Ball bearing DIN 625	8	6206 – RS	6208 – RS	6209 – RS	6311 – RS	6313 – RS
(12)	Ring BDS 2170–77	4	A 62	A 80	A 100	A 120	A 140
13	Driven travel wheel	2	WR100.151.00	WR125.151.00	WR160.151.00	WR200.151.00	WR250.151.00
(14)	Ring BDS 2170–77	4	B 30	B 40	B 45	B 55	B 65
[15]	Driven carrier I	1	WR381.410.00	WR481.410.00	WR581.410.00	WR681.410.00	WR781.410.00
16	Bush, complete	2	WR381.004.00	WR481.004.00	WR581.004.00	WR681.004.00	WR781.004.00
17	Stud	2	WR381.002.00	WR481.002.00	WR581.002.00	WR681.002.00	WR781.002.00
(18)	Washer BDS 206–78/Zn	2	A M36	A M36	A M42	A M48	A M48
(19)	Nut BDS 1272–82/Zn	2	M 36 – 8	M 36 – 8	M 42 – 8	M 48 – 8	M 48 – 8
(20)	Cotter pin BDS 55–77	2	6x70	6x70	8x80	8x90	8x90
[21]	Counterweight box	1	Table 8.6				
[22]	Driving travel wheel, complete (Pos. 23, 11, 12)	2	WR100.130.10	WR125.130.10	WR160.130.10	WR200.130.10	WR250.130.10
23	Driving travel wheel	1	WR100.131.10	WR125.131.10	WR160.131.10	WR200.131.10	WR250.131.10
[24]	Driving carrier II	1	WR381.210.00	WR481.210.00	WR581.210.00	WR681.210.00	WR781.210.00
25	Shaft	1	WR381.003.10 WR381.003.20 WR381.003.30	WR481.003.10 WR481.003.20 WR481.003.30	WR481.003.10 WR481.003.20 WR481.003.30	WR481.003.10 WR481.003.20 WR481.003.30	WR481.003.10 WR481.003.20 WR481.003.30
(26)	Screw BDS 1261–83/Zn	2	M 6x8 – 14H	M 6x8 – 14H	M 6x8 – 14H	M 6x8 – 14H	M 6x8 – 14H
27	Tooth bush	2	WR381.201.00	WR481.201.00	WR581.201.00	WR681.201.00	WR781.201.00
(28)	Ball bearing DIN 625	2	6207 – 2RS	6007 – 2RS	6007 – 2RS	6008 – 2RS	6008 – 2RS
(29)	Ring BDS 2170–77	2	B 35	B 35	B 35	B 40	B 40
(30)	Ring BDS 2170–77	2	A 62	A 62	A 62	A 68	A 68
[31]	Driving carrier I	1	WR381.310.00	WR481.310.00	WR581.310.00	WR681.310.00	WR781.310.00
(32)	Bolt BDS1234–85/Zn	1	M 14x110 – 5.6	M 14x110 – 5.6	M 14x110 – 5.6	M 14x110 – 5.6	M 14x110 – 5.6
33	Pad	2	WR481.124.00	WR481.124.00	WR481.124.00	WR481.124.00	WR481.124.00
[34]	Gear-motor	1	Table 8.5				
(35)	Nut BDS 743–83/Zn	2	M14 – 8	M14 – 8	M14 – 8	M14 – 8	M14 – 8
[36]	Frame	1	Table 8.6				
(37)	Bolt BDS1230–83/Zn	4	M 12 x 40 – 5.6	M14 x 45 – 5.6	M14 x 45 – 5.6	M16 x 55 – 5.6	M20 x 100 – 5.6
[38]	Traverse with roller (Pos. 39 + 50)	1	Table 8.6				
[39]	Traverse	1	Table 8.6				
(40)	Ring BDS 2170–77	1	B 40	B 45	B 50	B 65	B 80
41	Bush	1	WR360.001.00	WR460.001.00	WR560.001.00	WR660.001.00	WR760.001.00
42	Axle	1	WR364.102.00	WR464.102.00	WR564.102.00	WR664.102.00	WR764.102.00
43	Fixing plate	1	WR364.103.00	WR464.103.00	WR564.103.00	WR664.103.00	WR764.103.00
(44)	Bolt BDS 1234–85/Zn	2	IM 10x16 – 5.6	IM 10x16 – 5.6	IM 10x16 – 5.6	IM 10x22 – 5.6	IM 12x25 – 5.6
(45)	Spring washer BDS 833–82/Zng	2	2 – 10H	2 – 10H	2 – 10H	2 – 10H	2 – 12H
46	Space bush	2	WR364.101.00	WR464.101.00	WR564.101.00	WR664.101.00	WR764.101.00
(47)	Roller complete (Pos. 48 + 50)	1	WR364.120.00	WR464.120.00	WR564.120.00	WR664.120.00	WR764.120.00
48	Roller	1	WR364.121.00	WR464.121.00	WR564.121.00	WR664.121.00	WR764.121.00
(49)	Ball bearing DIN 625	1	6207 – 2RS	6210 – 2RS	6212 – 2RS	–	–
	Ball bearing DIN 625	2	–	–	–	6212 – 2RS	6312 – 2RS
(50)	Ring BDS 2170–77	2	A 72	A 90	A 110	–	–
	Ring BDS 2170–77	1	–	–	–	A 110	A 130

8.3. Gear motors, available in all traveling speeds

Table 8.5

Travel speed – designation				V1		V2		V3							
Travel speed, m/min				12		12/4		16		16/5.5		20		20/6.5	
	Fig.	Pos.	Designation	QTY	Part number										
4 (12/4) – polar electric motor	Size WR**006, Reeving 2/1 and 4/1														
	17, 18	[34]	Gear-motor	1	WR380.500.10	WR380.500.40	WR380.500.20	WR380.500.50	WR380.500.30	WR380.500.60					
			– Reducer		R2X100/12		R2X100/10		R2X100/7						
			– Electric motor		T 71A – 4R		T 80A – 12/4R		T 71A – 4R		T 80A – 12/4R				
	Size WR**010, Reeving 2/1 and 4/1														
	17, 18	[34]	Gear-motor	1	WR480.500.10	WR480.500.40	WR480.500.20	WR480.500.50	WR480.500.30	WR480.500.60					
			– Reducer		R3X100/15		R2X100/12		R2X100/10						
			– Electric motor		T 71A – 4R		T 80A – 12/4R		T 71B – 4R		T 80B – 12/4R		T 71B – 4R		T 80B – 12/4R
	Size WR**015, Reeving 2/1														
	17	[34]	Gear-motor	1	WR480.500.10	WR480.500.40	WR480.500.20	WR480.500.50	WR480.500.30	WR480.500.60					
			– Reducer		R3X100/15		R2X100/12		R2X100/10						
			– Electric motor		T 71A – 4R		T 80A – 12/4R		T 71B – 4R		T 80B – 12/4R		T 71B – 4R		T 80B – 12/4R
	Size WR**015, Reeving 4/1														
	18	[34]	Gear-motor	1	WR581.500.10	WR581.500.40	WR581.500.20	WR581.500.50	WR581.500.30	WR581.500.60					
			– Reducer		R3X100/20		R3X100/15		R2X100/12						
			– Electric motor		T 71B – 4R		T 80B – 12/4R		T 71B – 4R		T 80B – 12/4R		T 80A – 4R		T 90S – 12/4R
	Size WR**020, Reeving 2/1														
	17	[34]	Gear-motor	1	WR581.500.10	WR581.500.40	WR581.500.20	WR581.500.50	WR581.500.30	WR581.500.60					
			– Reducer		R3X100/20		R3X100/15		R2X100/12						
			– Electric motor		T 71B – 4R		T 80B – 12/4R		T 71B – 4R		T 80B – 12/4R		T 80A – 4R		T 90S – 12/4R
	Size WR**020, Reeving 4/1														
	18	[34]	Gear-motor	1	WR681.500.10	WR680.500.40	WR681.500.20	WR680.500.50	WR681.500.30	WR681.500.60					
			– Reducer		R3X125/25		R3X125/19		R3X125/15						
			– Electric motor		T 80A – 4R		T 90S – 12/4R		T 80B – 6R		T 90S – 12/4R		T 80B – 4R		T 90L – 12/4R
	Size WR**030, Reeving 2/1														
	17	[34]	Gear-motor	1	WR681.500.10	WR680.500.40	WR681.500.20	WR680.500.50	WR681.500.30	WR681.500.60					
			– Reducer		R3X125/25		R3X125/19		R3X125/15						
			– Electric motor		T 80A – 4R		T 90S – 12/4R		T 80B – 6R		T 90S – 12/4R		T 80B – 4R		T 90L – 12/4R
	Size WR**030, Reeving 4/1														
	18	[34]	Gear-motor	1	WR781.500.10	WR781.500.40	WR784700.20	WR781.500.50	WR781.500.30	WR781.500.60					
			– Reducer		R3X125/25		R3X125/19		R3X125/15						
			– Electric motor		T 80B – 4R		T 90L – 12/4R		T 80B – 4R		T 90L – 12/4R		T 90S – 4R		T 100LA – 12/4R
Travel speed, m/min				12		12/3		16		16/4		20		20/5	
2 (8/2) – polar electric motor	Size WR**006, Reeving 2/1 and 4/1														
	17, 18	[34]	Gear-motor	1	WR380.600.10	WR380.600.40	WR380.600.20	WR380.600.50	WR380.600.30	WR380.600.60					
			– Reducer		TP 160/22		TP 160/20		TP 160/13						
			– Electric motor		T 63B-2R		T 71B-8/2R		T 63B-2R		T 71B-8/2R		T 63B-2R		T 71B-8/2R
	Size WR**010, Reeving 2/1 and 4/1														
	17, 18	[34]	Gear-motor	1	WR480.600.10	WR480.600.40	WR480.600.20	WR480.600.50	WR480.600.30	WR480.600.60					
			– Reducer		TP 160/30		TP 160/22		TP 160/20						
			– Electric motor		T 63B-2R		T 71B-8/2R		T 71A – 2R		T 80A – 8/2R		T 71A – 2R		T 80A – 8/2R
	Size WR**015, Reeving 2/1														
	17	[34]	Gear-motor	1	WR480.600.10	WR480.600.40	WR480.600.20	WR480.600.50	WR480.600.30	WR480.600.60					
			– Reducer		TP 160/30		TP 160/22		TP 160/20						
			– Electric motor		T 63B-2R		T 71B-8/2R		T 71A – 2R		T 80A – 8/2R		T 71A – 2R		T 80A – 8/2R
	Size WR**015, Reeving 4/1														
	18	[34]	Gear-motor	1	WR581.600.10	WR581.600.40	WR581.600.20	WR581.600.50	WR581.600.30	WR581.600.60					
			– Reducer		TP 160/39		TP 160/30		TP 160/22						
			– Electric motor		T 71A – 2R		T 80A – 8/2R		T 71A – 2R		T 80A – 8/2R		T 71B – 2R		T 80B – 8/2R
	Size WR**020, Reeving 2/1														
	17	[34]	Gear-motor	1	WR581.600.10	WR581.600.40	WR581.600.20	WR581.600.50	WR581.600.30	WR581.600.60					
			– Reducer		TP 160/39		TP 160/30		TP 160/22						
			– Electric motor		T 71A – 2R		T 80A – 8/2R		T 71A – 2R		T 80A – 8/2R		T 71B – 2R		T 80B – 8/2R
	Size WR**020, Reeving 4/1														
	18	[34]	Gear-motor	1	WR681.600.10	WR681.600.40	WR681.600.20	WR681.600.50	WR681.600.30	WR681.600.60					
			– Reducer		TP 200/50		TP 200/40		TP 200/32						
			– Electric motor		T 71B – 2R		T 80B – 8/2R		T 71B – 2R		T 80B – 8/2R		T 80A – 2R		T 90S – 8/2R
	Size WR**030, Reeving 2/1														
	17	[34]	Gear-motor	1	WR681.600.10	WR681.600.40	WR681.600.20	WR681.600.50	WR681.600.30	WR681.600.60					
			– Reducer		TP 200/50		TP 200/40		TP 200/32						
			– Electric motor		T 71B – 2R		T 80B – 8/2R		T 71B – 2R		T 80B – 8/2R		T 80A – 2R		T 90S – 8/2R
	Size WR**030, Reeving 4/1														
	18	[34]	Gear-motor	1	WR781.600.10	WR781.600.40	WR781.700.20	WR781.600.50	WR781.600.30	WR781.600.60					
			– Reducer		TP 200/50		TP 200/40		TP 200/32						
			– Electric motor		T 80A – 2R		T 90S – 8/2R		T 80A – 2R		T 90S – 8/2R		T 80B – 2R		T 90L – 8/2R

8.4. Details, available in all lifting heights

Table 8.6

Lifting height – designation			H1	H2	H3	H4	H5	H6	H7
Pos.	Designation	QTY	Part number						
Size WR**006, Reeving 2/1, fig. 17									
[21]	Counterweight box	1	WR380.010.01	WR380.010.02	WR381.010.03	WR381.010.04	WR381.010.05	–	–
[36]	Frame	1	WR380.020.01	WR380.020.02	WR380.020.03	WR380.020.04	WR380.020.05	–	–
Size WR**006, Reeving 4/1, fig. 18									
[21]	Counterweight box	1	–	–	WR381.010.03	WR381.010.04	WR381.010.05	–	–
[36]	Frame	1	–	–	WR381.020.03	WR381.020.04	WR381.020.05	–	–
[38]	Traverse with roller (Pos. 39 ÷ 47)	1	–	–	WR365.100.03	WR365.100.04	WR365.100.05	–	–
[39]	Traverse	1	–	–	WR365.110.03	WR365.110.04	WR365.110.05	–	–
Size WR**010, Reeving 2/1, fig. 17									
[21]	Counterweight box	1	WR480.010.01	WR480.010.02	WR481.010.03	WR481.010.04	WR481.010.05	–	–
[36]	Frame	1	WR480.020.01	WR480.020.02	WR480.020.03	WR480.020.04	WR480.020.05	–	–
Size WR**010, Reeving 4/1, fig. 18									
[21]	Counterweight box	1	–	–	WR481.010.03	WR481.010.04	WR481.010.05	–	–
[36]	Frame	1	–	–	WR481.020.03	WR481.020.04	WR481.020.05	–	–
[38]	Traverse with roller (Pos. 39 ÷ 47)	1	–	–	WR465.100.03	WR465.100.04	WR465.100.05	–	–
[39]	Traverse	1	–	–	WR465.110.03	WR465.110.04	WR465.110.05	–	–
Size WR**015, Reeving 2/1, fig. 17									
[21]	Counterweight box	1	WR580.010.01	WR580.010.02	WR581.010.03	WR581.010.04	WR581.010.05	WR581.010.06	–
[36]	Frame	1	WR580.020.01	WR580.020.02	WR580.020.03	WR580.020.04	WR580.020.05	WR580.020.06	–
Size WR**015, Reeving 4/1, fig. 18									
[21]	Counterweight box	1	–	–	WR581.010.03	WR581.010.04	WR581.010.05	WR581.010.06	–
[36]	Frame	1	–	–	WR581.020.03	WR581.020.04	WR581.020.05	WR581.020.06	–
[38]	Traverse with roller (Pos. 39 ÷ 47)	1	–	–	WR565.100.03	WR565.100.04	WR565.100.05	WR565.100.06	–
[39]	Traverse	1	–	–	WR565.110.03	WR565.110.04	WR565.110.05	WR565.110.06	–
Size WR**020, Reeving 2/1, fig. 17									
[21]	Counterweight box	1	–	WR680.010.02	WR680.010.03	WR680.010.04	WR680.010.05	WR680.010.06	WR680.010.07
[36]	Frame	1	–	WR680.020.02	WR680.020.03	WR680.020.04	WR680.020.05	WR680.020.06	WR680.020.07
Size WR**020, Reeving 4/1, fig. 18									
[21]	Counterweight box	1	–	–	WR681.010.03	WR681.010.04	WR681.010.05	WR681.010.06	WR681.010.07
[36]	Frame	1	–	–	WR681.020.03	WR681.020.04	WR681.020.05	WR681.020.06	WR681.020.07
[38]	Traverse with roller (Pos. 39 ÷ 47)	1	–	–	WR665.100.03	WR665.100.04	WR665.100.05	WR665.100.06	WR665.100.07
[39]	Traverse	1	–	–	WR665.110.03	WR665.110.04	WR665.110.05	WR665.110.06	WR665.110.07
Size WR**030, Reeving 2/1, fig. 17									
[21]	Counterweight box	1	–	WR780.010.02	WR780.010.03	WR781.010.04	WR781.010.05	WR781.010.06	WR781.010.07
[36]	Frame	1	–	WR780.020.02	WR780.020.03	WR780.020.04	WR780.020.05	WR780.020.06	WR780.020.07
Size WR**030, Reeving 4/1, fig. 18									
[21]	Counterweight box	1	–	–	–	WR781.010.04	WR781.010.05	WR781.010.06	WR781.010.07
[36]	Frame	1	–	–	–	WR781.020.04	WR781.020.05	WR781.020.06	WR781.020.07
[38]	Traverse with roller (Pos. 39 ÷ 47)	1	–	–	–	WR765.100.04	WR765.100.05	WR765.100.06	WR765.100.07
[39]	Traverse	1	–	–	–	WR765.110.04	WR765.110.05	WR765.110.06	WR765.110.07

