

SPARE PARTS CATALOGUE
Electric wire rope hoists, type MH and MHM



CONTENTS

DIRECTIONS FOR USING THE CATALOGUE	1
1. LIFTING REDUCER.....	2
2. BODY WITH SWITCHING-OFF SYSTEM, DRUM, ROPE GUIDE, ROPE, CLUTCH COMPLETE	10
3. REEVING.....	16
4. CLUTCH	18
5. LOAD LIMITER, type HOT	21
6. HOOK SET	22
7. TRAVEL MECHANISM - normal headroom	26
8. TRAVEL MECHANISM – reduced headroom	32
9. CONTROL BLOCK	38
Appendix No 1 REQUEST	43

The catalogue is accordance with:

1. ISO 10973:1995(E), Cranes - Spare parts manual
2. DIN V 8418 Benutzerinformation
3. EN 292-2:1991 Sicherheit von Maschinen
4. DIN 24420, Teil 1, Ersatzteillisten, Allgemeines
5. DIN 24420, Teil 2, Ersatzteillisten, Form und Bau des Textteiles

EACH ORDER SHALL CONTAIN THE FOLLOWING DATA:

1. Factory number and year of production of the electric hoist as given in its factory nameplate.
2. Name and catalogue number of the requested parts.
3. Quantity of each part.
4. Type, voltage and frequency as stated on item's own identity plate for the electric equipment spare parts.
5. Kind of the parcel.
6. Address for delivering of the parcel.

The form for requesting spare parts is shown in Appendix 1.

TO ORDER SPARE PARTS CONTACT THE FOLLOWING ADDRESS:

BALKANCARPODEM LTD

18, Kl. Ohridski Blvd.
1040 Sofia, Bulgaria
Tel. (+359 2) 975 33 95
Fax (+359 2) 975 30 89
e-mail: mail@bcp.bg
<http://www.bcp.bg>

DIRECTIONS FOR USING THE CATALOGUE

The present catalogue comprises all parts of the MH 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 "[]", can not 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. The lifting height are denoted by H1, H2, H3, H4, H5, H6 and H7. Their values are given in table 1 and table 2.

Table 1

Lifting speed - designation		V1			V2		
Size	Reeving	1/1, 2/2	2/1, 4/2	4/1	1/1, 2/2	2/1, 4/2	4/1
	Variant of low lifting speed	Lifting speed : basic / low, m/min					
MH 3 MHM 4 MHM 5 MH 6	-	16	8	4	24	12	6
	I	16/4	8/2	4/1	24/4	12/2	6/1
MH 7-25 MH 7-32 MH 7-40	-	16	8	4	-	-	-
	I	16/4	8/2	4/1	-	-	-
MH 7-50	-	12,5	6,3	3,2	-	-	-
	I	12,5/3,2	6,3/1,6	3,2/0,8			
MH 7-63	-	10,5	5,2	2,6	-	-	-
	I	10,5/2,6	5,2/1,3	2,6/0,65	-	-	-

Table 2

Size	Reeving	Lifting height, m						
		H1	H2	H3	H4	H5	H6	H7
MH 3	2/1	6	9,5	13	20	27	-	-
	4/1	-	-	6,5	10	13,5	-	-
MHM 4	2/1	5	8,5	12	18,5	25	-	-
	4/1	-	-	6	9	12,5	-	-
MHM 5	2/1	5	8	11	17	23	29,5	-
	4/1	-	-	5,5	8,5	11,5	14,5	-
MH 6	2/1	-	7	10	16,5	22,5	25,5	30,5
	4/1	-	-	5	8	11	12,5	15
MH 7	2/1	-	7,5	12	16,5	22,5	28,5	34,5
	4/1	-	-	6	8	11	14	17

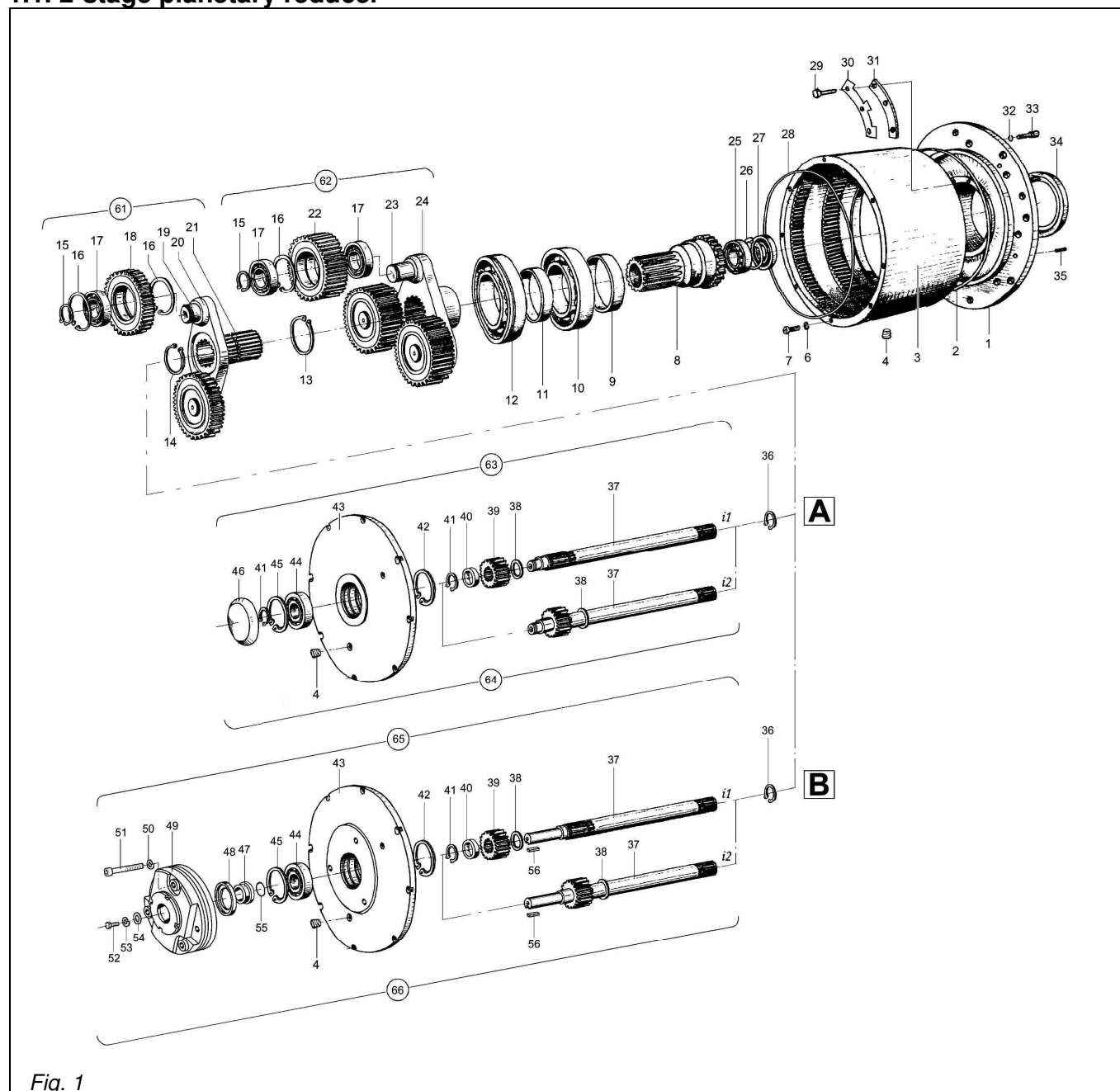
The other symbols, used in the catalogue, denote: Q-capacity; dr - rope diameter; Vt - travel speed; Dtw - Driven travel wheel diameter, V - Lifting speed, S - Reeving.

Note: The catalogue refers to electric hoists with: lifting speed V1 and V2; modification for MH 3 to MH 7.

THE MANUFACTURER HAS THE RIGHT TO PLACE CHANGE IN PARTS CATALOGUE

1. LIFTING REDUCER

1.1. 2-stage planetary reducer



1.1.1. Transmission ratio - i

Table 1.1

Size	Transmission ratio		Reducer													
			Modification A – without brake							Modification B – with brake						
	Index	Nomin.	H1	H2	H3	H4	H5	H6	H7	H1	H2	H3	H4	H5	H6	H7
			Part number													
MH 3	i_1	33,3	331.000.11	331.000.12	331.000.13	331.000.11		—	—	332.000.11	332.000.12	332.000.13	332.000.11		—	—
	i_2	50,5	331.000.21	331.000.22	331.000.23	332.000.21		—	—	332.000.21	332.000.22	332.000.23	332.000.21		—	—
MHM 4	i_1	47,6	431.000.11	431.000.12	431.000.13	431.000.11		—	—	432.000.11	432.000.12	432.000.13	432.000.11		—	—
MHM 5	i_1	47,6	531.000.11	531.000.12	531.000.13	531.000.11		—	—	532.000.11	532.000.12	532.000.13	532.000.11		—	—
	i_2	65,0	531.000.21	531.000.22	531.000.23	531.000.21		—	—	532.000.21	532.000.22	532.000.23	532.000.21		—	—
MH 6	i_1	55,0	631.000.11	631.000.12	631.000.13	631.000.11				632.000.11	632.000.12	632.000.13	632.000.11			
MH 7	i_1	67,0	—	731.000.12	731.000.13	731.000.12				—	732.000.12	732.000.13	732.000.12			

1.1.2. Reducer (fig. 1) and electric motor

Table 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					
MH 3-05 MH 3-03	V1	16 16/4	KG 1608-6 —	— KG I 2110-24/6	—	331.000.11	331.000.12	331.000.13	332.000.11	332.000.12	332.000.13
	V2	24 24/4	KG 1608-4 —	— KG I 2110-24/4	—						
		V1	16/5	—	—	CT 100LB-12/4 BRII	331.000.21	331.000.22	331.000.23	332.000.21	332.000.22
MH 3-03	V2	24/7	—	—	CT 100LB-12/4 BRII	331.000.11	331.000.12	331.000.13	332.000.11	332.000.12	332.000.13
MHM 4-10 MHM 4-05	V1	16 16/4	KG 2008-6 —	— KG I 2612-24/6	— P160 M4-24/6	431.000.11	431.000.12	431.000.13	432.000.11	432.000.12	432.000.13
	V2	24 24/4	KG 2008-4 —	— KG I 2612-24/4	— P160 M4-24/4						
MHM 5-16	V1	16 16/4	KG 2011-6 —	— KG II 2714-24/6	—	531.000.11	531.000.12	531.000.13	532.000.11	532.000.12	532.000.13
	V2	24 24/4	KG I 2012-4 —	— KG II 2714-24/6	—						
		V1	16/2,4	—	—	P160 M5-24/4	531.000.21	531.000.22	531.000.23	532.000.21	532.000.22
MHM 5-05 MHM 5-03	V2	24/4	—	—	P160 M5-24/4	531.000.11	531.000.12	531.000.13	532.000.11	532.000.12	532.000.13
						H1, H4 – H7	H2	H3	H1, H4 – H7	H2	H3
MH 6-25 MH 6-16 MH 6-10	V1	16 16/4	KG 2412-6 —	— KG I 3317-24/6	— P200 M6-24/6	631.000.11	631.000.12	631.000.13	632.000.11	632.000.12	632.000.13
	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
MH 7-25 MH 7-32 MH 7-40	V1	16 16/4	KG 2714-6 —	— KG I 3517-24/6	—	—	731.000.12	731.000.13	—	732.000.12	732.000.13

1.1.3. Details, available in all reducers

1.1.3.1. Reducer MH 3 (fig. 1)

Table 1.3

Modification			A						B					
2-stage planetary reducer (complete)			331.000.11			331.000.21			332.000.11			332.000.21		
			331.000.12 331.000.13			331.000.22 331.000.23			332.000.12 332.000.13			332.000.22 332.000.23		
Transmission ratio - i			<i>i1</i> = 33,3			<i>i2</i> = 50,5			<i>i1</i> = 33,3			<i>i2</i> = 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	331.002.00											
2	Rubber ring	1	331.006.00											
3	Tooth rim	1	331.001.00											
(4)	Stopper BDS 2527–71	1	IV conical 1/4"											
(6)	Spring washer BDS 833–82/Zng	8	2 – 6H											
(7)	Screw BDS 2171–83/Zn	8	M 6x14 – 8.8											
[8]	Geared bush	1	331.331.00											
[9]	Space bush	1	331.332.00											
(10)	Ball bearing DIN 625	1	6210											
11	Space bush	1	331.301.00											
(12)	Ball bearing DIN 625	1	6210 N											
(13)	Ring BDS 2170–77	1	B 40											
(14)	Ring BDS 2170–77	1	B 40											
(15)	Ring BDS 2170–77	5	B 20											
(16)	Ring BDS 2170–77	5	A 47											
(17)	Ball bearing DIN 625	8	6204											
[18]	Planetary gear	2	331.211.10			331.211.20			331.211.10			331.211.20		
[19]	Axle	2	331.221.00											
[20]	Planet carrier I	1	331.222.10			331.222.20			331.222.10			331.222.20		
21	Sun gear	1	331.201.00											
22	Planetary gear	3	331.311.00											
[23]	Axle	3	331.321.00											
[24]	Planet carrier II	1	331.322.00											
(25)	Ball bearing DIN 625	1	6004											
(26)	Ring BDS 2170–77	1	A 42											
(27)	Gasket BDS 9954–83	1	B 20x42x10											
28	Rubber ring	1	331.008.00											
(29)	Bolt BDS 1230–72/Zn	6	I M8x16 – 5.6											
30	Safety pad	2	331.004.00											
31	Stop sector	2	331.003.00											
(32)	Spring washer BDS 833–82/Zng	8	2 – 8H											
(33)	Screw BDS 2171–83/Zn	8	M 8x18 – 8.8											
(34)	Gasket BDS 9954–83	1	B 65x90x10											
35	Cylindrical pin	2	331.005.00											
(36)	Ring BDS 2170–77	1	B 20											
[61]	Gearing I complete	1	331.200.10			331.200.20			331.200.10			331.200.20		
[62]	Gearing II complete	1	331.300.00											
[63]	Shaft (complete)	Pos.	[63]			[64]			[65]			[66]		
[64]		1	331.100.11			331.100.21			332.100.11			332.100.21		
[65]		1	331.100.12			331.100.22			332.100.12			332.100.22		
[66]		1	331.100.13			331.100.23			332.100.13			332.100.23		
(4)	Stopper BDS 2527–71	1	IV conical 1/4"											
37	Shaft	1	331.102.11			331.102.21			332.102.11			332.102.21		
		1	331.102.12			331.102.22			332.102.12			332.102.22		
		1	331.102.13			331.102.23			332.102.13			332.102.23		
38	Adjusting bush	1	331.103.00											
39	Sun gear	1	331.104.00			–			331.104.00			–		
40	Space bush	1	331.105.00			–			331.105.00			–		
(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	331.101.00									332.101.00		
(44)	Ball bearing BDS 4843–84	1	6204											
(45)	Ring BDS 2170–77	1	A 47											
46	Cap	1	331.107.00						–					
47	Bush	1	–						332.107.00					
(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	–						332.108.00					
55	Safety ring	1	–						332.109.00					
(56)	Key DIN 6885A	1	–						5x5x20					

1.1.3.2. Reducer MHM 4 (fig. 1)

Table 1.4

Modification			A		B	
2-stage planetary reducer (complete)			431.000.11	431.000.12	432.000.11	432.000.12
				431.000.13		432.000.13
Transmission ratio - i			i1 = 47,6			
Lifting height			H1 H3 H4 H5	H2	H1 H3 H4 H5	H2
Pos.	Designation	QTY	Part number			
1	Flange	1	531.002.00			
2	Rubber ring	1	531.006.00			
3	Tooth rim	1	531.001.00			
(4)	Stopper BDS 2527-71	1	IV conical 1/4"			
(6)	Spring washer BDS 833-82/Zng	8	2 - 6H			
(7)	Screw BDS 2171-83/Zn	8	M 6x16 - 8.8			
[8]	Geared bush	1	531.331.00			
[9]	Space bush	1	531.332.00			
(10)	Ball bearing DIN 625	1	6215			
11	Space bush	1	531.301.00			
(12)	Ball bearing DIN 625	1	6215 N			
(13)	Ring BDS 2170-77	1	B 60			
(14)	Ring BDS 2170-77	1	B 48			
(15)	Ring BDS 2170-77	5	B 30			
(16)	Ring BDS 2170-77	5	A 62			
(17)	Ball bearing DIN 625	8	6206			
[18]	Planetary gear	2	531.211.10			
[19]	Axle	2	531.221.00			
[20]	Planet carrier I	1	531.222.10			
21	Sun gear	1	531.201.00			
22	Planetary gear	3	531.311.00			
[23]	Axle	3	531.321.00			
[24]	Planet carrier II	1	531.322.00			
(25)	Ball bearing DIN 625	1	6205			
(26)	Ring BDS 2170-77	1	A 52			
(27)	Gasket BDS 9954-83	1	B 25x52x10			
28	Rubber ring	1	531.008.00			
(29)	Bolt BDS 1230-72/Zn	6	I M8x16 - 5.6			
30	Safety pad	2	531.004.00			
31	Stop sector	2	531.003.00			
(32)	Spring washer BDS 833-82/Zng	8	2 - 8H			
(33)	Screw BDS 2171-83/Zn	8	M 8x25 - 8.8			
(34)	Gasket BDS 9954-83	1	B 100x130x12			
35	Cylindrical pin	2	331.005.00			
(36)	Ring BDS 2170-77	1	B 25			
[61]	Gearing I complete	1	531.200.10			
[62]	Gearing II complete	1	531.300.00			
[63]	Shaft (complete)	Pos.	[63]		[65]	
[65]		1	431.100.11		432.100.11	
		1	431.100.12		432.100.12	
		1	431.100.13		432.100.13	
(4)	Stopper BDS 2527-71	1	IV conical 1/4"			
37	Shaft	1	431.102.11		432.102.11	
		1	431.102.12		432.102.12	
		1	431.102.13		432.102.13	
38	Adjusting bush	1	531.103.00			
39	Sun gear	1	531.104.00			
40	Space bush	1	531.105.00			
(41)	Ring BDS 2170-77	2	B 25		-	
		1	-		B 25	
(42)	Ring BDS 2170-77	1	A 62			
43	Cover	1	531.101.00		532.101.00	
(44)	Ball bearing BDS 4843-84	1	6305			
(45)	Ring BDS 2170-77	1	A 62			
46	Cap	1	531.107.00		-	
47	Bush	1	-		532.107.00	
(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	-		532.108.01	
55	Safety ring	1	-		532.109.01	
(56)	Key DIN 6885A	1	-		6x6x25	

1.1.3.3. Reducer MHM 5 (fig. 1)

Table 1.5

Modification			A			B		
2-stage planetary reducer (complete)			531.000.11 531.000.12 531.000.13	531.000.21 531.000.22 531.000.23	532.000.11 532.000.12 532.000.13	532.000.21 532.000.22 532.000.23		
Transmission ratio - i			<i>i</i> 1 = 47,6	<i>i</i> 2 = 65,0	<i>i</i> 1 = 47,6	<i>i</i> 2 = 65,0		
Lifting height			H1 H4 H5	H2 H3	H1 H4 H5	H2 H3	H1 H4 H5	
Pos.	Designation	QTY	Part number					
1	Flange	1	531.002.00					
2	Rubber ring	1	531.006.00					
3	Tooth rim	1	531.001.00					
(4)	Stopper BDS 2527–71	1	IV conical 1/4"					
(6)	Spring washer BDS 833–82/Zng	8	2 – 6H					
(7)	Screw BDS 2171–83/Zn	8	M 6x16 – 8.8					
[8]	Geared bush	1	531.331.00					
[9]	Space bush	1	531.332.00					
(10)	Ball bearing DIN 625	1	6215					
11	Space bush	1	531.301.00					
(12)	Ball bearing DIN 625	1	6215 N					
(13)	Ring BDS 2170–77	1	B 60					
(14)	Ring BDS 2170–77	1	B 48					
(15)	Ring BDS 2170–77	5	B 30					
(16)	Ring BDS 2170–77	5	A 62					
(17)	Ball bearing DIN 625	8	6206					
[18]	Planetary gear	2	531.211.10	531.211.20	532.211.10	532.211.20		
[19]	Axle	2	531.221.00					
[20]	Planet carrier I	1	531.222.10	531.222.20	532.222.10	532.222.20		
21	Sun gear	1	531.201.00					
22	Planetary gear	3	531.311.00					
[23]	Axle	3	531.321.00					
[24]	Planet carrier II	1	531.322.00					
(25)	Ball bearing DIN 625	1	6205					
(26)	Ring BDS 2170–77	1	A 52					
(27)	Gasket BDS 9954–83	1	B 25x52x10					
28	Rubber ring	1	531.008.00					
(29)	Bolt BDS 1230–72/Zn	6	I M8x16 – 5.6					
30	Safety pad	2	531.004.00					
31	Stop sector	2	531.003.00					
(32)	Spring washer BDS 833–82/Zng	8	2 – 8H					
(33)	Screw BDS 2171–83/Zn	8	M 8x25 – 8.8					
(34)	Gasket BDS 9954–83	1	B 100x130x12					
35	Cylindrical pin	2	331.005.00					
(36)	Ring BDS 2170–77	1	B 25					
[61]	Gearing I complete	1	531.200.10	531.200.20	531.200.10	531.200.20		
[62]	Gearing II complete	1	531.300.00					
[63]	Shaft (complete)	Pos.	[63]	[64]	[65]	[66]		
[64]		1	531.100.11	531.100.21	532.100.11	532.100.21		
[65]		1	531.100.12	531.100.22	532.100.12	532.100.22		
[66]		1	531.100.13	531.100.23	532.100.13	532.100.23		
(4)	Stopper BDS 2527–71	1	IV conical 1/4"					
37	Shaft	1	531.102.11	531.102.21	532.102.11	532.102.21		
		1	531.102.12	531.102.22	532.102.12	532.102.22		
		1	531.102.13	531.102.23	532.102.13	532.102.23		
38	Adjusting bush	1	531.103.00					
39	Sun gear	1	531.104.00	–	531.104.00	–		
40	Space bush	1	531.105.00	–	531.105.00	–		
(41)	Ring BDS 2170–77	2	B 25	–	–	–		
		1	–	B 25	B 25	–		
(42)	Ring BDS 2170–77	1	A 62					
43	Cover	1	531.101.00				532.101.00	
(44)	Ball bearing BDS 4843–84	1	6305					
(45)	Ring BDS 2170–77	1	A 62					
46	Cap	1	531.106.00				–	
47	Bush	1	–				532.107.00	
(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	–				532.108.01	
55	Safety ring	1	–				532.109.01	
(56)	Key DIN 6885A	1	–				6x6x30	

1.1.3.4. Reducer MH 6 and MH 7 (fig. 1)

Table 1.6

Modification			MH 6		MH 7	
			A	B	A	B
2-stage planetary reducer (complete)			631.000.11 631.000.12 631.000.13	632.000.11 632.000.12 632.000.13	731.000.12 731.000.13	732.000.12 732.000.13
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	631.002.00		731.002.00	
2	Rubber ring	1	631.006.00		731.006.00	
3	Tooth rim	1	631.001.00		731.001.00	
(4)	Stopper BDS 2527–71	1	IV conical 1/4" 2 – 6H			
(6)	Spring washer BDS 833–82/Zng	8				
(7)	Screw BDS 2171–83/Zn	8	M 6x16 – 8.8		M 6x20 – 8.8	
[8]	Geared bush	1	631.331.00		731.331.00	
[9]	Space bush	1	631.332.00		731.333.00	
(10)	Ball bearing DIN 625	1	6218		6222	
11	Space bush	1	631.301.00		731.332.00	
(12)	Ball bearing DIN 625	1	6218 N		6222	
(13)	Ring BDS 2170–77	1	B 75		B 110	
(14)	Ring BDS 2170–77	1	B 55		B 65	
(15)	Ring BDS 2170–77	5	B 40		B 50	
(16)	Ring BDS 2170–77	5	A 80		A 110	
(17)	Ball bearing DIN 625	8	6208		6310	
[18]	Planetary gear	2	631.211.10		731.211.10	
[19]	Axle	2	631.221.00		731.221.00	
[20]	Planet carrier I	1	631.222.10		731.222.10	
21	Sun gear	1	631.201.00		731.201.00	
22	Planetary gear	3	631.311.00		731.311.00	
[23]	Axle	3	631.321.00		731.321.00	
[24]	Planet carrier II	1	631.322.00		731.322.00	
(25)	Ball bearing DIN 625	1	6206		6207	
(26)	Ring BDS 2170–77	1	A 62		A 72	
(27)	Gasket BDS 9954–83	1	B 30x62x10		B 35x72x12	
28	Rubber ring	1	631.008.00		731.008.00	
(29)	Bolt BDS 1230–72/Zn	6	I M8x16 – 5.6		–	
30	Safety pad	2	631.004.00		–	
31	Stop sector	2	631.003.00		–	
(32)	Spring washer BDS 833–82/Zng	8	2 – 10H		2 – 14H	
(33)	Screw BDS 2171–83/Zn	8	M 10x30 – 8.8		I M 14x35 – 8.8	
(34)	Gasket BDS 9954–83	1	B 130x160x15		B 150x200x15	
35	Cylindrical pin	2	631.005.00		731.005.00	
(36)	Ring BDS 2170–77	1	B 30		–	
[61]	Gearing I complete	1	631.200.10		731.200.10	
[62]	Gearing II complete	1	631.300.00		731.300.00	
[63]	Shaft (complete)	Pos.	[63]	[65]	[63]	[65]
[65]		1	631.100.11	632.100.11	731.100.12	732.100.12
		1	631.100.12	632.100.12	731.100.13	732.100.13
		1	631.100.13	632.100.13		
(4)	Stopper BDS 2527–71	1	IV conical 1/4"			
37	Shaft	1	631.102.11	632.102.11	731.102.12	732.102.12
		1	631.102.12	632.102.12	731.102.13	732.102.13
		1	631.102.13	632.102.13		
38	Adjusting bush	1	631.103.00		–	
39	Sun gear	1	631.104.00		–	
40	Space bush	1	631.105.00		–	
(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	631.106.00	–	731.106.00	–
47	Bush	1	–	632.107.00	–	732.107.00
(48)	Gasket BDS 9954–83	1	–	A 40x62x10	–	A 45x72x10
(49)	Break "Lenze"	1	–	BFK 458 16N 180VDC	–	BFK 458 18N 180VDC
(50)	Spring washer BDS 833–82/Zng	3	–	2 – 8H	–	2 – 8H
(51)	Screw BDS 2171–83/Zn	3	–	I M8x90 – 8.8	–	I M8x95 – 8.8
(52)	Screw BDS 2171–83/Zn	1	–	I M10x20 – 8.8	–	I M10x25 – 8.8
(53)	Spring washer BDS 833–82/Zng	1	–	2 – 10H	–	2 – 10H
54	Washer	1	–	632.108.00	–	732.108.00
55	Safety ring	1	–	632.109.00	–	732.109.00
(56)	Key DIN 6885A	1	–	8x7x30	–	8x7x30

1.2. 3-stage planetary reducer

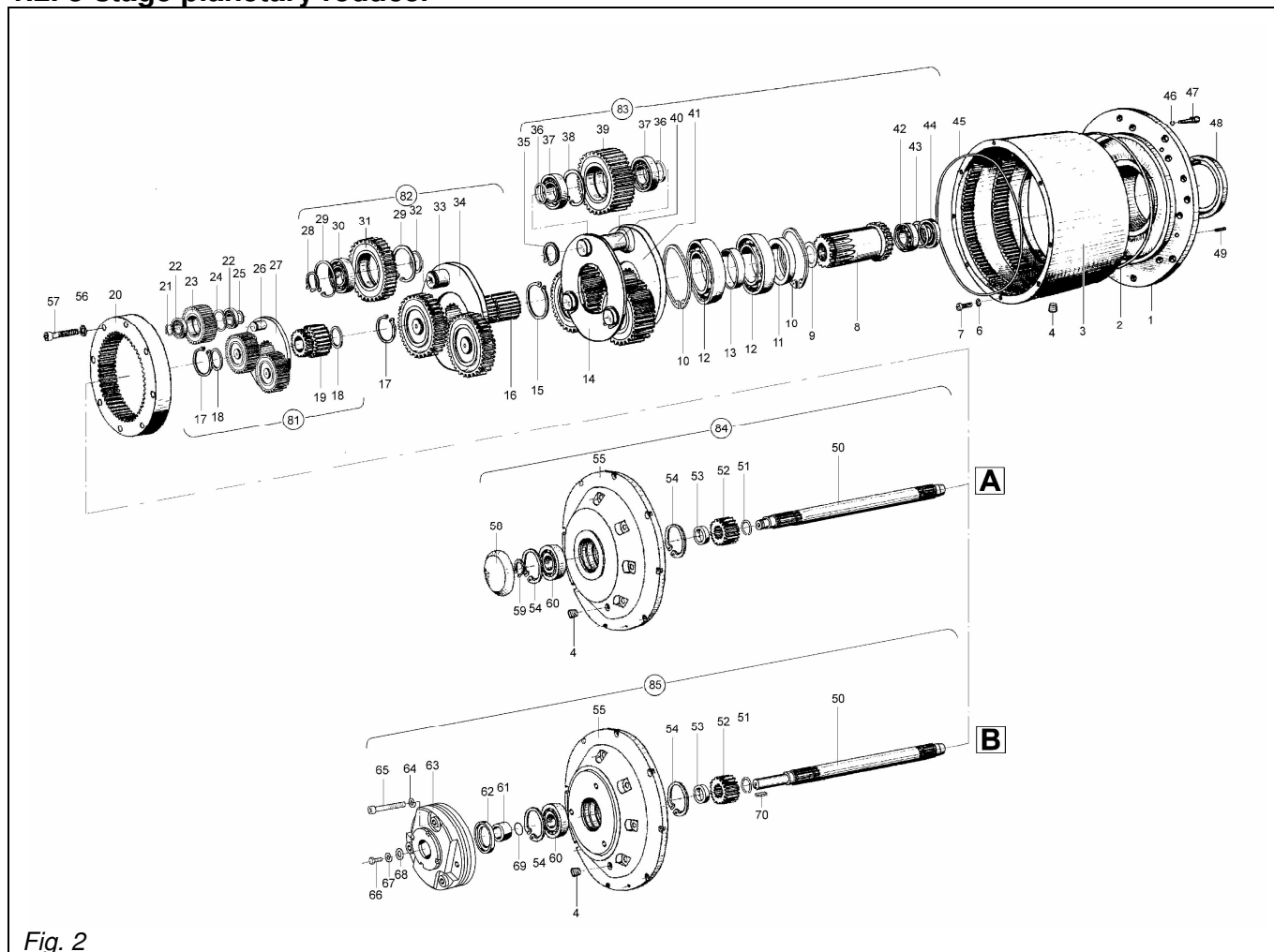


Fig. 2

1.2.1. Transmission ratio - i

Table 1.7

Size	Transmission ratio - i		Reducer											
			Modification A – without brake							Modification B – with brake				
	Index	Nomin.	H2	H3	H4	H5	H6	H7	H2	H3	H4	H5	H6	H7
			Part number											
MH 7–40	i_1	102,7	731.000.22	731.000.23	731.000.22				732.000.22	732.000.23	732.000.22			
MH 7–50	i_2	135,2	731.000.32	731.000.33	731.000.32				732.000.32	732.000.33	732.000.32			
MH 7–63	i_3	155,0	731.000.42	731.000.43	731.000.42				732.000.42	732.000.43	732.000.42			

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			
MH 7–40	V1	16/2,4	P200 M7 - 24/4	731.000.22	731.000.23	732.000.22	732.000.23
MH 7–50	V1	12,5/3,2	P200 M7 - 24/4	731.000.32	731.000.33	732.000.32	732.000.33
MH 7–63	V1	10,5/2,6	P200 M7 - 24/4	731.000.42	731.000.43	732.000.42	732.000.43

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

Table 1.9

Modification			A			B		
2-stage planetary reducer (complete)			731.000.22 731.000.23	731.000.32 731.000.33	731.000.42 731.000.43	732.000.22 732.000.23	732.000.32 732.000.33	732.000.42 732.000.43
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	731.301.00					
2	Safety ring	1	731.003.00					
3	Tooth rim	1	731.001.20					
(4)	Stopper BDS 2527–71	1	IV conical 1/4"					
(6)	Spring washer BDS 833–82/Zng	12	2 – 6H					
(7)	Screw BDS 2171–83/Zn	12	I M6x20 – 8.8					
8	Geared bush	1	731.331.20					
9	Adjusting bush	1	731.302.20					
(10)	Ring BDS 2170–77	2	A 200					
11	Space bush	1	731.333.00					
(12)	Ball bearing DIN 625	2	6222					
13	Bush	1	731.332.00					
14	Disc	1	731.301.20					
(15)	Ring BDS 2170–77	1	B 110					
16	Sun gear	1	731.201.20					
(17)	Ring BDS 2170–77	2	B 65					
18	Adjusting bush	2	731.302.21					
19	Sun gear	1	731.401.20					
20	Tooth flange	1	731.006.00					
21	Ring BDS 2170–77	3	B 25					
(22)	Ball bearing DIN 625	6	6005					
23	Planetary gear	3	731.411.20	731.410.30	731.410.40	731.411.20	731.410.30	731.410.40
(24)	Ring BDS 2170–77	3	A 47					
25	Space bush	3	731.202.22					
[26]	Axle	3	731.421.20					
[27]	Planet carrier	1	731.422.20	731.422.30	731.422.40	731.422.20	731.422.30	731.422.40
(28)	Ring BDS 2170–77	3	B 35					
(29)	Ring BDS 2170–77	6	A 100					
(30)	Ball bearing DIN 625	3	6407					
31	Planetary gear	3	731.211.20					
32	Space bush	3	731.202.20					
[33]	Axle	3	731.221.20					
[34]	Planet carrier II	1	731.222.20					
(35)	Ring BDS 2170–77	3	B 50					
36	Bush Distance	6	731.202.21					
(37)	Ball bearing DIN 625	6	6310					
(38)	Ring BDS 2170–77	3	A 110					
39	Planetary gear	3	731.311.20					
[40]	Axle	3	731.321.20					
[41]	Planet carrier III	1	731.322.20					
(42)	Ball bearing DIN 625	1	6207					
(43)	Ring BDS 2170–77	1	A 72					
(44)	Gasket BDS 9954–84	1	B 35x72x12					
45	Safety ring	1	731 005 00					
(46)	Spring washer BDS 833–82/Zng	12	2 – 14H					
(47)	Screw BDS 2171–83/Zn	12	I M14x35 – 8.8					
(48)	Gasket BDS 9954–84	1	B 150x200x15					
49	Cylindrical pin	2	731.004.00					
[81]	Gearing I complete	1	731.400.20	731.400.30	731.400.40	731.400.20	731.400.30	731.400.40
[82]	Gearing II complete	1	731.200.20					
[83]	Gearing III complete	1	731.300.20					
[84]	Shaft (complete)	Pos.	[84]			[85]		
[85]		1	731.100.22	731.100.32	731.100.42	732.100.22	732.100.32	732.100.42
		1	731.100.23	731.100.33	731.100.43	732.100.23	732.100.33	732.100.43
50	Shaft	1	731.103.22	731.103.32	731.103.42	732.103.22	732.103.32	732.103.42
		1	731.103.23	731.103.33	731.103.43	732.103.23	732.103.33	732.103.43
51	Ring	1	731.104.00					
52	Sun gear	1	731.102.20	731.102.30	731.102.40	731.102.20	731.102.30	731.102.40
53	Space bush	1	731.202.00					
(54)	Ring BDS 2170–77	2	A 72					
55	Cover	1	731.101.20			732.101.20		
(56)	Spring washer BDS 833–82/Zng	8	2 – 6H					
(57)	Screw BDS 2171–83/Zn	8	I M6x16 – 8.8					
58	Cap	1	731.103.00			–		
(59)	Ring BDS 2170–77	1	B 35			–		
(60)	Ball bearing DIN 625	1	6207					
(4)	Stopper BDS 2527–71	1	IV conical 1/4"					
61	Bush	1	–			732.107.00		
(62)	Gasket BDS 9954–83	1	–			A 45x72x10		
(63)	Break "Lenze"	1	–			BFK 458 18N 180VDC		
(64)	Spring washer BDS 833–82/Zng	6	–			2 – 8H		
65	Screw BDS 2171–83/Zn	6	–			I M8x95 – 8.8		
(66)	Screw BDS 2171–83/Zn	1	–			I M10x25 – 8.8		
(67)	Spring washer BDS 833–82/Zng	1	–			2 – 10H		
68	Washer	1	–			732.108.00		
69	Safety ring	1	–			732.109.00		
(70)	Key DIN 6885A	1	–			8x7x30		

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

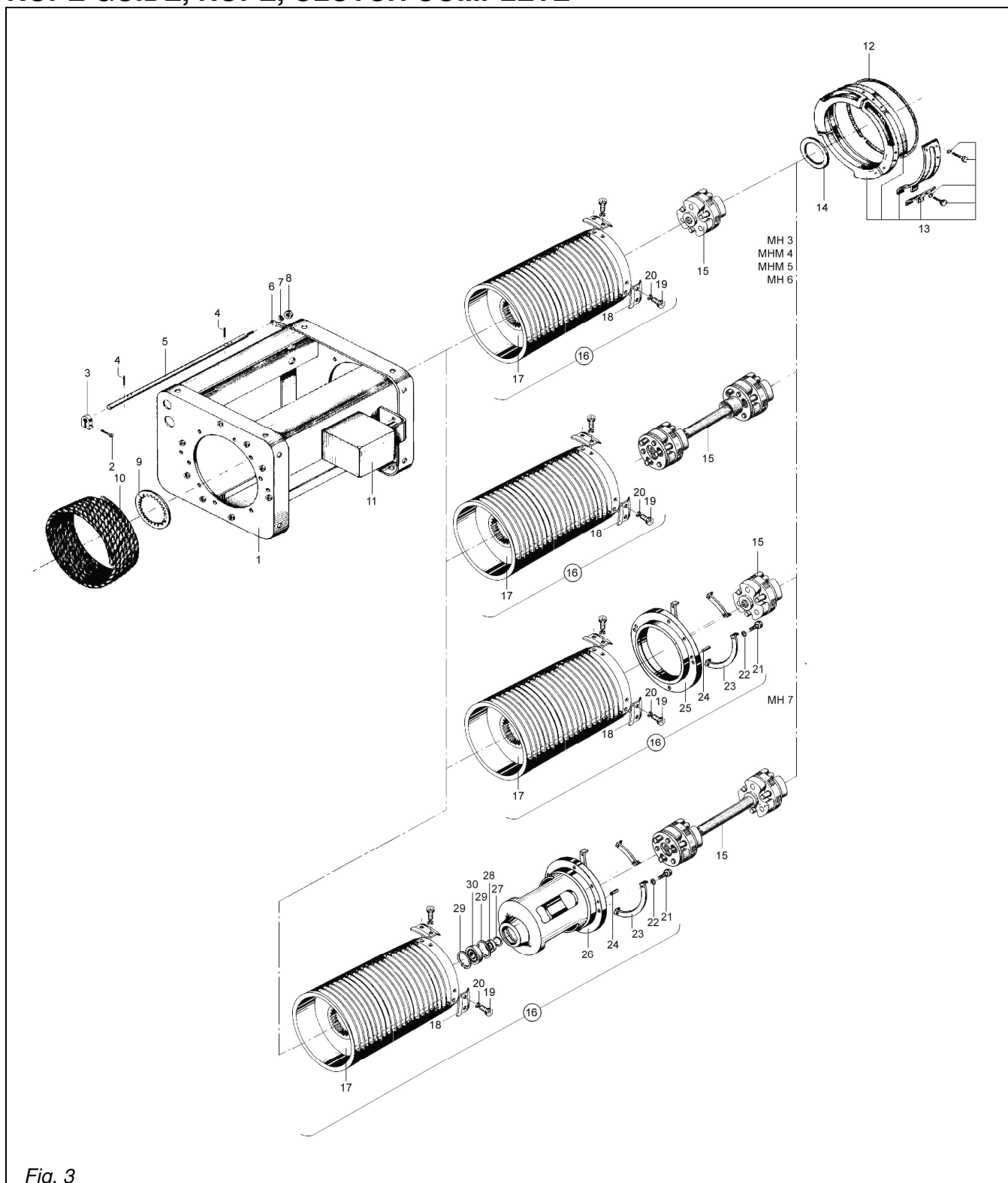


Fig. 3

2.1. Size MH 3 (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	372.000.11	372.000.12	372.000.13	372.000.14	372.000.15	372.000.21	372.000.22	372.000.23	372.000.24	372.000.25
		4/1	1	—	—	374.000.13	374.000.14	374.000.15	—	—	374.000.23	374.000.24	374.000.25
[1]	Body without load limiter	2/1	1	372.000.11	372.000.12	372.000.13	372.000.14	372.000.15	372.100.21	372.100.22	372.100.23	372.100.24	372.100.25
		4/1	1	—	—	374.100.13	374.100.14	374.100.15	—	—	374.100.23	374.100.24	374.100.25
(2)	Bolt BDS 1230–85/Zn		2	IM 6x20 – 5.6									
3	Racket		2	370.001.00									
(4)	Cotter pin BDS 55–77		2	2.5x14									
5	Rod		1	370.002.11	370.002.12	370.002.13	370.002.14	370.002.15	370.002.21	370.002.22	370.002.23	370.002.24	370.002.25
5	Rod– micro speed		1	370.003.11	370.003.12	370.003.13	370.003.14	370.003.15	370.003.21	370.003.22	370.003.23	370.003.24	370.003.25
6	Fork - micro speed		1	370.004.00									
(7)	Spring washer BDS 833–82/Zng		1	2 – 6H									
(8)	Nut BDS 744–91/Zn		1	M 6 – 5									
9	Adjusting washer		*	370.005.00									
10	Rope	2/1	1	372.008.01	372.008.02	372.008.03	372.008.04	372.008.05	372.008.01	372.008.02	372.008.03	372.008.04	372.008.05
		4/1	1	—	—	374.008.03	374.008.04	374.008.05	—	—	374.008.03	374.008.04	374.008.05
[11]	Load limiter type HOT 05	2/1	1	362.300.00									
		4/1	1	364.300.00									
12	Spring		1	370.210.00									
[13]	Rope guide		1	370.200.10					370.200.20				
14	Adjusting washer		*	370.007.00									
[15]	Clutch complete		1	320.000.00			320.000.04	320.000.05	320.000.00			320.000.04	320.000.05
[16]	Drum complete, (Pos. 17 – 20)		1	340.000.01	340.000.02	340.000.03	340.000.04	340.000.05	340.000.01	340.000.02	340.000.03	340.000.04	340.000.05
[17]	Drum		1	340.100.01	340.100.02	340.100.03	340.100.04	340.100.05	340.100.01	340.100.02	340.100.03	340.100.04	340.100.05
18	Platte		3	370.006.00									
(19)	Screw BDS 2171–83/Zn		6	M 6x14 – 8.8									
(20)	Spring washer BDS 833–82/Zng		6	2 – 6H									

2.2. Size MH 4 and MHM 4 (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	472.000.11	472.000.12	472.000.13	472.000.14	472.000.15	472.000.21	472.000.22	472.000.23	472.000.24	472.000.25
		4/1	1	—	—	474.000.13	474.000.14	474.000.15	—	—	474.000.23	474.000.24	474.000.25
[1]	Body without load limiter	2/1	1	472.000.11	472.000.12	472.000.13	472.000.14	472.000.15	472.100.21	472.100.22	472.100.23	472.100.24	472.100.25
		4/1	1	—	—	474.100.13	474.100.14	474.100.15	—	—	474.100.23	474.100.24	474.100.25
(2)	Bolt BDS 1230–85/Zn		2	IM 6x20 – 5.6									
3	Racket		2	370.001.00									
(4)	Cotter pin BDS 55–77		2	2.5x14									
5	Rod		1	470.002.11	470.002.12	470.002.13	470.002.14	470.002.15	470.002.21	470.002.22	470.002.23	470.002.24	470.002.25
6	Fork		1	570.004.00									
(7)	Spring washer BDS 833–82/Zng		1	2 – 6H									
(8)	Nut BDS 744–91/Zn		1	M 6 – 5									
9	Adjusting washer		*	570 005 00									
10	Rope	2/1	1	472.008.01	472.008.02	472.008.03	472.008.04	472.008.05	472.008.01	472.008.02	472.008.03	472.008.04	472.008.05
		4/1	1	—	—	474.008.03	474.008.04	474.008.05	—	—	474.008.03	474.008.04	474.008.05
[11]	Load limiter type HOT 10	2/1	1	462.300.00									
		4/1	1	464.300.00									
12	Spring		1	470.210.00									
[13]	Rope guide		1										
	for MH 4		1	471.200.10					471.200.20				
	for MHM 4		1	470.200.10					470.200.20				
14	Adjusting washer		*	570.007.00									
[15]	Clutch complete		1	420.000.00		420.000.04	420.000.05	420.000.00			420.000.04	420.000.05	
[16]	Drum complete, (Pos. 17 – 20)												
	for MH 4		1	441.000.01	441.000.02	441.000.03	441.000.04	441.000.05	441.000.01	441.000.02	441.000.03	441.000.04	441.000.05
	for MHM 4		1	440.000.01	440.000.02	440.000.03	440.000.04	440.000.05	440.000.01	440.000.02	440.000.03	440.000.04	440.000.05
[17]	Drum												
	for MH 4		1	441.100.01	441.100.02	441.100.03	441.100.04	441.100.05	441.100.01	441.100.02	441.100.03	441.100.04	441.100.05
	for MHM 4		1	440.100.01	440.100.02	440.100.03	440.100.04	440.100.05	440.100.01	440.100.02	440.100.03	440.100.04	440.100.05
18	Platte		3	570.006.00									
(19)	Screw BDS 2171–83/Zn		6	M 10x25 – 8.8									
(20)	Spring washer BDS 833–82/Zng		6	2 – 10H									

2.3. Size MH 5 and MHM 5 (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	572.000.11	572.000.12	572.000.13	572.000.14	572.000.15	572.000.21	572.000.22	572.000.23	572.000.24	572.000.25
		4/1	1	—	—	574.000.13	574.000.14	574.000.15	—	—	574.000.23	574.000.24	574.000.25
[1]	Body without load limiter	2/1	1	572.000.11	572.000.12	572.000.13	572.000.14	572.000.15	572.100.21	572.100.22	572.100.23	572.100.24	572.100.25
		4/1	1	—	—	574.100.13	574.100.14	574.100.15	—	—	574.100.23	574.100.24	574.100.25
(2)	Bolt BDS 1230–85/Zn		2	IM 6x20 – 5.6									
3	Racket		2	370.001.00									
(4)	Cotter pin BDS 55–77		2	2.5x14									
5	Rod		1	570.002.11	570.002.12	570.002.13	570.002.14	570.002.15	570.002.21	570.002.22	570.002.23	570.002.24	570.002.25
6	Fork		1	570.004.00									
(7)	Spring washer BDS 833–82/Zng		1	2 – 6H									
(8)	Nut BDS 744–91/Zn		1	M 6 – 5									
9	Adjusting washer		*	570.005.00									
10	Rope	2/1	1	572.008.01	572.008.02	572.008.03	572.008.04	572.008.05	572.008.01	572.008.02	572.008.03	572.008.04	572.008.05
		4/1	1	—	—	574.008.03	574.008.04	574.008.05	—	—	574.008.03	574.008.04	574.008.05
[11]	Load limiter type HOT 16	2/1	1	562.300.00									
		4/1	1	564.300.00									
12	Spring		1	570.210.00									
[13]	Rope guide		1	570.210.00									
	for MH 5		1	571.200.10					571.200.20				
	for MHM 5		1	570.200.10					570.200.20				
14	Adjusting washer		*	570.007.00									
[15]	Clutch complete		1	520.000.00			520.000.04	520.000.05	520.000.00			520.000.04	520.000.05
[16]	Drum complete, (Pos. 17 – 20)												
	for MH 5		1	541.000.01	541.000.02	541.000.03	541.000.04	541.000.05	541.000.01	541.000.02	541.000.03	541.000.04	541.000.05
	for MHM 5		1	540.000.01	540.000.02	540.000.03	540.000.04	540.000.05	540.000.01	540.000.02	540.000.03	540.000.04	540.000.05
[17]	Drum												
	for MH 5		1	541.100.01	541.100.02	541.100.03	541.100.04	541.100.05	541.100.01	541.100.02	541.100.03	541.100.04	541.100.05
	for MHM 5		1	540.100.01	540.100.02	540.100.03	540.100.04	540.100.05	540.100.01	540.100.02	540.100.03	540.100.04	540.100.05
18	Platte		3	570.006.00									
(19)	Screw BDS 2171–83/Zn		6	M 10x30 – 8.8									
(20)	Spring washer BDS 833–82/Zng		6	2 – 10H									

2.4. Size MH 6 (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	672.000.12	672.000.13	672.000.14	672.000.15	672.000.16	672.000.17	672.000.22	672.000.23	672.000.24	672.000.25	672.000.26	672.000.27		
		4/1	1	—	674.000.13	674.000.14	674.000.15	674.000.16	674.000.17	—	674.000.23	674.000.24	674.000.25	674.000.26	674.000.27		
[1]	Body without load limiter	2/1	1	672.000.12	672.000.13	672.000.14	672.000.15	672.000.16	672.000.17	672.100.22	672.100.23	672.100.24	672.100.25	672.100.26	672.100.27		
		4/1	1	—	674.100.13	674.100.14	674.100.15	674.100.16	674.100.17	—	674.100.23	674.100.24	674.100.25	674.100.26	674.100.27		
(2)	Bolt BDS 1230–85/Zn		2	IM 6x20 – 5.6													
3	Racket		2	370.001.00													
(4)	Cotter pin BDS 55–77		2	2.5x14													
5	Rod		1	670.002.12	670.002.13	670.002.14	670.002.15	670.002.16	670.002.17	670.002.22	670.002.23	670.002.24	670.002.25	670.002.26	670.002.27		
6	Fork		1	670.004.00													
(7)	Spring washer BDS 833–82/Zng		1	2 – 6H													
(8)	Nut BDS 744–91/Zn		1	M 6 – 5													
9	Adjusting washer		*	670.005.00													
10	Rope	2/1	1	672.008.02	672.008.03	672.008.04	672.008.05	672.008.06	672.008.07	672.008.02	672.008.03	672.008.04	672.008.05	672.008.06	672.008.07		
		4/1	1	—	674.008.03	674.008.04	674.008.05	674.008.06	674.008.07	—	674.008.03	674.008.04	674.008.05	674.008.06	674.008.07		
[11]	Load limiter type HOT 25	2/1	1	662.300.00													
		4/1	1	664.300.00													
12	Spring		1	670.210.00													
[13]	Rope guide		1	670.200.10							670.200.20						
14	Adjusting washer		*	670.007.00													
[15]	Clutch complete		1	620.000.00		620.000.04	620.000.05	620.000.06	620.000.07	620.000.00		620.000.04	620.000.05	620.000.06	620.000.07		
[16]	Drum complete, (Pos. 17 – 20)		1	640.000.02	640.000.03	640.000.04	640.000.05	640.000.06	640.000.07	640.000.02	640.000.03	640.000.04	640.000.05	640.000.06	640.000.07		
[17]	Drum		1	640.100.02	640.100.03	640.100.04	640.100.05	640.100.06	640.100.07	640.100.02	640.100.03	640.100.04	640.100.05	640.100.06	640.100.07		
18	Platte		3	670.006.00													
(19)	Screw BDS 2171–83/Zn		6	M 12x30 – 8.8													
(20)	Spring washer BDS 833–82/Zng		6	2 – 12H													

2.5. Size MH 7 (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	772.000.12	772.000.13	772.000.14	772.000.15	772.000.16	772.000.17	772.000.22	772.000.23	772.000.24	772.000.25	772.000.26	772.000.27
		4/1	1	—	—	774.000.14	774.000.15	774.000.16	774.000.17	—	—	774.000.24	774.000.25	774.000.26	774.000.27
[1]	Body without load limiter	2/1	1	772.000.12	772.000.13	772.000.14	772.000.15	772.000.16	772.000.17	772.100.22	772.100.23	772.100.24	772.100.25	772.100.26	772.100.27
		4/1	1	—	—	774.100.14	774.100.15	774.100.16	774.100.17	—	—	774.100.24	774.100.25	774.100.26	774.100.27
(2)	Bolt BDS 1234–85/Zn		2	IM 6x20 – 5.6											
3	Racket		2	370.001.00											
(4)	Cotter pin BDS 55–77		2	2.5x16											
5	Rod		1	770.002.12	770.002.13	770.002.14	770.002.15	770.002.16	770.002.17	770.002.22	770.002.23	770.002.24	770.002.25	770.002.26	770.002.27
6	Fork		1	770.004.00											
(7)	Spring washer BDS 833–82/Zng		1	2 – 6H											
(8)	Nut BDS 744–91/Zn		1	M 6 – 5											
9	Adjusting washer		*	670.005.00											
10	Rope	2/1	1	772.008.02	772.008.03	772.008.04	772.008.05	772.008.06	772.008.07	772.008.02	772.008.03	772.008.04	772.008.05	772.008.06	772.008.07
		4/1	1	—	—	774.008.04	774.008.05	774.008.06	774.008.07	—	—	774.008.04	774.008.05	774.008.06	774.008.07
[11]	Load limiter type HOT 40	2/1	1	762.300.00											
		4/1	1	764.300.00											
12	Spring		1	770.210.00											
[13]	Rope guide		1	770.200.10						770.200.20					
14	Adjusting washer		*	770.007.00											
[15]	Clutch complete		1	720.000.00		720.000.04	720.000.05	720.000.06	720.000.07	720.000.00		720.000.04	720.000.05	720.000.06	720.000.07
[16]	Drum complete, (Pos. 17 – 25)		1	740.000.02	740.000.03	—				740.000.02	740.000.03	—			
[16]	Drum complete, (Pos. 17 – 24, 26 – 30)		1	—		740.000.04	740.000.05	740.000.06	740.000.07	—		740.000.04	740.000.05	740.000.06	740.000.07
[17]	Drum		1	740.100.02	740.100.03	740.100.04	740.100.05	740.100.06	740.100.07	740.100.02	740.100.03	740.100.04	740.100.05	740.100.06	740.100.07
18	Platte		3	770.006.00											
(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	770.009.00											
24	Pin		2	770.010.00											
25	Flange		1	770.011.00		—				770.011.00		—			
26	Casette		1	—		770.301.00				—		770.301.00			
(27)	Ring BDS 2170–77		1	B 35											
28	Bush		1	770.302.00											
(29)	Ring BDS 2170–77		2	A 72											
(30)	Ball bearing DIN 625		1	6207											

Note: "*" - Quantity of details attached to the passport of the item.

3. REEVING

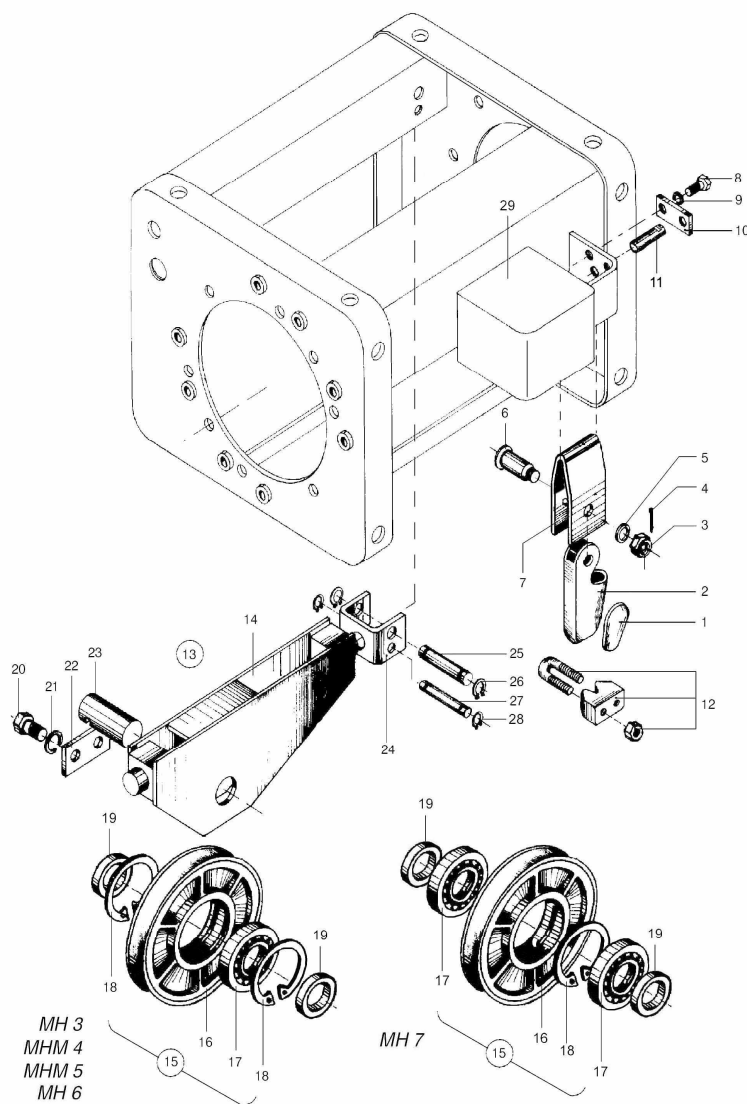


Fig. 4

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

Table 3.1

		Headroom		Size dr, mm	MH 3	MHM 4	MHM 5	MH 6	MH 7
		normal	reduced		7	10	12	15	18
Pos.	Designation	Reeving		QTY	Part number				
1	Wedge	2/1, 4/1	4/1	1	364.006.00	464.006.00	564.006.00	664.006.00	764.006.00
2	Wedge bush	2/1, 4/1	4/1	1	364.005.00	464.005.00	464.005.00	664.005.00	764.005.00
(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	364.009.00	464.009.00	464.009.00	664.009.00	764.009.00
7	Platte	2/1, 4/1	4/1	1	364.004.00	464.004.00	464.004.00	664.004.00	764.004.00
(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 platte	2/1, 4/1	4/1	1	364.002.00	364.002.00	364.002.00	364.002.00	364.002.00
11	Axle	2/1, 4/1	4/1	1	364.003.00	464.003.00	464.003.00	664.003.00	764.003.00
(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			MH 3	MHM 4	MHM 5	MH 6	MH 7
Rope diameter – dr, 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	364.120.00	464.120.00	564.120.00	664.120.00	764.120.00
16	Roller	1	364.121.00	464.121.00	564.121.00	664.121.00	764.121.00
(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	364.101.00	464.101.00	564.101.00	664.101.00	764.101.00
(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 platte	1	364.103.00	464.103.00	564.103.00	664.103.00	764.103.00
23	Axle	1	364.102.00	464.102.00	564.102.00	664.102.00	764.102.00
Fixing for traverse with roller complete							
24	Bracket	1	364.001.00	464.001.00	564.001.00	664.001.00	764.001.00
25	Axle	1	364.007.00	464.007.00	464.007.00	664.007.00	764.007.00
(26)	Ring BDS 2170–77	2	B 20	B 22	B 22	B 25	B 28
27	Axle	1	364.008.00	464.008.00	464.008.00	664.008.00	764.008.00
(28)	Ring BDS 2170–77	2	B 12	B 14	B 14	B 16	B 18
[29]	Load limiter	2/1	362.300.00	462.300.00	562.300.00	662.300.00	762.300.00
		4/1	364.300.00	464.300.00	564.300.00	664.300.00	764.300.00

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 MH 3							
[13]	Traverse with roller, complete (Pos. 14, 15, 20 ÷ 23)	1	364.100.03	364.100.04	364.100.05	—	—
[14]	Traverse	1	364.110.03	364.110.04	364.110.05	—	—
Size MHM 4							
[13]	Traverse with roller, complete (Pos. 14, 15, 20 ÷ 23)	1	464.100.03	464.100.04	464.100.05	—	—
[14]	Traverse	1	464.110.03	464.110.04	464.110.05	—	—
Size MHM 5							
[13]	Traverse with roller, complete (Pos.14, 15, 20 ÷ 23)	1	564.100.03	564.100.04	564.100.05	564.100.06	—
[14]	Traverse	1	564.110.03	564.110.04	564.110.05	564.110.06	—
Size MH 6							
[13]	Traverse with roller, complete (Pos.14, 15, 20 ÷ 23)	1	664.100.03	664.100.04	664.100.05	664.100.06	664.100.07
[14]	Traverse	1	664.110.03	664.110.04	664.110.05	664.110.06	664.110.07
Size MH 7							
[13]	Traverse with roller, complete (Pos.14, 15, 20 ÷ 23)	1	—	764.100.04	764.100.05	764.100.06	764.100.07
[14]	Traverse	1	—	764.110.04	764.110.05	764.110.06	764.110.07

4. CLUTCH

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

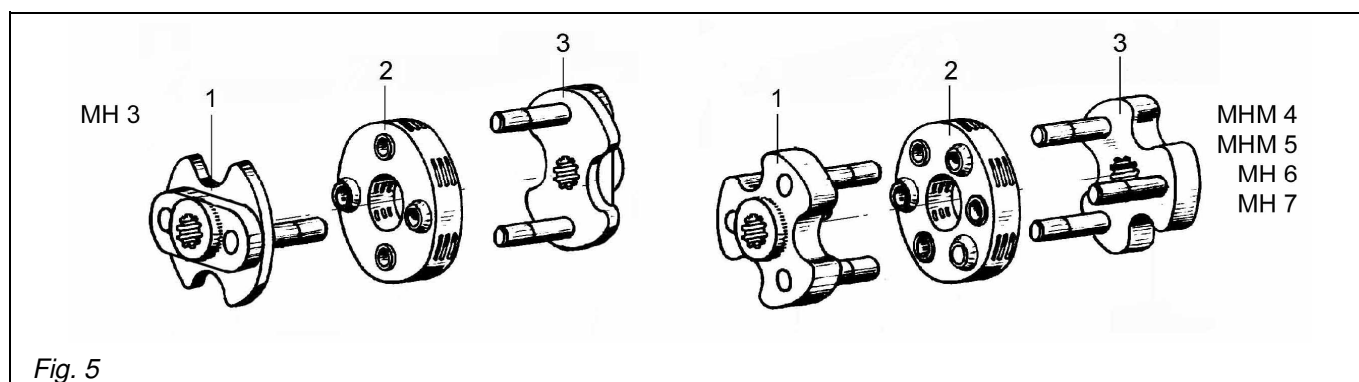


Table 4.1

Size			MH 3	MHM 4	MHM 5	MH 6	MH 7
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	320.000.00	420.000.00	520.000.00	620.000.00	720.000.00
[1]	Disc	1	320.010.00	420.010.00		620.010.00	720.010.00
[2]	Elastic body	1	320.030.00	420.030.00	520.030.00	620.030.00	720.030.00
[3]	Disc	1	320.020.00	420.020.00		620.020.00	720.020.00

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

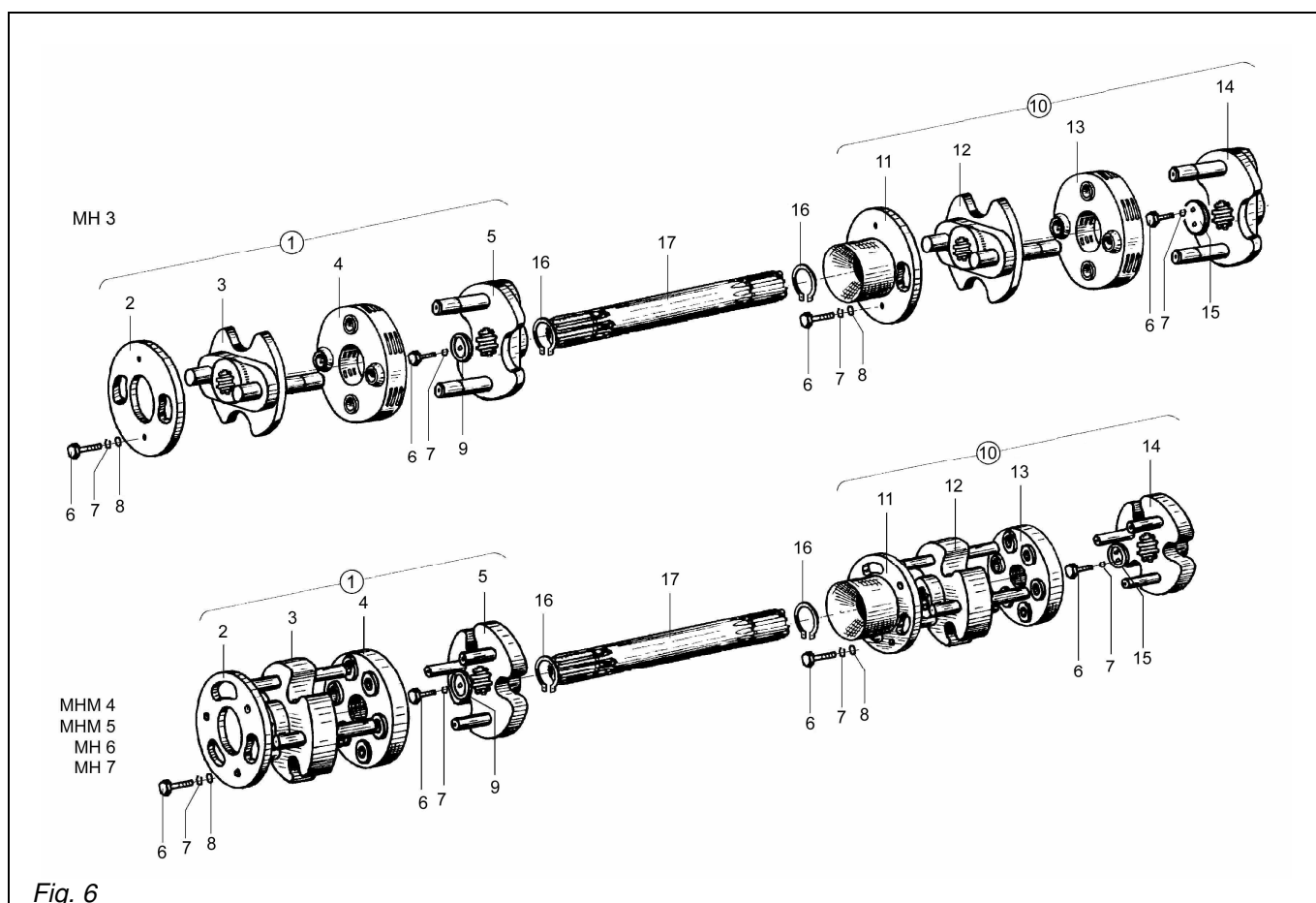


Table 4.2

Size			MH 3		MHM 4		MHM 5			MH 6				MH 7			
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	320.000.04 320.000.05	420.000.04 420.000.05	520.000.04 520.000.05 520.000.06	620.000.04 620.000.05 620.000.06 620 000 07	720.000.04 720.000.05 720.000.06 720.000.07										
[1]	Clutch	1	321.000.00	421.000.00	521.000.00	621.000.00	721.000.00										
2	Cover	1	321.002.00	421.002.00	421.002.00	621.002.00	–										
[3]	Disc	1	320.040.00	420.040.00	520.040.00	620.040.00	720.040.00										
[4]	Elastic body	1	320.030.00	420.030.00	520.030.00	620.030.00	720.030.00										
[5]	Disc	1	321.050.00	421.050.00	421.050.00	621.050.00	721.050.00										
(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	321.004.00	421.004.00	421.004.00	621.004.00	–										
[10]	Clutch	1	322.000.00	422.000.00	522.000.00	622.000.00	722.000.00										
11	Cover	1	322.002.00	422.002.00	422.002.00	622.002.00	–										
[12]	Disc	1	320.040.00	420.040.00	520.040.00	620.040.00	720.040.00										
[13]	Elastic body	1	320.030.00	420.030.00	520.030.00	620.030.00	720.030.00										
[14]	Disc	1	322.060.00	422.060.00	422.060.00	622.060.00	722.060.00										
15	Washer	1	322.005.00	422.005.00	422.005.00	622.005.00	–										
(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	B 25	B 35										
17	Shaft	1	320.001.04 320.001.05	420.001.04 420.001.05	520.001.04 520.001.05 520.001.06	620.001.04 620.001.05 620.001.06 620.001.07	720.001.04 720.001.05 720.001.06 720.001.07										

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

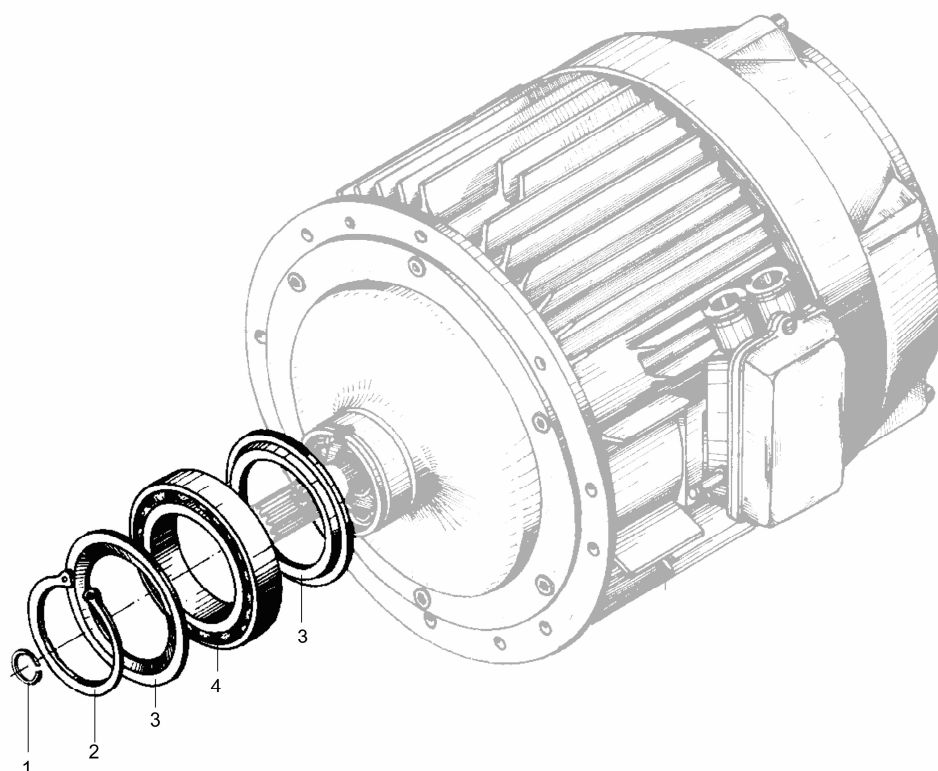


Fig. 7

Table 4.3

Size			MH 3	MHM 4	MHM 5	MH 6	MH 7
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	300.001.00	400.001.00	400.001.00	600.001.00	700.001.00
(4)	Ball bearing BDS 4843-84	1	6015	6016	6016	6021	6024

5. LOAD LIMITER, type HOT

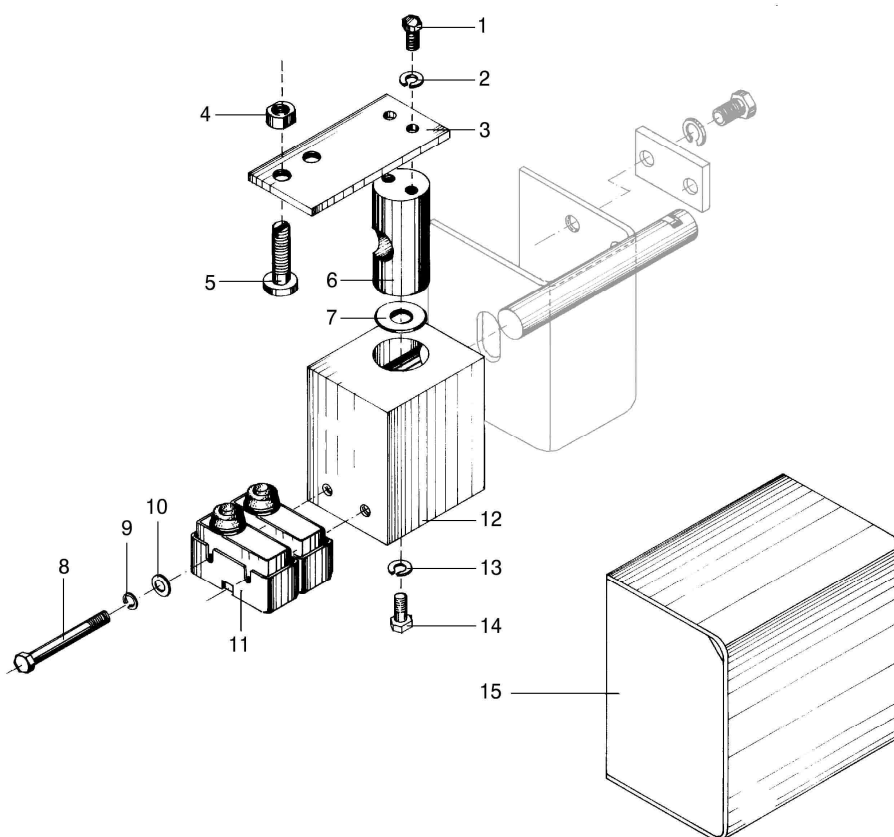


Fig. 8

Table 5.1

Size			MH 3		MHM 4		MHM 5		MH 6		MH 7	
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	364.300.00		464.300.00		564.300.00		664.300.00		764.300.00	
			362.300.00		462.300.00		562.300.00		662.300.00		762.300.00	
(1)	Bolt BDS 1234–85/Zn	2	M 6x12 – 5.6									
(2)	Spring washer BDS 833–82/Zng	2	2 – 6H									
3	Platte	1	364.301.00		464.301.00		464.301.00		664.301.00		764.301.00	
			362.301.00		462.301.00		462.301.00		662.301.00		762.301.00	
(4)	Nut BDS 1250–83/Zn	2	M8 x 0,8 – 5									
5	Screw	2	364.303.00									
6	Piston	1	364.302.00		464.302.00		464.302.00		664.302.00		764.302.00	
7	Spring complete	1	364.320.00		464.320.00		564.320.00		664.320.00		764.320.00	
(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	364.304.00		464.304.00		464.304.00		664.304.00		764.304.00	
(13)	Bolt BDS 1234–85/Zn	2	2M10x20 – 5.6									
(14)	Washer BDS 206–78/Zn	2	A M 10									
[15]	Cover	1	364.310.00		464.310.00		464.310.00		664.310.00		764.310.00	

6. HOOK SET

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

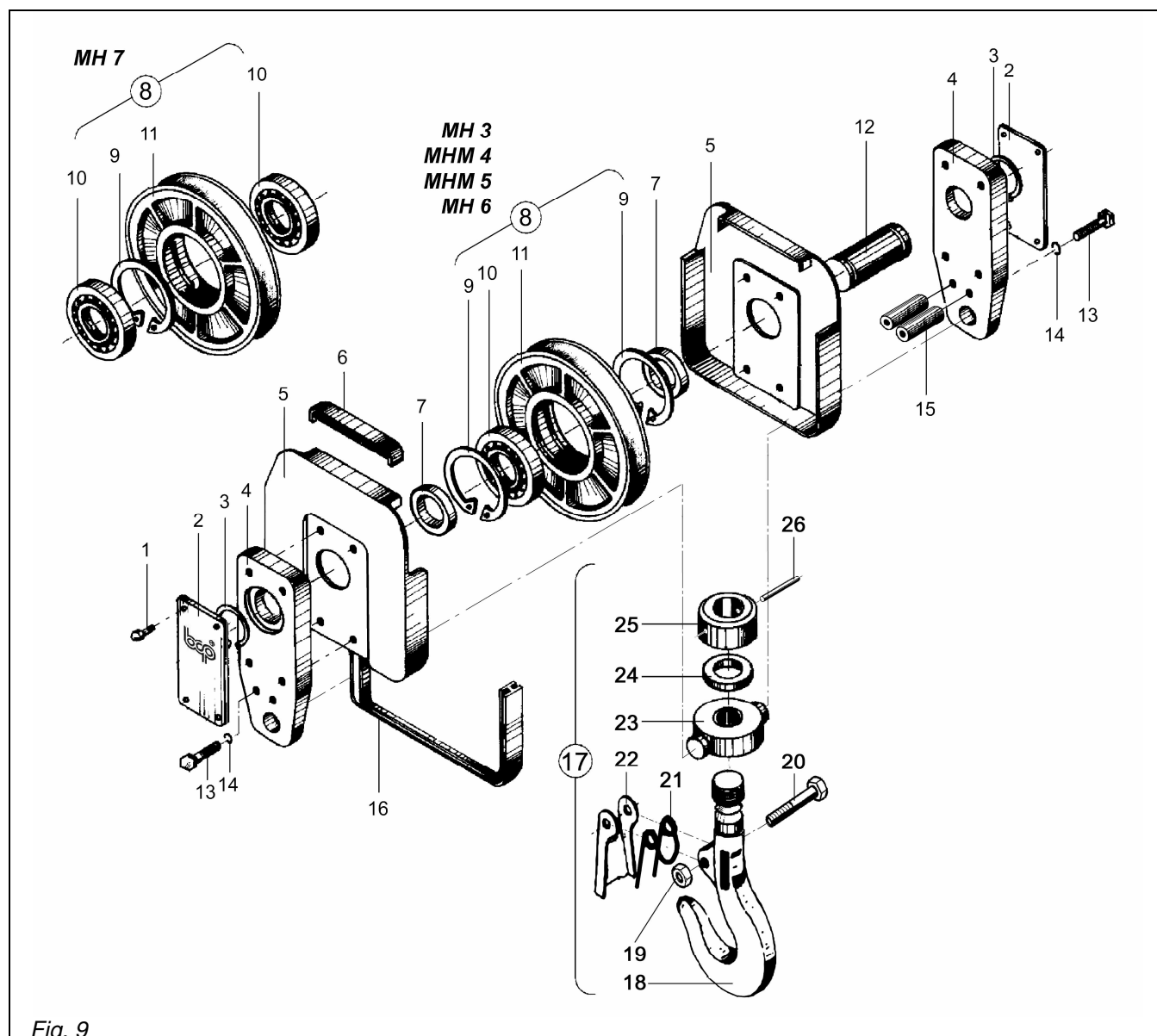


Table 6.1

Size			MH 3	MHM 4	MHM 5	MH 6	MH 7
Capacity, t			1	2	3.2	5	8
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 – dr, mm			7	10	12	15	18
Pos.	Designation	QTY	Part number				
–	Hook complete , fig. 9	1	362.200.00	462.200.00	562.200.00	662.200.00	762.200.00
(1)	Bolt BDS 1338–85/Zn	8	1B M4x5 – 5.8				
2	Plate	2	362.205.00	462.205.00	562.205.00	662.205.00	762.205.00
(3)	Ring BDS 2170–77	2	B 35	B 50	B 60	B 60	B 60
4	Platte	2	362.201.00	462.201.00	562.201.00	662.201.00	762.201.00
5	Cover	2	362.203.00	462.203.00	562.203.00	662.203.00	762.203.00
6	Profile	1	362.206.00	462.206.00	562.206.00	662.206.00	762.206.00
7	Bush	2	362.208.00	462.208.00	562.208.00	662.208.00	762.208.00
8	Roller complete (Pos. 9–11)	1	364.120.00	464.120.00	564.120.00	664.120.00	764.120.00
(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	364.121.00	464.121.00	564.121.00	664.121.00	764.121.00
12	Axle	1	362.204.00	462.204.00	562.204.00	662.204.00	762.204.00
(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	362.207.00	462.207.00	562.207.00	662.207.00	762.207.00
16	Profile	1	362.202.00	462.202.00	562.202.00	662.202.00	762.202.00
[17]	Hook with traverse (Pos. 18 ÷ 23)	1	362.210.00	462.210.00	562.210.00	662.210.00	762.210.00
18	Hook No: 0,5	1	362.211.00	–	–	–	–
	Hook No: 1	1	–	462.211.00	–	–	–
	Hook No: 1,6	1	–	–	562.211.00	–	–
	Hook No: 2,5	1	–	–	–	662.211.00	–
	Hook No: 4	1	–	–	–	–	762.211.00
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	362.215.00	462.215.00	562.215.00	662.215.00	662.215.00
22	Hook safety catch No: 0,5	1	362.216.00	–	–	–	–
	Hook safety catch No: 1	1	–	462.216.00	–	–	–
	Hook safety catch No: 1,6	1	–	–	562.216.00	–	–
	Hook safety catch No: 2,5	1	–	–	–	662.216.00	–
	Hook safety catch No: 4	1	–	–	–	–	762.216.00
23	Traverse	1	362.213.00	462.213.00	562.213.00	662.213.00	762.213.00
(24)	Bearing DIN 711	1	51105	51106	51107	51108	51210
25	Nut	1	362.214.00	462.214.00	562.214.00	662.214.00	762.214.00
(26)	Spring pin DIN 1481	1	4x50	4x50	6x60	8x65	10x85

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

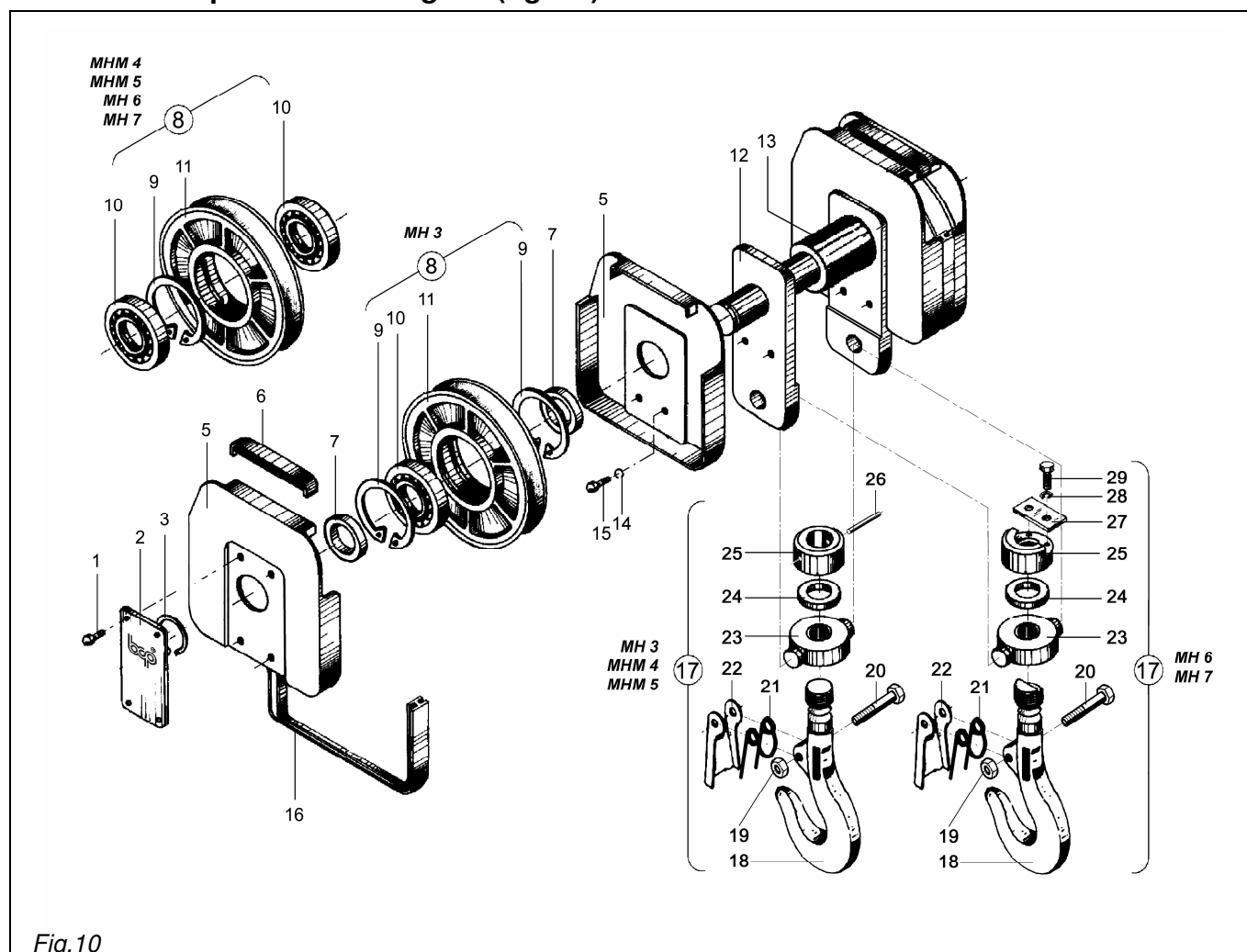


Fig.10

Table 6.2

Size			MH 3	MHM 4	MHM 5	MH 6	MH 7
Capacity, t			2	4	6.3	10	16
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 – dr, mm			7	10	12	15	18
Pos.	Designation	QTY	Part number				
–	Hook complete , fig. 10	1	364.200.00	464.200.00	564.200.00	664.200.00	764.200.00
(1)	Bolt BDS 1338–85/Zn	8	1B M4x5 – 8.8				
2	Plate	2	364.201.00	464.201.00	564.201.00	664.201.00	764.201.00
(3)	Ring BDS 2170–77	2	B 35	B 35	B 50	B 60	B 60
5	Cover	4	364.204.00	464.204.00	564.204.00	664.204.00	764.204.00
6	Profile	2	362.206.00	462.206.00	562.206.00	662.206.00	762.206.00
7	Bush	4	364.202.00	464.202.00	564.202.00	664.202.00	764.202.00
8	Roller complete (Pos. 9–11)	2	364.120.00	464.230.00	564.230.00	664.230.00	764.120.00
(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	364.121.00	464.231.00	564.231.00	664.231.00	764.121.00
12	Platte	2	364.205.00	464.205.00	564.205.00	664.205.00	764.205.00
13	Axle	1	364.203.00	464.203.00	564.203.00	664.203.00	764.203.00
(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	362.202.00	462.202.00	562.202.00	662.202.00	762.202.00
[17]	Hook with traverse (Pos. 18–29)	1	364.210.00	464.210.00	564.210.00	664.210.00	764.210.00
18	Hook No: 1	1	462.211.00	–	–	–	–
	Hook No: 2,5	1	–	662.211.00	–	–	–
	Hook No: 4	1	–	–	762.211.00	–	–
	Hook No: 6	1	–	–	–	664.211.00	–
	Hook No: 10	1	–	–	–	–	764.211.00
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	462.215.00	662.215.00	662.215.00	664.215.00	664.215.00
22	Hook safety catch No: 1	1	462.216.00	–	–	–	–
	Hook safety catch No: 2,5	1	–	662.216.00	–	–	–
	Hook safety catch No: 4	1	–	–	762.216.00	–	–
	Hook safety catch No: 6	1	–	–	–	664.216.00	–
	Hook safety catch No: 10	1	–	–	–	–	764.216.00
23	Traverse	1	364.213.00	464.213.00	564.213.00	664.213.00	764.213.00
(24)	Bearing DIN 711	1	51106	51108	51210	51214	51218
25	Nut	1	462.214.00	662.214.00	762.214.00	664.214.00	764.214.00
(26)	Spring pin DIN 1481	1	4x50	8x65	10x85	–	–
27	Platte	1	–	–	–	664.217.00	764.217.00
(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

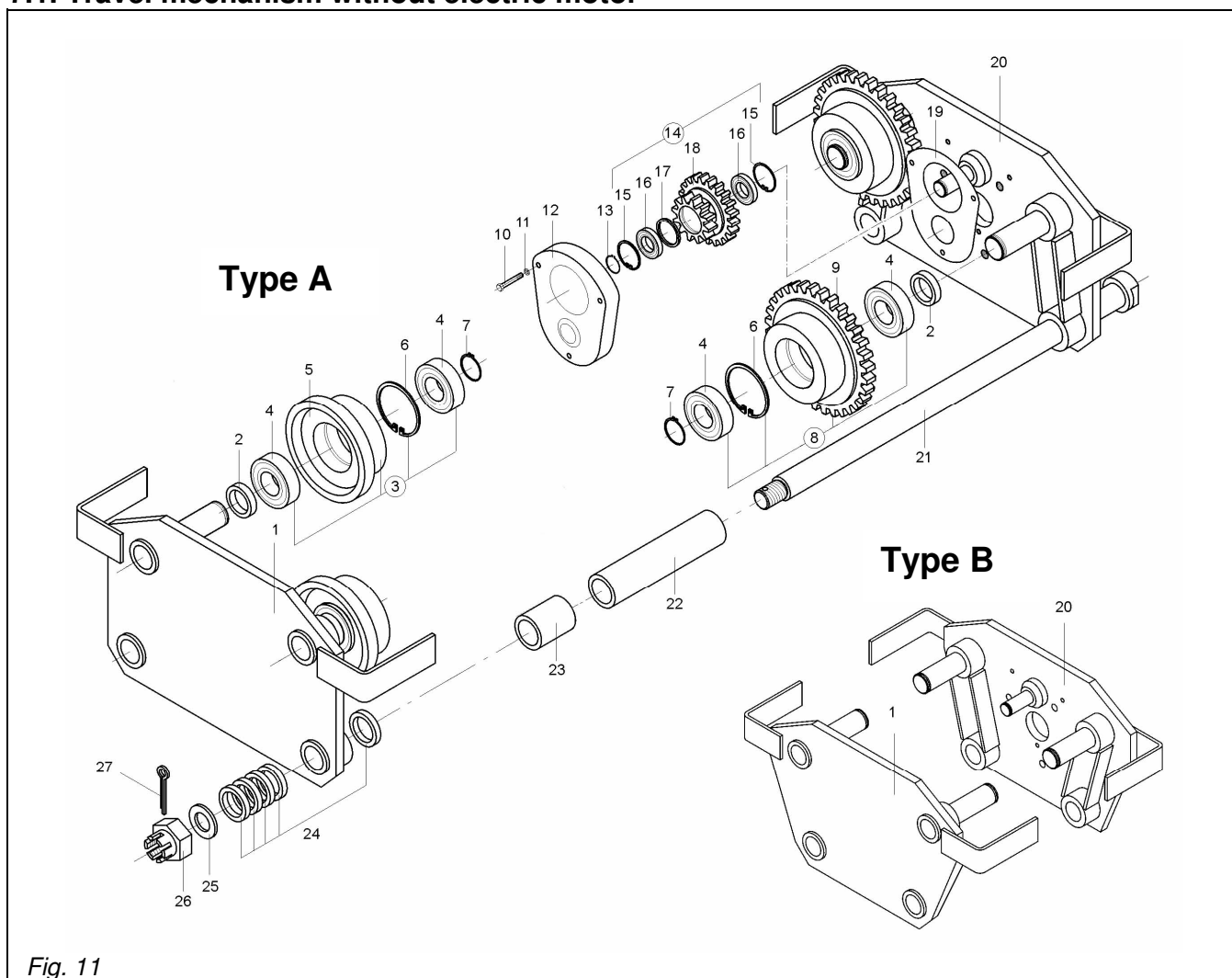


Fig. 11

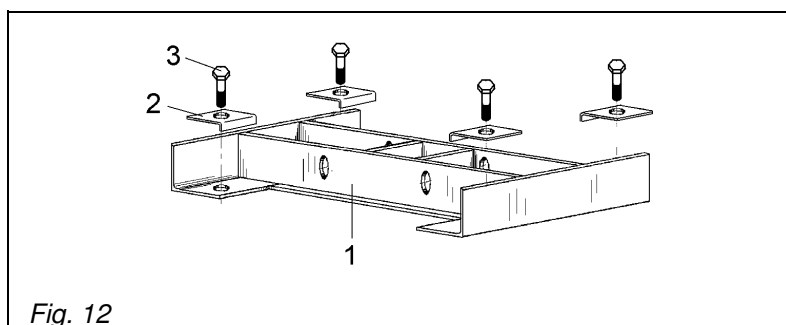


Fig. 12

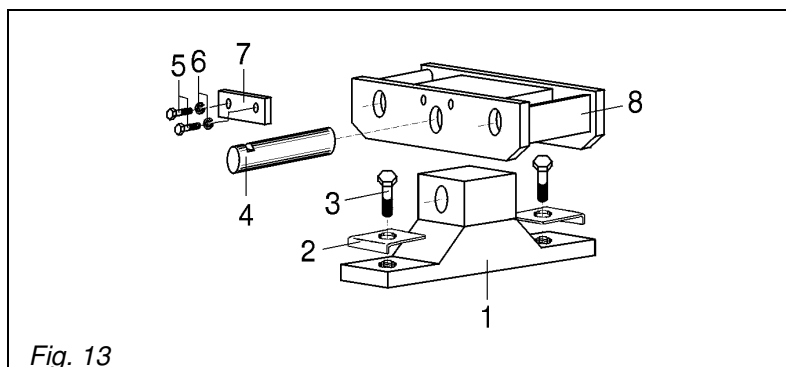


Fig. 13

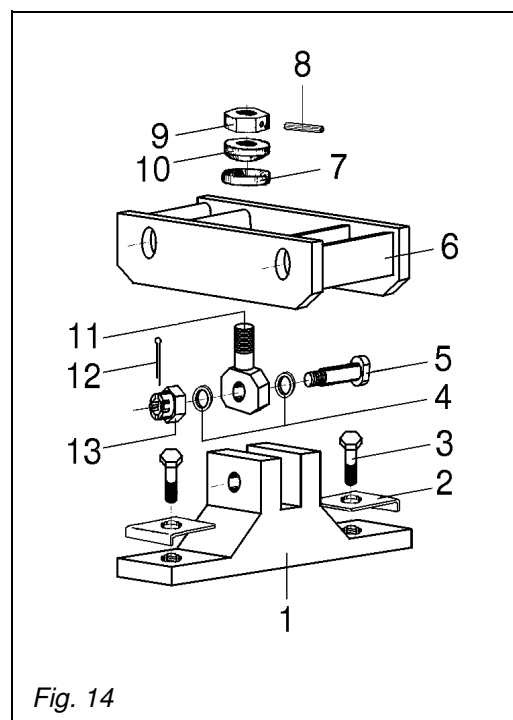


Fig. 14

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									
MH 3	–	Technical data	Capacity, t	1				–	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	101.100.01	101.100.12			101.100.01		121.100.12	101.100.01	
				b ₂ = 160...230	102.100.01	102.100.12			102.100.01		122.100.12	102.100.01	
				b ₃ = 230...300	103.100.01	103.100.12			103.100.01		123.100.12	103.100.01	
	12	Trolley, complete	Frame	100.200.01	100.200.02	100.200.03	–		125.200.04	–			
	13		Non-hinge	–			100.300.04		–	100.300.04			
14	Hinge		100.400.04				100.400.04						
MHM 4	–	Technical data	Capacity, t	2				–	4				
			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	121.100.01	121.100.12			121.100.01		121.100.12	121.100.01	
				b ₂ = 190...250	122.100.01	122.100.12			122.100.01		122.100.12	122.100.01	
				b ₃ = 250...300	123.100.01	123.100.12			123.100.01		123.100.12	123.100.01	
	12	Trolley, complete	Frame	125.200.01	125.200.02	125.200.03	–		125.200.05	–			
	13		Non-hinge	–			125.300.04		–	125.300.04			
14	Hinge		125.400.04				125.400.04						
MHM 5	–	Technical data	Capacity, t	3.2				–	6.3				
			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	121.100.01	121.100.12			121.100.01		161.100.12	121.100.01	
				b ₂ = 190...250	122.100.01	122.100.12			122.100.01		162.100.12	122.100.01	
				b ₃ = 250...300	123.100.01	123.100.12			123.100.01		163.100.12	123.100.01	
	12	Trolley, complete	Frame	126.200.01	126.200.02	126.200.03	–		160.200.04	–			
	13		Non-hinge	–			125.300.04		–	125.300.04			
14	Hinge		125.400.04				125.400.04						
MH 6	–	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	161.100.01	161.100.12			121.100.01		161.100.01		
				b ₂ = 200...250	162.100.01	162.100.12			122.100.01		162.100.01		
				b ₃ = 250...300	163.100.01	163.100.12			123.100.01		163.100.01		
	12	Trolley, complete	Frame	–	160.200.02	160.200.03	–		–				
	13		Non-hinge	–			125.300.05		160.300.03				
14	Hinge		125.400.05				160.400.03						
MH 7	–	Technical data	Capacity, t	–	8				–				
			Quantity of trolleys		2								
	11	Travel mechanism complete, Pos. 1 ÷ 27	Type		B								
			D _{sk} , mm		160								
			Profile		161.100.01								
					162.100.01								
					163.100.01								
	12	Trolley, complete	Frame		–								
	13		Non-hinge		160.300.02								
14	Hinge		160.400.02										

7.1.1. Trolley (fig. 11)

Table 7.2

Travel mechanism				b ₁ b ₂ b ₃	101.100.01 102.100.01 103.100.01	101.100.12 102.100.12 103.100.12	121.100.01 122.100.01 123.100.01	121.100.12 122.100.12 123.100.12	161.100.01 162.100.01 163.100.01	161.100.12 162.100.12 163.100.12
Type					B	A	B	A	B	A
Pos.	Designation	QTY	Part number							
[1]	Driven side wall with axles	1	100.140.00	100.140.10	125.140.00	125.140.10	160.140.00	160.140.10		
2	Space bush	4	100.101.00		125.101.00		160.101.00			
[3]	Driven travel wheel , complete (Pos. 4 ÷ 6)	2	100.150.00		125.150.00		160.150.00			
(4)	Ball bearing DIN 625	8	6305 – RS		6307 – RS		6309 – RS			
5	Driven travel wheel	2	100.151.00		125.151.00		160.151.00			
(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, 9)	2	100.130.00		125.130.00		160.130.00			
9	Driving travel wheel	2	100.131.00		125.131.00		160.131.00			
(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	100.160.00		125.160.00		160.160.00			
(13)	Ring BDS 2170–77	1	B 17		B 20		B 20			
[14]	Gear , complete (Pos. 15 ÷ 18)	1	100.120.00		125.120.00		160.120.00			
(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	100.122.00		125.122.00		125.122.00			
18	Gear	1	100.121.00		125.121.00		160.121.00			
19	Gasket	1	100.104.00		125.104.00		160.104.00			
[20]	Driving side wall with axles	1	100.110.00	100.110.10	125.110.00	125.110.10	160.110.00	160.110.10		
21	Stud	2	101.102.00 102.102.00 103.102.00		121.102.00 122.102.00 123.102.00		161.102.00 162.102.00 163.102.00			
22	Bush	2	100.103.01		125.103.01		160.103.01			
23	Bush	2	100.103.02		125.103.02		160.103.02			
24	Bush	42	100.103.03		–		–			
		30	–		125.103.03		–			
		36	–		–		160.103.03			
(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		II 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				MH 3		MHM 4		MHM 5		MH 6
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	100.200.01 100.200.02 100.200.03	– – 125.200.04	125.200.01 125.200.02 125.200.03	– – 125.200.05	126.200.01 126.200.02 126.200.03	– – 160.200.04	– 160.200.02 160.200.03
(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			MH 3	MHM 4; MHM 5	MH 6		MH 7
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	100.300.04	125.300.04	125.300.05	160.300.03	160.300.02
1	Bracket	1	100.301.00	125.301.00	125.301.10	160.301.10	160.301.00
(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	100.302.00	125.302.000	125.302.00	160.302.00	160.302.00
(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 platte BDS 2348–81	2	25	35	35	45	45
8	Frame	1	100.310.00	125.310.00	125.310.00	160.310.00	160.310.00

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

Table 7.5

Size			MH 3	MHM 4; MHM 5	MH 6		MH 7
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	100.400.04	125.400.04	125.400.05	160.400.03	160.400.02
1	Bracket	1	100.401.00	125.401.00	125.401.10	160.401.10	160.401.00
(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	100.402.00	125.402.00	125.402.10	160.402.10	160.402.00
5	Bolt	2	100.403.00	125.403.00		160.403.00	
6	Frame	2	100.410.00	125.410.00		160.410.00	
7	Conical washer	2	100.404.00	125.404.00		160.404.00	
(8)	Pin BDS 1980–78	2	6h11x55	8h11x73		8h11x115	
9	Nut	2	100.405.00	125.405.00		160.405.00	
10	Spherical washer	2	100.406.00	125.406.00		160.406.00	
11	Axle	2	100.407.00	125.407.00		160.407.00	
(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	101.100.01 102.100.01 103.100.01	101.100.12 102.100.12 103.100.12	121.100.01 122.100.01 123.100.01	121.100.12 122.100.12 123.100.12	161.100.01 162.100.01 163.100.01	161.100.12 162.100.12 163.100.12
		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		100.500.11		125.500.11			
	10	Unit with electric motor		100.500.12		125.500.12			
	12	Unit with electric motor		100.500.13		125.500.13			
	15	Unit with electric motor		100.500.14		125.500.14			
	12/4	Unit with electric motor		100.500.21		125.500.21			
	15/5	Unit with electric motor		100.500.22		125.500.22			
	20/6.5	Unit with electric motor		100.500.23		125.500.23			

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

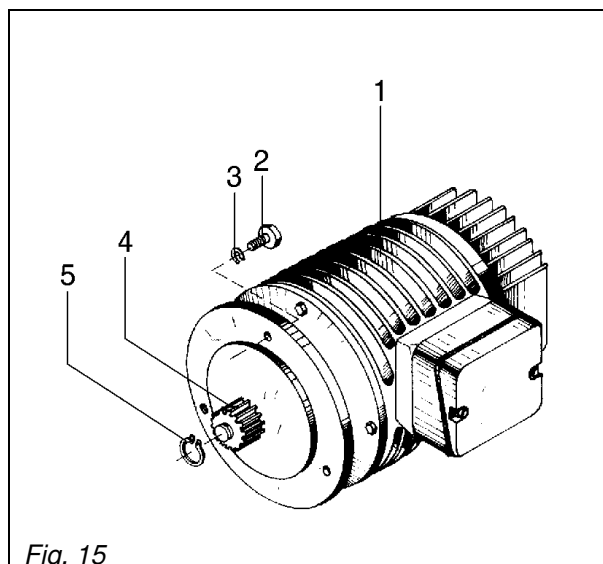


Fig. 15

Table 7.8

Pos.	Travel mechanism		b ₁ b ₂ b ₃	101.100.01 102.100.01 103.100.01	101.100.12 102.100.12 103.100.12	121.100.01 122.100.01 123.100.01	121.100.12 122.100.12 123.100.12	161.100.01 162.100.01 163.100.01	161.100.12 162.100.12 163.100.12
	Type			B	A	B	A	B	A
	Travel speed, m/min			20	32	20	32	20	32
	Designation		QTY	Part number					
1	Electric motor		1	KK 1204 – 6A KK 1204 – 4A KK1405 – 12/4A		KK 1405 – 6A KK 1405 – 4A KK 1407 – 12/4A		KK 1407 – 6A KK 1407 – 4A KK 1606 – 12/4A	
(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	100.501.11		125.501.11		125.501.11	
5	Safety ring		1	100.502.00		–		–	
(5)	Ring BDS 2170–77		1	–		B 12		B 12	

7.2.2. Drive unit – for travel speeds 8; 10; 12; 15 and 12/4; 15/5; 20/6 m/min (fig. 16)

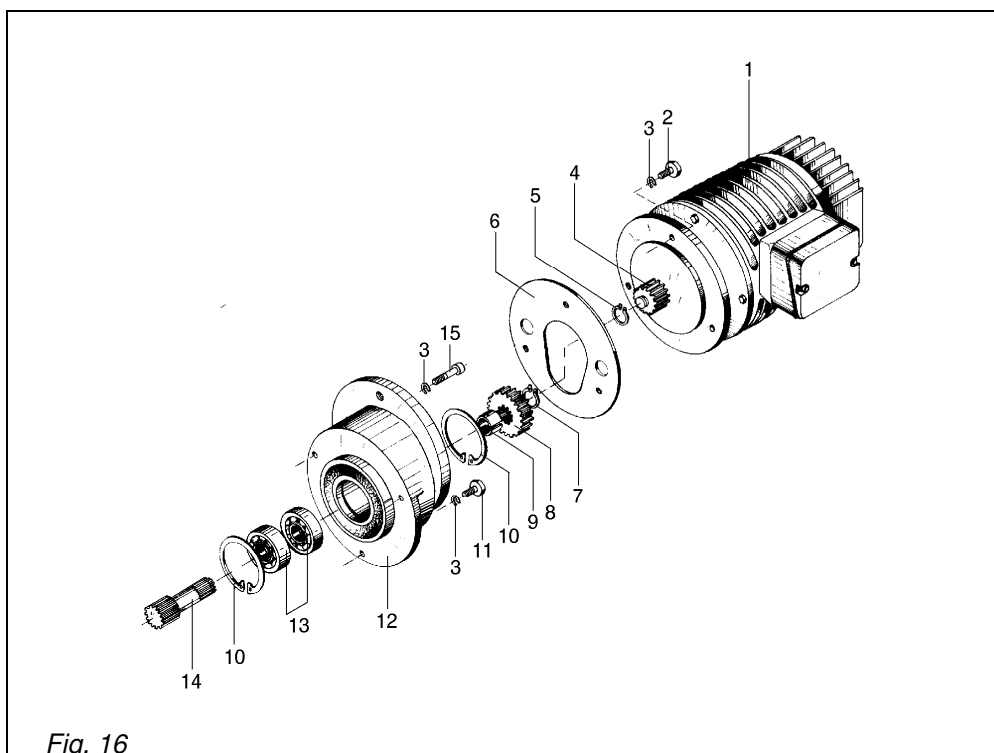


Table 7.9

Unit with electric motor			100.500.21 100.500.22 100.500.23	100.500.11 100.500.12 100.500.13	100.500.14	125.500.21 125.500.22 125.500.23	125.500.11 125.500.12 125.500.13	125.500.14
Travel speed, m/min			12/4 15/5 20/6	8 10 12	15	12/4 15/5 20/6	8 10 12	15
Pos.	Designation	QTY	Part number					
(1)	Electric motor – type	1	KK1405–12/4A	KK1204–6A	KK1204–4A	KK1407–12/4A	KK1405–6A	KK1405–4A
(2)	Bolt BDS 1230–85/Zn	3	I M 6x20 – 5.6			I M 8x20 – 5.6		
(3)	Spring washer BDS 833–82/Zng	6	2 – 6H			2 – 8H		
4	Gear	1	100.501.11 100.501.12 100.501.13	100.501.11 100.501.12 100.501.13	100.501.13	125.501.11 125.501.12 125.501.13	125.501.11 125.501.12 125.501.13	125.501.12
5	Safety ring	1	100.502.00			–		
(5)	Ring BDS 2170–77	1	–			B 12		
6	Gasket	1	100.503.00			125.503.00		
(7)	Ring BDS 2170–77	1	B 20			B 20		
8	Gear	1	100.504.11 100.504.12 100.504.13	100.504.11 100.504.12 100.504.13	100.504.12	125.504.11 125.504.12 125.504.13	125.504.11 125.504.12 125.504.13	125.504.12
9	Distance Bush	1	100.505.00			125.505.00		
(10)	Ring BDS 2170–77	2	A 42			A 47		
(11)	Bolt BDS 1230–85/Zn	1	I M 6x20 – 5.6			I M 8x20 – 5.6		
12	Body	1	100.506.00			125.506.00		
(13)	Ball bearing BDS 4843–84	2	6004			6204		
14	Shaft of gear wheel	1	100.507.00			125.507.00		
(15)	Screw BDS 2171–83/Zn	2	I M 6x55 – 6.8			I M 8x60 – 6.8		

8. TRAVEL MECHANISM – reduced headroom

8.1. Reeving 2/1 (fig. 17)

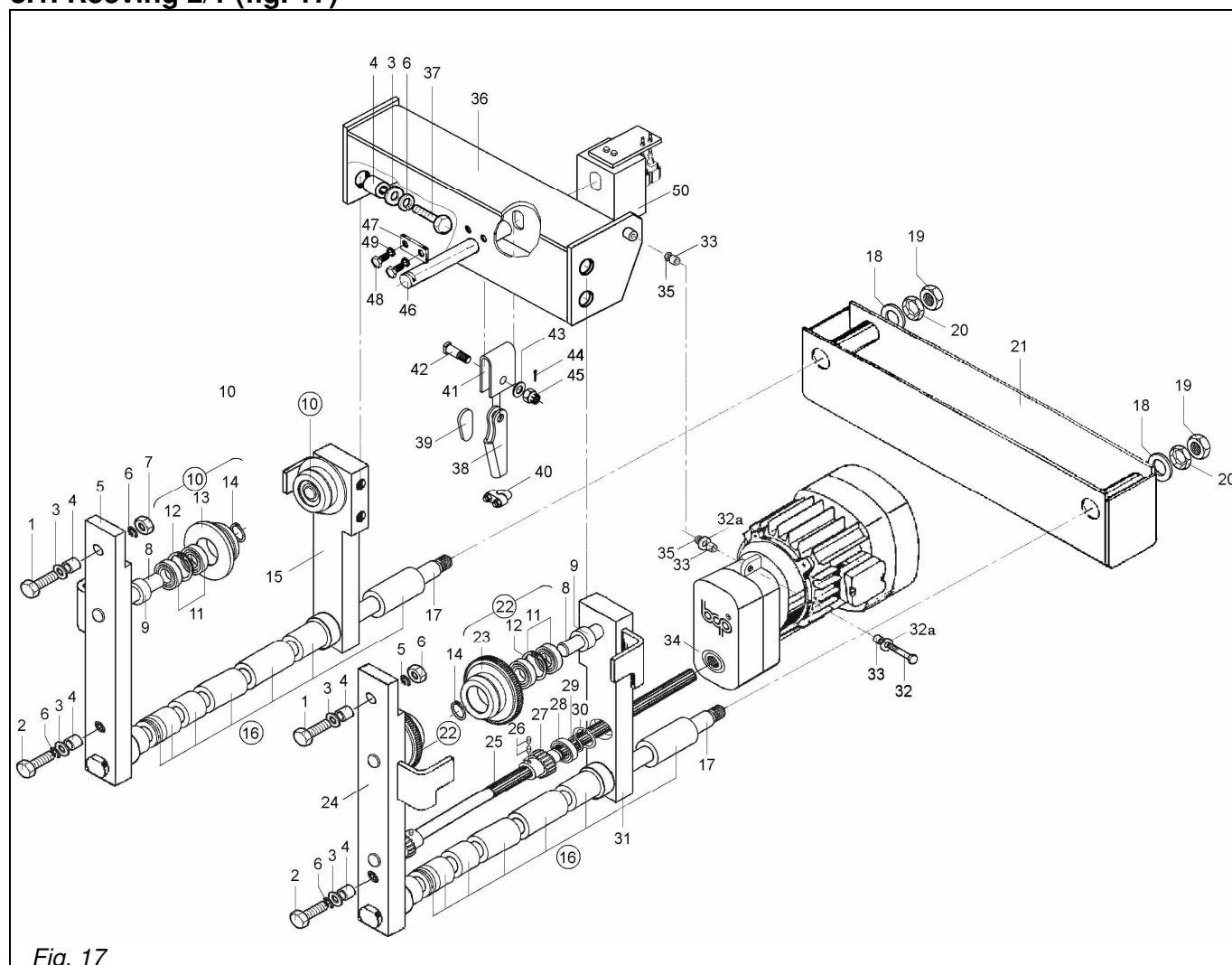


Fig. 17

8.1.1. Modification

Table 8.1

Size	width of profile, mm	Part number						
		Lifting height						
		H1	H2	H3	H4	H5	H6	H7
MH 3	b ₁ = 100 ... 170	380.000.11	380.000.12	380.000.13	380.000.14	380.000.15	–	–
	b ₂ = 170 ... 240	380.000.21	380.000.22	380.000.23	380.000.24	380.000.25	–	–
	b ₃ = 240 ... 300	380.000.31	380.000.32	380.000.33	380.000.34	380.000.35	–	–
MHM 4	b ₁ = 100 ... 170	480.000.11	480.000.12	480.000.13	480.000.14	480.000.15	–	–
	b ₂ = 170 ... 240	480.000.21	480.000.22	480.000.23	480.000.24	480.000.25	–	–
	b ₃ = 240 ... 300	480.000.31	480.000.32	480.000.33	480.000.34	480.000.35	–	–
MHM 5	b ₁ = 100 ... 170	580.000.11	580.000.12	580.000.13	580.000.14	580.000.15	580.000.16	–
	b ₂ = 170 ... 240	580.000.21	580.000.22	580.000.23	580.000.24	580.000.25	580.000.26	–
	b ₃ = 240 ... 300	580.000.31	580.000.32	580.000.33	580.000.34	580.000.35	580.000.36	–
MH 6	b ₁ = 100 ... 170	–	680.000.12	680.000.13	680.000.14	680.000.15	680.000.16	680.000.17
	b ₂ = 170 ... 240	–	680.000.22	680.000.23	680.000.24	680.000.25	680.000.26	680.000.27
	b ₃ = 240 ... 300	–	680.000.32	680.000.33	680.000.34	680.000.35	680.000.36	680.000.37
MH 7	b ₁ = 100 ... 170	–	780.000.12	780.000.13	780.000.14	780.000.15	780.000.16	780.000.17
	b ₂ = 170 ... 240	–	780.000.22	780.000.23	780.000.24	780.000.25	780.000.26	780.000.27
	b ₃ = 240 ... 300	–	780.000.32	780.000.33	780.000.34	780.000.35	780.000.36	780.000.37

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

Table 8.2

Size			MH 3	MHM 4	MHM 5	MH 6	MH 7
Capacity, t			1	2	3,2	5	8
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	381.001.00	481.001.00	481.001.00	681.001.00	781.001.00
[5]	Driven carrier II	1	381.110.00	481.110.00	481.110.00	681.110.00	781.110.00
(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	381.101.00	481.101.00	481.101.00	681.101.00	781.101.00
9	Space bush	4	381.102.00	481.102.00	481.102.00	681.102.00	781.102.00
10	Driven travel wheel , complete (Pos. 11...13)	2	100.150.10	125.150.10	125.150.10	160.150.10	200.150.10
(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	100.151.00	125.151.00	125.151.00	160.151.00	200.151.00
(14)	Ring BDS 2170-77	4	B 30	B 40	B 40	B 45	B 55
[15]	Driven carrier I	1	381.410.00	481.410.00	481.410.00	681.410.00	781.410.00
16	Bush, complete	2	381.004.00	481.004.00	481.004.00	681.004.00	781.004.00
17	Stud	2	381.002.00	481.002.00	481.002.00	681.002.00	781.002.00
(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	100.130.10	125.130.10	125.130.10	160.130.10	200.130.10
23	Driving travel wheel	1	100.131.10	125.131.10	125.131.10	160.131.10	200.131.10
[24]	Driving carrier II	1	381.210.00	481.210.00	481.210.00	681.210.00	781.210.00
25	Shaft	1	381.003.10 381.003.20 381.003.30	481.003.10 481.003.20 481.003.30	481.003.10 481.003.20 481.003.30	481.003.10 481.003.20 481.003.30	481.003.10 481.003.20 481.003.30
(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	381.201.00	481.201.00	481.201.00	581.201.00	581.201.00
(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	381.310.00	481.310.00	481.310.00	681.310.00	781.310.00
(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	481.124.00	481.124.00	481.124.00	481.124.00	481.124.00
[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	364.005.00	464.005.00	464.005.00	664.005.00	764.005.00
39	Wedge	1	364.006.00	464.006.00	564.006.00	664.006.00	764.006.00
(40)	Clamp DIN 1142, No	1	8	10	13	16	19
41	Platte	1	364.004.00	464.004.00	464.004.00	664.004.00	764.004.00
42	Axle	1	364.009.00	464.009.00	464.009.00	664.009.00	764.009.00
(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	364.003.00	464.003.00	464.003.00	664.003.00	764.003.00
47	Fixing platte	1	364.002.00	364.002.00	364.002.00	364.002.00	364.002.00
(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		362.300.00	462.300.00	562.300.00	662.300.00	762.300.00

8.2. Reeving 4/1 (fig. 18)

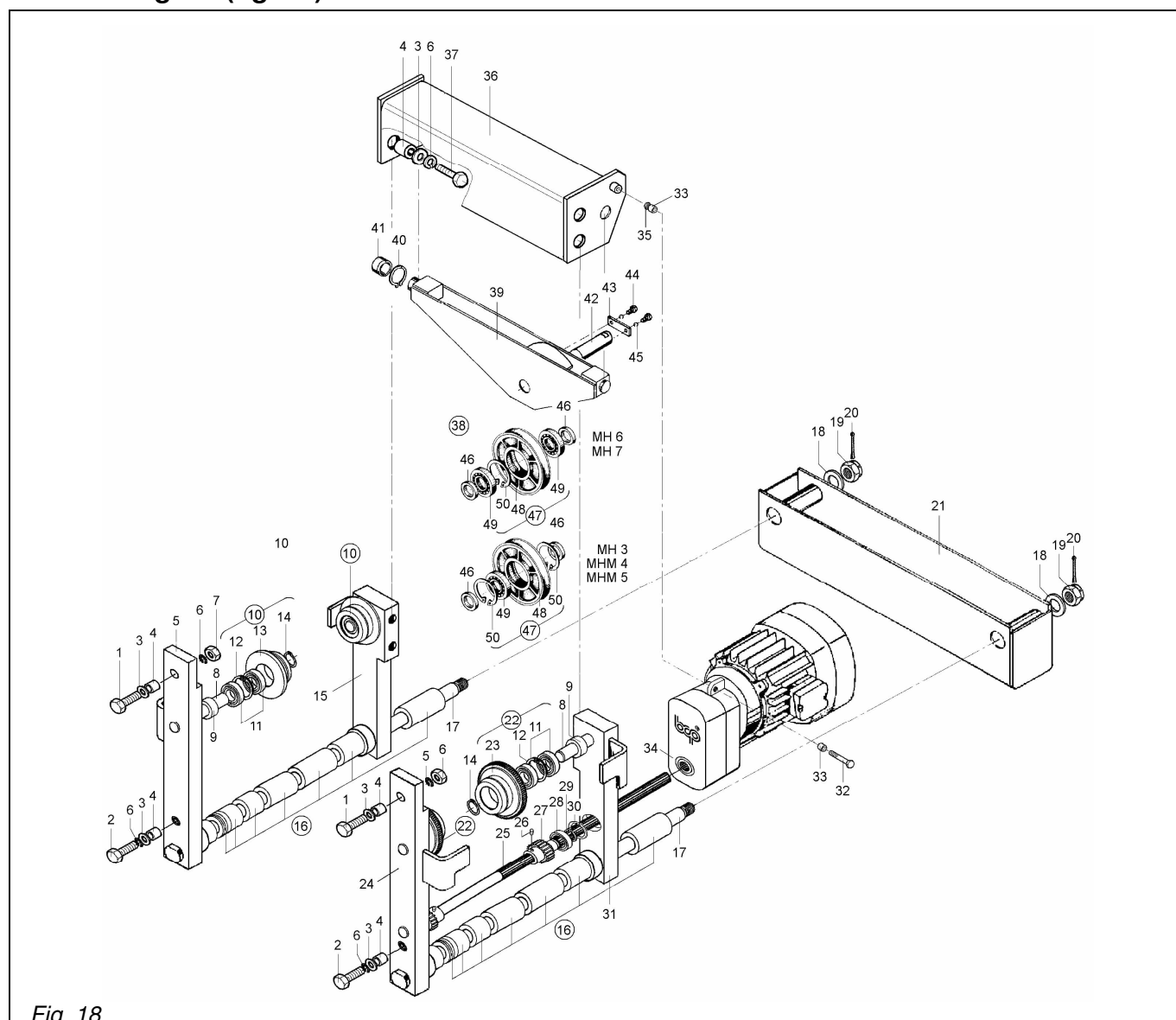


Fig. 18

8.2.1. Modification

Table 8.3

Size	Width of profile, mm	Part number						
		Lifting height						
		H1	H2	H3	H4	H5	H6	H7
MH 3	b ₁ = 100 ... 170	—	—	381.000.13	381.000.14	381.000.15	—	—
	b ₂ = 170 ... 240	—	—	381.000.23	381.000.24	381.000.25	—	—
	b ₃ = 240 ... 300	—	—	381.000.33	381.000.34	381.000.35	—	—
MHM 4	b ₁ = 100 ... 170	—	—	481.000.13	481.000.14	481.000.15	—	—
	b ₂ = 170 ... 240	—	—	481.000.23	481.000.24	481.000.25	—	—
	b ₃ = 240 ... 300	—	—	481.000.33	481.000.34	481.000.35	—	—
MHM 5	b ₁ = 100 ... 170	—	—	581.000.13	581.000.14	581.000.15	581.000.16	—
	b ₂ = 170 ... 240	—	—	581.000.23	581.000.24	581.000.25	581.000.26	—
	b ₃ = 240 ... 300	—	—	581.000.33	581.000.34	581.000.35	581.000.36	—
MH 6	b ₁ = 100 ... 170	—	—	681.000.13	681.000.14	681.000.15	681.000.16	681.000.17
	b ₂ = 170 ... 240	—	—	681.000.23	681.000.24	681.000.25	681.000.26	681.000.27
	b ₃ = 240 ... 300	—	—	681.000.33	681.000.34	681.000.35	681.000.36	681.000.37
MH 7	b ₁ = 100 ... 170	—	—	—	781.000.14	781.000.15	781.000.16	781.000.17
	b ₂ = 170 ... 240	—	—	—	781.000.24	781.000.25	781.000.26	781.000.27
	b ₃ = 240 ... 300	—	—	—	781.000.34	781.000.35	781.000.36	781.000.37

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

Table 8.4

Size			MH 3	MHM 4	MHM 5	MH 6	MH 7
Capacity, t			2	4	6,3	10	16
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	381.001.00	481.001.00	481.001.00	681.001.00	781.001.00
[5]	Driven carrier II	1	381.110.00	481.110.00	581.110.00	681.110.00	781.110.00
(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	381.101.00	481.101.00	581.101.00	681.101.00	781.101.00
9	Space bush	4	381.102.00	481.102.00	581.102.00	681.102.00	781.102.00
10	Driven travel wheel, complete (Pos. 11...13)	2	100.150.10	125.150.10	160.150.10	200.150.10	250.150.10
(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	100.151.00	125.151.00	160.151.00	200.151.00	250.151.00
(14)	Ring BDS 2170-77	4	B 30	B 40	B 45	B 55	B 65
[15]	Driven carrier I	1	381.410.00	481.410.00	581.410.00	681.410.00	781.410.00
16	Bush, complete	2	381.004.00	481.004.00	581.004.00	681.004.00	781.004.00
17	Stud	2	381.002.00	481.002.00	581.002.00	681.002.00	781.002.00
(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	100.130.10	125.130.10	160.130.10	200.130.10	250.130.10
23	Driving travel wheel	1	100.131.10	125.131.10	160.131.10	200.131.10	250.131.10
[24]	Driving carrier II	1	381.210.00	481.210.00	581.210.00	681.210.00	781.210.00
25	Shaft	1	381.003.10 381.003.20 381.003.30	481.003.10 481.003.20 481.003.30	481.003.10 481.003.20 481.003.30	481.003.10 481.003.20 481.003.30	481.003.10 481.003.20 481.003.30
(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	381.201.00	481.201.00	581.201.00	681.201.00	781.201.00
(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	381.310.00	481.310.00	581.310.00	681.310.00	781.310.00
(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	481.124.00	481.124.00	481.124.00	481.124.00	481.124.00
[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	360.001.00	460.001.00	560.001.00	660.001.00	760.001.00
42	Axle	1	364.102.00	464.102.00	564.102.00	664.102.00	764.102.00
43	Fixing platte	1	364.103.00	464.103.00	564.103.00	664.103.00	764.103.00
(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	364.101.00	464.101.00	564.101.00	664.101.00	764.101.00
(47)	Roller complete (Pos. 48 ÷ 50)	1	364.120.00	464.120.00	564.120.00	664.120.00	764.120.00
48	Roller	1	364.121.00	464.121.00	564.121.00	664.121.00	764.121.00
(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. Gearmotors, 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 MH 3, Reeving 2/1 and 4/1																			
	17, 18	[34]	Gear-motor	1	380.500.10	380.500.40	380.500.20	380.500.50	380.500.30	380.500.60										
			– Reducer		R2X100/12		R2X100/10		R2X100/7											
			– Electric motor		T 71A – 4R		T 80A – 12/4R		T 71A – 4R		T 80A – 12/4R									
	Size MHM 4, Reeving 2/1 and 4/1																			
	17, 18	[34]	Gear-motor	1	480.500.10	480.500.40	480.500.20	480.500.50	480.500.30	480.500.60										
			– Reducer		R3X100/15		R2X100/12		R2X100/10											
			– Electric motor		T 71A – 4R		T 80A – 12/4R		T 71B – 4R		T 80B – 12/4R									
	Size MHM 5, Reeving 2/1																			
	17	[34]	Gear-motor	1	480.500.10	480.500.40	480.500.20	480.500.50	480.500.30	480.500.60										
			– Reducer		R3X100/15		R2X100/12		R2X100/10											
			– Electric motor		T 71A – 4R		T 80A – 12/4R		T 71B – 4R		T 80B – 12/4R									
	Size MHM 5, Reeving 4/1																			
	18	[34]	Gear-motor	1	581.500.10	581.500.40	581.500.20	581.500.50	581.500.30	581.500.60										
			– Reducer		R3X100/20		R3X100/15		R2X100/12											
			– Electric motor		T 71B – 4R		T 80B – 12/4R		T 71B – 4R		T 80B – 12/4R									
	Size MH 6, Reeving 2/1																			
	17	[34]	Gear-motor	1	581.500.10	581.500.40	581.500.20	581.500.50	581.500.30	581.500.60										
			– Reducer		R3X100/20		R3X100/15		R2X100/12											
			– Electric motor		T 71B – 4R		T 80B – 12/4R		T 71B – 4R		T 80B – 12/4R									
	Size MH 6, Reeving 4/1																			
	18	[34]	Gear-motor	1	681.500.10	680.500.40	681.500.20	680.500.50	681.500.30	681.500.60										
			– Reducer		R3X125/25		R3X125/19		R3X125/15											
			– Electric motor		T 80A – 4R		T 90S – 12/4R		T 80B – 6R		T 90S – 12/4R									
Size MH 7, Reeving 2/1																				
17	[34]	Gear-motor	1	681.500.10	680.500.40	681.500.20	680.500.50	681.500.30	681.500.60											
		– Reducer		R3X125/25		R3X125/19		R3X125/15												
		– Electric motor		T 80A – 4R		T 90S – 12/4R		T 80B – 6R		T 90S – 12/4R										
Size MH 7, Reeving 4/1																				
18	[34]	Gear-motor	1	781.500.10	781.500.40	784700.20	781.500.50	781.500.30	781.500.60											
		– Reducer		R3X125/25		R3X125/19		R3X125/15												
		– Electric motor		T 80B – 4R		T 90L – 12/4R		T 80B – 4R		T 90L – 12/4R										
Travel speed, m/min															12	12/3	16	16/4	20	20/5
2 (8/2) – polar electric motor	Size MH 3, Reeving 2/1 and 4/1																			
	17, 18	[34]	Gear-motor	1	380.600.10	380.600.40	380.600.20	380.600.50	380.600.30	380.600.60										
			– 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									
	Size MHM 4, Reeving 2/1 and 4/1																			
	17, 18	[34]	Gear-motor	1	480.600.10	480.600.40	480.600.20	480.600.50	480.600.30	480.600.60										
			– 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									
	Size MHM 5, Reeving 2/1																			
	17	[34]	Gear-motor	1	480.600.10	480.600.40	480.600.20	480.600.50	480.600.30	480.600.60										
			– 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									
	Size MHM 5, Reeving 4/1																			
	18	[34]	Gear-motor	1	581.600.10	581.600.40	581.600.20	581.600.50	581.600.30	581.600.60										
			– 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									
	Size MH 6, Reeving 2/1																			
	17	[34]	Gear-motor	1	581.600.10	581.600.40	581.600.20	581.600.50	581.600.30	581.600.60										
			– Reducer		TP 160/39		TP 160/30		TP 160/22											
			– Electric motor		T 71A – 2R		T 80A – 8/2R		T 71B – 2R		T 80B – 8/2R									
	Size MH 6, Reeving 4/1																			
	18	[34]	Gear-motor	1	681.600.10	681.600.40	681.600.20	681.600.50	681.600.30	681.600.60										
			– 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									
Size MH 7, Reeving 2/1																				
17	[34]	Gear-motor	1	681.600.10	681.600.40	681.600.20	681.600.50	681.600.30	681.600.60											
		– 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										
Size MH 7, Reeving 4/1																				
18	[34]	Gear-motor	1	781.600.10	781.600.40	781.700.20	781.600.50	781.600.30	781.600.60											
		– Reducer		TP 200/50		TP 200/40		TP 200/32												
		– Electric motor		T 80A – 2R		T 90S – 8/2R		T 80A – 2R		T 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 MH 3, Reeving 2/1, fig. 17									
[21]	Counterweight box	1	380.010.01	380.010.02	381.010.03	381.010.04	381.010.05	–	–
[36]	Frame	1	380.020.01	380.020.02	380.020.03	380.020.04	380.020.05	–	–
Size MH 3, Reeving 4/1, fig. 18									
[21]	Counterweight box	1	–	–	381.010.03	381.010.04	381.010.05	–	–
[36]	Frame	1	–	–	381.020.03	381.020.04	381.020.05	–	–
[38]	Traverse with roller (Pos. 39 ÷ 47)	1	–	–	364.100.03	364.100.04	364.100.05	–	–
[39]	Traverse	1	–	–	364.110.03	364.110.04	364.110.05	–	–
Size MHM 4, Reeving 2/1, fig. 17									
[21]	Counterweight box	1	480.010.01	480.010.02	481.010.03	481.010.04	481.010.05	–	–
[36]	Frame	1	480.020.01	480.020.02	480.020.03	480.020.04	480.020.05	–	–
Size MHM 4, Reeving 4/1, fig. 18									
[21]	Counterweight box	1	–	–	481.010.03	481.010.04	481.010.05	–	–
[36]	Frame	1	–	–	481.020.03	481.020.04	481.020.05	–	–
[38]	Traverse with roller (Pos. 39 ÷ 47)	1	–	–	464.100.03	464.100.04	464.100.05	–	–
[39]	Traverse	1	–	–	464.110.03	464.110.04	464.110.05	–	–
Size MHM 5, Reeving 2/1, fig. 17									
[21]	Counterweight box	1	580.010.01	580.010.02	581.010.03	581.010.04	581.010.05	581.010.06	–
[36]	Frame	1	580.020.01	580.020.02	580.020.03	580.020.04	580.020.05	580.020.06	–
Size MHM 5, Reeving 4/1, fig. 18									
[21]	Counterweight box	1	–	–	581.010.03	581.010.04	581.010.05	581.010.06	–
[36]	Frame	1	–	–	581.020.03	581.020.04	581.020.05	581.020.06	–
[38]	Traverse with roller (Pos. 39 ÷ 47)	1	–	–	564.100.03	564.100.04	564.100.05	564.100.06	–
[39]	Traverse	1	–	–	564.110.03	564.110.04	564.110.05	564.110.06	–
Size MH 6, Reeving 2/1, fig. 17									
[21]	Counterweight box	1	–	680.010.02	680.010.03	680.010.04	680.010.05	680.010.06	680.010.07
[36]	Frame	1	–	680.020.02	680.020.03	680.020.04	680.020.05	680.020.06	680.020.07
Size MH 6, Reeving 4/1, fig. 18									
[21]	Counterweight box	1	–	–	681.010.03	681.010.04	681.010.05	681.010.06	681.010.07
[36]	Frame	1	–	–	681.020.03	681.020.04	681.020.05	681.020.06	681.020.07
[38]	Traverse with roller (Pos. 39 ÷ 47)	1	–	–	664.100.03	664.100.04	664.100.05	664.100.06	664.100.07
[39]	Traverse	1	–	–	664.110.03	664.110.04	664.110.05	664.110.06	664.110.07
Size MH 7, Reeving 2/1, fig. 17									
[21]	Counterweight box	1	–	780.010.02	780.010.03	781.010.04	781.010.05	781.010.06	781.010.07
[36]	Frame	1	–	780.020.02	780.020.03	780.020.04	780.020.05	780.020.06	780.020.07
Size MH 7, Reeving 4/1, fig. 18									
[21]	Counterweight box	1	–	–	–	781.010.04	781.010.05	781.010.06	781.010.07
[36]	Frame	1	–	–	–	781.020.04	781.020.05	781.020.06	781.020.07
[38]	Traverse with roller (Pos. 39 ÷ 47)	1	–	–	–	764.100.04	764.100.05	764.100.06	764.100.07
[39]	Traverse	1	–	–	–	764.110.04	764.110.05	764.110.06	764.110.07

9. CONTROL BLOCK

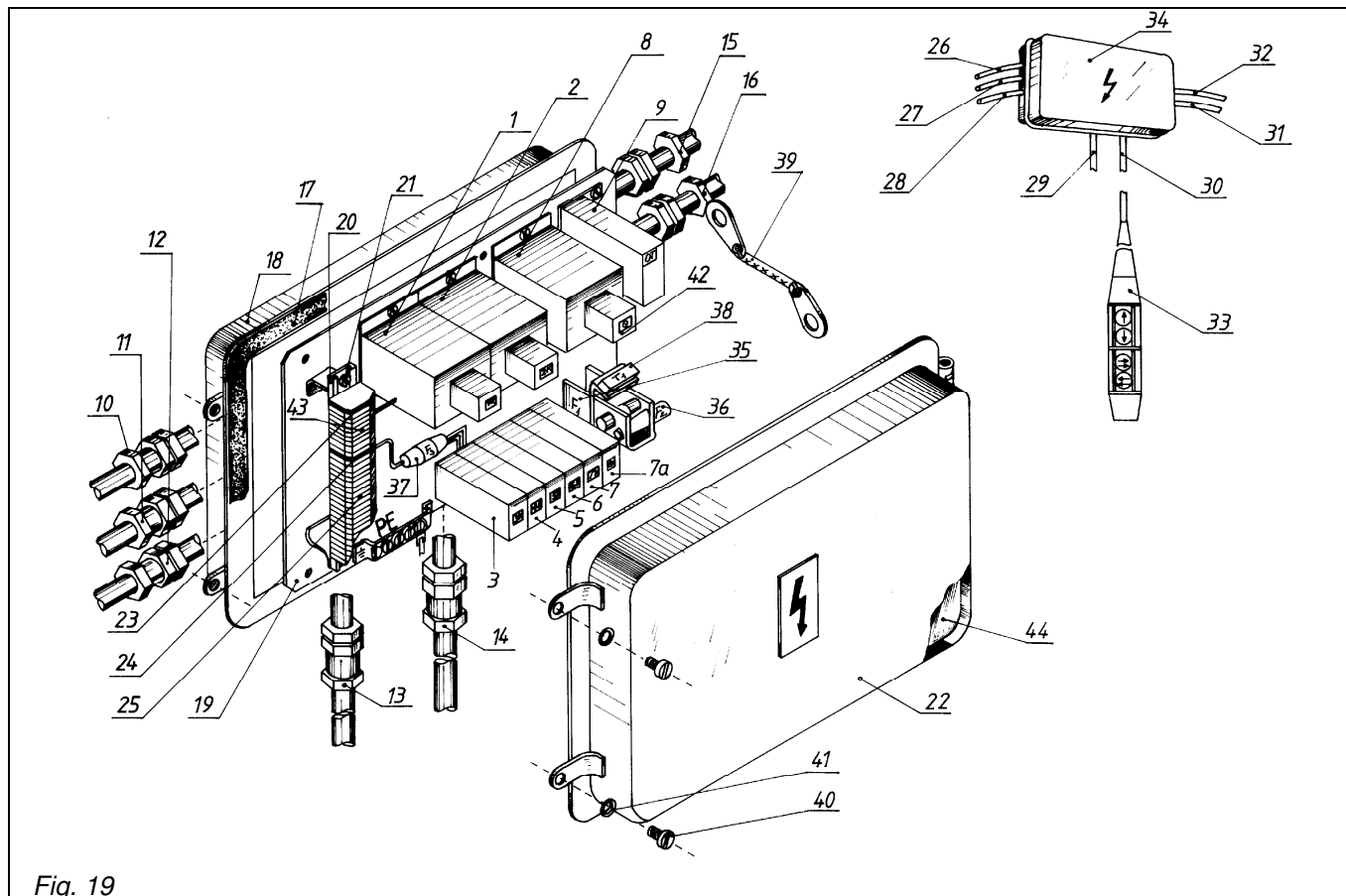


Fig. 19

9.1. Electric diagram

Table 9.1

Lifting speeds		Travel speed		Number of the electric diagram (Pos.44)	
basic	reduced	basic	reduced	No	Designation
Y	—	—	—	305.000 – 09.01.00.00.201	01
Y	Y	—	—	305.000 – 09.02.00.00.201	02
Y	—	Y	—	305.000 – 09.03.00.00.201	03
Y	Y	Y	—	305.000 – 09.04.00.00.201	04
Y	—	Y	Y	305.000 – 09.05.00.00.201	05
Y	Y	Y	Y	305.000 – 09.06.00.00.201	06

9.2. Control block - units (fig. 19)

Table 9.2

Pos.	Designation	QTY	Positions of units	Note
26 ÷ 32, 33, 34	Control block	1	26 ÷ 32, 33, 34	p. 9
34	Electric panel	1	1 ÷ 25, 35 ÷ 44	p. 9.3
33	Push button	1	33	Type - in passport
26 ÷ 32	Cable set	1	26 ÷ 32	p. 9.4

9.3. Electric panels (fig. 19)

Table 9.3

Number of the electric diagram		01	02	03	04	05	06
Pos.	Designation	Part number					
Size		MH 3					
34	Electric panels (Pos.1÷25, 35÷44)	50T0231–Tp1 {50T0231–Tp}	50T0231M–Tp1 {50T0231M–Tp}	50T1031–Tp1 {50T1031–Tp}	50T1031M–Tp1 {50T1031M–Tp}	50T103114–Tp1 {50T103114–Tp}	50T1031M14–Tp1 {50T1031M14–Tp}
1÷9, 19÷21, 23÷ 25, 35÷38, 42, 43	Chassis with electric apparatus	50T0231–Tp1.01 {50T0231–Tp.01}	50T0231M–Tp1.01 {50T0231M–Tp.01}	50T1031–Tp1.01 {50T1031–Tp.01}	50T1031M–Tp1.01 {50T1031M–Tp.01}	50T103114–Tp1.01 {50T103114–Tp.01}	50T1031M14–Tp1.01 {50T1031M14–Tp.01}
10÷18, 22, 39÷41	Box	50T1031–Tp1.02					
Size		MHM 4					
34	Electric panels (Pos.1÷25, 35÷44)	50T0241–Tp1 {50T0251–Tp}	50T0241M–Tp1 {50T0251M–Tp}	50T1041–Tp1 {50T1051–Tp}	50T1041M–Tp1 {50T1051M–Tp}	50T104114–Tp1 {50T105114–Tp}	50T1041M14–Tp1 {50T1051M14–Tp}
1÷9, 19÷21, 23÷ 25, 35÷38, 42, 43	Chassis with electric apparatus	50T0241–Tp1.01 {50T0251–Tp.01}	50T0241M–Tp1.01 {50T0251M–Tp.01}	50T1041–Tp1.01 {50T1051–Tp.01}	50T1041M–Tp1.01 {50T1051M–Tp.01}	50T104114–Tp1.01 {50T105114–Tp.01}	50T1041M14–Tp1.01 {50T1051M14–Tp.01}
10÷18, 22, 39÷41	Box	50T1051–Tp1.02					
Size		MHM 5					
34	Electric panels (Pos.1÷25, 35÷44)	50T0251–Tp1 {50T0251–Tp}	50T0251M–Tp1 {50T0251M–Tp}	50T1051–Tp1 {50T1051–Tp}	50T1051M–Tp1 {50T1051M–Tp}	50T105114–Tp1 {50T105114–Tp}	50T1051M14–Tp1 {50T1051M14–Tp}
1÷9, 19÷21, 23÷ 25, 35÷38, 42, 43	Chassis with electric apparatus	50T0251–Tp1.01 {50T0251–Tp.01}	50T0251M–Tp1.01 {50T0251M–Tp.01}	50T1051–Tp1.01 {50T1051–Tp.01}	50T1051M–Tp1.01 {50T1051M–Tp.01}	50T105114–Tp1.01 {50T105114–Tp.01}	50T1051M14–Tp1.01 {50T1051M14–Tp.01}
10÷18,22,39÷41	Box	50T1051–Tp1.02					
Size		MH 6					
34	Electric panels (Pos.1÷25, 35÷44)	50T0261–Tp1 {50T0261–Tp}	50T0261M–Tp1 {50T0261M–Tp}	50T1061–Tp1 {50T1061–Tp}	50T1061M–Tp1 {50T1061M–Tp}	50T106114–Tp1 {50T106114–Tp}	50T1061M14–Tp1 {50T1061M14–Tp}
1÷9, 19÷21, 23÷ 25, 35÷38, 42, 43	Chassis with electric apparatus	50T0261–Tp1.01 {50T0261–Tp.01}	50T0261M–Tp1.01 {50T0261M–Tp.01}	50T1061–Tp1.01 {50T1061–Tp.01}	50T1061M–Tp1.01 {50T1061M–Tp.01}	50T106114–Tp1.01 {50T106114–Tp.01}	50T1061M14–Tp1.01 {50T1061M14–Tp.01}
10÷18, 22, 39÷41	Box	50T1072–Tp1.02					
Size		MH 7					
34	Electric panels (Pos.1÷25, 35÷44)	50T0272–Tp1 {50T0272–Tp}	50T0272M–Tp1 {50T0272M–Tp}	50T1072–Tp1 {50T1072–Tp}	50T1072M–Tp1 {50T1072M–Tp}	50T107214–Tp1 {50T107214–Tp}	50T1072M14–Tp1 {50T1072M14–Tp}
1÷9, 19÷21, 23÷ 25, 35, 38, 42, 43	Chassis with electric apparatus	50T0272–Tp1.01 {50T0272–Tp.01}	50T0272M–Tp1.01 {50T0272M–Tp.01}	50T1072–Tp1.01 {50T1072–Tp.01}	50T1072M–Tp1.01 {50T1072M–Tp.01}	50T107214–Tp1.01 {50T107214–Tp.01}	50T1072M14–Tp1.01 {50T1072M14–Tp.01}
10÷18, 22, 39÷41	Box	50T1072–Tp1.02					

Note: 1. "{}" - with contactors corresponding with BDS 6012-84.

9.3.1. Boxes for electric panels (fig. 19)

Table 9.4

Size			MH 3	MHM 4 and MHM 5	MH 6 and MH 7
Pos.	Designation	QTY	Part number		
	Box (Pos. 10÷18, 22, 39÷41)	1	50T1031–Tp1.02	50T1051–Tp1.02	50T1072–Tp1.02
10	Cable inlet BDS 4592–74	1	BEI21 x FII11 x H 28x33		
11	Cable inlet BDS 4592–74	1	BEI21 x FII11 x H 28x33		
12	Cable inlet BDS 4592–74	1	BEI13,5 x FII9 x H 22x27		
13	Cable inlet BDS 4592–74	1	BEI13,5 x FII7 x H 20x24		
14	Cable inlet BDS 4592–74	1	BEI13,5 x FII11 x H 28x33		
15	Cable inlet BDS 4592–74	1	BEI13,5 x FII9 x H 22x27		
16	Cable inlet BDS 4592–74	1	BEI13,5 x FII9 x H 22x27		
17	Gasket – EAZ–Plovdiv	1	Size 8	Size 11	Size 11
18	Welded base – EAZ–Plovdiv	1	50T1072–Tp1.02:gab.8;p.1	50T1072–Tp1.02:gab.11;p.2	50T1072–Tp1.02:gab.11;p.2
22	Welded cover – EAZ–Plovdiv	1	49150.04.00	49150.09.00	49150.09.00
39	Grounding conductor – EAZ–Plovdiv	2	–	333206T214	333206T214
	Grounding conductor – EAZ–Plovdiv	1	333206T214	–	–
40	Screw 1A BDS 832–83/Zn	2	M6x25 – 8.8		
41	Washer BDS 206–78/Zn	2	AM6		

9.3.2. Chassis with electric apparatus

9.3.2.1. Contactors

Table 9.5

Size	Designation	Q	1K	2K	3K	4K	5K	6K	7K	8K
	Pos.	8	1	2	3	4	5	6	7	7a
	QTY	1	1	1	1	1	1	1	1	1
	Designation	Part number								
1	2	3	4	5	6	7	8	9	10	11
MH 3	50T0231–Tp1.01 {50T0231–Tp.01}	LC1D1210 C16	LC1D1210 LA1DN02 C16 BK11	LC1D1210 LA1DN02 C16 BK11	– –	– –	– –	– –	– –	– –
	50T0231M–Tp1.01 {50T0231M–Tp.01}	LC1D1210 C16	LC1D1210 LA1DN02 C16 BK11	LC1D1210 LA1DN02 C16 BK11	LC1D1210 LA1DN11 C16 BK11	LC1D1210 LA1DN11 C16 BK11	– –	– –	– –	– –
	50T1031–Tp1.01 {50T1031–Tp.01}	LC1D1210 C16	LC1D1210 LA1DN11 C16 BK11	LC1D1210 LA1DN11 C16 BK11	– –	– –	LC1D1210 LA1DN11 C6 BK11	LC1D1210 LA1DN11 C6 BK11	– –	– –
	50T1031M–Tp1.01 {50T1031M–Tp.01}	LC1D1210 C16	LC1D1210 LA1DN02 C16 BK11	LC1D1210 LA1DN02 C16 BK11	LC1D1210 LA1DN11 C16 BK11	LC1D1210 LA1DN11 C16 BK11	LC1D1210 LA1DN11 C6 BK11	LC1D1210 LA1DN11 C6 BK11	– –	– –
	50T1031M14–Tp1.01 {50T1031M14–Tp.01}	LC1D1210 C16	LC1D1210 LA1DN11 C16 BK11	LC1D1210 LA1DN11 C16 BK11	– –	– –	LC1D1210 LA1DN11 C6 BK11	LC1D1210 LA1DN11 C6 BK11	LC1D1210 LA1DN11 C6 BK11	LC1D1210 C6
	50T1031M14–Tp1.01 {50T1031M14–Tp.01}	LC1D1210 C16	LC1D1210 LA1DN02 C16 BK11	LC1D1210 LA1DN02 C16 BK11	LC1D1210 LA1DN11 C16 BK11	LC1D1210 LA1DN11 C16 BK11	LC1D1210 LA1DN11 C6 BK11	LC1D1210 LA1DN11 C6 BK11	LC1D1210 LA1DN11 C6 BK11	LC1D1210 C6
MHM 4	50T0241–Tp1.01 {50T0251–Tp.01}	LC1D1810 C25	LC1D1810 LA1DN02 C25 BK11	LC1D1810 LA1DN02 C25 BK11	– –	– –	– –	– –	– –	– –
	50T0241M–Tp1.01 {50T0251M–Tp.01}	LC1D1810 C25	LC1D1810 LA1DN02 C25 BK11	LC1D1810 LA1DN02 C25 BK11	LC1D1810 LA1DN11 C25 BK11	LC1D1810 LA1DN11 C25 BK11	– –	– –	– –	– –
	50T1041–Tp1.01 {50T1051–Tp.01}	LC1D1810 C25	LC1D1810 LA1DN11 C25 BK11	LC1D1810 LA1DN11 C25 BK11	– –	– –	LC1D1210 LA1DN11 C6 BK11	LC1D1210 LA1DN11 C6 BK11	– –	– –
	50T1041M–Tp1.01 {50T1051M–Tp.01}	LC1D1810 C25	LC1D1810 LA1DN02 C25 BK11	LC1D1810 LA1DN02 C25 BK11	LC1D1810 LA1DN11 C25 BK11	LC1D1810 LA1DN11 C25 BK11	LC1D1210 LA1DN11 C6 BK11	LC1D1210 LA1DN11 C6 BK11	– –	– –
	50T1041M14–Tp1.01 {50T1051M14–Tp.01}	LC1D1810 C25	LC1D1810 LA1DN11 C25 BK11	LC1D1810 LA1DN11 C25 BK11	– –	– –	LC1D1210 LA1DN11 C6 BK11	LC1D1210 LA1DN11 C6 BK11	LC1D1210 LA1DN11 C6 BK11	LC1D1210 C6
	50T1041M14–Tp1.01 {50T1051M14–Tp.01}	LC1D1810 C25	LC1D1810 LA1DN02 C25 BK11	LC1D1810 LA1DN02 C25 BK11	LC1D1810 LA1DN11 C25 BK11	LC1D1810 LA1DN11 C25 BK11	LC1D1210 LA1DN11 C6 BK11	LC1D1210 LA1DN11 C6 BK11	LC1D1210 LA1DN11 C6 BK11	LC1D1210 C6 BK11

Table 9.5 – cont'd

1	2	3	4	5	6	7	8	9	10	11
MHM 5	50T0251–Tp1.01 {50T0251–Tp.01}	LC1D1810 C25	LC1D1810 LA1DN02 C25 BK11	LC1D1810 LA1DN02 C25 BK11	– –	– –	– –	– –	– –	– –
	50T0251M–Tp1.01 {50T0251M–Tp.01}	LC1D1810 C25	LC1D1810 LA1DN02 C25 BK11	LC1D1810 LA1DN02 C25 BK11	LC1D1810 LA1DN11 C25 BK11	LC1D1810 LA1DN11 C25 BK11	– –	– –	– –	– –
	501051–Tp1.01 {50T1051–Tp.01}	LC1D1810 C25	LC1D1810 LA1DN11 C25 BK11	LC1D1810 LA1DN11 C25 BK11	– –	– –	LC1D1210 LA1DN11 C6 BK11	LC1D1210 LA1DN11 C6 BK11	– –	– –
	50T1051M–Tp1.01 {50T1051M–Tp.01}	LC1D1810 C25	LC1D1810 LA1DN02 C25 BK11	LC1D1810 LA1DN02 C25 BK11	LC1D1810 LA1DN11 C25 BK11	LC1D1810 LA1DN11 C25 BK11	LC1D1210 LA1DN11 C6 BK11	LC1D1210 LA1DN11 C6 BK11	– –	– –
	50T1051M14–Tp1.01 {50T1051M14–Tp.01}	LC1D1810 C25	LC1D1810 LA1DN11 C25 BK11	LC1D1810 LA1DN11 C25 BK11	– –	– –	LC1D1210 LA1DN11 C6 BK11	LC1D1210 LA1DN11 C6 BK11	LC1D1210 LA1DN11 C6 BK11	LC1D1210 C6
	50T1051M14–Tp1.01 {50T1051M14–Tp.01}	LC1D1810 C25	LC1D1810 LA1DN02 C25 BK11	LC1D1810 LA1DN02 C25 BK11	LC1D1810 LA1DN11 C25 BK11	LC1D1810 LA1DN11 C25 BK11	LC1D1210 LA1DN11 C6 BK11	LC1D1210 LA1DN11 C6 BK11	LC1D1210 LA1DN11 C6 BK11	LC1D1210 C6
MH 6	50T0261–Tp1.01 {50T0261–Tp.01}	LC1D3210 KB3	LC1D3210 LA1DN02 C25 BK11	LC1D3210 LA1DN02 C25 BK11	– –	– –	– –	– –	– –	– –
	50T0261M–Tp1.01 {50T0261M–Tp.01}	LC1D3210 KB3	LC1D3210 LA1DN02 C25 BK11	LC1D3210 LA1DN02 C25 BK11	LC1D3210 LA1DN11 KB3	LC1D3210 LA1DN11 KB3	– –	– –	– –	– –
	501061–Tp1.01 {50T1061–Tp.01}	LC1D3210 KB3	LC1D3210 LA1DN11 C25 BK11	LC1D3210 LA1DN11 C25 BK11	– –	– –	LC1D1210 LA1DN11 C10 BK11	LC1D1210 LA1DN11 C10 BK11	– –	– –
	50T1061M–Tp1.01 {50T1061M–Tp.01}	LC1D3210 KB3	LC1D3210 LA1DN02 C25 BK11	LC1D3210 LA1DN02 C25 BK11	LC1D3210 LA1DN11 KB3	LC1D3210 LA1DN11 KB3	LC1D1210 LA1DN11 C10 BK11	LC1D1210 LA1DN11 C10 BK11	– –	– –
	50T1061M14–Tp1.01 {50T1061M14–Tp.01}	LC1D3210 KB3	LC1D3210 LA1DN11 C25 BK11	LC1D3210 LA1DN11 C25 BK11	– –	– –	LC1D1210 LA1DN11 C10 BK11	LC1D1210 LA1DN11 C10 BK11	LC1D1210 LA1DN11 C10 BK11	LC1D1210 C10
	50T1061M14–Tp1.01 {50T1061M14–Tp.01}	LC1D3210 KB3	LC1D3210 LA1DN02 C25 BK11	LC1D3210 LA1DN02 C25 BK11	LC1D3210 LA1DN11 KB3	LC1D3210 LA1DN11 KB3	LC1D1210 LA1DN11 C10 BK11	LC1D1210 LA1DN11 C10 BK11	LC1D1210 LA1DN11 C10 BK11	LC1D1210 C10
MH 7	50T0272–Tp1.01 {50T0272–Tp.01}	LC1D4010 KB3	LC1D4010 LA1DN02 C25 BK11	LC1D4010 LA1DN02 C25 BK11	– –	– –	– –	– –	– –	– –
	50T0272M–Tp1.01 {50T0272M–Tp.01}	LC1D4010 KB3	LC1D4010 LA1DN02 C25 BK11	LC1D4010 LA1DN02 C25 BK11	LC1D4010 LA1DN11 KB3	LC1D4010 LA1DN11 KB3	– –	– –	– –	– –
	501072–Tp1.01 {50T1072–Tp.01}	LC1D4010 KB3	LC1D4010 LA1DN11 C25 BK11	LC1D4010 LA1DN11 C25 BK11	– –	– –	LC1D1210 LA1DN11 C10 BK11	LC1D1210 LA1DN11 C10 BK11	– –	– –
	50T1072M–Tp1.01 {50T1072M–Tp.01}	LC1D4010 KB3	LC1D4010 LA1DN02 C25 BK11	LC1D4010 LA1DN02 C25 BK11	LC1D4010 LA1DN11 KB3	LC1D4010 LA1DN11 KB3	LC1D1210 LA1DN11 C10 BK11	LC1D1210 LA1DN11 C10 BK11	– –	– –
	50T1072M14–Tp1.01 {50T1072M14–Tp.01}	LC1D4010 KB3	LC1D4010 LA1DN11 C25 BK11	LC1D4010 LA1DN11 C25 BK11	– –	– –	LC1D1210 LA1DN11 C10 BK11	LC1D1210 LA1DN11 C10 BK11	LC1D1210 LA1DN11 C10 BK11	LC1D1210 C10
	50T1072M14–Tp1.01 {50T1072M14–Tp.01}	LC1D4010 KB3	LC1D4010 LA1DN02 C25 BK11	LC1D4010 LA1DN02 C25 BK11	LC1D4010 LA1DN11 KB3	LC1D4010 LA1DN11 KB3	LC1D1210 LA1DN11 C10 BK11	LC1D1210 LA1DN11 C10 BK11	LC1D1210 LA1DN11 C10 BK11	LC1D1210 C10

9.3.2.2. Details, available in all electrical equipment (fig. 19)

Table 9.6

Pos.	Designation	Designation	QTY	Size				
				MH 3	MHM 4	MHM 5	MH 6	MH 7
9	Electronic block		1	OTBE 5	OTBE 5	OTBE 5	OTBE 5	OTBE 5
19	Welded chassis	—	1	50T1031M14— Tp.01.01	50T1051M14— Tp.01.01	50T1051M14— Tp.01.01	50T1061M14— Tp.01.01	50T1061M14— Tp.01.01
20	Profile busbar	—	1	50T1031M14— Tp.01.00.01	50T1031M14— Tp.01.00.01	50T1031M14— Tp.01.00.01	50T1031M14— Tp.01.00.01	50T1031M14— Tp.01.00.01
(21)	Screw BDS 832–83/Zn	—	2	1A M5x12–4.8	1A M5x12–4.8	1A M5x12–4.8	1A M5x12–4.8	1A M5x12–4.8
(23)	End plate BDS 2773–81	—	2	—	—	—	—	932829.080
(24)	End plate BDS 2773–81	—	2	932829.080	932829.080	932829.080	932829.080	—
[35]	Safety fuse	F1	1	1 A	1 A	1 A	1 A	1 A
[36]	Safety fuse	F2	1	1 A	1 A	1 A	1 A	1 A
(37)	Safety fuse BDS 4957–86	F3	1	PC20–1x5,2 (250V) 2,5 A	PC20–1x5,2 (250V) 2,5 A	PC20–1x5,2 (250V) 2,5 A	PC20–1x5,2 (250V) 2,5 A	PC20–1x5,2 (250V) 2,5 A
(38)	Transformer BDS 4957–86	T1	1	T300–K	T300–K	T300–K	T300–K	T300–K
42	Contact block	—	*	LA1DN11	LA1DN11	LA1DN11	LA1DN11	LA1DN11

Note: 1. "*" The number of the contact blocks (pos.42) is equal of the contactors "Telemechanique".

2. Electronic blocks OTBE 5 - for load limiter type BOT and type HOT.

Table 9.7

Number of the electric diagram			01	02	03	04	05	06
Pos.	Designation	Size	QTY					
(25)	Connecting terminal BDS 2773–81; 2,5 mm ²	MH 3 ÷ MH 7	8	10	10	12	11	13
(43)	Connecting terminal BDS 2773–81; 2,5 mm ²	MH 3 ÷ MHM 5	6	9	9	12	12	15
(43)	Connecting terminal BDS 2773–81; 10 mm ²	MH 6 ÷ MH 7	6	9	9	12	12	15

9.4. Kable set (fig. 19)

Table 9.8

Number of the electric diagram				01	02	03	04	05	06
Pos.	Designation	Size	QTY	Part number					
26	Network cable	MH 3 ÷ MH 7	1	According of the Assembly and operation manual					
[27]	Cable for the lifting electric motor	MH 3 ÷ MHM 5	1	KDPM 11		KDPM 21	KDPM 21	KDPM 11	KDPM 21
		MH 6 and MH 7	1	KDPM 12		KDPM 22	KDPM 22	KDPM 12	KDPM 22
[28]	Cable for end limit switch	MH 3 ÷ MH 7	1	KKI					
[29]	Cable for load limiter	MH 3 ÷ MH 7	1	KOT					
[30]	Cable for push button	MH 3 ÷ MH 7	1	KKPT 10	KKPT 11	KKPT 20	KKPT 21	KKPT 12	KKPT 22
[31]	Cable for trolley I	MH 3 ÷ MH 7	1	—	KKDM 11	—	KKDM 11	KKDM 21	KKDM 21
[32]	Cable for trolley II	MH 3 ÷ MH 7	1	—	KKDM 12	—	KKDM 12	KKDM 22	KKDM 22

Note: 1. The cable pos.32 is used only for hoists with two trolleys.

Appendix No 1

REQUEST

for spare parts for electric hoist, type....., serial number, year of production, operation mode group, supply voltage

No	Spare part	Part number	QTY
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

Spare parts to be delivered at the following address:

.....
.....

Type of delivery:

Customer:.....



BALKANCARPODEM Ltd

1040 Sofia, Bulgarien
18, Kliment Ohridsky Blvd.
Tel. (+359 2) 975 33 95
Fax (+359 2) 975 30 89
e-mail: mail@bcp.bg
<http://www.bcp.bg>

Khalil Hamdan Khalil & SONS Co.

Phone : 00962-6-4161162

Fax : 00962-6-4161402

www.khksco.com