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Catagodue is in accordance with the following legal texts:

Bulgarian norms: BDS EN 60204-1:2006/A1:2009 "Safety machinery-Electrical equipment of machines – Part 1:General requirements"
 BDS EN 14492-2:2006+A1:2009 "Cranes- |Power driven winches and hoists-Part 2:Power driven hoists"
 BDS EN 60034-1:2010 "Rotating electrical machines-Part 1: Rating and performance"
 BDS EN 60034-5:2007 "Rotating electrical machines-Part 5: Degrees of protection provided by the integral design of rotating electrical machines (IP code)- Classification"

Germany norms:

DIN 15020-1-1974 "Lifting Appliances, Principles Relating to Rope Drives; Calculation and Construction"
 FEM 9.511 "Rules for the design of series lifting equipment; Classification of mechanisms"
 FEM 9.661 "Rules for the design of series lifting equipment; Dimensions and design of rope reeving components"
 FEM 9.681 "Rules for the design of series lifting equipment; Selection of travelling motors"
 FEM 9.682 "Rules for the design of series lifting equipment; Selection of lifting motors"
 FEM 9.755 "Measure for achieving safe working periods for motorized serial hoist units (S.W.P.)"
 FEM 9.811 "Rules for the design of series lifting equipment; Specification of electric hoists"

Russian norms:TP TC 010/2011 технический регламент ТС о безопасности машин и оборудования

Each order must contain the following data:

1. Type, serial number, year of manufacture according to plate and working group.
2. Name and catalog number of spare part.
3. How many pieces.
4. For parts of electrical equipment:type, voltage and frequency according to plate.
5. Type of shipment.
6. Exact addres for delivery.

Pattern of order of spare parts is showing in Application1.

Produser can deliver coplete units of hoist

FOR SUPPLY WITH SPARE PARTS APPLY TO:

MV YANTRA PLC

10,Neofit Riski str., 5300 Gabrovo, Bulgaria

tel.: ++359 66 801306

fax: ++359 66 801292

e-mail: yantra@yantra.bg

INSTRUCTION FOR USE:

This catalogue includes all parts of hoist type MPM1.

In the tables are listed numbers of schemes and positions. Against them are names, pieces and catalog numbers for respective realization. The units with position is enclosed in square brackets [] are not sectional. They are supplied complete.

The units with position is enclosed in parentheses () are standart parts as bolt, nuts, lock ring and ets... They aren't supplied by produser as spare parts, but client can order. This parts can be replaced considering the class of strength.

NCB With trolley, normal headroom
HCB With trolley, low headroom
Vt Traveling speed
Hp Lifting height

THE PRODUSER RESERVES THE RIGHT TO CHANGE THE CATALOGUE OF SPARE PARTS

1. GEARED MOTOR

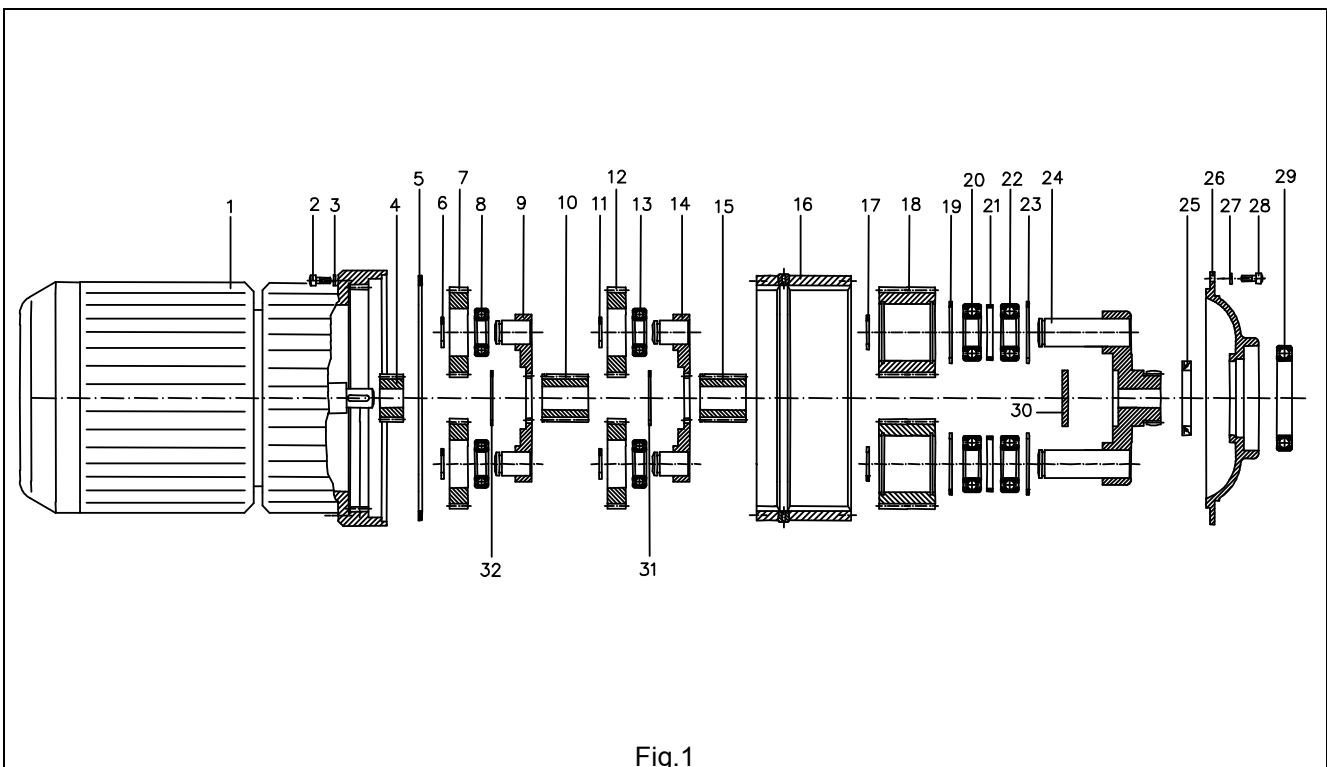


Fig.1

Table 1

Fig	Pos	Name	Pcs	Lifting height (m/min)	Catalog number
1	1-29	Geared motor	1	5	10170
1	1-29	Geared motor	1	7,5	10171
1	1-29	Geared motor	1	5/1,25	10172
1	1	Electric motor	1	5	10210
1	1	Electric motor	1	7,5	10211
1	1	Electric motor	1	5/1,25	10212
1	(2)	Screw M10x35 – 6,8 BDS 2171-83	8	10135	
1	(3)	Spring washer 2 – 10H BDS 833-82	8	10140	
1	4	First drive gear	1	10205	
1	5	Seal	1	10197	
1	(6)	Lock ring B25 BDS 2170-77	3	13037	
1	7	Planet gear wheel with bearing o	3	10175	
1	(8)	Bearing 6205 – 20x52x15 BDS 4843-84	3	10177	
1	[9]	Carrier with axis	1	10176	
1	10	Second drive gear	1	10203	
1	(11)	Lock ring B45 BDS 2170-77	3	10151	

Table 1 - continued

Fig	Pos	Name	Pcs	Catalog number
1	12	Planet gear wheel	3	10180
1	(13)	Bearing 6209-45x85x19 BDS 4843-84	3	10182
1	[14]	Carrier with axis	1	10181
1	15	Three drive gear	1	10201
1	16	Ring gear		10198
1	(17)	Lock ring B55 BDS 2170-77	4	10186
1	18	Planet gear wheel	4	10188
1	(19,23)	Lock ring A100 BDS 2170-77	8	10190
1	(20,22)	Bearing 6211-55x100x21 BDS 4843-84	8	10187
1	[24]	Carrier with axis	1	10189
1	(25)	Seal 5130x160x15 BDS 9954-83	1	10144
1	26	Flange	1	10199
1	(27)	Spring washer 2-16H BDS 833-82	12	21342
1	(28)	Screw M16x40-6,8 BDS 2171-83	12	10200
1	(29)	Bearing 6030-Z-150x225x35 BDS 4884-85	1	10159
1	30	Plug	1	10192
1	(31)	Spring washer B95 BDS 2170-77	1	10204
1	(32)	Spring washer B95 BDS 2170-77	1	10204

2. BODY, SWITCHING SYSTEM

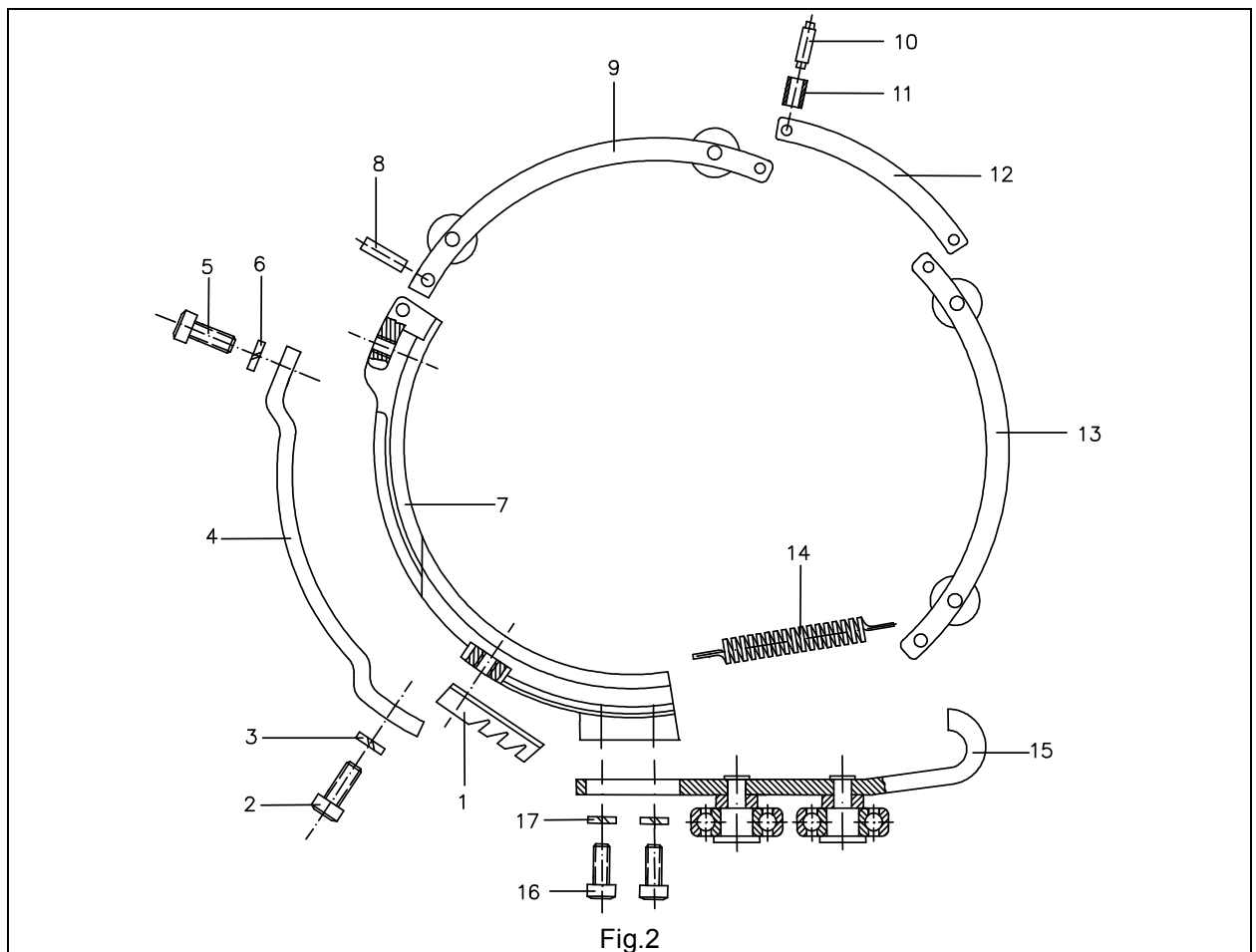


Table 2

Reeving				2/1 и 4/1	
Realization				NCB	HCB
Fig	Pos	Name	Pcs	Catalog number	
2	1-16	Rope guide	1	14100	
2	1	Click	1	14104	
2	(2)	Bolt washer I M10x20-6,8	2	14112	
2	(3)	Spring washer-10H	2	14090	
2	4	Rope catcher	1	14106	

Reeving				2/1 и 4/1	
Realization				NCB	HCB
Fig	Pos	Name	Pcs	Catalog number	
2	(5)	Bolt I M10x20 – 6,8	2	14112	
2	(6)	Spring washer – 10H	2	14090	
2	7	Sector supporting	1	14107	
2	8	Spring pin	1	14108	
2	9	Sector pressing	1	14102	
2	10	Axis	2	14111	
2	11	Distance bush	2	14109	
2	12	Sector connectional	2	14110	
2	13	Sector pressing	1	14103	
2	14	Spring	1	14105	
2	[15]	Guide	1	14101	
2	(16)	Bolt M6x16 – 6,8	2	14087	
2	(17)	Spring washer – 6H	2	10139	

Note: Details positions from 7 to 13 are assembled in a single unit. It is desirable that the customer orders this unit which will be assembled in a factory.

3. BODY, SWITCHING SYSTEM

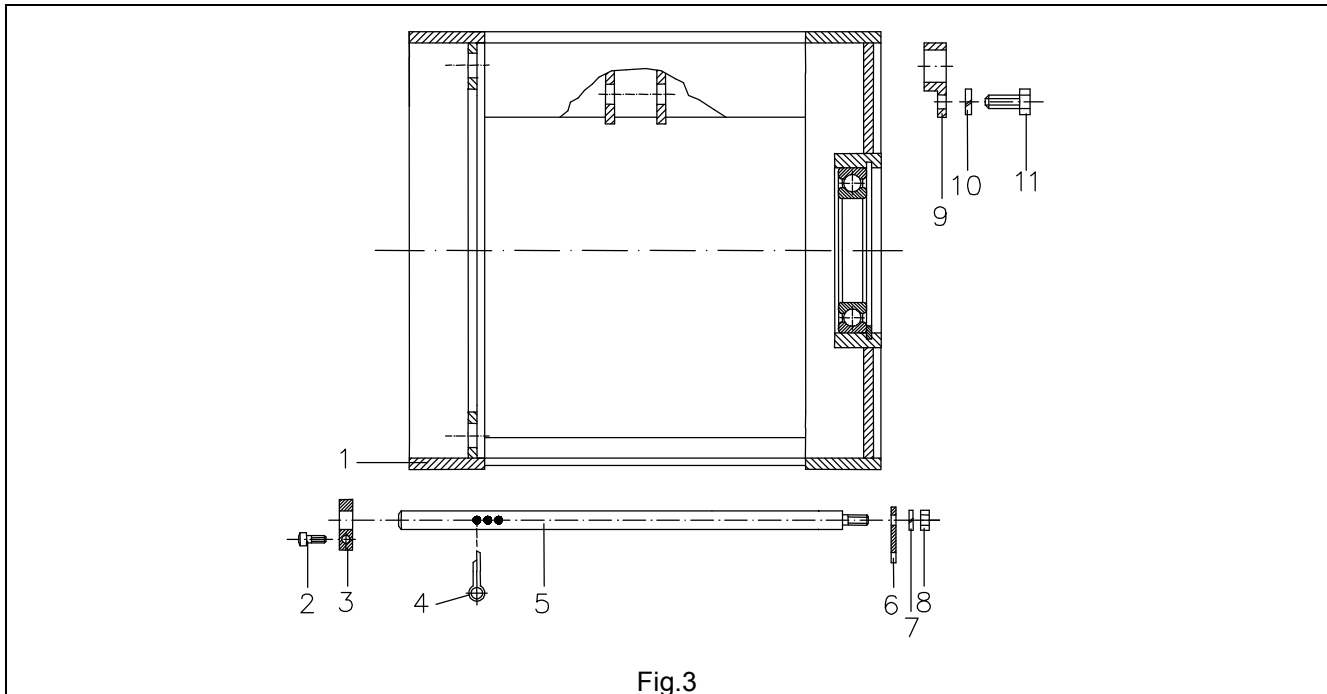


Table 3

[illegible]

Table 3 – continued

Fig	Pos	Name	Reeving	Pcs	Realization							
					Stationary							
					Lifting height (m)							
					6,3	9	12,5	15	18	25	30	36
3	3	Ring	2/1;4/1	2	573282	573282	573282	573282	573282	573282	573282	573282
3	(4)	Split	2/1;4/1	2	20126	20126	20126	20126	20126	20126	20126	20126
3	5	Rod	2/1	1	20149	20150	20151	-	20152	20153	20154	20155
3	5	Rod	4/1	1	20151	20152	20153	20154	20155	-	-	-
3	6	Fork	2/1;4/1	1	20003	20003	20003	20003	20003	20003	20003	20003
3	(7)	Spring washer 2 6H BDS 833-82	2/1;4/1	1	10138	10138	10138	10138	10138	10138	10138	10138
3	(8)	Nut I M6 БДС 744-91	2/1;4/1	1	20125	20125	20125	20125	20125	20125	20125	20125
3	9	Support	4/1	1	24067	24067	24067	24067	24067	-	-	-
3	(10)	Spring washer 2-14H	4/1	2	10141	10141	10141	10141	10141	-	-	-
3	(11)	Bolt I M14x30 - 6,8	4/1	2	24080	24080	24080	24080	24080	-	-	-

Side 6,3 – for realization reeving 4x1

*

4. DRUM KIT, ROPE

Table 4

Fig	Pos	Ree-ving	Lifting height (m)		7,5;6,3*	9	12,5	15	18	25	30	36
			Name	Pcs								
4	[1]	2/1	Dum kit	1	15111	15112	15113	-	15114	15115	15116	15117
4	[1]	4/1	Dum kit	1	15113	15114	15115	15116	15117	-	-	-
4	2	2/1;4/1	Strap	3	15110							
4	(3)	2/1;4/1	Screw M14x35 – 8,8	6	20132							
4	(4)	2/1;4/1	Spring washer 2 – 14H	6	10142							
5	1	2/1	Rope	1	20156	20157	20158	-	20159	20160	20161	20162
5	1	4/1	Rope	1	20530	20531	20532	20533	20534	-	-	-

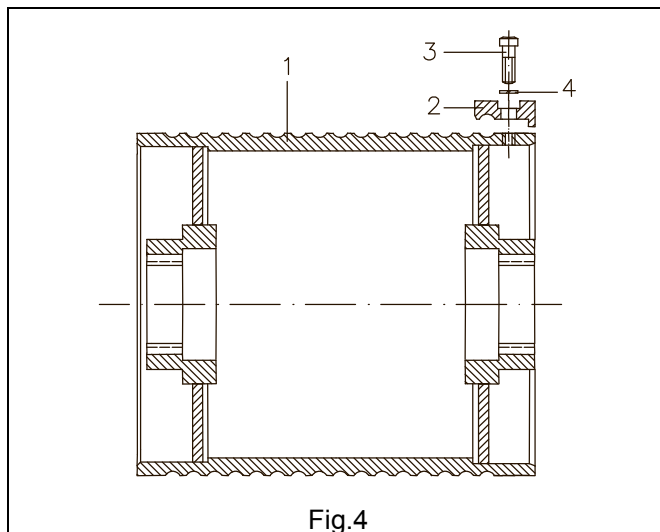


Fig.4

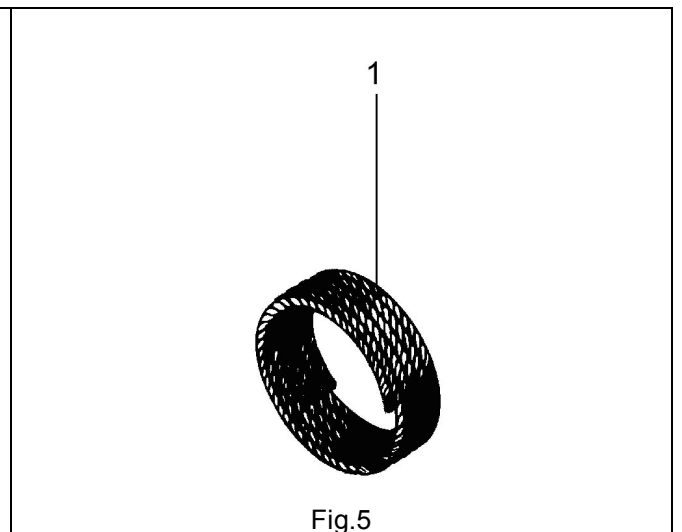


Fig.5

5. TRAVERSE WITH ROLL KIT

Table 5

Reeving					4/1	
Realization					NCB.	HCB
Fig	Pos	Name	Pcs		Catalog number	
6	1÷9	Traverse with roll	1		19050	
6	(1)	Bolt I M10x22 – 6,6	BDS 1230-85		2	
6	(2)	Spring washer 2 – 10H	BDS 833-82		2	
6	3	Strap for fixing	1		19053	
6	4	Axis	1		19054	
6	5	Traverse	1		19051	
6	6	Bush	2		19052	
6	(8)	Lock ring A160	BDS 2170-77		1	
6	(7)	Ball bearing 6315-Z	BDS 4884-85		2	

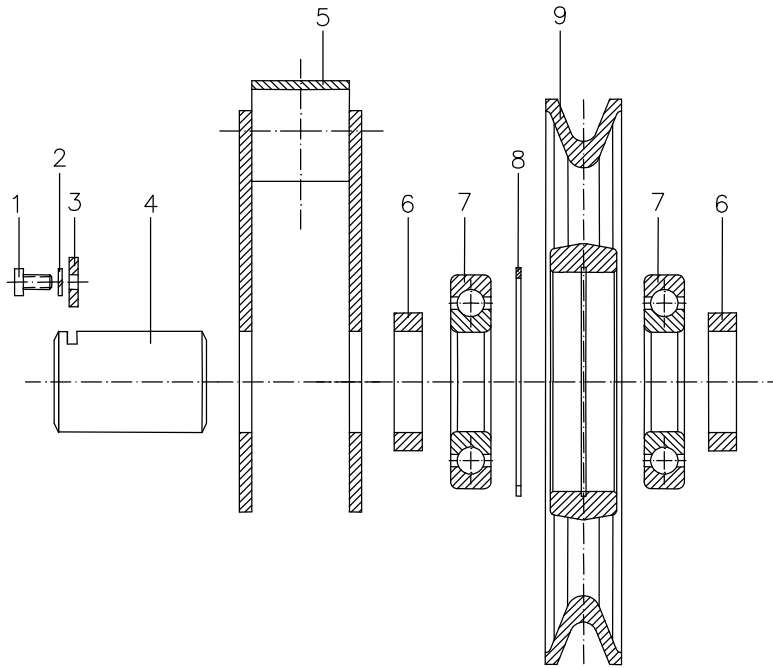


Fig.6

6. ROLLER BLOCK

Reeving 2/1

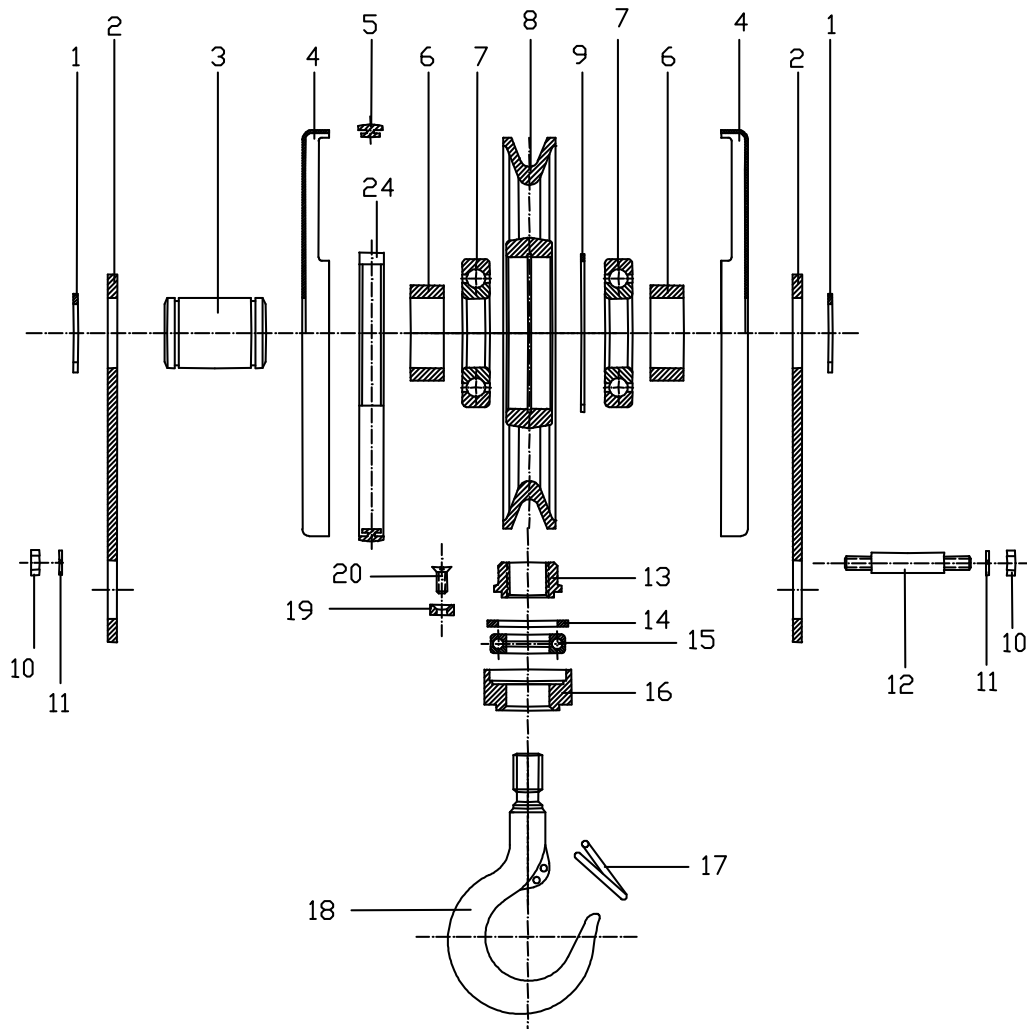


Fig.7

Table 6.1

Reeving				2/1
Capacity , (t) , working group			1Am	16
Hook N DIN15400				10
Diameter of rope, mm				24
Fig	Pos	Name	Pcs	Catalog number
7	1÷19	Roller block	1	16145
7	(1)	Lock ring B75	2	16165
7	2	Strap	2	16149
7	3	Axis	1	16158
7	4	Half-cover	2	16157
7	5	Top band	4	16161
7	6	Distance bush	2	16159
7	(7)	Bearing – 6315 – Z	2	16163
7	8	Roll	1	16160
7	(9)	Lock ring A160	1	16166
7	(10)	Nut II M14	4	16167
7	(11)	Spring ring 2 – 14H	4	10141
7	12	Stud	2	16162
7	13	Nut	1	16153
7	14	Cap	1	16151
7	(15)	Bearing 51212	1	16164
7	16	Traverse	1	16150
7	17	Spring (catch)	1	16014
7	18	Hook	1	16146
7	19	Strap	1	16107
7	(20)	Screw M6x12	2	16082

Reeving 4/1

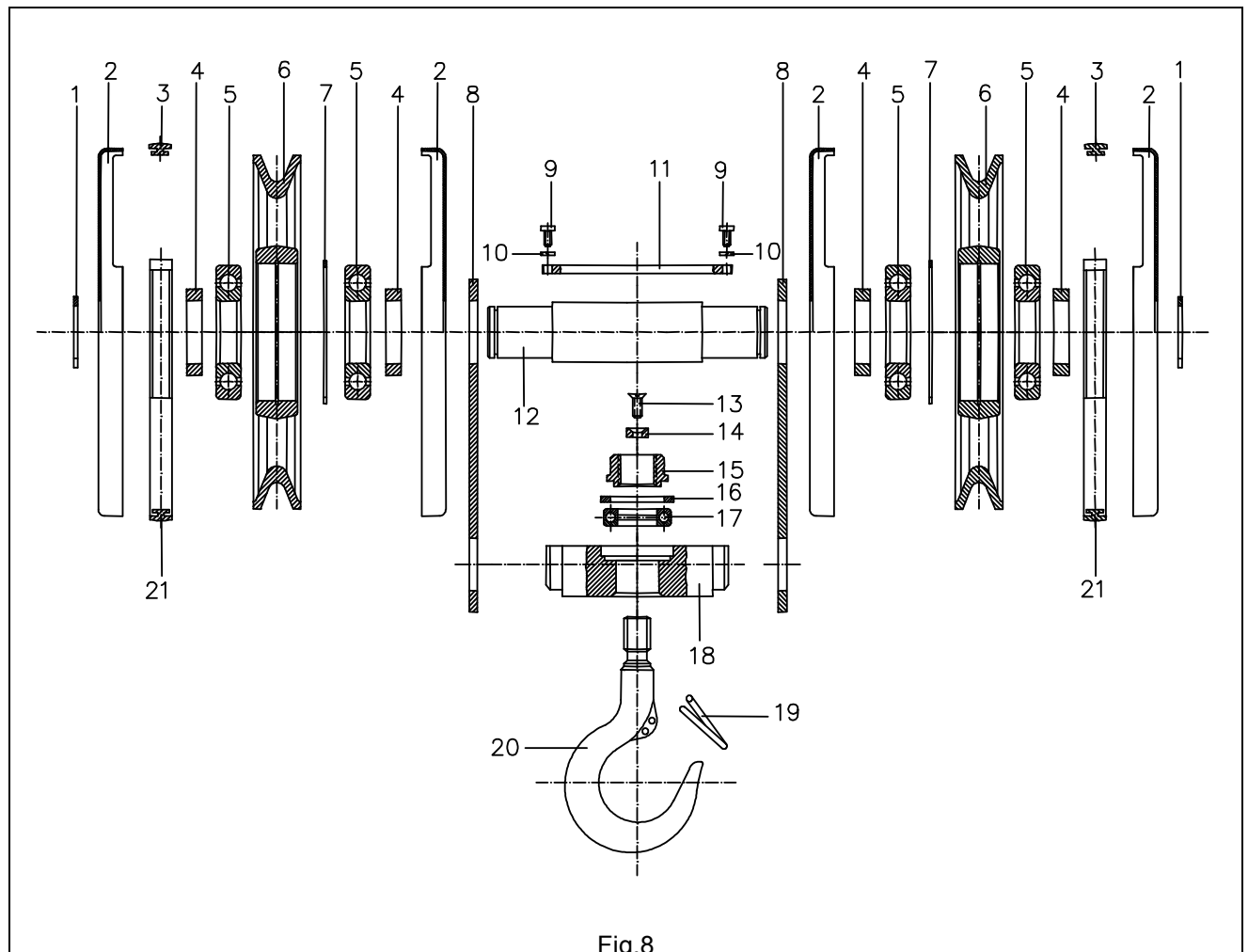


Table 6.2

Reeving				4/1
Capacity , t , working group			1Am	32
Hook N DIN15400				20
Diameter of rope, mm				24
Fig	Pos	Name	P c s	Catalog number
8	1÷21	Roller block	1	16560
8	1	Lock ring B75	2	16165
8	2	Half - cover	4	16157
8	3	Top band	2	16161
8	4	Distance bush	2	16159
8	5	Ball bearing 6315 – Z	4	16163
8	6	Roll	2	16160
8	7	Lock ring A160	2	16166
8	8	Strap	2	16562
8	9	Screw M10x20 – 6,8	4	16568
8	10	Spring ring 2 10H	4	10140
8	11	Strap	1	16565
8	12	Axis	1	16564
8	13	Screw M6x12	1	16082
8	14	Strap	1	16155
8	15	Nut	1	16154
8	16	Cap	1	16152
8	17	Bearing 51216	1	16566
8	18	Traverse	1	16561
8	19	Spring	1	16148
8	20	Hook	1	16147
8	21	Bottom band		

7. LOAD LIMITER

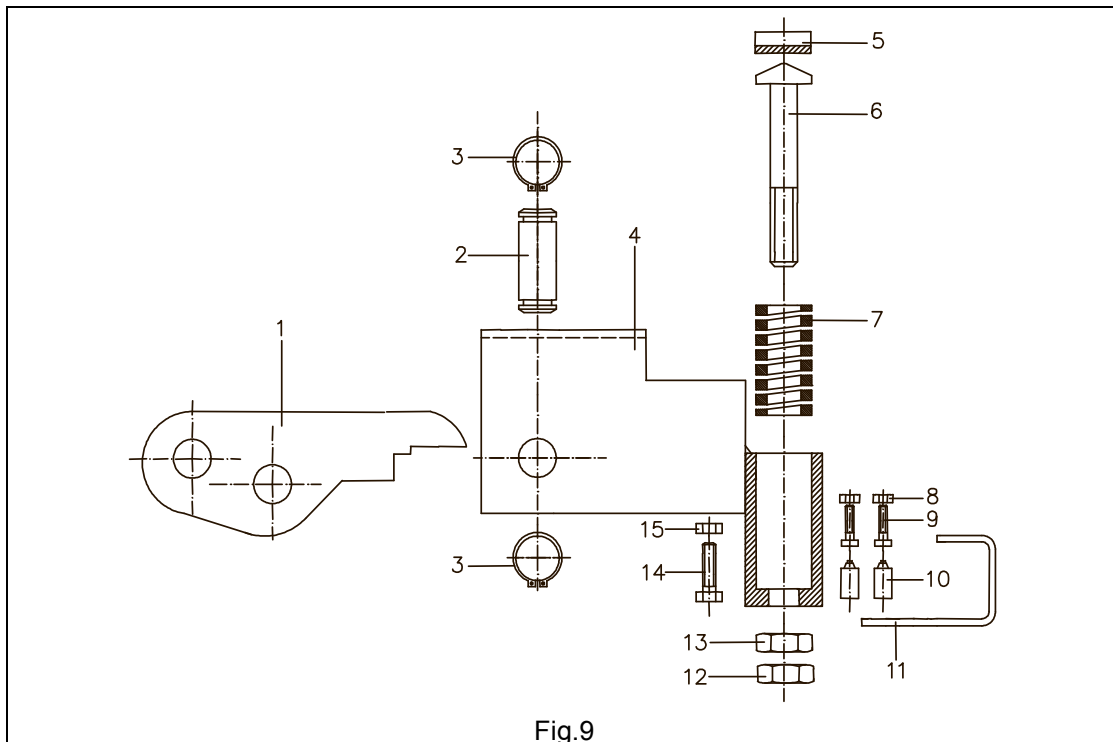


Fig.9

Table 7

Reeving				2/1; 4/1
Fig	Pos	Name	Pcs	Catalog number
9	1÷12	Load limiter	1	13083
9	1	Rocker	1	13087
9	2	Axis	1	13085
9	(3)	Lock ring B35	2	10149

Table 7 - continued

Reeving				2/1; 4/1	Note
Fig	Pos	Name	Pcs	Catalog number	
9	[4]	Frame	1	13084	
9	5	Plate	1	13088	
9	6	Special bolt	1	13005	
9	7	Spring A50-089	1	13015	"TOME"
9	(8)	Nut M6x0,75 – 6 BDS 744-91	2	13016	
9	9	Adjuster bolt	2	13007	
9	10	Breaker - Z – 15GK55	2	13017	"OMRON"
9	11	Strap	1	13008	
9	(12)	Nut M16 – 6 BDS 744-91	1	13020	
9	(13)	Nut M16 – 6 BDS 744-91	1	13020	
9	(14)	Bolt 1 M16x50 – 6,8 BDS 1234-85	1	13089	
9	(15)	Nut M16 – 6 BDS 744-91	1	13020	

8. SUSPENSION

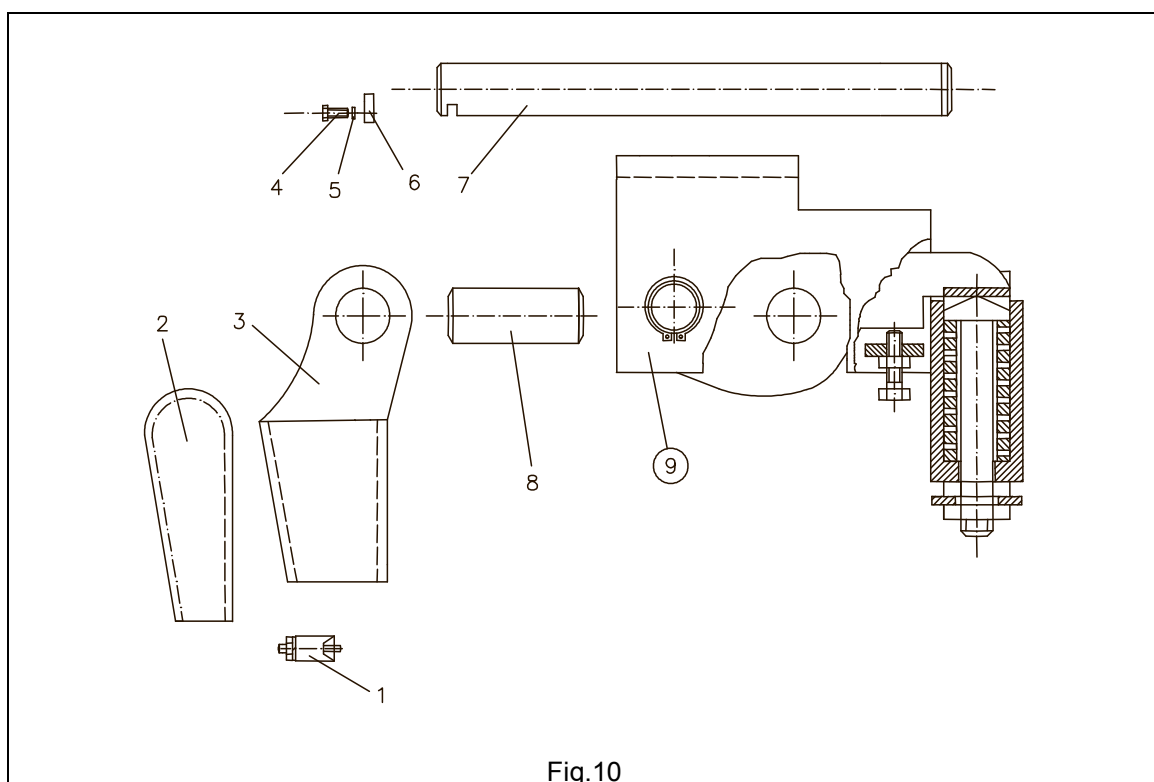


Fig.10

Table 8

Reeving				2/1; 4/1	Note
Fig	Pos	Name	Pcs	Catalog number	
10	1	Slamp 24 DIN1142	1	20177	
10	2	Werge	1	20145	
10	3	Bush wedge	1	20146	
10	4	Screw M6x16 – 6,8 BDS 2171	2	10134	
10	5	Spring ring 2 6H BDS 833	2	10138	
10	6	Strap for fixing	1	20140	
10	7	Axis	1	20175	
10	8	Axis	1	13086	
10	9	Load limiter	1	-	Look table.7

9. TRAVELING MECHANISM – NORMAL HEADROOM

9.1 Traveling mechanism

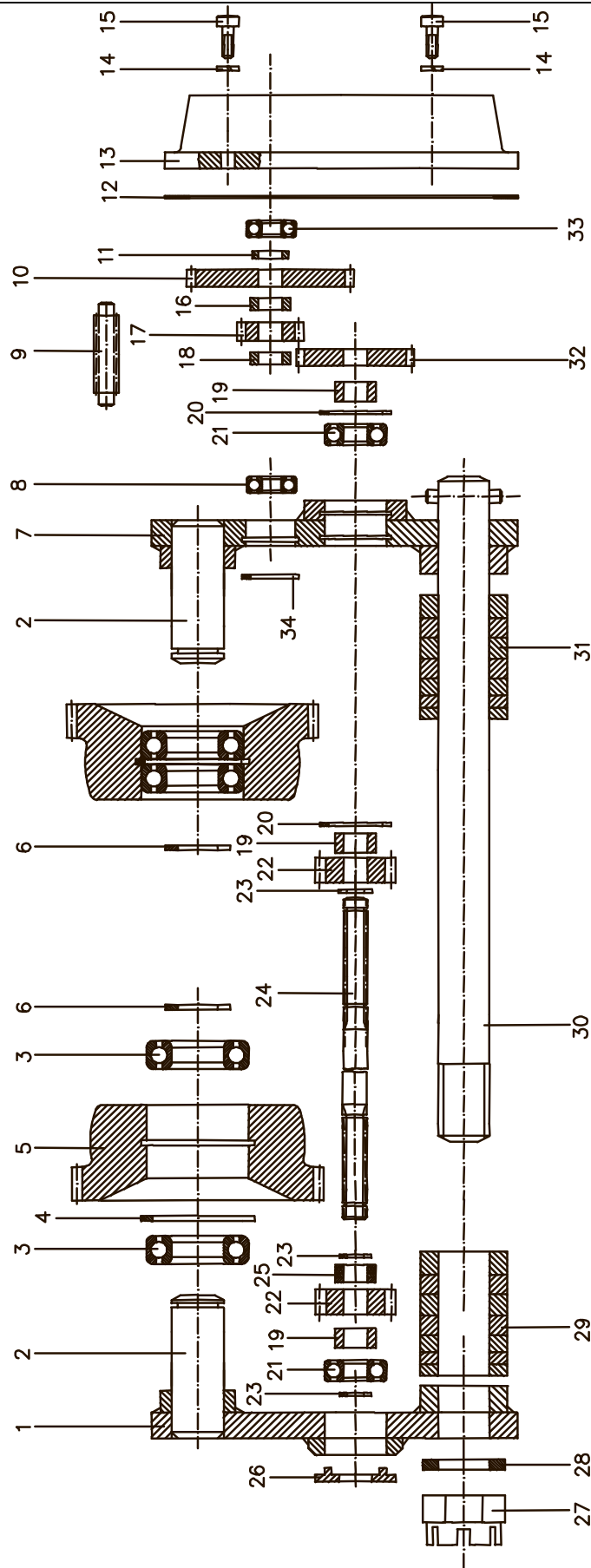


Fig.11

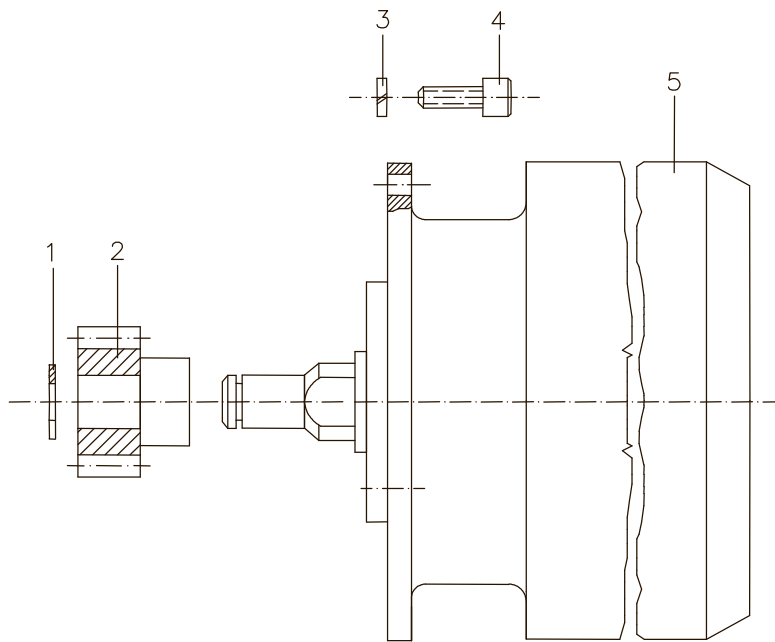


Fig.12

Reeving 2/1

Table 9.1

Fig	Pos	B _r	V _t (m/min)	Pcs	Name	Catalog numbe
11;12		170÷300	8	1	Traveling mechan	18097
11;12		170÷300	13	1	Traveling mechan	18098
11;12		170÷300	20	1	Traveling mechan	18099
11;12		170÷300	13/6,4	1	Traveling mechan	18100
11;12		170÷300	20/6	1	Traveling mechan	18101
12	1;2;5	170÷300	8	1	Electric motor with pinion	18133
12	1;2;5	170÷300	13	1	Electric motor with pinion	18134
12	1;2;5	170÷300	20	1	Electric motor with pinion	18135
12	1;2;5	170÷300	13/6,4	1	Electric motor with pinion	18136
12	1;2;5	170÷300	20/6	1	Electric motor with pinion	18137
12	1;2;5	170÷300	8	1	Electric motor	17303
12	5	170÷300	13	1	Electric motor	18079
12	5	170÷300	20	1	Electric motor	17305
12	5	170÷300	13/6,4	1	Electric motor	18080
12	5	170÷300	20/6	1	Electric motor	18081
12	1;2;5	170÷300	8	1	Pinion	18154
12	2	170÷300	13	1	Pinion	18155
12	2	170÷300	20	1	Pinion	18155
12	2	170÷300	13/6,4	1	Pinion	18155
12	2	170÷300	20/6	1	Pinion	18155
12	1	170÷300	+	1	Lock ring B12	BDS 2170-77
12	3	170÷300	+	7	Spring washer 2 8H	BDS 833-82
12	4	170÷300	+	7	Screw I M8x22 – 8,8	BDS 2171-83

Reeving 2/1

Table 9.1 - continued

Fig	Pos	Br	V _t (m/min)	Pcs	Name	Catalog numbe
11	1	170+300	+	1	Hind carrier	18132
11	2	170+300	+	2	Axis	18123
11	3	170+300	+	4	Ball bearing 6410 – Z – 50x130x31 BDS 4884-85	18142
11	4	170+300	+	4	Lock ring A130 BDS 2170-77	16083
11	5	170+300	+	2	Moves wheel	18122
11	6	170+300	+	2	Lock ring B50 BDS 2170-77	10152
11	7	170+300	+	1	Hind carrier basic	18138
11	8	170+300	+	2	Bearing 6303 - Z	18143
11	9	170+300	+	1	Shaft	18127
11	10	170+300	8	1	Gear wheel	18125
11	10	170+300	13	1	Gear wheel	18126
11	10	170+300	20	1	Gear wheel	18126
11	10	170+300	13/6,4	1	Gear wheel	18126
11	10	170+300	20/6	1	Gear wheel	18126
11	11	170+300	+	1	Distance bush	18119
11	12	170+300	+	1	Seal	18131
11	13	170+300	+	1	Case	18129
11	14	170+300	+	3	Spring washer 2 8H BDS 833-82	10139
11	15	170+300	+	3	Screw 1 M8x22 – 8,8 BDS 2171-83	18144
11	16	170+300	+	1	Bush	17200
11	17	170+300	+	1	Gear wheel	18124
11	18	170+300	+	1	Distance bush	18118
11	19	170+300		3	Distance bush	18117
11	20	170+300	+	2	Lock ring A62 БДС 2170	18085
11	21	170+300	+	2	Bearing 6206 – 2Z BDS 4884-85	18141
11	22	170+300		2	Gear wheel	18121
11	23	170+300		4	Lock ring B30 BDS 2170	10148
11	24	170+300		1	Drive shaft	18120
11	25	170+300	+	1	Composition of washers::	
				5	Washer	18107
				1	Washer	18108
				2	Washer	18113
				2	Washer	18114
				1	Washer	18115
11	26	170+300		1	Cap	18116
11	27	170+300		2	Nut M30 BDS 1253	18139
11	28	170+300		2	Chock bush	18104
11	29	170+300	+		Composition of washers:	
		170+300		12	Washer for one stud	18105
		170+300		4	Washer for one stud	18106
		170+300	+	4	Addition bush	18109
11	30	170+300	+	2	Stud	18103
11	31	170+300	+		Composition of washers:	
		170+300		4	Addition bush	18110
		170+300		8	Addition bush	18111
		170+300	+	8	Addition bush	18112
11	32	170+300	+	1	Gear whee	18130
11	33	170+300	+	1	Bearing 6203 BDS 4843	17317
11	34	170+300	+	1	Lock ring A47 BDS 2170	17316

V_t – traveling speed;

Br – width of profile of reil way;

„+” – data refers to all realization

9.2 Traveling block

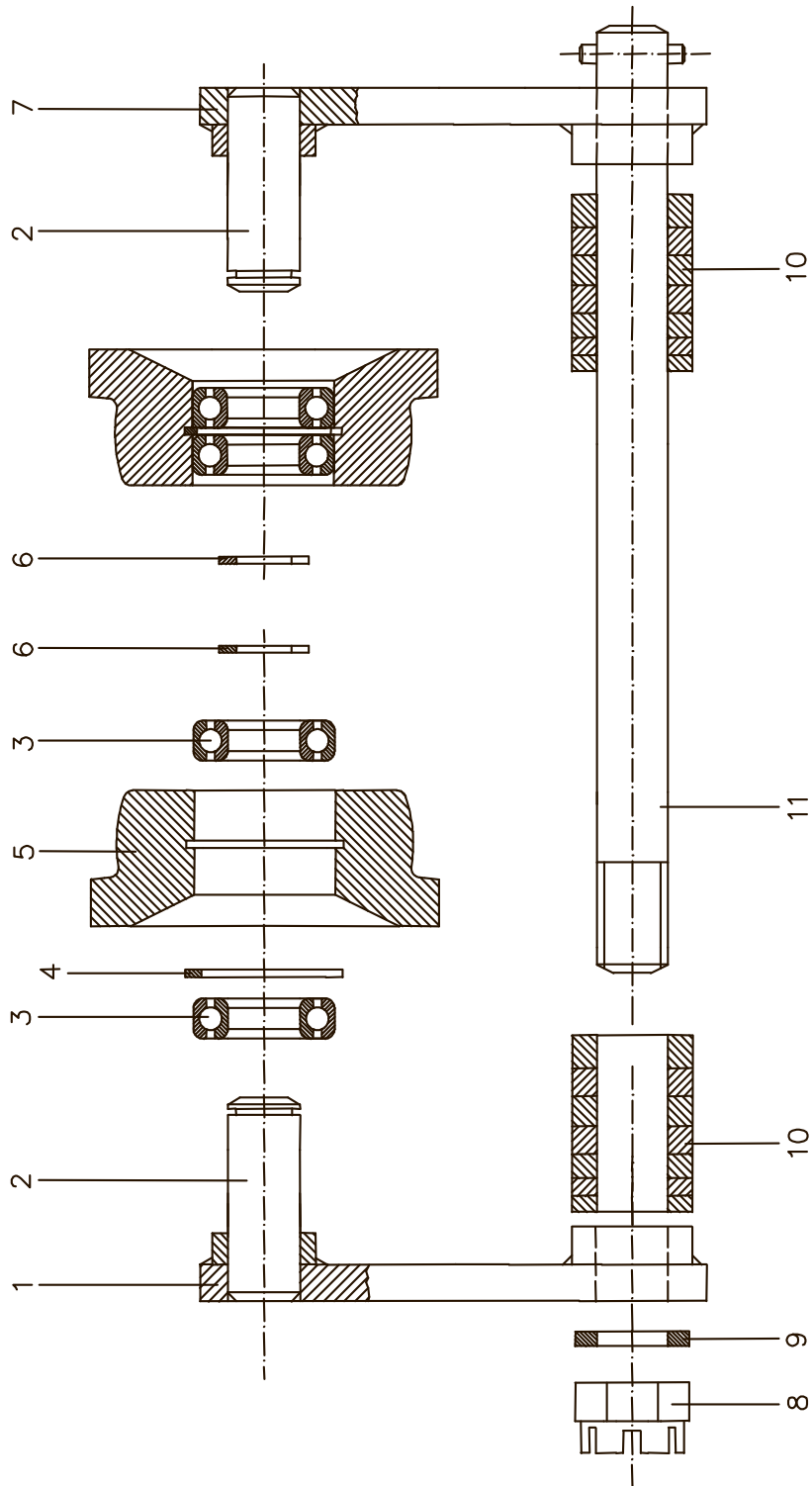


Fig.13

Table 9.2

Fig	Pos	B _r	V _t (m/min)	Pcs	Name	Catalog number
13	1+11	170÷300	+	1	Traveling block	18102
13	1	170÷300	+	1	Hind carrier	18145
13	2	170÷300	+	1	Axis	18123
13	3	170÷300	+	4	Ball bearing 6410-Z – 40x110x27	BDS 4884-85
13	4	170÷300	+	4	Lock ring A130	BDS 2170-77
13	5	170÷300	+	2	Moves wheel	18147
13	6	170÷300	+	2	Lock ring B50	BDS 2170-77
13	7	170÷300	+	1	Front carrier	18146
13	8	170÷300	+	2	Nut M30 – 8,8	BDS 1253-83
13	9	170÷300	+	2	Chock bush	18104
13	10	170÷300	+	4	Composition of washers:	
13		170÷300	+	12	Washer	18105
13		170÷300	+	4	Washer	18106
13		170÷300	+	4	Addition bush	18109
13		170÷300	+	4	Addition bush	18110
13		170÷300	+	8	Addition bush	18111
13		170÷300	+	8	Addition bush	18112
13	11	170÷300	+	2	Stud	18103
13	12	170÷300	+	4	Cap	18050

10. CONTROL BLOCK

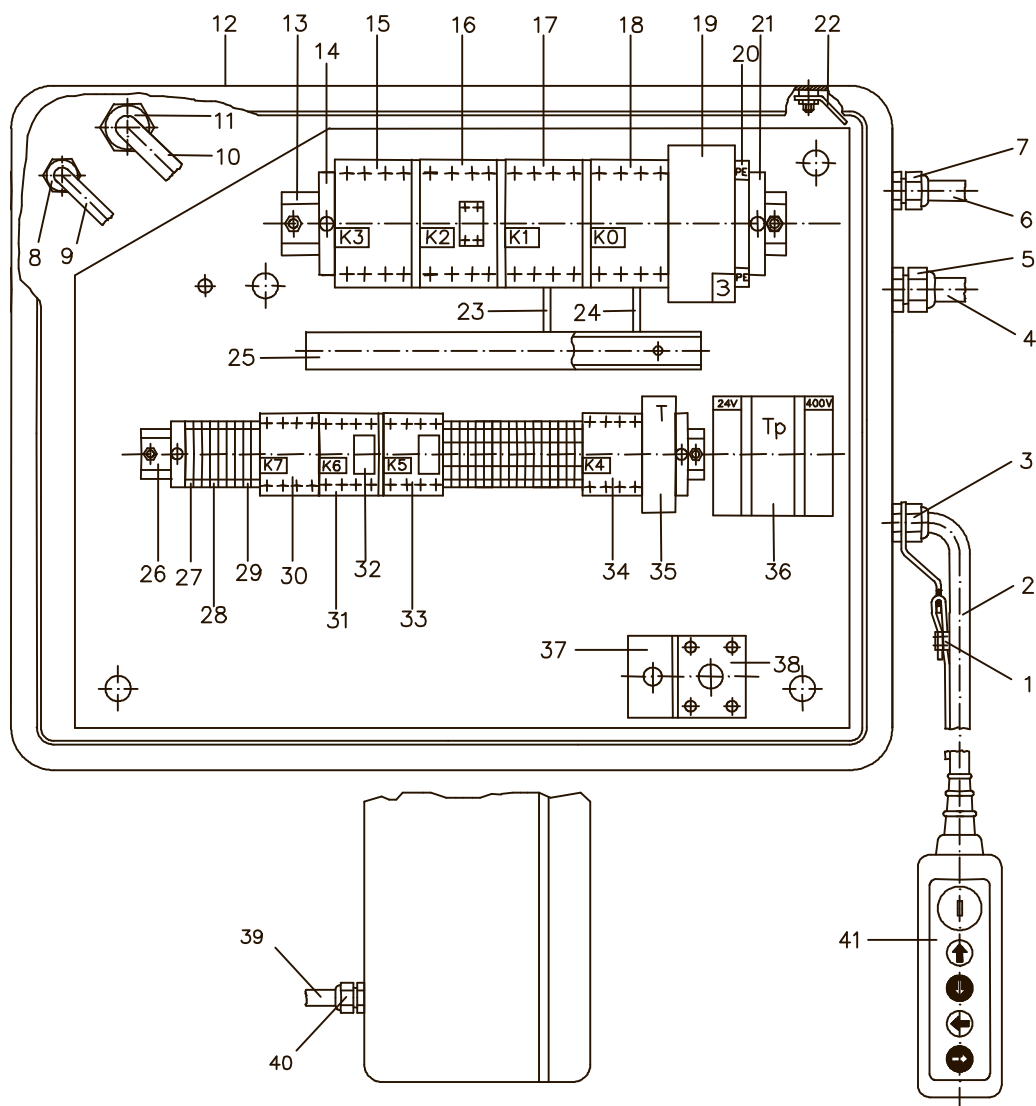


Fig.14

10.1 CONTROL BLOCK

Fig	Position	Name	Pcs	Note
14	1 - 39	Control block	1	
14	12	Box	1	
14	13 - 36	Chassis with electric equipment	1	
14	37	Control switch	1	Type is shown in passport
14	2; 4; 6; 9; 9a; 9b; 10; 38	Cable set	1	

10.2 Principle electric schemes

The principle electric schemes are appended to the passport of the electric hoists. The principle electric scheme is stuck also onto the inner side of the lid of the electric panel of the product.

10.3 Electric equipment

Table 10.3

Fig	Pos	Hp, (m)	Name	Pcs	Note
14	1	+	Slamp 5	2	
14	2	6,3	Cable control switch	1	With trolley
14		9	Cable control switch	1	With trolley
14		12,5	Cable control switch	1	With trolley
14		15	Cable control switch	1	With trolley
14		18	Cable control switch	1	With trolley
14		25	Cable control switch	1	With trolley
14		30	Cable control switch	1	With trolley
14		36	Cable control switch	1	With trolley
14	2	6,3	Cable control switch	1	Wiithout trolley
14		9	Cable control switch	1	Wiithout trolley
14		12,5	Cable control switch	1	Wiithout trolley
14		15	Cable control switch	1	Wiithout trolley
14		18	Cable control switch	1	Wiithout trolley
14		25	Cable control switch	1	Wiithout trolley
14		30	Cable control switch	1	Wiithout trolley
14		36	Cable control switch	1	Wiithout trolley
14	3	+	Pipe – D22	1	
14	4	+	Cable power	1	
14	5	+	Pipe	1	ORTAC – PG 21
14	6	+	Cable trolley	1	
14	7	+	Pipe	1	ORTAC – PG 11
14	8		Pipe	1	ORTAC – PG 11
14	9	6,3	Cable microlifting	1	
14		9	Cable microlifting	1	
14		12,5	Cable microlifting	1	
14		15	Cable microlifting	1	
14		18	Cable microlifting	1	
14		25	Cable microlifting	1	
14		30	Cable microlifting	1	
14		36	Cable microlifting	1	
14	9a	6,3	Cable I thermal protection	1	Cable with microlifting
14		9	Cable I thermal protection	1	
14		12,5	Cable I thermal protection	1	
14		15	Cable I thermal protection	1	
14		18	Cable I thermal protection	1	
14		25	Cable I thermal protection	1	
14		30	Cable I thermal protection	1	
14		36	Cable I thermal protection	1	
14	9b	6,3	Cable II thermal protection	1	Cable without microlifting
14		9	Cable II thermal protection	1	
14		12,5	Cable II thermal protection	1	
14		15	Cable II thermal protection	1	
14		18	Cable II thermal protection	1	
14		25	Cable II thermal protection	1	
14		30	Cable II thermal protection	1	
14		36	Cable II thermal protection	1	
14	10	6,3	Cable lifting motor	1	
14		9	Cable lifting motor	1	
14		12,5	Cable lifting motor	1	
14		15	Cable lifting motor	1	
14		18	Cable lifting motor	1	
14		25	Cable lifting motor	1	
14		30	Cable lifting motor	1	
14		36	Cable lifting motor	1	
14	11	+	Pipe	1	ORTAC – PG 21
14	12	+	Box	1	

Table 10.3 – continued

Fig	Pos	Hp, (m)	Name	Pcs	Note
14	13	+	Profile strip 35mm	1	L=350mm
14	14;21	+	End clamp	2	
14	15	+	Clamp 4mm	15	
14	15a	+	Clamp neutral	1	
14	17	+	Contactor Ub=24V	1	ABB A26-30-00
14	18	+	Contactor Ub=24V	1	ABB A30-30-00
14	19	+	Contactor Ub=24V	1	ABB A30-30-00
14	20	+	Contactor - Ub=24V	1	ABB A26-22-00
14	22	+	Cable bridge -neutral	1	Basic -lid of the control board
14	23	+	Profile	1	L=350mm
14	24	+	Profile strip 35 mm	1	L=320mm
14	25;33	+	End clamp	2	
14	26	+	Contactor Ub=24V	1	ABB K6-22Z
14	27	+	Profile strip 35 mm	1	L=150mm
14	28	+	Contactor Ub=24V	1	ABB B6-30-01
14	29	+	Contactor Ub=24V	1	ABB B6-30-01
14	30	+	Clamp 2,5mm	20	
14	31	+	Timer 0-10s, 24VAC	1	RE8RA11B
14	32	+	Contactor Ub=24V	1	ABB B6-30-01
14	34	+	Transformer – 400/24V	1	P=60VA
14	35	+	Strap	1	
14	36	+	End switch – КИ-Г1	1	
14	37	+	Command button – XAC-A -4913	1	Control scheme №1
14		+	Command button – XAC-A -4923	1	Control scheme №2
14		+	Command button – XAC-A -4813	1	Control scheme №3
14		+	Command button – XAC-A -4813	1	Control scheme №4
14		+	Command button – XAC-A -2913	1	Control scheme №5
14		+	Command button - XAC-A - 2813	1	Control scheme №6
14	38	6,3	Cable load limiter	1	
14		9	Cable load limiter	1	
14		12,5	Cable load limiter	1	
14		15	Cable load limiter	1	
14		18	Cable load limiter	1	
14		25	Cable load limiter	1	
14		30	Cable load limiter	1	
14		36	Cable load limiter	1	
14	39	+	Pipe	1	ORTAC – PG7

Note: Standard electrical elements can be offered from key diagram.

✂

Application № 1

ORDER

Spare parts of hoist type, serial number, year.....
, group FEM, power supply:..... voltage
; frequency request according to catalogue №

№	Name	Catalog number	pcs
1			
2			
3			
4			
5			

Please send the spare parts to:

ADDRESS:.....

Delivery must be by:

Date :

Client :

YANTRA



CATALOGUE

OF SPARE PARTS
FOR HOIST TYPE **MPM1...**