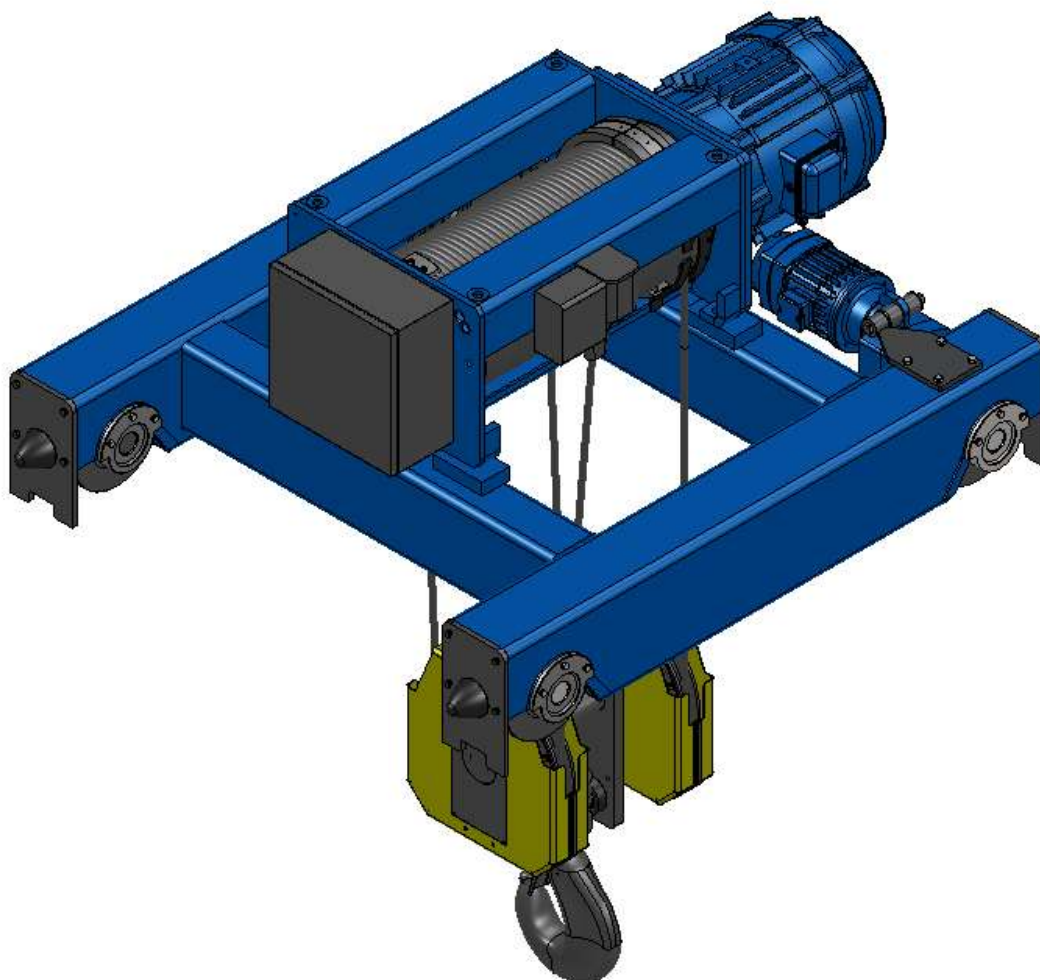




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Electric motor company BDS EN ISO 9001 Quality system



SPARE PARTS CATALOG

DOUBLE RAIL CRANE TROLLEY TYPE KVAT

CONTENT:

1.Directions for using the catalog	2
2.Double rail trolley type F fig.1	3
3.Double rail trolley –Components and units depending on the hoist type and the lifting height - fig.1- table2	3,4,5
4.Double rail trolley –Components and units depending on the hoist type - fig.1 - table 3, 4	6,7,8

The present catalog complies with the following standards

БДС 2.601 – 82 *Документи експлоатационни*
DIN V 8418 *Benutzerinformation*
EN 292 – 2:1991 *Sicherheit von Maschinen*
DIN 24420, Teil 1 *Erzatzteillisten, Aigemeines*
DIN 24420, Teil 2 *Erzatzteillisten,Form und Bau des Textteiles*
ГОСТ 2.601 – 68 *ЕСКД. Эксплуатационные документы*
ISO 10973:1995(E) *Cranes – Spare Parts manual*

Each purchase order should contain the following data:

1. **Type,serial number,year of production** of the electric hoist, written on the hoist label and the **group of operation**.
2. **Name** and **catalogue number** of the requested part.
3. **Quantity** –the quantity of the requested part.
4. **Catalogue number**, which can be found at the end of the last line of cover page.
5. **Shipment requirements**.
6. **Exact address for delivery**.

For supply of spare parts refer to the following address:

SDM DŹWIGI I WCIĄGNIKI Sp. z.o.o
Aleja Tadeusza Kościuszki 2A
42-202 Częstochowa
NIP: PL 9492278845
e-mail: biuro@sdm-wciagniki.pl

tel:+48880428970

Instructions to the user:

The present catalogue covers all parts needed for manufacturing the electric hoists series VAT with double rail trolley.

The tables contain figure number and detail position and in the opposite - the name, quantity and catalogue number of the corresponding execution.

The client can order the whole assembled unit, not separate parts of it. The assembled unit positions are marked with medium brackets. The undetachable units are depicted as such on the figures and they are delivered as a whole. The positions of the undetachable units are marked with big brackets.

The positions of standardized items such as bolts, nuts, washers, safety rings and etc., are marked with small brackets. Usually they are not delivered as spare parts by the manufacturer, but they could be ordered by the customer as an exception. When replacing the carrying elements the client should observe the strength class.

The electric hoists ,KVAT series, with low headroom, have been developed for lifting speeds according to Table 1 and for lifting heights according to Table 1.

Table 1

Size	Capacity [kg]	Gauge B [mm]	Reeving a	Lifting height [m]										
				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	H11
KVAT20F	2000	1000 1200 1400 1600 1800 2000	2/1	8,5	11,5	15	22	29	36	43	50			
	4000	1000 1200 1400 1600 1800 2000	4/1	7,5	11	14,5	18	21,5	25					
KVATB20F	5000	1000 1200 1400 1600 1800 2000	4/1	7,5	11	14,5	18	21,5	25					
KVAT30F	3200	1000 1200 1400 1600 1800 2000	2/1	7,5	10	13	19	25	31	37	43	49		
	6300	1000 1200 1400 1600 1800 2000	4/1	6,5	9,5	12,5	15,5	18,5	21,5	24,5				
KVAT40F	5000	1000 1200 1400 1600 1800	2/1	6,5	9,5	12,5	18,5	25,5	31,5	36,5	42,5	48,5		
	10000	1000 1200 1400 1600 1800	4/1	6	9	12,5	15,5	18	21	24				
KVAT50F	8000	1000 1200 1400 1600 1800	2/1	-	9	12	18	24	30	36	42	48		
	16000	1200 1400 1600 1800 2000	4/1	6	9	12	15	18	21	24	27	30	33	36
KVAT60F	12500	1200 1400 1600 1800 2000	2/1	-	8,5	14	17	23	29	35	41,5	47,5		
	25000	1400 1600 1800 2000	4/1	7	8,5	11,5	14,5	17,5	20,5	23,5				
KVAT60AF	16000	1200 1400 1600 1800 2000	2/1	6,5	11,5	14	19	24	29,5	35	40			
	32000	1400 1600 1800 2000	4/1	5,5	7	9,5	12	14,5	17	20				

Table 1 – fig.3

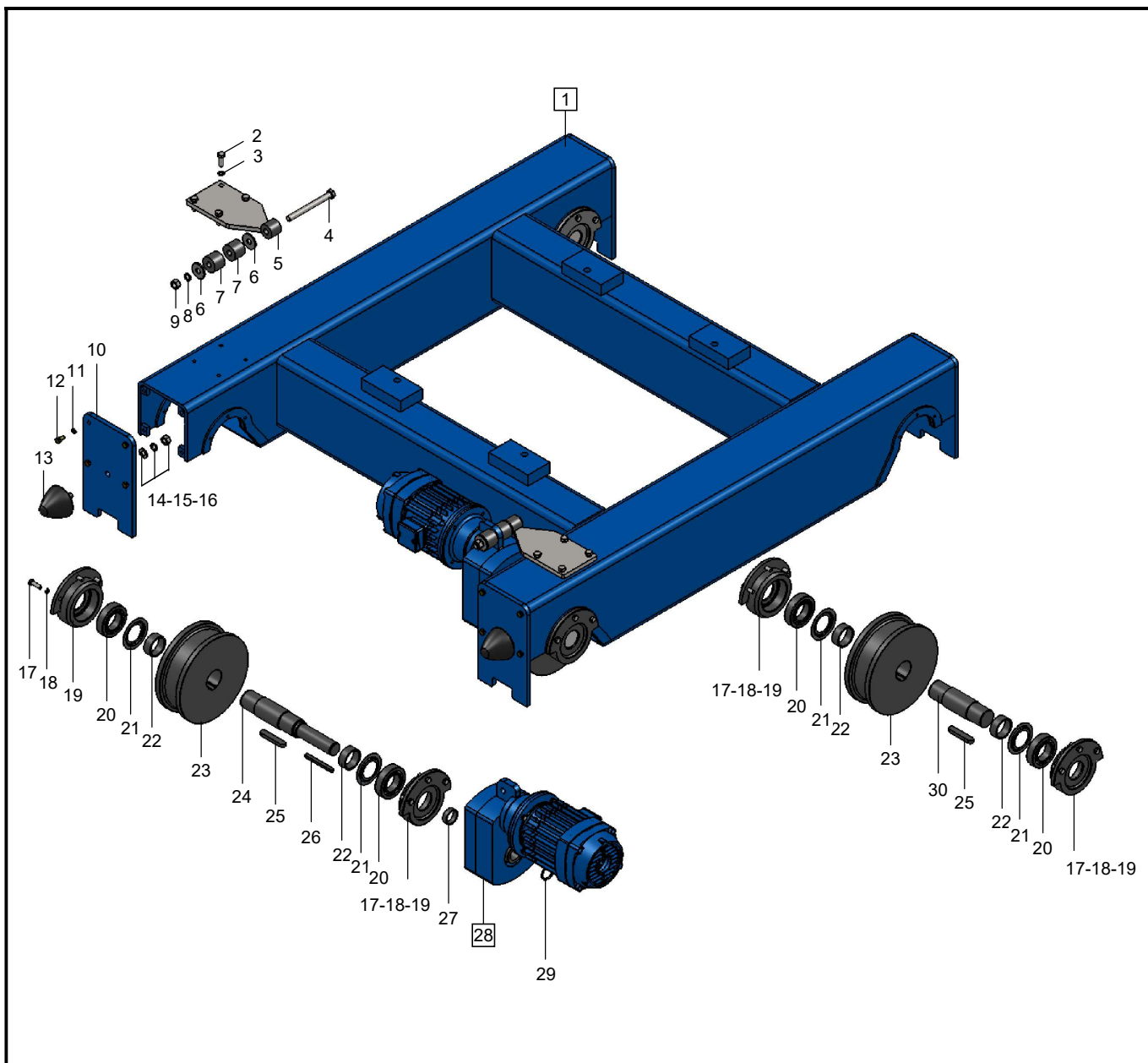
Designations used in the catalog:

V – travel speed

H – lifting speed

a – reeving

THE MANUFACTURER RESERVES THE RIGHT TO MAKE CHANGES IN THE PARTS CATALOG.



COMPONENTS AND UNITS DEPENDING ON THE LIFTING HEIGHT ACCORDING TO - Fig.1

Table 2

KVAT20F / KVAT30F												
Capacity				2t / 3,2t								
Reeving				2/1								
Lifting height [m]				H1	H2	H3	H4	H5	H6	H7	H8	H9
Pos.	Denomination	B[mm]	Бр.	Part number								
{1}	Frame	1000	1	1471504	1471514	1471525	1471530	1471546	1471551	1471567	1471572	1471588
		1200		1471593	1471609	1471614	1471628	1471635	1471640	1471656	1471661	1471677
		1400		1471682	1471698	1471703	1471719	1471724	1471731	1471745	1471750	1471766
		1600		1471771	1471787	1471792	1471808	1471813	1471829	1471834	1471845	1471855
		1800		1471860	1471876	1471881	1471897	1471902	1471918	1471923	1471939	1471944
		2000		1471959	1471965	1471970	1471986	1471991	1472005	1472010	1472026	1472031

KVAT20F / KVATB20F / KVAT30F										
Capacity				4t / 5t / 6,3t						
Reeving				4/1						
Lifting height [m]				H1	H2	H3	H4	H5	H6	H7
Pos.	Denomination	B[mm]	Qty.	Part number						
{1}	Frame	1000	1	1470049	1470055	1470060	1470076	1471076	1471085	1471090
		1200		1470081	1470097	1470102	1470118	1471106	1471111	1471127
		1400		1470123	1470139	1470144	1470152	1471132	1471148	1471153
		1600		1470165	1470186	1470191	1470207	1471169	1471174	1471180
		1800		1470212	1470228	1470233	1470249	1471195	1471200	1471216
		2000		1471221	1471237	1471242	1471258	1471263	1471279	1471284

KVAT40												
Capacity				5t								
Reeving				2/1								
Lifting height [m]				H1	H2	H3	H4	H5	H6	H7	H8	H9
Pos.	Denomination	B[mm]	Qty.									
{1}	Frame	1000	1	1470254	1470266	1470275	1470280	1470296	1470301	1470317	1470322	1470338
		1200		1470343	1470359	1470364	1470370	1470385	1470390	1470406	1470411	1470427
		1400		1470432	1470448	1470453	1470469	1470474	1470483	1470495	1470500	1470516
		1600		1470521	1470537	1470542	1470558	1470563	1470579	1470584	1470597	1470605
		1800		1470610	1470626	1470631	1470647	1470652	1470668	1470673	1470689	1470694

KVAT40											
Capacity				10t							
Reeving				4/1							
Lifting height [m]				H1	H2	H3	H4	H5	H6	H7	
Pos.	Denomination	B[mm]	Qty.	Part number							
{1}	Frame	1000	1	1354031	1354047	1354052	1354068	1354073	1354089	1354094	
		1200		1354105	1354115	1354120	1354136	1354141	1354162	1354157	
		1400		1354178	1354183	1354199	1354204	1354219	1354225	1354230	
		1600		1354246	1354251	1354267	1354272	1354288	1354293	1354309	
		1800		1354314	1354322	1354335	1354340	1354356	1354361	1354377	

KVAT50											
Capacity				8t							
Reeving				2/1							
Lifting height [m]				H1	H2	H3	H4	H5	H6	H7	H8
Pos.	Denomination	B[mm]	Qty.	Part number							
{1}	Frame	1000	1	1354644	1354653	1354665	1354670	1354686	1354691	1354707	1354712
		1200		1354728	1354733	1354749	1354754	1354767	1354775	1354780	1354796
		1400		1354801	1354817	1354822	1354838	1354843	1354859	1354864	1354870
		1600		1354885	1354890	1354906	1354911	1354927	1354932	1354948	1354953
		1800		1354969	1354974	1354984	1354995	1470008	1470013	1470029	1470034

KVAT50F														
Capacity				16t										
Reeving				4/1										
Lifting height [m]				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	H11
Pos.	Denomination	B[mm]	Qty.	Part number										
{1}	Frame	1200	1	1353530	1353546	1353551	1354436	1353567	1470704	1470715	1470720	1470736	1470741	1470757
		1400		1353572	1353588	1353593	1354445	1353609	1470762	1470778	1470783	1470799	1470804	1470818
		1600		1353614	1353626	1353635	1344450	1353640	1470825	1470830	1470846	1470851	1470867	1470872
		1800		1353656	1353661	1353677	1354466	1353682	1470888	1470893	1470909	1470914	1470921	1470935
		2000		1353698	1353703	1353719	1354471	1353724	1470940	1470956	1470961	1470977	1470982	1470998

KVAT60											
Capacity				12,5t							
Reeving				2/1							
Lifting height [m]				H2	H3	H4	H5	H6	H7	H8	H9
Pos.	Denomination	B[mm]	Qty.	Part number							
{1}	Frame	1200	1	1353174	1353188	1353195	1353200	1353216	1353221	1353237	1353242
		1400		1353258	1353263	1353279	1353284	1353291	1353305	1353310	1353326
		1600		1353331	1353347	1353352	1353368	1353373	1353389	1353394	1353409
		1800		1354487	1354492	1354508	1354513	1354529	1354534	1354540	1354555
		2000		1354560	1354576	1354581	1354597	1354602	1354618	1354623	1354639

KVAT60										
Capacity				25t						
Reeving				4/1						
Lifting height [m]				H1	H2	H3	H4	H5	H6	H7
Pos.	Denomination	B[mm]	Qty.	Part number						
{1}	Frame	1400	1	1353829	1353834	1353843	1353855	1353860	1353876	1353881
		1600		1353897	1353902	1353918	1353923	1353939	1353944	1353957
		2000		1353965	1353970	1353986	1353991	1354005	1354010	1354026

KVAT60A											
Capacity				16t							
Reeving				2/1							
Lifting height [m]				H1	H2	H3	H4	H5	H6	H7	H8
Pos.	Denomination	B[mm]	Qty.	Part number							
{1}	Frame	1200	1	1353174	1353188	1353195	1353200	1353216	1353221	1353237	1353242
		1400		1353258	1353263	1353279	1353284	1353291	1353305	1353310	1353326
		1600		1353331	1353347	1353352	1353368	1353373	1353389	1353394	1353409
		1800		1354487	1354492	1354508	1354513	1354529	1354534	1354540	1354555
		2000		1354560	1354576	1354581	1354597	1354602	1354618	1354623	1354639

KVAT60A										
Capacity				32t						
Reeving				4/1						
Lifting height [m]				H1	H2	H3	H4	H5	H6	H7
Pos.	Denomination	B[mm]	Qty.	Part number						
{1}	Frame	1400	1	1353829	1353834	1353843	1353855	1353860	1353876	1353881
		1600		1353897	1353902	1353918	1353923	1353939	1353944	1353957
		2000		1353965	1353970	1353986	1353991	1354005	1354010	1354026

COMPONENTS AND UNITS - Fig.1

Table 3

Pos.	Denomination	Qty.	HOIST SIZE					2/1
			KVAT20F KVAT30F	KVAT40F	KVAT50F	KVAT60F	KVAT60AF	
(2)	Bolt DIN931 / 8.8	8	M12x35	M12x35	M12x35	M12x35	M12x35	
(3)	Spring washer DIN7980	8	2 12H	2 12H	2 12H	2 12H	2 12H	
(4)	Bolt DIN931 / 8.8	2	M14x145	M14x145	M16x170	M16x170	M16x170	
{5}	Carrier plate	2	1358298	1358151	1358228	1358146	1358146	
6	Washer	2	2625363	2625363	2625117	2625117	2625117	
7	Pad	2	2249497	2249497	2249502	2249502	2249502	
(8)	Spring washer DIN7980	2	2 14H	2 14H	2 16H	2 16H	2 16H	
(9)	Nut DIN934 - 8	2	M14	M14	M16	M16	M16	
10	Anti drop plate	4	2522512	2522156	2522109	2519976	2519976	
(11)	Bolt DIN931 / 8.8	16	2 10H	2 10H	2 10H	2 10H	2 10H	
(12)	Spring washer DIN7980	16	M10x25	M10x35	M10x35	M10x35	M10x35	
13	Buffer	4	5032152	5032152	5032152	5032152	5032152	
(14)	Washer DIN125	4	M16	M16	M16	M16	M16	
(15)	Spring washer DIN7980	4	2 16H	2 16H	2 16H	2 16H	2 16H	
(16)	Nut DIN934 - 8	4	M16	M16	M16	M16	M16	
(17)	Bolt DIN931 / 8.8	24	M10x35	M10x35	M10x35	M10x35	M10x35	
(18)	Spring washer DIN7980	24	2 10H	2 10H	2 10H	2 10H	2 10H	
19	Flange	8	2500292	2500284	2500297	2500279	2500279	
(20)	Bearing SKF	8	6211-2z	6211-2z	22211C	22211C	22211C	
21	Safety washer	8	-	-	2625122	2625122	2625122	
22	Space bush	8	2553011	2552950	2552937	2552937	2552937	
23	Travel wheel	4	2561572	2561640	2561724	2560485	2560485	
24	Shaft	2	2555946	2555904	2555899	2555899	2555899	
(25)	Cotter Ст на СИБ189-79	4	18x11x75	18x11x85	18x11x95	18x11x95	18x11x95	
(26)	Cotter Ст на СИБ189-79	2	8x7x80	10x8x72	12x8x112	12x8x112	12x8x112	
27	Space bush	2	2553116	2552966	2552945	2552945	2552945	

Pos.	Denomination		Qty.	HOIST SIZE					2/1
				KVAT20F KVAT30F	KVAT40F	KVAT50F	KVAT60F	KVAT60AF	
{28}	Geared motor	16 m/min	2	TP1160.36AK71B4	TP1200 44AK71B4	TP1250 54 AK80-4	TP1250 66 AK80-4	TP1250 66 AK80-4	
		20 m/min		TP1160.28AK71B4	TP1200 35AK71B4	TP1250 46 AK80-4	TP1250 54 AK80-4	TP1250 54 K80P4	
		32 m/min		TP1160.16AK71B4	TP1200 22 AK71-4	TP1250 27 K80P4	TP1250 36 K80P4	TP1250 36 AK90-4	
		15/5 m/min		TP1160.36 AK80B12/4	TP1200 44 AK80B12/4	TP1250 54 AK80P12/4	TP1250 72 AK80P12/4	TP1250 72 AK80P12/4	
		20/6 m/min		TP1160.28 AK80B12/4	TP1200 35 AK80B12/4	TP1250 46 AK80P12/4	TP1250 54 AK80P12/4	TP1250 54 AK90-12/4	
		32/10 m/min		TP1160.16 AK80B12/4	TP1200 22 AK80-12/4	TP1250 27 AK90-12/4	TP1250 36 AK90P12/4	TP1250 36 AK90P12/4	
(29)	Ring DIN471		2	30x1,5	35x1,5	40x1,75	40x1,75	40x1,75	
30	Axle		2	2567223	2567181	2567176	2567176	2567176	

Table 3

Pos.	Denomination		Qty.	HOIST SIZE					4/1
				KVAT20F KVATB20F	KVAT30F	KVAT40F	KVAT50F	KVAT60F	
(2)	Bolt DIN931 / 8.8		8	M12x35	M12x35	M12x35	M12x35	M12x35	M12x35
(3)	Spring washer DIN7980		8	2 12H	2 12H	2 12H	2 12H	2 12H	2 12H
(4)	Bolt DIN931 / 8.8		2	M14x145	M14x145	M16x170	M16x170	M16x170	M20x170
{5}	Carrier plate		2	1358151	1358151	1358228	1358146	1358209	1358214
6	Washer		2	2625363	2625363	2625117	2625117	2625117	2625253
7	Pad		2	2249497	2249497	2249502	2249502	2249502	2249523
(8)	Spring washer DIN7980		2	2 14H	2 14H	2 16H	2 16H	2 16H	2 20H
(9)	Nut DIN934 - 8		2	M14	M14	M16	M16	M16	M20
10	Anti drop plate		4	2522156	2522156	2522109	2519976	2522245	2522245
(11)	Bolt DIN931 / 8.8		16	2 10H	2 10H	2 10H	2 10H	2 10H	2 10H
(12)	Spring washer DIN7980		16	M10x35	M10x35	M10x35	M10x35	M10x35	M10x35
13	Buffer		4	5032152	5032152	5032152	5032152	5032152	5032152
(14)	Washer DIN125		4	M16	M16	M16	M16	M16	M16
(15)	Spring washer DIN7980		4	2 16H	2 16H	2 16H	2 16H	2 16H	2 16H
(16)	Nut DIN934 - 8		4	M16	M16	M16	M16	M16	M16
(17)	Bolt DIN931 / 8.8		32	M10x35	M10x35	M10x35	M10x35	M10x35	M10x35
(18)	Spring washer DIN7980		32	2 10H	2 10H	2 10H	2 10H	2 10H	2 10H
19	Flange		8	2500284	2500284	2500297	2500279	2500331	2500331
(20)	Bearing SKF		8	6211-2z	6211-2z	22211C	22211C	22212C	22212C
21	Safety washer		8	-	-	2625122	2625122	2625248	2625248
22	Space bush		8	2552950	2552950	2552937	2552937	2553273	2553273
23	Travel wheel		4	2561640	2561640	2561724	2560485	2560453	2560453
24	Shaft		2	2555904	2555904	2555899	2555899	2556012	2556028
(25)	Cotter Ст на СИБ189-79		4	18x11x85	18x11x85	18x11x95	18x11x95	18x11x100	18x11x100

Pos.	Denomination		Qty.	HOIST SIZE						4/1
				KVAT20F KVATB20F	KVAT30F	KVAT40F	KVAT50F	KVAT60F	KVAT60AF	
(26)	Cotter Ст на СИБ189-79		2	10x8x72	10x8x72	12x8x112	12x8x112	12x8x110	14x9x135	
27	Space bush		2	2552966	2552966	2552945	2552945	2551119	2551145	
{28}	Geared motor	16 m/min	2	TP1200.44 AK71B4	TP1200 44 AK71-4	TP1250 54 AK80-4	TP1250 66 AK80-4	TP1250 88 AK80P4	TP1315 86 AK90-4	
		20 m/min		TP1200.35 AK71B4	TP1200 35 AK71-4	TP1250 46 AK80-4	TP1250 54 AK80P4	TP1250 72 AK90-4	TP1315 71 AK90P4	
		32 m/min		TP1200.22 AK71-4	TP1200 22 AK80-4	TP1250 27 AK80P4	TP1250 36 AK90-4	TP1250 46 AK90P4	TP1315 46 AK100-4	
		15/5 m/min		TP1200.44 AK80B12/4	TP1200 44 AK80-12/4	TP1250 54 AK80P12/4	TP1250 72 AK80P12/4	TP1250 88 AK90-12/4	TP1315 86 AK90P12/4	
		20/6 m/min		TP1200.35 AK80B12/4	TP1200 35 AK80-12/4	TP1250 46 AK80P12/4	TP1250 54 AK90-12/4	TP1250 72 AK90P12/4	TP1315 71 AK100-12/4	
		32/10 m/min		TP1200.22 AK80-12/4	TP1200 22 AK80P12/4	TP1250 27 AK90-12/4	TP1250 36 AK90P12/4	TP1250 46 AK100-12/4	TP1315 46 AK100P12/4	
(29)	Ring DIN471		2	35x1,5	35x1,5	40x1,75	40x1,75	40x1,75	50x1,75	
30	Axle		2	2567181	2567181	2567176	2567176	2565870	2567485	

