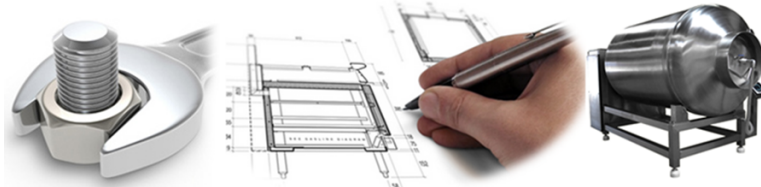


# Spare parts list

# MPR 220

CM Machine Services Ltd.

Leaders In the Food Industry



SERVICE

FABRICATION

EQUIPMENT

[www.cmmachineservices.net](http://www.cmmachineservices.net) 905-793-3994



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## MPR 220 from No. 2106











		<i>Position No.</i>	<i>Part No.</i>	<i>Designation</i>	<i>Quantity</i>	
		1	110770	Frame MPR 150/220	1 Stk	
		2	111799	Drum MPR 220	1 Stk	
		3	113839	Drum swivelling MPR 150/220	1 Stk	
		4	110779	Lid MPR 150/220	1 Stk	
		5	F42079	Tumbling system MKR 220 / MPR 220	1 Stk	
		6	110808	Gear guard MPR 150/220	1 Stk	
		7	110794	Cooling system MPR 150/220	1 Stk	
		8	110795et	Vacuum system MPR 150/220	1 Stk	
		9	110798	Switch box MPR 150/220	1 Stk	
		10	111044	Side cap MPR 150/220	1 Stk	
		11	114534	Tablet bracket MPR 150/220	1 Stk	

		<i>Position No.</i>	<i>Part No.</i>	<i>Designation</i>	<i>Quantity</i>	
		12	110999	Switch MPR 500/900/150/220/ IR 29	1 Stk	
		13	111005	Disc Ø 25 x 10	1 Stk	
		14	111006	Disc Ø 25 x 6	1 Stk	
		15	113683	Mounting aid scraper MGR	1 Stk	
		500	110820	Cable set MPR 150/220	1 Stk	
		501	114639	Power supply MPR 150/220/300/600	1 Stk	
		502	112080	Additional materials MPR 150/220	1 Stk	









## 1 - Frame - 110770

		<i>Position No.</i>	<i>Part No.</i>	<i>Designation</i>	<i>Quantity</i>	
		2	F42072	Wheel MKR 150/220	2 Stk	
		3	F42035	Guide roller MKR 150/220	2 Stk	
		4	111035	Bracket 117 x 70 x 4	1 Stk	
		5	F20258	Washer DIN125 A 6,4	4 Stk	
		6	F24031	Spring lock washer DIN127 B 6	4 Stk	
		7	F20203	Hexagonal nut DIN934 M 6	4 Stk	

## 2 - Wheel - F42072





		<i>Position No.</i>	<i>Part No.</i>	<i>Designation</i>	<i>Quantity</i>	
		1	F26739	Wheel Ø 125 x 53	1 Stk	
		2	F28796	Bolt Ø 12 x 86	1 Stk	
		3	F20202	Washer DIN125 A 13	2 Stk	
		4	F20812	Cap nut DIN917 M 12	2 Stk	
		5	104100	Tube Ø 15 x 1,4 x 52,5	1 Stk	

## 3 - Guide roller - F42035

		<i>Position No.</i>	<i>Part No.</i>	<i>Designation</i>	<i>Quantity</i>	
		1	F26742	Guide roller Ø 125 mm	1 Stk	
		2	F22888	Washer DIN125 A 8,4	4 Stk	
		3	F21260	Spring lock washer DIN127 B 8	4 Stk	
		4	F22449	Hexagonal bolt DIN933 M 8 x 20	4 Stk	



## 2 - Drum - 111799

		<i>Position No.</i>	<i>Part No.</i>	<i>Designation</i>	<i>Quantity</i>	
		2	F40984	Filter all MKR	1 Stk	
		500	109721	Resistance thermometer PT100 / Ø 6 / L=2,5	1 Stk	

## 3 - Drum swivelling - 113839





		<i>Position No.</i>	<i>Part No.</i>	<i>Designation</i>	<i>Quantity</i>	
	1	F28893	Ring Ø 144 x Ø 250 x 15,5	1 Stk		
	2	F29117	O-ring Ø 209,14 x 3,53	1 Stk		
	3	F28891	Adjusting spring 18 x 7 x 96	2 Stk		
	4	F243081	Disc Ø 115,2 x Ø 210 x 2,5	1 Stk		
	5	F28900	Nut M115 x 2 x Ø 150 x 10	1 Stk		
	6	113838	Signal plate 220 x 231 x 5	1 Stk		
	7	F20570	Washer DIN125 A 4,3	7 Stk		
	8	F28952	Cylinder head screw DIN84 M 4 x 12	5 Stk		
	9	F28896	Bracket 84,5 x 37 x 20 x 2,5	1 Stk		
	10	F29183	Cylinder head screw DIN84 M 4 x 8	2 Stk		
	11	F28897	Bracket 54 x 22,5 x 20 x 2,5	1 Stk		

		<i>Position No.</i>	<i>Part No.</i>	<i>Designation</i>	<i>Quantity</i>	
		12	F243083	Housing 240,1 x 166,6 x 2,5	1 Stk	
		13	F28873	Disc Ø 10,5 x 19 x 2	2 Stk	
		14	F22141	Cylinder head screw DIN912 M10 x 25	2 Stk	
		15	F243084	Cover 45 x 40 x 18,5 x 2,5	2 Stk	
		16	F27070	Plate / sheet 36 x 12 x 4	2 Stk	
		17	F25987	Cylinder head screw DIN84 M 5 x 30	4 Stk	
		500	101124	Gear motor MKR 150/220 MPR 150/220	1 Stk	

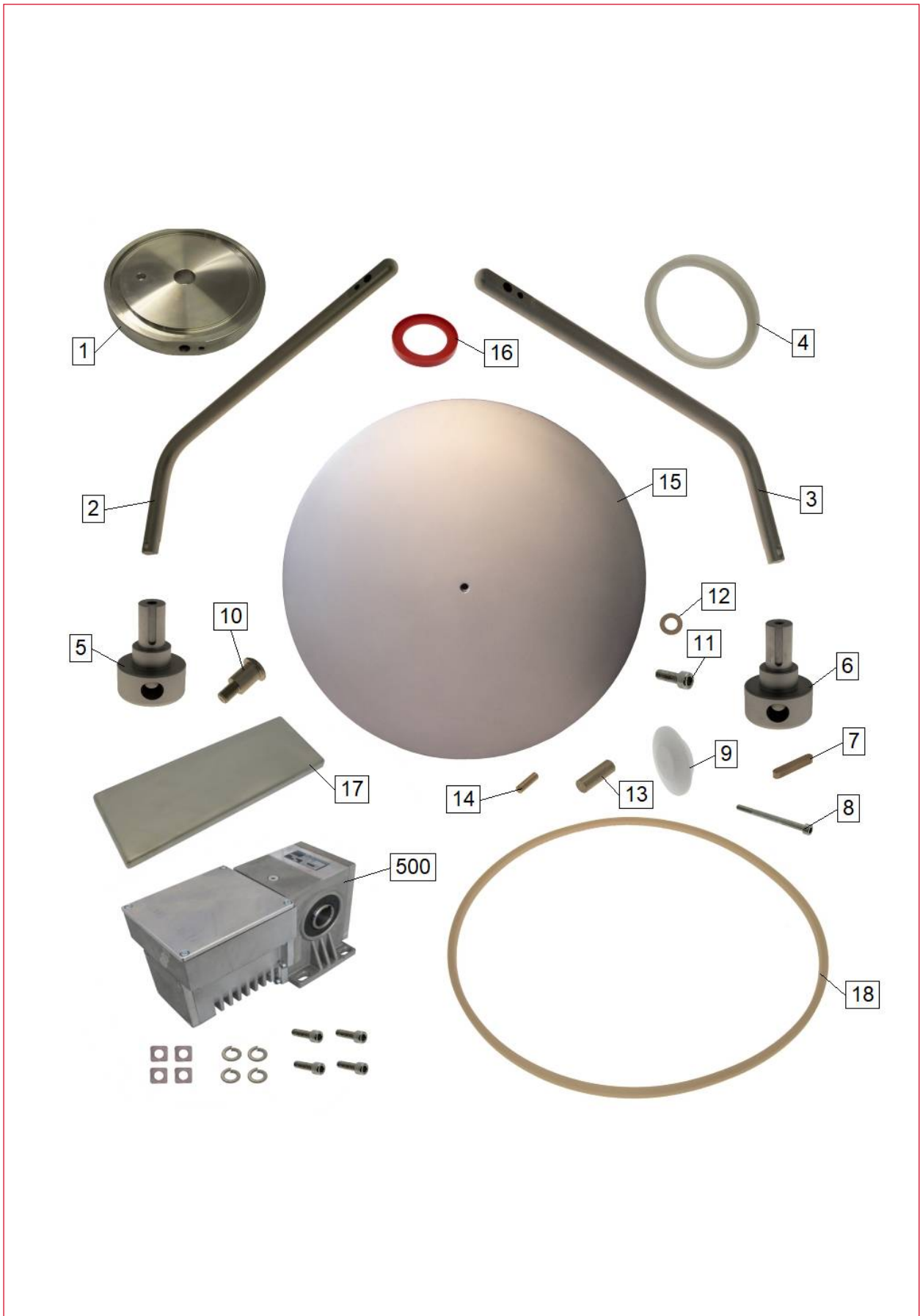
## 500 - Gear motor - 101124

		<i>Position No.</i>	<i>Part No.</i>	<i>Designation</i>	<i>Quantity</i>	
		1	F23713	Washer DIN125 A 17	4 Stk	
		2	F23786	Hexagonal bolt DIN933 M16 x 55	3 Stk	
		3	F28951	Cylinder head screw DIN912 M16 x 50	1 Stk	
		500	F28436	Gear motor with brake SK772 100-S0-80 L/6 BRE5	1 Stk	
		501	F29057	Cable gland M 25 x 1.5	1 Stk	
		502	110898	Reducing adapter PA-Reducing M25/M20x1,5	1 Stk	
		503	F29058	Cable gland M 20 x 1.5	1 Stk	

## 500 - Gear motor with brake - F28436

		<i>Position No.</i>	<i>Part No.</i>	<i>Designation</i>	<i>Quantity</i>	
		500	F21513	Rectifier GHE40L	0 Stk	
		501	113555	Motor brake Item no.:19011902/19100117	0 Stk	

## 4 - Lid - 110779











## 4 - Lid - 110779

		<i>Position No.</i>	<i>Part No.</i>	<i>Designation</i>	<i>Quantity</i>	
		1	F28864	Housing Ø 25,2 x Ø 195 x 25	1 Stk	
		2	F28868	Arm Ø 25 x 600	1 Stk	
		3	F28868a	Arm Ø 25 x 600	1 Stk	
		4	F28867	Seal 13 x 17 x 520	1 Stk	
		5	F28870	Shaft Ø 79 x 127,5	1 Stk	
		6	F28870a	Shaft Ø 79 x 127,5	1 Stk	
		7	F21100	Adjusting spring A 8 x 7 x 45	2 Stk	
		8	F28901	Cylinder head screw DIN912 M10 x130	1 Stk	
		9	F22134	Plug Ø 30 x 8	2 Stk	
		10	F28869	Shaft Ø 35 x 61	1 Stk	
		11	F25962	Cylinder head screw DIN912 M10 x 30	1 Stk	

		<i>Position No.</i>	<i>Part No.</i>	<i>Designation</i>	<i>Quantity</i>	
		12	F28873	Disc Ø 10,5 x 19 x 2	2 Stk	
		13	F28892	Bolt Ø 12 x 35	2 Stk	
		14	F25965	Cylindrical pin ISO2338 - Ø 6 m6 x 20	2 Stk	
		15	F41997	Lid MKR 150/220	1 Stk	
		16	112313	Seal Ø 78,5 x Ø 117,5 x 10,5	2 Stk	
		17	110777	Cover 462 x 160 x 20 x 3	1 Stk	
		18	112917	Seal 13 x 17 x 2000 raw	1 Stk	
		500	101127	Gear motor MKR 150/220	1 Stk	














## 500 - Gear motor - 101127

		<i>Position No.</i>	<i>Part No.</i>	<i>Designation</i>	<i>Quantity</i>	
		1	F26009	Disc Ø 11 x 20 x 20 x 4	4 Stk	
		2	F26379	Spring lock washer DIN127 B 10	4 Stk	
		3	F25962	Cylinder head screw DIN912 M10 x 30	4 Stk	
		500	112079	Gear motor STSG 027-04/000	1 Stk	

## 5 - Tumbling system - F42079







## 5 - Tumbling system - F42079








		<i>Position No.</i>	<i>Part No.</i>	<i>Designation</i>	<i>Quantity</i>	
		1	101126	Gear motor MKR 150/220	1 Stk	
		2	F42080	Tumbling arm MKR 220/ MPR 220	1 Stk	
		3	F41637	Ring MKR 130/150/200/220	1 Stk	
		4	F41565	Plug MKR 130/150/200/220	1 Stk	

## 1 - Gear motor - 101126



		<i>Position No.</i>	<i>Part No.</i>	<i>Designation</i>	<i>Quantity</i>	
		1	F20202	Washer DIN125 A 13	4 Stk	
		2	F20210	Spring lock washer DIN127 B 12	4 Stk	
		3	F20230	Hexagonal bolt DIN933 M12 x 40	3 Stk	
		4	108347	Hexagonal bolt DIN933 M12 x 35	1 Stk	
		5	F21129	Bolt Ø 20 x 50	1 Stk	
		6	F24724	Radial shaft seal Ø 50 x Ø 72 x 7	2 Stk	
		7	F24709	Seal Ø 180 x Ø 250 x 2	1 Stk	
		500	F28434	Gear motor SK9022VF-100L/40	1 Stk	
		503	104152	Cable gland PERFECT-KV-EMV M20x1.5	1 Stk	
		504	F29058	Cable gland M 20 x 1.5	1 Stk	
		505	F27324	Cable end sleeve 1,5 mm² black	3 Stk	

		<i>Position No.</i>	<i>Part No.</i>	<i>Designation</i>	<i>Quantity</i>	
		506	F27686	Crimp type socket 620/4, red isolated	1 Stk	
		507	F27645	Shrink hose HIS - 3/8", black	1 mm	





## 2 - Tumbling arm - F42080

		<i>Position No.</i>	<i>Part No.</i>	<i>Designation</i>	<i>Quantity</i>	
		1	101121	Tumbling arm MKR 220	1 Stk	
		2	F21116	Bushing Ø 42,3 x Ø 52 x 70	1 Stk	
		3	F28879	Scraper 872 x 380 x 4,2	1 Stk	

## 1 - Tumbling arm - 101121





		<i>Position No.</i>	<i>Part No.</i>	<i>Designation</i>	<i>Quantity</i>	
		3	F21117	Pin Ø 9.5 x 12	12 Stk	

## 3 - Ring - F41637









		<i>Position No.</i>	<i>Part No.</i>	<i>Designation</i>	<i>Quantity</i>	
		1	F25858	Ring Ø 42,1 x Ø 75 x 22,5	1 Stk	
		2	F27109	Seal Ø 56 x Ø 72 x 8	1 Stk	



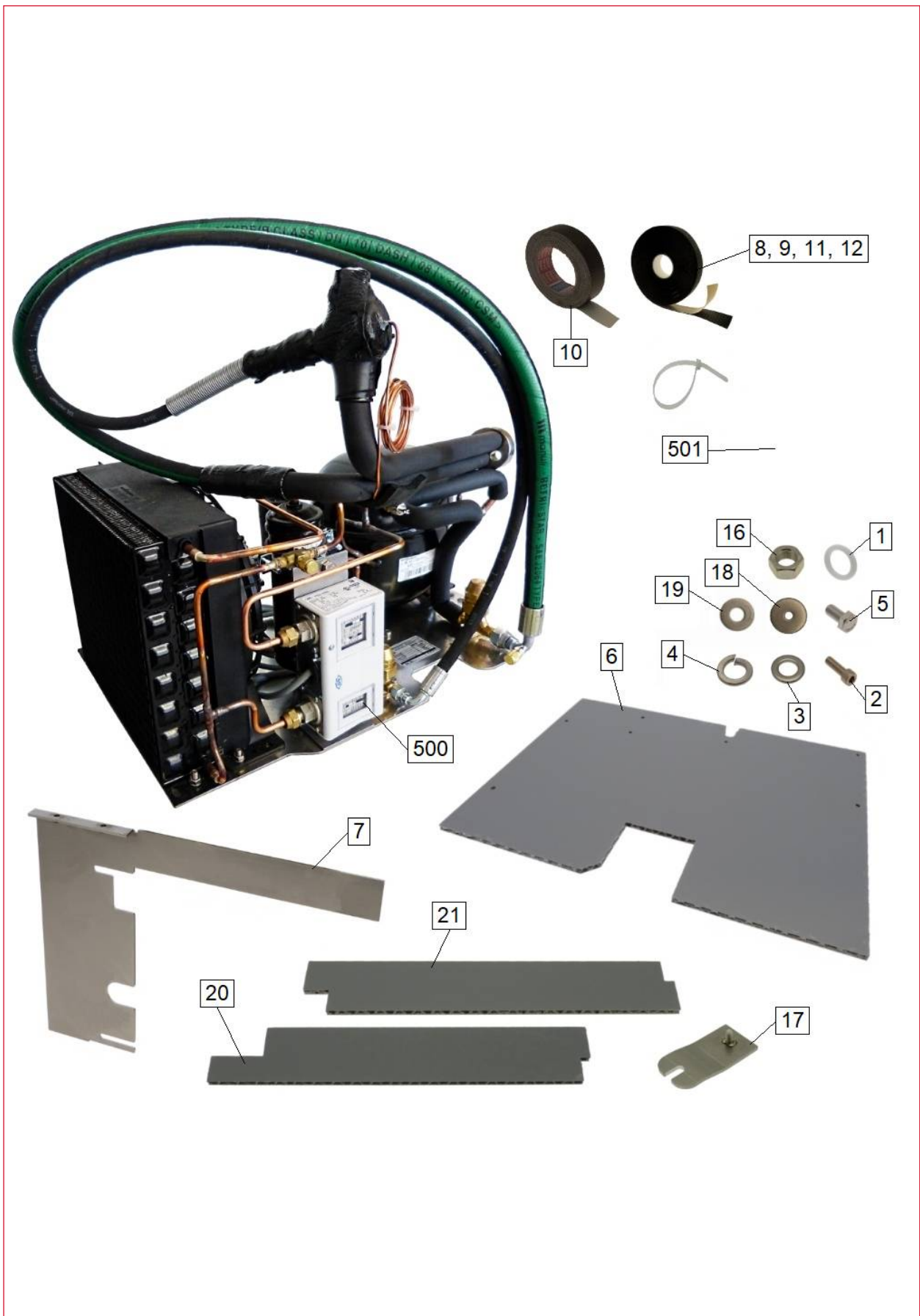
## 4 - Plug - F41565

		<i>Position No.</i>	<i>Part No.</i>	<i>Designation</i>	<i>Quantity</i>	
		1	F27586	Plug Ø 75 x 65	1 Stk	
		2	F27842	O-ring Ø 25 x 3,5	2 Stk	

## 6 - Gear guard - 110808

		<i>Position No.</i>	<i>Part No.</i>	<i>Designation</i>	<i>Quantity</i>	
		1	110782	Gear guard MPR 150/220	1 Stk	
		2	110807	Housing MPR 150/220	1 Stk	
		3	107973	Pin Ø 25 x 29	2 Stk	
		4	F25869	Cylinder head screw DIN912 M 8 x 16	2 Stk	

## 7 - Cooling system - 110794









## 7 - Cooling system - 110794

		<i>Position No.</i>	<i>Part No.</i>	<i>Designation</i>	<i>Quantity</i>	
		1	F21029	O-ring Ø 16 x 3,5	2 Stk	
		2	F21756	Cylinder head screw DIN912 M12 x 35	2 Stk	
		3	F22888	Washer DIN125 A 8,4	1 Stk	
		4	F21260	Spring lock washer DIN127 B 8	2 Stk	
		5	F25910	Hexagonal bolt DIN933 M 5 x 25	6 Stk	
		6	110988	Plate 586 x 430 x 10	1 Stk	
		7	112261	Bracket MPR 150/220	1 Stk	
		8	F144446	Seal 50 mm Armaflex	1 mm	
		9	F144446	Seal 50 mm Armaflex	1 mm	
		10	F10212	Fabric tape 30 mm black	2 mm	
		11	F144446	Seal 50 mm Armaflex	1 mm	

		<i>Position No.</i>	<i>Part No.</i>	<i>Designation</i>	<i>Quantity</i>	
		12	F144446	Seal 50 mm Armaflex	1 mm	
		15	F20313	Cable tie TYB 25 m	1 Stk	
		16	F20259	Hexagonal nut DIN934 M 8	2 Stk	
		17	111020	Bracket MPR 150/220	1 Stk	
		18	F22116	Disc Ø 6,5 x Ø 30 x 3	6 Stk	
		19	F26600	Disc Ø 8,5 x Ø 20 x 2	1 Stk	
		20	110912	Plate 438 x 75 x 10	1 Stk	
		21	110987	Plate 438 x 75 x 10	1 Stk	
		500	F28133	Cooling unit MP 12TB, 50Hz	1 Stk	

## 500 - Cooling unit - F28133

		<i>Position No.</i>	<i>Part No.</i>	<i>Designation</i>	<i>Quantity</i>	
		1	100652	Cooling flange MKR 150/220	1 Stk	
		2	F28807	Housing MKR 150/220	1 Stk	
		3	F28808	Bracket 182 x 65 x 42,5 x 2,5	1 Stk	






## 8 - Vacuum system - 110795et

















## 8 - Vacuum system - 110795et

		<i>Position No.</i>	<i>Part No.</i>	<i>Designation</i>	<i>Quantity</i>	
		1	107993	Container Ø 120 x 130,5	1 Stk	
		2	107354	Nut M100 x 2 x Ø 145 x 6	1 Stk	
		3	105691	Double nipple GE12LR1/271X	2 Stk	
		4	108639	Flap MGR 400	1 Stk	
		5	107356	Pin Ø 6 x 30	1 Stk	
		6	105561	Hose MKR 150/220	1 Stk	
		7	105562	Hose MKR 300/600	1 Stk	
		8	105538	Elbow connector XEUKO-12L	2 Stk	
		9	108640	Air filter MGR 400	1 Stk	
		10	108142	Bracket 63,5 x 46 x 2,5	1 Stk	
		11	114420	Stud screw DIN835 M 6 x 40	4 Stk	



		<i>Position No.</i>	<i>Part No.</i>	<i>Designation</i>	<i>Quantity</i>	
		12	F22116	Disc Ø 6,5 x Ø 30 x 3	12 Stk	
		13	114244	Disc d 6 x d 25 x 8	8 Stk	
		14	112232	Vacuum pump oil food safe	0,350 ltr	
		15	F20203	Hexagonal nut DIN934 M 6	4 Stk	
		16	109297	Disc d 20,5 x d 30,5 x 4	2 Stk	
		17	F250798	Hexagonal nut DIN985 M 6	4 Stk	
		500	106223	Vacuum pump KC 0010 E	1 Stk	

## 4 - Flap - 108639

		<i>Position No.</i>	<i>Part No.</i>	<i>Designation</i>	<i>Quantity</i>	
		1	107349	Housing 90 x 37,5 x 18	1 Stk	
		2	107352	Flap 90 x 90 x 6	1 Stk	
		3	F20598	Countersunk bolt DIN7991 M 5 x 12	2 Stk	
		4	110938	Seal 8 x 6 x 260	1 Stk	
		5	107353	Weight Ø 40 x 10	1 Stk	
		6	F25984	Cylinder head screw DIN84 M 5 x 12	1 Stk	
		7	F21045	Washer DIN125 A 5,3	1 Stk	

## 9 - Air filter - 108640



		<i>Position No.</i>	<i>Part No.</i>	<i>Designation</i>	<i>Quantity</i>	
	1	F25931	Air filter housing Ø 98x86 filter C 75	1 Stk		
	2	107384	Double nipple G1/2 - G3/4	1 Stk		
	3	107450	Double nipple G1/2 - G3/4	1 Stk		
	4	F255709	Screw joint 1/2"	1 Stk		
	5	105537	Screw joint EGKO-12LR1.2WD	2 Stk		
	6	105539	T-piece XETKO-12L	2 Stk		
	7	105540	Screw joint MAV 12 LR OMD71	1 Stk		
	8	F27520	Silencer 1/2 inch	1 Stk		
	9	109297	Disc d 20,5 x d 30,5 x 4	2 Stk		
	500	F25937	2/2 way valve 230 V AWS-218/10 MG12E	2 Stk		
	501	F20914	Pressure transmitter 8472.xx.5717.05.19.61.01	1 Stk		

## 9 - Switch box - 110798

		<i>Position No.</i>	<i>Part No.</i>	<i>Designation</i>	<i>Quantity</i>	
		3	F28732	Lock washer DIN6797-A ø 6,4	3 Stk	
		4	F20258	Washer DIN125 A 6,4	3 Stk	
		5	F24031	Spring lock washer DIN127 B 6	3 Stk	
		6	F20203	Hexagonal nut DIN934 M 6	3 Stk	
		7	F26600	Disc ø 8,5 x ø 20 x 2	3 Stk	
		8	F21260	Spring lock washer DIN127 B 8	3 Stk	
		9	F20259	Hexagonal nut DIN934 M 8	3 Stk	
		11	F28731	Cable duct 80 x 30 x 2000	3 mm	
		12	F28731	Cable duct 80 x 30 x 2000	2 mm	
		14	F27772	Cable duct 60 x 20 x 2000	1 mm	
		500	112112	Components MPR 150/220	1 Stk	

		Position No.	Part No.	Designation	Quantity	
	501	F27066	Fuse terminal block 6,4 x 32 mm	9 Stk		
	502	F27067	Side plate black FEM 13U	1 Stk		
	503	104292	Grounding fuse terminal 5,0 x 20 mm / 6,3 x 32 mm	2 Stk		
	504	104293	Fuse disconnect lever THSI 5x20 GL250, 250V 6,3A	2 Stk		
	505	110566	Programmed FC FR-D740-022 SC-EC	1 Stk		
	506	102189	Resistor 10 kOhm / 0,6W 1%	1 Stk		
	507	F247636	Resistor 120 Ohm / 1 W	1 Stk		
	508	F20313	Cable tie TYB 25 m	40 Stk		
	509	F25823	Cable tie 23 m	40 Stk		
	510	F148541	Sticker BMK02	5 Stk		
	511	F27083	Diode 1N5401	5 Stk		
	513	112742	Jumper link 095.18 blue	5 Stk		

		<i>Position No.</i>	<i>Part No.</i>	<i>Designation</i>	<i>Quantity</i>	
		514	111692	BUS cable Mini IPC - Plat. K1 MPR 150 / 220	1 Stk	
		515	F21625	Shrink hose HIS - 3/64", black	5 mm	
		516	F20712	Shrink hose HIS - 3/16", black	5 mm	
		517	F27357	Cable end sleeve 1,0 mm <sup>2</sup> red	5 Stk	
		518	F27734	Cable end sleeve 2,5 mm <sup>2</sup> blue	5 Stk	
		519	F26390	Litz 1.0mm <sup>2</sup> H05V-K 1,0 mm <sup>2</sup> GN/YE	1 mm	
		520	F29136	Crimp type socket 620/6, red isolated	5 Stk	
		521	102242	Clamping bracket 4 - 13.5mm	1 Stk	
		522	115089	Litz 2,5 mm <sup>2</sup> H07V-K 2,5 mm <sup>2</sup> pink	1 mm	
		523	F27328	Litz 2.5mm <sup>2</sup> H07V-K 2,5 mm <sup>2</sup> BUWH	1 mm	
		524	F27734	Cable end sleeve 2,5 mm <sup>2</sup> blue	4 Stk	
		525	105013	Fuse 10 AT 6,3 x 32 mm	9 Stk	

		<i>Position No.</i>	<i>Part No.</i>	<i>Designation</i>	<i>Quantity</i>	
		526	F27064	Fuse 3.15 AT 5,0 x 20 mm	4 Stk	

## 500 - Components - 112112

































## 500 - Components - 112112

		<i>Position No.</i>	<i>Part No.</i>	<i>Designation</i>	<i>Quantity</i>	
		500	110802	Multi-wire cable set MPR 150/220	1 Stk	
		501	106533	I/O board 16DI/16DO/2AI/2AO/PT100 I	1 Stk	
		502	112131	Terminal strip MGR 400/900/1500	1 Stk	
		503	F20911	Motor protect. relay 0.8 -1.2A LR 2-K0306	1 Stk	
		504	F20912	Motor protect. relay 1.2 -1.8A LR 2-K0307	2 Stk	
		505	F20916	Turn contactor LP2-K0910 BD3	2 Stk	
		506	112007	Phase sequence relay 70.61.8.400.0000	1 Stk	
		507	F27091	Power contactor 24VDC LP1 K0910 BD3	1 Stk	
		508	101590	Power contactor 24VDC LC1 D25 BD	1 Stk	
		509	F27618	Circuit board holder 20800032	1 Stk	
		510	111353	Power supply 230VAC/24VDC RS-75-24	1 Stk	











		<i>Position No.</i>	<i>Part No.</i>	<i>Designation</i>	<i>Quantity</i>	
	511	112466	Relay 1 CO / 24 VDC / 10A	7 Stk		
	512	108267	Ground wire I/O board	1 Stk		
	513	107760	Line filter 1,5 KW FFR-CSH-036-8A-RF1-LL	1 Stk		
	514	113797	Programmed mini IPC FIO-controller 113	1 Stk		
	515	106695	Emergency stop safety relay SCR 4-W22-3.5-D	1 Stk		
	516	106925	Aux. switch block LA1 KN22	4 Stk		
	517	110908	Auxiliary contactor 24VDC CAD32 BD	2 Stk		
	518	111628	Power supply 230VAC/5VDC/12VDC RT-65B	1 Stk		

## 500 - Multi-wire cable set - 110802












		<i>Position No.</i>	<i>Part No.</i>	<i>Designation</i>	<i>Quantity</i>	
	500	F27333	Litz 1.5mm <sup>2</sup> H07V-K 1,5 mm <sup>2</sup> GN/YE	1610 mm		
	501	F27733	Litz 1.0mm <sup>2</sup> H05V-K 1,0 mm <sup>2</sup> LBU	1060 mm		
	502	F21592	Litz 2.5mm <sup>2</sup> H07V-K 2,5 mm <sup>2</sup> BK	7200 mm		
	503	F27332	Litz 1.5mm <sup>2</sup> H07V-K 1,5 mm <sup>2</sup> BK	10270 mm		
	504	F27356	Litz 1.0mm <sup>2</sup> H05V-K 1,0 mm <sup>2</sup> BUWH	18140 mm		
	505	F27327	Litz 1.0mm <sup>2</sup> H05V-K 1,0 mm <sup>2</sup> DBU	48980 mm		
	506	F28016	Litz 1.0mm <sup>2</sup> H05V-K 1,0 mm <sup>2</sup> OG	6950 mm		
	507	F27357	Cable end sleeve 1,0 mm <sup>2</sup> red	160 Stk		
	508	F20706	Twin cable end sleeve 2 x 1,00 mm <sup>2</sup> red	46 Stk		
	509	F27324	Cable end sleeve 1,5 mm <sup>2</sup> black	48 Stk		
	510	F20707	Twin cable end sleeve 2 x 1,5 mm <sup>2</sup> black	10 Stk		

		<i>Position No.</i>	<i>Part No.</i>	<i>Designation</i>	<i>Quantity</i>	
		511	F27734	Cable end sleeve 2,5 mm <sup>2</sup> blue	16 Stk	
		512	F27489	Twin cable end sleeve 2 x 2,5 mm <sup>2</sup> blue	12 Stk	
		513	F27485	Litz 1.0mm <sup>2</sup> H05V-K 1,0 mm <sup>2</sup> BΠ	5570 mm	
		514	105441	Litz 1.0 mm <sup>2</sup> H05V-K 1,0 mm <sup>2</sup> pink	1000 mm	
		515	F27554	Litz 1.5mm <sup>2</sup> H07V-K 1,5 mm <sup>2</sup> LBU	390 mm	





## 514 - BUS cable Mini IPC - Plat. K1 - 111692

		<i>Position No.</i>	<i>Part No.</i>	<i>Designation</i>	<i>Quantity</i>	
	500	104082	BUS cable CAN bus Unitronik BUS CAN UL/CSA	1200 mm		
	501	F27789	Cable end sleeve 0,25 mm <sup>2</sup> yellow	4 Stk		
	502	F28135-W	Labeling cable W	40 mm		
	503	F28135-2	Labeling cable 2	40 mm		
	504	F28135-9	Labeling cable 9	40 mm		

## 10 - Side cap - 111044

		<i>Position No.</i>	<i>Part No.</i>	<i>Designation</i>	<i>Quantity</i>	
		1	111043	Side cap 616 x 1004 x 13 x 1,5	1 Stk	
		2	108678	Bolt lock MGR 400/900	5 Stk	
		3	111511	Seal 18 x 17 x 50 x 50 corner	4 Stk	
		4	110852	Seal 18 x 17	1090 mm	
		5	110852	Seal 18 x 17	1880 mm	









## 2 - Bolt lock - 108678

		<i>Position No.</i>	<i>Part No.</i>	<i>Designation</i>	<i>Quantity</i>	
		1	105566	Bolt lock E5-6-003-UU1	1 Stk	
		2	108677	Bolt E5 6008	1 Stk	

## 11 - Tablet bracket - 114534





		<i>Position No.</i>	<i>Part No.</i>	<i>Designation</i>	<i>Quantity</i>	
		1	114533	Tablet bracket MPR 150/220	1 Stk	
		2	111945	Solenoid Ø 23 x Ø 40 x 6	2 Stk	
		3	111921	Slide bushing A500SM-1416-16	1 Stk	
		4	111923	Bushing Ø 14,1 x Ø 34 x 4	1 Stk	
		5	111922	Bolt Ø 25 x 41	1 Stk	
		6	111918	Bushing Ø 20 x 12	1 Stk	
		7	F22961	Disc spring Ø 20,6 x Ø 34,8 x 2	1 Stk	
		8	111915	Housing 50 x 50 x 53	1 Stk	
		9	111041	Lid Ø 46 x 6	2 Stk	
		10	F26600	Disc Ø 8,5 x Ø 20 x 2	4 Stk	
		11	F21281	Hexagonal bolt DIN933 M 8 x 16	4 Stk	









		<i>Position No.</i>	<i>Part No.</i>	<i>Designation</i>	<i>Quantity</i>	
		12	F23360	Threaded pin DIN916 M 6 x 20	1 Stk	
		13	111789	Brake disc Ø 16,2 x Ø 50 x 1	1 Stk	
		500	114837	Charging cable for Samsung Galaxy tablet PC	1 Stk	
		501	115087	Extension cable tablet PC MPR 150/220	1 Stk	

## 1 - Tablet bracket - 114533











		<i>Position No.</i>	<i>Part No.</i>	<i>Designation</i>	<i>Quantity</i>	
		1	114531	Plate MPR 150/220	1 Stk	
		2	114931	Housing 206 x 296 x 30	1 Stk	
		3	114527	Lid 206 x 296 x 16,1 x 1,5	1 Stk	
		4	F250798	Hexagonal nut DIN985 M 6	4 Stk	
		5	114930	Plate / sheet 277 x 189 x 1,5	1 Stk	
		6	114525	Felt pad d 20 x 3,5	4 Stk	
		7	114524	Protection film 289 x 199 x 0,3	1 Stk	
		8	F255839	Thread insert M 5 x M 8 x1, x 10	4 Stk	
		9	114529	Bolt d 14 x 17	4 Stk	
		10	F245615	Mushroom-shaped button K3025 308 M8 VA	1 Stk	
		11	F20600	Cylinder head screw DIN912 M 4 x 12	6 Stk	

		<i>Position No.</i>	<i>Part No.</i>	<i>Designation</i>	<i>Quantity</i>	
		12	F250796	Hexagonal nut DIN985 m 4	6 Stk	
		13	F25913	Hexagonal nut DIN934 m 4	6 Stk	












## 12 - Switch - 110999










		<i>Position No.</i>	<i>Part No.</i>	<i>Designation</i>	<i>Quantity</i>	
		1	111002	Housing Ø 25 x 25	1 Stk	
		2	111001	Pin Ø 8 x 32	5 Stk	
		3	111003	Pin Ø 8 x 35,5	1 Stk	

## 15 - Mounting aid scraper - 113683











		<i>Position No.</i>	<i>Part No.</i>	<i>Designation</i>	<i>Quantity</i>	
		1	113679	Head d 35 x 45	1 Stk	
		2	113680	Cylindrical pin ISO 2338 - 12 x 100	1 Stk	
		3	113681	Ram d 24 x 40	1 Stk	
		4	113682	Pin d 12 x 32	1 Stk	
		5	F248041	Pressure spring d0.8 x De8.8 x 32	1 Stk	

## 500 - Cable set - 110820

		<i>Position No.</i>	<i>Part No.</i>	<i>Designation</i>	<i>Quantity</i>	
		500	111676	Cable supply MPR 150 / 220	1 Stk	
		501	111677	Cable supply MPR 150/220	1 Stk	
		502	111678	Cable blending tumbling drive MPR 150/220	1 Stk	
		504	111679	Cable for thermo switches blen MPR 150/220	1 Stk	
		505	111680	Cable cover drive MPR 150/220	1 Stk	
		506	111681	Cable brake recitfier drum swi MPR 150 / 220	1 Stk	
		507	111682	Cable drum swivelling MPR 150 / 220	1 Stk	
		508	111683	Cable vacuum pump MPR 150/220	1 Stk	
		509	111684	Cable vacuum valve MPR 150/220	1 Stk	
		510	111693	Cable vent valve MPR 150/220	1 Stk	
		511	111685	Cable Signal-horn MPR 150 / 220	1 Stk	









		<i>Position No.</i>	<i>Part No.</i>	<i>Designation</i>	<i>Quantity</i>	
		512	111686	Cable emergency stop switch MPR 150/220	1 Stk	
		513	111688	Cable limit switch cover MPR 150/220	1 Stk	
		514	111689	Cable limit switch B1 MPR 150/220	1 Stk	
		515	111690	Cable for limit switch B2 MPR 150/220	1 Stk	
		516	111691	Cable pressure transmitter MPR 150/220	1 Stk	
		517	111687	Cable switch Q10 MPR 150/220	1 Stk	
		519	112780	Ground wire MPR 150/220	1 Stk	
		520	106718	Litz 1.5mm <sup>2</sup> H07V-K 1,5 mm <sup>2</sup> BK 140mm	2 Stk	
		522	113662	Extension cable PT 100 MPR 150/220	1 Stk	

## 500 - Cable supply - 111676











		<i>Position No.</i>	<i>Part No.</i>	<i>Designation</i>	<i>Quantity</i>	
	500	F27555	Cable H07RN-F 5G2.5	5000 mm		
	501	F27734	Cable end sleeve 2,5 mm² blue	5 Stk		
	502	f26441	CEE plug 16A-6h 5-pin 400V	1 Stk		
	503	F28135-W	Labeling cable W	60 mm		
	504	F28135-1	Labeling cable 1	40 mm		











## 501 - Cable supply - 111677

		<i>Position No.</i>	<i>Part No.</i>	<i>Designation</i>	<i>Quantity</i>	
		500	F27555	Cable H07RN-F 5G2.5	1700 mm	
		501	F27734	Cable end sleeve 2,5 mm <sup>2</sup> blue	5 Stk	
		502	F28135-W	Labeling cable W	60 mm	
		503	F28135-2	Labeling cable 2	60 mm	









## 502 - Cable blending tumbling drive - 111678

		<i>Position No.</i>	<i>Part No.</i>	<i>Designation</i>	<i>Quantity</i>	
		500	F27759	Cable ÖCZY-J 4x1.5 mm <sup>2</sup>	4000 mm	
		501	F27686	Crimp type socket 620/4, red isolated	4 Stk	
		502	F28135-W	Labeling cable W	40 mm	
		503	F28135-3	Labeling cable 3	40 mm	
		504	F27645	Shrink hose HIS - 3/8", black	80 mm	













## 504 - Cable for thermo switches blen - 111679

		<i>Position No.</i>	<i>Part No.</i>	<i>Designation</i>	<i>Quantity</i>	
		500	F20694	Cable ÖZ-0 2 x 0.5 mm <sup>2</sup>	4000 mm	
		501	F27686	Crimp type socket 620/4, red isolated	2 Stk	
		502	F28135-W	Labeling cable W	40 mm	
		503	F28135-4	Labeling cable 4	40 mm	

## 505 - Cable cover drive - 111680

		<i>Position No.</i>	<i>Part No.</i>	<i>Designation</i>	<i>Quantity</i>	
		500	F20698	Cable ÖZ-J 4 x 1.5 mm <sup>2</sup>	4300 mm	
		501	F27324	Cable end sleeve 1,5 mm <sup>2</sup> black	4 Stk	
		502	F28135-W	Labeling cable W	40 mm	
		503	F28135-9	Labeling cable 9	40 mm	

## 506 - Cable brake recitfier drum swi - 111681

		<i>Position No.</i>	<i>Part No.</i>	<i>Designation</i>	<i>Quantity</i>	
	500	F27483	Cable ÖZ-J 3 x 1.5 mm <sup>2</sup>	2100 mm		
	501	F27324	Cable end sleeve 1,5 mm <sup>2</sup> black	5 Stk		
	502	F27687	Crimp type socket 620/5, red isolated	1 Stk		
	503	F28135-W	Labeling cable W	40 mm		
	504	F28135-1	Labeling cable 1	40 mm		
	505	F28135-0	Labeling cable 0	40 mm		













## 507 - Cable drum swivelling - 111682

		<i>Position No.</i>	<i>Part No.</i>	<i>Designation</i>	<i>Quantity</i>	
	500	F20698	Cable ÖZ-J 4 x 1.5 mm <sup>2</sup>	2100 mm		
	501	F27324	Cable end sleeve 1,5 mm <sup>2</sup> black	4 Stk		
	502	F27686	Crimp type socket 620/4, red isolated	3 Stk		
	503	F28135-W	Labeling cable W	40 mm		
	504	F28135-1	Labeling cable 1	40 mm		
	505	F28135-1	Labeling cable 1	40 mm		
	506	F27687	Crimp type socket 620/5, red isolated	1 Stk		

## 508 - Cable vacuum pump - 111683

		<i>Position No.</i>	<i>Part No.</i>	<i>Designation</i>	<i>Quantity</i>	
		500	F20698	Cable ÖZ-J 4 x 1.5 mm <sup>2</sup>	1800 mm	
		501	F27686	Crimp type socket 620/4, red isolated	3 Stk	
		502	F27324	Cable end sleeve 1,5 mm <sup>2</sup> black	4 Stk	
		503	F28135-W	Labeling cable W	40 mm	
		504	F28135-1	Labeling cable 1	40 mm	
		505	F28135-2	Labeling cable 2	40 mm	
		506	F27687	Crimp type socket 620/5, red isolated	1 Stk	

## 509 - Cable vacuum valve - 111684

		<i>Position No.</i>	<i>Part No.</i>	<i>Designation</i>	<i>Quantity</i>	
		500	F27483	Cable ÖZ-J 3 x 1.5 mm <sup>2</sup>	2000 mm	
		501	F27324	Cable end sleeve 1,5 mm <sup>2</sup> black	6 Stk	
		502	F28135-W	Labeling cable W	40 mm	
		503	F28135-1	Labeling cable 1	40 mm	
		504	F28135-4	Labeling cable 4	40 mm	
		505	F23309	Valve connector M20, configuration A	1 Stk	



## 510 - Cable vent valve - 111693

		<i>Position No.</i>	<i>Part No.</i>	<i>Designation</i>	<i>Quantity</i>	
	500	F27483	Cable ÖZ-J 3 x 1.5 mm <sup>2</sup>	2000 mm		
	501	F27324	Cable end sleeve 1,5 mm <sup>2</sup> black	3 Stk		
	502	F28135-W	Labeling cable W	40 mm		
	503	F28135-1	Labeling cable 1	40 mm		
	504	F28135-5	Labeling cable 5	40 mm		
	505	F23309	Valve connector M20, configuration A	1 Stk		
	506	F29130	Cable end sleeve 1,5 mm <sup>2</sup> naked	3 Stk		











## 511 - Cable Signal-horn - 111685

		<i>Position No.</i>	<i>Part No.</i>	<i>Designation</i>	<i>Quantity</i>	
		500	F23523	Cable ÖZ-0 2 x 1.0 mm <sup>2</sup>	1800 mm	
		501	F27357	Cable end sleeve 1,0 mm <sup>2</sup> red	4 Stk	
		502	F28135-W	Labeling cable W	40 mm	
		503	F28135-1	Labeling cable 1	40 mm	
		504	F28135-6	Labeling cable 6	40 mm	
		505	F144452	Squash connector FTS-1 red isolated	2 Stk	
		506	108095	Horn PSW.66024-107M.P	1 Stk	

## 512 - Cable emergency stop switch - 111686

		<i>Position No.</i>	<i>Part No.</i>	<i>Designation</i>	<i>Quantity</i>	
		500	F28791	Cable ÖZ-0 4x0.75 mm <sup>2</sup>	2700 mm	
		501	F20709	Cable end sleeve 0,75 mm <sup>2</sup> grey	4 Stk	
		502	F20708	Cable end sleeve 0,75 mm <sup>2</sup> naked	4 Stk	
		503	F28135-W	Labeling cable W	40 mm	
		504	F28135-1	Labeling cable 1	40 mm	
		505	F28135-7	Labeling cable 7	40 mm	
		506	F23889	Shrink hose HIS - 3/4", black	100 mm	

## 513 - Cable limit switch cover - 111688

		<i>Position No.</i>	<i>Part No.</i>	<i>Designation</i>	<i>Quantity</i>	
	500	F28102	Cable ÖZ-J 10x0.5 mm <sup>2</sup>	4300 mm		
	501	F27358	Cable end sleeve 0,5 mm <sup>2</sup> white	10 Stk		
	502	F28135-W	Labeling cable W	60 mm		
	503	F28135-1	Labeling cable 1	40 mm		
	504	F28135-8	Labeling cable 8	40 mm		

## 514 - Cable limit switch B1 - 111689

		<i>Position No.</i>	<i>Part No.</i>	<i>Designation</i>	<i>Quantity</i>	
	500	F28791	Cable ÖZ-O 4x0.75 mm <sup>2</sup>	2100 mm		
	501	F20709	Cable end sleeve 0,75 mm <sup>2</sup> grey	8 Stk		
	502	F28135-W	Labeling cable W	40 mm		
	503	F28135-1	Labeling cable 1	40 mm		
	504	F28135-9	Labeling cable 9	40 mm		
	505	F20932	Limit switch 188-A2Z right	1 Stk		
	506	F29058	Cable gland M 20 x 1.5	1 Stk		


## 515 - Cable for limit switch B2 - 111690

		<i>Position No.</i>	<i>Part No.</i>	<i>Designation</i>	<i>Quantity</i>	
	500	F28791	Cable ÖZ-0 4x0.75 mm <sup>2</sup>	2100 mm		
	501	F20709	Cable end sleeve 0,75 mm <sup>2</sup> grey	8 Stk		
	502	F28135-W	Labeling cable W	40 mm		
	503	F28135-2	Labeling cable 2	40 mm		
	504	F28135-0	Labeling cable 0	40 mm		
	505	F22285	Limit switch 188-A2Z left	1 Stk		
	506	F29058	Cable gland M 20 x 1.5	1 Stk		

## 516 - Cable pressure transmitter - 111691







		<i>Position No.</i>	<i>Part No.</i>	<i>Designation</i>	<i>Quantity</i>	
	500	104173	Cable ÖLFLEX Classic-115CY 3G0.5mm <sup>2</sup>	2100 mm		
	501	F27358	Cable end sleeve 0,5 mm <sup>2</sup> white	3 Stk		
	502	F28754	Cable end sleeve 0,5 -1,0 mm <sup>2</sup> naked	3 Stk		
	503	F28135-W	Labeling cable W	40 mm		
	504	F28135-2	Labeling cable 2	40 mm		
	505	F28135-6	Labeling cable 6	40 mm		
	506	F23309	Valve connector M20, configuration A	1 Stk		
	507	F20714	Shrink hose HIS - 1/4", black	20 mm		
	508	F27645	Shrink hose HIS - 3/8", black	50 mm		

## 517 - Cable switch Q10 - 111687







		<i>Position No.</i>	<i>Part No.</i>	<i>Designation</i>	<i>Quantity</i>	
	500	F25303	Cable ÖZ-J 7x1.0 mm <sup>2</sup>	2700 mm		
	501	F27357	Cable end sleeve 1,0 mm <sup>2</sup> red	14 Stk		
	502	F28135-W	Labeling cable W	40 mm		
	503	F28135-2	Labeling cable 2	40 mm		
	504	F28135-8	Labeling cable 8	40 mm		
	505	F27330	Litz 1.0mm <sup>2</sup> H05V-K 1,0 mm <sup>2</sup> BK	190 mm		
	506	F20706	Twin cable end sleeve 2 x 1,00 mm <sup>2</sup> red	2 Stk		



## 519 - Ground wire - 112780

		<i>Position No.</i>	<i>Part No.</i>	<i>Designation</i>	<i>Quantity</i>	
		500	F27323	Litz 2.5mm <sup>2</sup> H07V-K 2,5 mm <sup>2</sup> GN/YE	250 mm	
		501	F27683	Crimp type socket 630/6, blue isolated	1 Stk	
		502	F27734	Cable end sleeve 2,5 mm <sup>2</sup> blue	1 Stk	







## 520 - Litz 1.5mm<sup>2</sup> - 106718

		<i>Position No.</i>	<i>Part No.</i>	<i>Designation</i>	<i>Quantity</i>	
		500	F27332	Litz 1.5mm <sup>2</sup> H07V-K 1,5 mm <sup>2</sup> BK	140 mm	
		501	F27324	Cable end sleeve 1,5 mm <sup>2</sup> black	1 Stk	
		502	F27686	Crimp type socket 620/4, red isolated	1 Stk	

## 522 - Extension cable PT 100 - 113662







		<i>Position No.</i>	<i>Part No.</i>	<i>Designation</i>	<i>Quantity</i>	
		500	F23523	Cable ÖZ-0 2 x 1.0 mm <sup>2</sup>	1500 mm	
		501	F27357	Cable end sleeve 1,0 mm <sup>2</sup> red	2 Stk	
		502	F144452	Squash connector FTS-1 red isolated	2 Stk	
		503	F27645	Shrink hose HIS - 3/8", black	150 mm	
		504	F28135-W	Labeling cable W	40 mm	
		505	F28135-2	Labeling cable 2	40 mm	
		506	F28135-7	Labeling cable 7	40 mm	

## 501 - Power supply - 114639

		<i>Position No.</i>	<i>Part No.</i>	<i>Designation</i>	<i>Quantity</i>	
		502	114562	Cable gland M 25 x 1,5 / brass	1 Stk	
		503	F29060	Hexagonal nut M 25 x 1,5	1 Stk	
		504	108700	Main switch 32A V3N 05/HS-HF25H-BEH-RG	1 Stk	

## 502 - Additional materials - 112080

		<i>Position No.</i>	<i>Part No.</i>	<i>Designation</i>	<i>Quantity</i>	
		1	112370	Cylinder head screw DIN912 M 4 x 10	4 Stk	
		2	F27701	Cable duct 32 x 18 x 2000	1 mm	
		3	103588	Cable duct 80 x 45 x 2000	1 mm	
		502	115149	Cam switch V2N-A2XHF-X-XX	1 Stk	
		503	107083	Push button - emergency stop CE4T-10R-02	1 Stk	
		504	F251206	Sticker: Emergency Stop Emergency Stop	1 Stk	
		505	115114	WLAN-Router UMTS-Router MX510	1 Stk	
		506	114823	Programmed Galaxy Tab A 10.1" / 25,54 cm	1 Stk	
		507	112186	Network cable / Patch cable RJ45	1 Stk	
		508	F27667	Cable tie 244 m	50 Stk	
		509	F25823	Cable tie 23 m	10 Stk	

		<i>Position No.</i>	<i>Part No.</i>	<i>Designation</i>	<i>Quantity</i>	
		510	F27053	Terminal - 3x, grey 2.5mm²	2 Stk	
		511	F28338	Side plate grey FED 3E	1 Stk	
		512	F28278	End terminal BNK - BADL	2 Stk	
		513	F28342	Beschriftung BZT - 1	1 Stk	
		514	F28481	Beschriftung BZK - 1	0 Stk	
		515	F28518	Beschriftung 1 - 8	0 Stk	
		516	107801	Cable end sleeve 0,14 mm² grey	4 Stk	
		517	F28275	Cross connector unisulated BJD 6	2 Stk	

# RÜHLE



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