



		MP-400	MP-500	MPO-500	MP-600	MP-700	MPO-700	MP-800
Benefits		Compact, low price, easy maintenance	Fast, sealed cover, outdoor capable	Mecanum drive, easy battery change	Reliable design, easy maintenance	Reliable design, very strong base	Omnidirectional, smooth motion	High payload, integration of big arms
Body	Length [mm]	590	814	986	686	786	741	1194
	Width [mm]	559	592	662	540	717	509	1074
	Height [mm]	411	361	409	602	411	348	877
	Weight [kg]	70	70	80	170	160	120	750
	Payload [kg]	up to 150	80	up to 150	200	300	400	500
	Number of castor wheels	4	1	0	3	4	0	1
	Number of drive wheels	2	2	4	2	2	4	2
	Drive wheel diameter [mm]	150x30	260x85	254x95	150x40	150x40	180x30	230x90
	Castor wheel diameter [mm]	75x55	160x40	-	100x40	100x40	-	125x90
Protection level	Rainproof / IP52	Rainproof / IP52	Rainproof / IP52	Indoor / IP40	Indoor / IP40	Indoor / IP40	Indoor / IP40	
Power supply	Battery type	AGM (50Ah)	AGM (50Ah)	AGM (50Ah)	AGM (100Ah)	AGM (100Ah)	AGM (28Ah) optional: Li-Ion (55Ah)	AGM (200Ah) opt.: Lead acid (240Ah)
	Platform main voltage [V]	24	24	24	48	48	48	48
	Charging Power	24V - 12A	24V - 12A	24V - 12A	48V - 12,5A	48V - 12,5A	48V - 12,5A	48V - 25A
	Duration of charging [h]	6	6	6	8	8	4	8
	Uptime [h]	10	10	5	12	12	5	12
Motion parameter	Motors	Brushless DC	Brushless DC	Brushless DC	Brushless DC	Brushless DC	Brushless DC	Brushless DC
	Number of motors	2	2	4	2	2	8	2
	Rated motor torque Nm	0,95	0,95	0,95	0,95	0,95	0,95	3,2
	Gear ratio	8:1	12:1	25:1	15:1	15:1	30:1	33:1
	Turning circle diameter [mm]	620	1100	990	680	900	830	2140
	Maximum speed [m/s]	1,5	1,5	0,8	1	1	0,9	0,5
	Estimated positioning acc. [mm]	±10	±10	±20	±10	±10	±10	±20
	Obstacle detection height [mm]	110	143	372	154	150	181	264
Theoretical thrust force [N]	200	175	750	380	380	1260	1320	
Electronics	Motor encoder resolution	4096	4096	4096	4096	4096	4096	4000
	Laser scanner	1	1	1, optional 2	1, optional 2	1, optional 2	1, optional 2	2
	Ultrasonic sensors	optional 6	optional 5	optional 8	optional 4	optional 4	contact Neobotix	contact Neobotix
	Computer type	Standard: Mini ITX, Intel Atom, 2 GB RAM, > 160 GB HDD Optional: Mini ITX, up to Intel i7, up to 8 GB RAM, HDD/SSD						
	Connectors	full front panel 1xCharging Connector	1xUSB, 1xRJ45, 1xVGA, 1xCharging Connector	1xUSB, 1xRJ45, 1xDVI, 1xCharging Connector	1xUSB, 1xRJ45, 1xVGA, 1xCharging Connector	full front panel 1xCharging Connector	full front panel 1xCharging Connector	customised access 1xCharging Connector
	Wireless communication	WiFi						
Software	Operation system	Linux by default, Windows on request						
	Control program	"Platform Ctrl" (proprietary) or ROS (open source)						
	Motion modes	Joystick, Software Joystick, Automatic						
	Control modes	Remote controlled (via graphical user interface, socket API or OPC UA), autonomous (scripted), mixed						