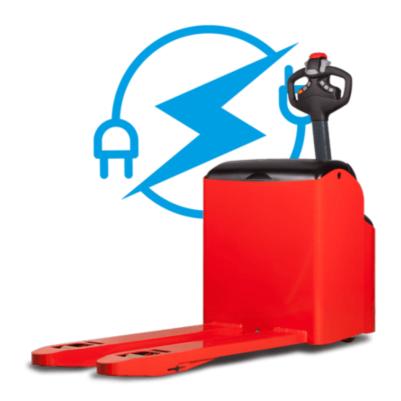
Technical sheet:

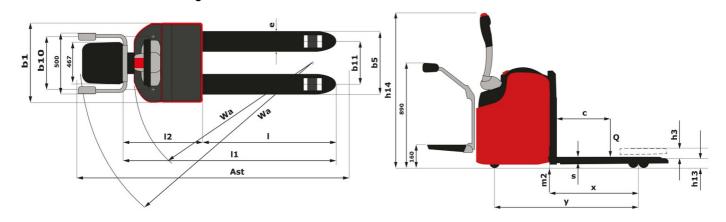
EP 20





Manufacturer Manufacturer Page		Technical characteristics		Metric
1.4 Operator type	1.1	Manufacturer		Manitou
1.4	1.2	Model Name		EP 20
1.5	1.3	Power source		Electrical
Max. capacity	1.4	Operator type		Pedestrian
1.6	1.5		Q	2000 kg
1.9 Wheelbase			C	¥
New	1.8	- ,	X	953 mm
Weight Service weight 482 kg 2.2 Weight on front astle (laden) / rear astle (Unladen) 337 kg / 1405 kg 338 Weight on front astle (Unladen) 338 kg / 146 kg 339 Weight on front astle (Unladen) / rear astle (Unladen) 337 kg / 146 kg 331 Tires type			V	
Service weight			,	
Weight on front axle (Inden) / rear axle (Inden) 1077 kg / 1405 kg 337 kg / 1455 kg 1405	2 1			482 kg
Weight on front axie (Unladen) / rear axie (Unladen) Say kg / 145 kg		•		
Winels				
Second S	2.5			337 kg / 143 kg
230 x 75 3.3 Dimensions of front wheels	0.1			Pandaga
A x (82 x 70) A d Additional wheels (dimensions) 2 x (100 x 40) 3.5 Number of front wheels / xear wheels 3x + 4 4 3x + 4				
3.4 Additional wheels (dimensions) 2 x (100 x 40) 3.5 Number of front wheels / rear wheels 3x + 4 3.6 Front wheel gauge b10 435 mm 3.7 Rear wheel gauge b11 366 mm Ummensions 4.15 Fork height in low position h13 85 mm 4.19 Overall length II 1739 mm 4.20 Length to face of forks 12 589 mm 4.21 Overall width b1 680 mm 4.22 Fork section / width / length \$ / e / I 45 mm x 175 mm x 1150 mm 4.25 Fork spread b5 540 mm 4.25 Fork spread b5 540 mm 4.32 Ground clearance at centre of wheelbase m2 35 mm 4.34 Asis e width for 800 x 1200 pallet lengthways Ast 1393 mm 4.35 Tuming radius Wa 1544 mm 4.4 Mast lift h3 125 mm 4.9 Height tiller min. h14 866 mm 4.9 Height tiller max. h14 1320 mm <				
3.5 Number of front wheels / rear wheels 3.6 Front wheel gauge				
Sear Wheel gauge		,		
Rear wheel gauge				
Fork height in low position	3.7		b11	366 mm
1				
Length to face of forks 12 589 mm A21 Overall width Overall width Handle Handle Handle Forks section / width / length Howard Handle Forks section / width / length Handle Forks section / width / length Handle Fork spread b5 540 mm A32 Ground clearance at centre of wheelbase m2 35 mm A34 Alsle width for 800 x 1200 pallet lengthways Ast 1939 mm A35 Turning radius Wa 1544 mm A49 Height tiller min. h14 866 mm A49 Height tiller max. h14 1320 mm Forformances Height park Forformances Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution		•		
4.21 Overall width S Fork spection width length S e I 45 mm x 175 mm x 1150 mm 4.22 Fork speed D D D 4.25 Fork spread D D 4.26 Fork spread D D 4.27 Fork spread D D 4.28 Ground clearance at centre of wheelbase mz 35 mm 4.39 Asis e width for 800 x 1200 pallet lengthways Ast 1939 mm 4.35 Tuming radius Wa 1544 mm 4.4 Mast lift D D 4.9 Height tiller max. D 4.9 Height tiller max. D 4.9 Height tiller max. D 5.1 Travel speed (laden unladen) D D 5.2 Lifting speed (laden unladen) D D M 5.3 Lowering speed (laden unladen) D D M 5.7 Gradeability (laden unladen) D D M 5.7 Gradeability (laden unladen) D D M 5.7 Gradeability (laden unladen) D D M 5.8 Electro magnetic Handle Release 6.1 Drive motor rating \$2.60 min D D M 6.2 Lift motor rating \$2.60 min D D M 6.3 Battery according to DIN 43531/35/36 A, B, C D D M 6.4 Battery voltage capacity D D M 6.5 Battery voltage capacity D D M 6.6 Battery voltage capacity D D M 6.7 Miscellaneous D M 6.8 Miscellaneous D M 6.9 Miscellaneous D M 6.0 Miscellaneous D D D D D 6.1 Type of drive control D D D 6.2 D M 6.3 D D D D D D D 6.4 D D D D D D D 6.5 Battery voltage capacity D D D 6.6 D D D D D D D 6.7 D D D D D D 6.8 D D D D D 6.9 D D D D D 6.1 D D D D D 6.2 D D D D D D 6.3 D D D D D D 6.4 D D D D D 6.5 D D D D D D D 6.6 D D D D D D 6.7 D D D D D D 6.8 D D D D D D D 6.9 D D D D D D 6.0 D D D D D D 6.1 D D D D D D 6.2 D D D D D D 6.3 D	4.19	Overall length		1739 mm
Forks section / width / length	4.20	Length to face of forks	I2	589 mm
Fork spread	4.21	Overall width	b1	680 mm
A.32 Ground clearance at centre of wheelbase m2 35 mm A.34 Aisle width for 800 x 1200 pallet lengthways Ast 1939 mm A.35 Tuming radius Wa 1544 mm A.44 Mast lift h3 125 mm A.9 Height tiller min. h14 866 mm A.9 Height tiller max. h14 1320 mm Performances	4.22	Forks section / width / length	s / e / l	45 mm x 175 mm x 1150 mm
4.34 Aisle width for 800 x 1200 pallet lengthways Ast 1939 mm 4.35 Tuming radius Wa 1544 mm 4.4 Mast lift h3 125 mm 4.9 Height tiller min. h14 866 mm 4.9 Performances	4.25	Fork spread	b5	540 mm
4.4.5 Tuming radius Wa 1544 mm 4.4 Mast lift h3 125 mm 4.9 Height tiller min. h14 866 mm 4.9 Height tiller max. h14 1320 mm Performances 5.1 Travel speed (laden / unladen) 5.80 km/h / 6 km/h 5.2 Lifting speed (laden / unladen) 0.02 m/s / 0.03 m/s 5.3 Lowering speed (laden / unladen) 0.04 m/s / 0.02 m/s 5.7 Gradeability (laden / unladen) 0.04 m/s / 0.02 m/s 5.10 Service brake Electro magnetic 5.11 Parking brake Handle Release Engine Handle Release 6.1 Drive motor rating \$2.60 min 1.20 kW 6.2 Lift motor rating at \$3.15% 1 kW 6.3 Battery according to DIN 43531/35/36 A, B, C DIN 43535-B 6.4 Battery according to DIN 43531/35/36 A, B, C 24 V/ 180 Ah 6.5 Battery wight (+/- 5%) 180 kg Miscellaneous 8.1 Type of drive control AC	4.32	Ground clearance at centre of wheelbase	m2	35 mm
4.4 Mast lift h3 125 mm 4.9 Height tiller min. h14 866 mm 4.9 Height tiller max. h14 1320 mm Performances 5.1 Travel speed (laden / unladen) 5.80 km/h / 6 km/h 5.2 Lifting speed (laden / unladen) 0.02 m/s / 0.03 m/s 5.3 Lowering speed (laden / unladen) 0.04 m/s / 0.02 m/s 5.7 Gradeability (laden / unladen) 10 % / 25 % 5.10 Service brake Electro magnetic 5.11 Parking brake Handle Release Engine 6.1 Drive motor rating \$2 60 min 1.20 kW 6.2 Lift motor rating at \$3 15% 1 kW 6.3 Battery according to DIN 43531/35/36 A, B, C DIN 43535-B 6.4 Battery voltage / capacity 24 V / 180 Ah 6.5 Battery weight (+/- 5%) 180 kg Miscellaneous 8.1 Type of drive control AC	4.34	Aisle width for 800 x 1200 pallet lengthways	Ast	1939 mm
4.9 Height tiller min. h14 866 mm 4.9 Height tiller max. h14 1320 mm Perfomances 5.1 Travel speed (laden / unladen) 5.80 km/h / 6 km/h 5.2 Lifting speed (laden / unladen) 0.02 m/s / 0.03 m/s 5.3 Lowering speed (laden / unladen) 0.04 m/s / 0.02 m/s 5.7 Gradeability (laden / unladen) 10 % / 25 % 5.10 Service brake Electro magnetic 5.11 Parking brake Handle Release 6.1 Drive motor rating S2 60 min 1.20 kW 6.2 Lift motor rating at S3 15% 1 kW 6.3 Battery according to DIN 43531/35/36 A, B, C DIN 43535-B 6.4 Battery weight (+/- 5%) 24 V / 180 Ah 6.5 Battery weight (+/- 5%) 180 kg Miscellaneous 8.1 Type of drive control AC	4.35	Turning radius	Wa	1544 mm
Height tiller max.	4.4	Mast lift	h3	125 mm
Performances 5.1 Travel speed (laden / unladen) 5.80 km/h / 6 km/h 5.2 Lifting speed (laden / unladen) 0.02 m/s / 0.03 m/s 5.3 Lowering speed (laden / unladen) 0.04 m/s / 0.02 m/s 5.7 Gradeability (laden / unladen) 10 % / 25 % 5.10 Service brake Electro magnetic 5.11 Parking brake Handle Release Engine 6.1 Drive motor rating \$2 60 min 1.20 kW 6.2 Lift motor rating at \$3 15% 1 kW 6.3 Battery according to DIN 43531/35/36 A, B, C DIN 43535-B 6.4 Battery voltage / capacity 24 V / 180 Ah 6.5 Battery weight (+/- 5%) 180 kg Miscellaneous 8.1 Type of drive control AC	4.9	Height tiller min.	h14	866 mm
5.1 Travel speed (laden / unladen) 5.80 km/h / 6 km/h 5.2 Lifting speed (laden / unladen) 0.02 m/s / 0.03 m/s 5.3 Lowering speed (laden / unladen) 0.04 m/s / 0.02 m/s 5.7 Gradeability (laden / unladen) 10 % / 25 % 5.10 Service brake Electro magnetic 5.11 Parking brake Handle Release Engine 6.1 Drive motor rating \$2 60 min 1.20 kW 6.2 Lift motor rating at \$3 15% 1 kW 6.3 Battery according to DIN 43531/35/36 A, B, C DIN 43535-B 6.4 Battery voltage / capacity 24 V / 180 Ah 6.5 Battery weight (+/- 5%) 180 kg Miscellaneous 8.1 Type of drive control AC	4.9	Height tiller max.	h14	1320 mm
5.2 Lifting speed (laden / unladen) 0.02 m/s / 0.03 m/s 5.3 Lowering speed (laden / unladen) 0.04 m/s / 0.02 m/s 5.7 Gradeability (laden / unladen) 10 % / 25 % 5.10 Service brake Electro magnetic 5.11 Parking brake Handle Release Engine 1.20 kW 6.2 Lift motor rating \$2 60 min 1.20 kW 6.2 Lift motor rating at \$3 15% 1 kW 6.3 Battery according to DIN 43531/35/36 A, B, C DIN 43535-B 6.4 Battery voltage / capacity 24 V / 180 Ah 6.5 Battery weight (+/- 5%) 180 kg Miscellaneous AC		Performances		
5.2 Lifting speed (laden / unladen) 0.02 m/s / 0.03 m/s 5.3 Lowering speed (laden / unladen) 0.04 m/s / 0.02 m/s 5.7 Gradeability (laden / unladen) 10 % / 25 % 5.10 Service brake Electro magnetic 5.11 Parking brake Handle Release Engine 1.20 kW 6.1 Drive motor rating \$2.60 min 1.20 kW 6.2 Lift motor rating at \$3.15% 1 kW 6.3 Battery according to DIN 43531/35/36 A, B, C DIN 43535-B 6.4 Battery voltage / capacity 24 V / 180 Ah 6.5 Battery weight (+/- 5%) 180 kg Miscellaneous AC	5.1	Travel speed (laden / unladen)		5.80 km/h / 6 km/h
5.3 Lowering speed (laden / unladen) 0.04 m/s / 0.02 m/s 5.7 Gradeability (laden / unladen) 10 % / 25 % 5.10 Service brake Electro magnetic 5.11 Parking brake Handle Release Engine 1.20 kW 6.1 Drive motor rating \$2.60 min 1.20 kW 6.2 Lift motor rating at \$3.15% 1 kW 6.3 Battery according to DIN 43531/35/36 A, B, C DIN 43535-B 6.4 Battery voltage / capacity 24 V / 180 Ah 6.5 Battery weight (+/- 5%) 180 kg Miscellaneous AC				
5.7 Gradeability (laden / unladen) 10 % / 25 % 5.10 Service brake Electro magnetic 5.11 Parking brake Handle Release Engine 1.20 kW 6.1 Drive motor rating S2 60 min 1.20 kW 6.2 Lift motor rating at \$3 15% 1 kW 6.3 Battery according to DIN 43531/35/36 A, B, C DIN 43535-B 6.4 Battery voltage / capacity 24 V / 180 Ah 6.5 Battery weight (+/- 5%) 180 kg Miscellaneous AC				
5.10 Service brake Electro magnetic 5.11 Parking brake Handle Release Engine Image: Comparition of the properties of the part of the		- , ,		
Farking brake Handle Release Engine Colspan="2">Colspan		, ,		
Engine Company 6.1 Drive motor rating \$2.60 min 1.20 kW 6.2 Lift motor rating at \$3.15% 1 kW 6.3 Battery according to DIN 43531/35/36 A, B, C DIN 43535-B 6.4 Battery voltage / capacity 24 V / 180 Ah 6.5 Battery weight (+/- 5%) 180 kg Miscellaneous 8.1 Type of drive control AC				
6.1 Drive motor rating S2 60 min 1.20 kW 6.2 Lift motor rating at S3 15% 1 kW 6.3 Battery according to DIN 43531/35/36 A, B, C DIN 43535-B 6.4 Battery voltage / capacity 24 V / 180 Ah 6.5 Battery weight (+/- 5%) 180 kg Miscellaneous 8.1 Type of drive control AC				
6.2 Lift motor rating at \$3 15% 1 kW 6.3 Battery according to DIN 43531/35/36 A, B, C DIN 43535-B 6.4 Battery voltage / capacity 24 V / 180 Ah 6.5 Battery weight (+/- 5%) 180 kg Miscellaneous 8.1 Type of drive control AC	6.1			1 20 kW
6.3 Battery according to DIN 43531/35/36 A, B, C 6.4 Battery voltage / capacity 6.5 Battery weight (+/- 5%) Miscellaneous 8.1 Type of drive control DIN 43535-B 24 V / 180 Ah 180 kg AC				
6.4 Battery voltage / capacity 24 V / 180 Ah 6.5 Battery weight (+/- 5%) 180 kg Miscellaneous 8.1 Type of drive control AC				
6.5 Battery weight (+/- 5%) 180 kg Miscellaneous 8.1 Type of drive control AC		•		
Miscellaneous 8.1 Type of drive control AC		, - , ,		
8.1 Type of drive control AC	0.0			100 kg
·	0.1			40
8.4 Measured/guaranteed mean noise level at the ear of the operator < 65 dB		,,		

EP 20 - Dimensional drawing







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