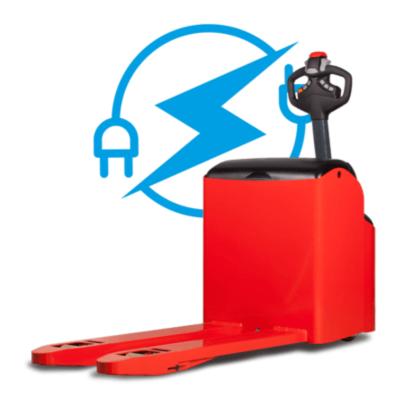
Technical sheet:

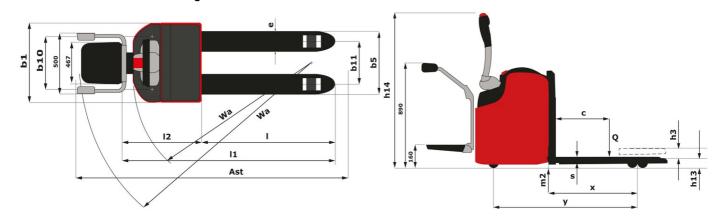
EP 20





Technical characteristics		EP 20 Created on 3 May 2024 at 1:05:29 PM U		
1.2 Model Name		Technical characteristics		Metric
1.3 Power source	1.1	Manufacturer		Manitou
1.4 Operator pipe	1.2	Model Name		EP 20
1.4 Operator type	1.3	Power source		Electrical
1.5 Max. capacity Q 2000 kg 1.6 Load center of graty c 600 mm 1.8 Load distance, centre of drive sxile to fork x 958 mm Wheelbase y 1372 mm Velogit Processed of the control of	1.4	Operator type		
1.5			0	
1.8			·	-
Wheelbase				
Service weight				1072
2.2 Weight on front axle (laden) / rear axle (laden) rear ax	2 1	-		482 kg
Weight on front axie (Unladen) / rear axie (Unladen)		-		-
Wheels				
Signature Sign	2.3			337 kg / 143 kg
3.2 Dimensions of front wheels 230 x 75 3.3 Dimensions of rear wheels 4 x (82 x 70) 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 Unimensions 4.15 Fork height in low position h13 85 mm 4.19 Overall length 11 1739 mm 4.20 Length to face of forks 12 589 mm 4.21 Overall width b1 660 mm 4.22 Fork section / width / length 5 / 4 45 mm x 175 mm x 1150 mm 4.23 Ground clearace at centre of wheelbase m2 35 mm 4.34 Asie 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 <	0.1			Dondono
3.3 Dimensions of rear wheels 4x (82 x 70) 3.4 Additional wheels (dimensions) 2x (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		•		-
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 Dimensions 4.15 Fork height in low position h13 85 mm 4.19 Overall length 11 1739 mm 4.20 Length to face of forks 12 589 mm 4.21 Overall width b1 680 mm 4.22 Fork spread b5 540 mm 4.25 Fork spread b5 540 mm 4.26 Ground clearance at centre of wheelbase m2 35 mm 4.31 Aisle width for 800 x 1200 pallet lengthways Ast 1939 mm 4.32 Ground clearance at centre of wheelbase m2 35 mm 4.34 Aisle width for 800 x 1200 pallet lengthways Ast 1939 mm 4.35 Turning radius Ma 154 mm 4.9 Height tiller mn. h14 866 mm 4.9 Height tiller max. h14 <t< td=""><td></td><td></td><td></td><td></td></t<>				
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 Dimensions 4.15 Fork height in low position h13 85 mm 4.19 Overall length l1 1739 mm 4.20 Length to face of forks l2 589 mm 4.21 Overall width b1 680 mm 4.22 Forks section / width / length s / e / l 45 mm x 175 mm x 1150 mm 4.25 Fork spread b5 540 mm 4.32 Ground clearance at centre of wheelbase m2 35 mm 4.34 Aisle width for 800 x 1200 pallet lengthways Ast 1939 mm 4.35 Tuming radius Ma 1544 mm 4.4 Mast lift h3 125 mm 4.9 Height tiller min. h14 1320 mm 4.9 Height tiller max. h14 1320 mm 5.1 Travel speed (laden / unladen) 5.80 km/h / 6 km/h 5.2 Lifting speed (laden / unladen) 0.02 m/s /				
3.6 Front wheel gauge b10 435 mm 3.7 Rear wheel gauge b11 366 mm Dimensions 4.15 Fork height in low position h13 85 mm 4.19 Overall length 11 1739 mm 4.20 Length to face of forks 12 589 mm 4.21 Overall width / length b1 680 mm 4.22 Forks section / width / length s / e / l 45 mx 175 mx 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 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 Height tiller max. h14 1320 mm 5.1 Travel speed (laden / unladen) 5.80 km/h / 6 km/h 5.2 Liffing 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/				
Rear wheel gauge			1.10	
Dimensions				
4.15 Fork height in low position h13 85 mm 4.19 Overall length l1 1739 mm 4.20 Length to face of forks l2 589 mm 4.21 Overall width b1 680 mm 4.22 Forks section / width / length s / e / I 45 mm x 175 mm x 1150 mm 4.25 Fork spread b5 540 mm 4.32 Ground clearance at centre of wheelbase m2 35 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 Height tiller max. h14 1320 mm 5.1 Travel speed (laden / unladen) 5.80 km/h / 6 km/h 5.2 Lifting speed (laden / unladen) 5.80 km/h / 6 km/h 5.7 Gradeability (laden / unladen) 0.02 m/s / 0.02 m/s 5.7 Gradeability (laden / unladen) 10 % / 25 % 5.10 Service brake Electro magnetic 5.11 P	3.7		b11	366 mm
4.19 Overall length 11 1739 mm 4.20 Length to face of forks 12 589 mm 4.21 Overall width b1 680 mm 4.22 Fork s section / width / length s / e / l 45 mm x 175 mm x 1150 mm 4.25 Fork spread b5 540 mm 4.32 Ground clearance at centre of wheelbase m2 35 mm 4.34 Aisle width for 800 x 1200 pallet lengthways Ast 1939 mm 4.35 Turning 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 366 mm 5.1 Travel speed (laden / unladen) 5.80 km/h / 6 km/h 5.2 Lifting speed (laden / unladen) 5.80 km/h / 6 km/h 5.2 Lifting speed (laden / unladen) 0.02 m/s / 0.03 m/s 5.7 Gradeability (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 Pa				
4.20 Length to face of forks 12 589 mm 4.21 Overall width b1 680 mm 4.22 Forks section / width / length \$ / e / l 45 mm x 175 mm x 1150 mm 4.25 Fork spread b5 540 mm 4.32 Ground clearance at centre of wheelbase m2 35 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 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				
4.21 Overall width b1 680 mm 4.22 Forks section / width / length s / e / l 45 mm x 175 mm x 1150 mm 4.25 Fork spread b5 540 mm 4.32 Ground clearance at centre of wheelbase m2 35 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 Height tiller max. h14 1320 mm Performances Travel speed (laden / unladen) 5.80 km/h / 6 km/h 5.2 Lifting speed (laden / unladen) 5.80 km/h / 6 km/h 5.3 Lowering speed (laden / unladen) 0.02 m/s / 0.02 m/s 5.7 Gradeability (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				
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4.25 Fork spread b5 540 mm 4.32 Ground clearance at centre of wheelbase m2 35 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 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 Handle Release	4.21	Overall width	b1	
4.32 Ground clearance at centre of wheelbase m2 35 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 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		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 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 Handle Release	4.25	Fork spread	b5	540 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 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 Engine Handle Release	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 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 Engine Engine	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 Engine Handle Release	4.35	Turning radius	Wa	1544 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 Handle Release	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 Handle Release	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 Handle Release	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 Handle Release		Performances		
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 Handle Release	5.1	Travel speed (laden / unladen)		5.80 km/h / 6 km/h
5.7 Gradeability (laden / unladen) 5.10 Service brake 5.11 Parking brake Engine Gradeability (laden / unladen) 10 % / 25 % Electro magnetic Handle Release	5.2	Lifting speed (laden / unladen)		0.02 m/s / 0.03 m/s
5.10 Service brake Electro magnetic 5.11 Parking brake Handle Release Engine	5.3	Lowering speed (laden / unladen)		0.04 m/s / 0.02 m/s
5.11 Parking brake Handle Release Engine	5.7	Gradeability (laden / unladen)		10 % / 25 %
Engine	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				DIN 43535-B
6.4 Battery voltage / capacity 24 V / 180 Ah		•		
, , ,	6.5			
Miscellaneous		, , ,		
8.1 Type of drive control AC	8.1			AC
8.4 Measured/guaranteed mean noise level at the ear of the operator < 65 dB		**		

EP 20 - Dimensional drawing







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