Technical sheet:

## **ER 20**



Marufacture		Technical characteristics		Metric
1.1	1.1	Manufacturer		MANITOU
1.4	1.2	Model Name		ER 20
1.5   Max. capacity   c   600 mm     1.8   Loud distance, centre of drive axie to fork   x   441 mm     1.9   Wheelbase   y   1330 mm     2.1   Service wepht   3740 kg     3.1   Times type   3740 kg     3.1   Times type   1x 155x 155     3.2   Number of drive wheels   1x 25x 5x 155     3.3   Number of drive wheels   2x 28105     3.3   Number of front wheels / size of drive wheels   1x 12x mm     3.3   Number of front wheels / size of drive wheels   2x 28105     3.3   Front wheel gauge   b10   0 mm     3.7   Rear wheel gauge   b10   0 mm     4.7   Height do overlead guard (cabin)   b6   2228 mm     4.7   Height do overlead guard (cabin)   b6   2228 mm     4.7   Height do overlead guard (cabin)   b1   0     4.7   Height do overlead guard (cabin)   b1   2     4.7   Height do overlead guard (cabin)   b1   0 <t< td=""><td>1.3</td><td>Power source</td><td></td><td>Electrical</td></t<>	1.3	Power source		Electrical
1.6   Load center of gravity   c   600 mm     1.8   Load distance, center of dive axis to fork   x   441 mm     1.9   Wheelbase   y   1330 mm     2.1   Service weight   S   3740 kg     2.1   Service weight   S   3740 kg     3.5   Number of form wheels- Size of driew wheels   Number of four wheels- Size of forw wheels   1 x 355 x 155     3.5   Number of four wheels- Size of forw wheels   1 1/2   1 x 25 x 155     3.5   Number of four wheels- Size of four wheels   1 1/2   1 x 25 x 155     3.5   Four three! gauge   bit 1   0 mm     3.6   Four three! gauge   bit 1   1128 mm     4.8   Sea height Stand height   h   6   2205 mm     4.8   Sea height Stand height   h   7   107 mm     4.9   Ouerall length   h   7   107 mm     4.2   Fox Carriage Sio 2282 (class/from) A/B   s / e / l   40 mm x 10 mm / 1150 mm     4.2.1   Ouerall windth   s / e / l   40 mm	1.4	Operator type		Seated
1.8   Load distance, centre of dirive axie to folk   x   4.41 mm     1.9   Wheelbase   y   1530 mm     2.1   Service weight	1.5	Max. capacity	Q	2000 kg
1,000   Nonethase weight   Nonethase   N	1.6	Load center of gravity	С	600 mm
Neght   Service weight   Service weigh	1.8	Load distance, centre of drive axle to fork	х	441 mm
Service weight   Note   Not	1.9	Wheelbase	у	1530 mm
Nime		Weight		
3.1   Tires type   Vulkollan     3.5.2   Number of fod wheels - Size of food wheels   1.2 35x 155     3.3   Number of front wheels - / rear wheels   2 x 28*105     3.5   Number of front wheels - / rear wheels   1.7 2     3.6   Front wheel gauge   b10   0 mm     3.7   Rear wheel gauge   b10   1128 mm     4.8   Seat height/stand height   h6   2205 mm     4.8   Seat height/stand height   h7   107 mm     4.9   Length to face of forks   12   1310 mm     4.21   Overall width   5 / e/1   40 mm x 100 mm / 150 mm     4.22   Fork section / width / length   5 / e/1   40 mm x 100 mm / 150 mm     4.23   Fork section / width / length   5 / e/1   40 mm x 100 mm / 150 mm     4.24   Fork section / width / length   5 / e/1   40 mm x 100 mm / 150 mm     4.25   Fork section / width / length   5 / e/1   40 mm x 100 mm / 150 mm     4.26   Fork section / width / length   5 / e/2   40 mm x 100 mm / 150 mm     4.27   Fork se	2.1	Service weight		3740 kg
3.5.2   Number of drive wheels - Size of drive wheels   1 x 355 x 155     3.3   Number of load wheels - Size of load wheels   1 / 2     3.5   Number of fload wheels / rear wheels   1 / 2     3.6   Front wheel gauge   b10   0 mm     3.7   Rear wheel gauge   b10   1 128 mm     4.7   Height of overhead guard (cabin)   h6   22205 mm     4.8   Sat height stand height   h7   107 mm     4.9   Length of sac of forks   l1   2460 mm     4.20   Length of sac of forks   l2   1310 mm     4.21   Overall length   b1   1270 mm     4.22   Fork section / width / length   s / e/1   40 mm x 100 mm / 1150 mm     4.23   Fork section / width / length   s / e/1   40 mm x 100 mm / 1150 mm     4.24   Fork cardiage ISO 2328 (class/form) A/B   s / e/1   40 mm x 100 mm / 1150 mm     4.25.1   Width over forks min. / max.   b5   3 16 mm / 697 mm     4.25.1   Width over forks min. / max.   b5   3 16 mm / 697 mm     4.25.1		Wheels		
3.3   Number of load wheels - Size of load wheels   2 x 28*105     3.5   Number of front wheels / ear wheels   1 / 2     3.6   Font wheel gauge   b10   0 mm     3.7   Rear wheel gauge   b11   1128 mm     4.7   Height of owehed guard (cabin)   h6   2205 mm     4.8   Sea height/stand height   h7   1077 mm     4.9   Uengil length   11   2460 mm     4.20   Length of face of forks   12   1310 mm     4.21   Overall width   b1   1270 mm     4.22   Fork section / width / length   \$ / e/I   40 mm x 100 mm / 1150 mm     4.23   Fork carriage ISO 2328 (class/form) A/B   \$ / e/I   40 mm x 100 mm / 1150 mm     4.24   Distance between wheel ammi-floading surfaces   b4   903 mm     4.25   Distance between wheel ammi-floading surfaces   m2   70 mm     4.21   Six width for 1000 x 1200 pallet lengthways   Ast   22200 mm     4.22   Fork section / wheelbase   m2   70 mm     4.23   Lift width	3.1	Tires type		Vulkollan
3.5   Number of front wheels / rear wheels   1 / 2     3.6   Front wheel gauge   b10   0 mm     0   Dimensions	3.5.2	Number of drive wheels - Size of drive wheels		1 x 355 x 155
3.6   Front wheel gauge   b10   0 mm     3.7   Rear wheel gauge   b10   1128 mm     4.7   Height of ownead guard (cabin)   h6   2205 mm     4.8   Seat height/stand height   h7   1077 mm     4.9   Overall length   i1   2460 mm     4.20   Length of ace of forks   i2   310 mm     4.21   Fork section / width / length   b1   1270 mm     4.22   Fork carriage ISO 2232 (class/form) A/B   b4   903 mm     4.25   Distance between wheel arms/loading surfaces   b4   903 mm     4.25   Okround clearance at centre of wheelbase   b4   903 mm     4.25   Okround clearance at centre of wheelbase   m2   70 mm     4.32   Alsie width for 800 x 1200 pallet lengthways   Ast   22770 mm     4.33   Alsie width for 800 x 1200 pallet lengthways   Ast   2220 mm     5.1   Turning radius   Ast   2220 mm     5.2   Lifting speed (laden / unladen)   0.37 m/s / 0.43 m/s   0.37 m/s / 0.43 m/s	3.3	Number of load wheels - Size of load wheels		2 x 28*105
3.7   Rear wheel gauge   b11   1128 mm     14   Helight of owehed quard (cbin)   h6   2205 mm     4.8   Seat height/stand height   h7   1077 mm     4.9   Overall length   11   2460 mm     4.19   Overall width   12   1310 mm     4.21   Overall width   b1   1270 mm     4.22   Fork section / width / length   b1   1270 mm     4.23   Fork carriage ISO 2328 (class from) A/B   5 / e/I   40 mm / 1150 mm     4.23   Fork carriage ISO 2328 (class from) A/B   5 / e/I   40 mm / 1150 mm     4.24   Ustance between wheel ams/loading surfaces   b4   903 mm     4.25   Distance between wheel ams/loading surfaces   b4   903 mm     4.25   Oistance between wheel ams/loading surfaces   b4   903 mm     4.25   Oistance between wheel ams/loading surfaces   b5   316 mm / 697 mm     4.25   Distance between wheel ams/loading surfaces   b6   316 mm / 697 mm     4.25   Oistance between wheel ams/loading surfaces   Ast   <	3.5	Number of front wheels / rear wheels		1 / 2
	3.6	Front wheel gauge	b10	0 mm
4.7   Height of ownhead guard (cabin)   h6   2205 mm     4.8   Sea height/stand height   h7   1077 mm     4.9   Overall length   i1   2460 mm     4.20   Length to face of forks   i2   1310 mm     4.21   Overall width   s e f.   40 mm x 100 mm / 1150 mm     4.22   Fork section / width / length   s e f.   40 mm x 100 mm / 1150 mm     4.23   Fork carriage ISO 2328 (class/form) A/B   b   90 mm x 100 mm / 1150 mm     4.24   Distance between wheel amms/loading surfaces   b5   316 mm / 697 mm     4.25   Distance between wheel amms/loading surfaces   m2   70 mm     4.25   Wildth over fork min. / max.   b5   316 mm / 697 mm     4.25   Giound clearance at centre of wheelbase   m2   70 mm     4.31   Alsie width for 1000 x 1200 pallet lengthways   M8   22770 mm     4.32   Turning radius   M8   1750 mm     5.1   Travel speed (laden / unladen)   M8   13.3 mm/s / 0.43 m/s     5.2   Lifting speed (laden / unladen)   0	3.7	Rear wheel gauge	b11	1128 mm
4.8   Scat height/stand height   h7   1077 mm     4.19   Overall length   11   2450 mm     4.20   Length to face of forks   12   1310 mm     4.21   Overall width   b1   1270 mm     4.22   Fork section / width / length   s / e / l   40 mm x 100 mm / 1150 mm     4.23   Fork carriage ISO 2228 (class/form) A/B   2A   2A     4.26   Distance between wheel amms/loading surfaces   b4   903 mm     4.25.1   Width over forks min. / max.   b5   316 mm / 697 mm     4.27   Ground clearance at centre of wheelbase   m2   770 mm     4.32   A sise width for 800 x 1200 pallet lengthways   Ast   22770 mm     4.33   A sise width for 800 x 1200 pallet lengthways   Ast   22770 mm     4.34   A sise width for 800 x 1200 pallet lengthways   Ast   2220 mm     4.35   Taming radius   Ma   114.30 km/h / 14.50 km/h     5.2   Lifting speed (laden / unladen)   9.37 m/s / 0.63 m/s   0.37 m/s / 0.63 m/s     5.3   Cowering speed (laden / unladen)		Dimensions		
4.19 Overall length 11 2460 mm   4.20 Length to face of foks 12 1310 mm   4.21 Overall width b1 1270 mm   4.22 Fork section / width / length s /e /l 40 mm x 100 mm / 1150 mm   4.23 Fork carriage ISO 2238 (class/form) A/B b4 90 3 mm   4.26 Distance between wheel amms/loading surfaces b4 90 3 mm   4.25.1 Width over forks min. / max. b5 316 mm / 697 mm   4.26 Ground clearance at centre of wheelbase m2 70 mm   4.31 Aisle width for 1000 x 1200 pallet lengthways Ast 22770 mm   4.32 Aisle width for 800 x 1200 pallet lengthways Ast 22200 mm   4.33 Aisle width for 1000 x 1200 pallet lengthways Ast 2220 mm   4.34 Aisle width for 800 x 1200 pallet lengthways Ast 22200 mm   4.35 Tuming radius Wa 1.750 mm   5.1 Tawel speed (laden / unladen) 0.37 m/s / 0.63 m/s 0.37 m/s / 0.63 m/s   5.3 Lowering speed (laden / unladen) 0.55 m/s / 0.43 m/s 0.55 m/s / 0.43 m/s   5	4.7	Height of overhead guard (cabin)	h6	2205 mm
4.20   Length to face of forks   12   1310 mm     4.21   Overall width   b1   1270 mm     4.22   Fork section / width / length   s / e / l   40 mm x 100 mm / 1150 mm     4.23   Fork carriage ISO 2328 (class/form) A/B   2A     4.26   Distance between wheel ams/loading surfaces   b4   903 mm     4.25.1   Width over forks min. / max.   b5   316 mm / 697 mm     4.32   Ground clearance at centre of wheelbase   m2   70 mm     4.33   Alsle width for 1000 x 1200 pallet lengthways   Ast   2820 mm     4.34   Alsle width for 800 x 1200 pallet lengthways   Ast   2820 mm     4.35   Tuming radius   Ma   1750 mm     6.1   Travel speed (laden / unladen)   Ma   1750 mm     5.1   Tavel speed (laden / unladen)   9   0.37 m/s / 0.63 m/s     5.2   Lifting speed (laden / unladen)   9   0.20 m/s / 0.20 m/s     5.4   Reach speed (with load / without load)   9   0.20 m/s / 0.20 m/s     5.7   Gradeability (laden / unladen)   9 <t< td=""><td>4.8</td><td>Seat height/stand height</td><td>h7</td><td>1077 mm</td></t<>	4.8	Seat height/stand height	h7	1077 mm
4.21   Overall width   b1   1 270 mm     4.22   Forks section / width / length   s / e / l   40 mm x 100 mm / 1150 mm     4.23   Fork carriage ISO 2328 (class/form) A/B   b4   903 mm     4.26   Distance between wheel ams/loading surfaces   b5   316 mm / 697 mm     4.25.1   Width over forks min. / max.   b5   316 mm / 697 mm     4.32   Ground clearance at centre of wheelbase   m2   70 mm     4.33   Aisle width for 800 x 1200 pallet lengthways   Ast   2280 mm     4.34   Aisle width for 800 x 1200 pallet lengthways   Ast   2820 mm     4.35   Tuming radius   Ast   2820 mm     4.34   Aisle width for 800 x 1200 pallet lengthways   Ast   2820 mm     4.35   Tuming radius   Ast   2820 mm     4.36   Tuming radius   17 500 mm   1750 mm     5.2   Lifting speed (laden / unladen)   Wa   17.20 mm/s     5.3   Lowering speed (laden / unladen)   0.20 m/s / 0.20 m/s   0.20 m/s / 0.20 m/s     5.1   Senice bax   Electric </td <td>4.19</td> <td>Overall length</td> <td>I1</td> <td>2460 mm</td>	4.19	Overall length	I1	2460 mm
4.22   Forks section / width / length   \$ / e / l   40 mm x 100 mm / 1150 mm     4.23   Fork carriage ISO 2328 (class/form) A/B   2A     4.26   Distance between wheel arms/loading surfaces   b4   903 mm     4.25.1   Width over forks min. / max.   b5   316 mm / 697 mm     4.32   Ground clearance at centre of wheelbase   m2   70 mm     4.33   Aisle width for 1000 x 1200 pallet lengthways   axt   22770 mm     4.34   Aisle width for 800 x 1200 pallet lengthways   Wa   1750 mm     4.35   Turning radius   Wa   1750 mm     5.1   Travel speed (laden / unladen)   Wa   1750 mm     5.2   Lifting speed (laden / unladen)   0.55 m/s / 0.43 m/s   0.55 m/s / 0.43 m/s     5.3   Lowering speed (laden / unladen)   0.05 m/s / 0.20 m/s   0.55 m/s / 0.43 m/s     5.1.1   Reach speed (with load / without load)   0.02 m/s / 0.20 m/s   0.55 m/s / 0.43 m/s     5.7   Gradeabilty (laden / unladen)   0.02 m/s / 0.20 m/s   0.55 m/s / 0.43 m/s     5.1   Reach speed (with load / without load)   0.02 m/s / 0.20 m/s	4.20	Length to face of forks	12	1310 mm
4.23   Fork carriage ISO 2328 (class/form) A/B   2A     4.26   Distance between wheel arms/loading surfaces   b4   903 mm     4.25.1   Width over forks min. / max.   b5   316 mm / 697 mm     4.32   Ground clearance at centre of wheelbase   m2   70 mm     4.33   Aisle width for 800 x 1200 pallet lengthways   Ast   2820 mm     4.34   Aisle width for 800 x 1200 pallet lengthways   Ast   2820 mm     4.35   Tuming radius   Wa   1750 mm     5.1   Travel speed (laden / unladen)   0.37 m/s / 0.63 m/s     5.2   Lifting speed (laden / unladen)   0.37 m/s / 0.63 m/s     5.3   Lowering speed (laden / unladen)   0.55 m/s / 0.43 m/s     5.4.1   Reach speed (with load / without load)   0.55 m/s / 0.43 m/s     5.7   Gradeability (laden / unladen)   6.90 % / 10.20 %     5.10   Service brake   Electric     6.1   Drive motor rating \$2 60 min   7.20 kW     6.2   Lift motor rating \$2 60 min   15 kW     6.3   Battery voltage / capacity   48 V / 620 Ah	4.21	Overall width	b1	1270 mm
4.26 Distance between wheel amms/loading surfaces b4 903 mm   4.25.1 Width over forks min. / max. b5 316 mm / 697 mm   4.32 Ground clearance at center of wheelbase m2 70 mm   4.33 Aisle width for 1000 x 1200 pallet lengthways Ast 2820 mm   4.34 Aisle width for 800 x 1200 pallet lengthways Ast 2820 mm   4.35 Tuming radius Wa 1750 mm   5.1 Travel speed (laden / unladen) 0.0 mm 1.4.30 km/h / 14.50 km/h   5.2 Lifting speed (laden / unladen) 0.55 m/s / 0.43 m/s 0.55 m/s / 0.43 m/s   5.3 Lowering speed (laden / unladen) 0.55 m/s / 0.43 m/s 0.55 m/s / 0.43 m/s   5.1 Reach speed (with load / without load) 0.20 m/s / 0.20 m/s 0.20 m/s / 0.20 m/s   5.7 Gradeability (laden / unladen) 0.20 m/s / 0.20 m/s 0.20 m/s   5.7 Bragine Electric   6.1 Drive motor etning \$2.60 min 0.7.20 kW   6.2 Lift motor rating at \$3.15% 15 kW   6.3 Battery voltage / capacity 0.0 m/s / 0.20 m/s   6.4 Battery weight (+/- 5%)	4.22	Forks section / width / length	s / e / I	40 mm x 100 mm / 1150 mm
4.25.1 Width over forks min. / max. b5 316 mm / 697 mm   4.32 Ground clearance at centre of wheelbase m2 70 mm   4.33 Alsle width for 1000 x 1200 pallet lengthways Ast 2770 mm   4.34 Alsle width for 1000 x 1200 pallet lengthways Ast 2820 mm   4.35 Turning radius Wa 1750 mm   Performances   5.1 Travel speed (laden / unladen) 14.30 km/h / 14.50 km/h   5.2 Lifting speed (laden / unladen) 0.37 m/s / 0.63 m/s   5.3 Lowering speed (laden / without load) 0.55 m/s / 0.43 m/s   5.4.1 Reach speed (with load / without load) 0.20 m/s / 0.20 m/s / 0.20 m/s   5.7 Gradeability (laden / unladen) 0.20 m/s / 0.20 m/s   5.10 Service brake Electric   Engine   6.1 Drive motor rating \$2.60 min 7.20 kW   6.2 Lift motor rating \$2.60 min 15 kW   6.3 Battery according to DIN 43531/35/36 A, B, C DIN 43531 C   6.4 Battery voltage / capacity 48 V / 620 Ah   6.5 Battery weight (+/-5%) 920 kg	4.23	Fork carriage ISO 2328 (class/form) A/B		2A
4.32 Ground clearance at centre of wheelbase m2 70 mm   4.33 Aisle width for 1000 x 1200 pallet lengthways Ast 2770 mm   4.34 Aisle width for 800 x 1200 pallet lengthways Ast 2820 mm   4.35 Tumin radius Wa 1750 mm   5.1 Performances ************************************	4.26	Distance between wheel arms/loading surfaces	b4	903 mm
4.33 Aisle width for 1000 x 1200 pallet lengthways Ast 2770 mm   4.34 Aisle width for 800 x 1200 pallet lengthways Ast 2820 mm   4.35 Tuming radius Wa 1750 mm   Performances   5.1 Travel speed (laden / unladen) 0.37 m/s / 0.63 m/s   5.2 Lifting speed (laden / unladen) 0.37 m/s / 0.63 m/s   5.3 Lowering speed (with load / without load) 0.20 m/s / 0.20 m/s   5.4.1 Reach speed (with load / without load) 0.20 m/s / 0.20 m/s   5.7 Gradeability (laden / unladen) 0.20 m/s / 0.20 m/s   5.7 Gradeability (laden / unladen) Electric   5.1 Service brake Electric   6.1 Drive motor rating S2 60 min 7.20 kW   6.2 Lift motor rating s2 50 min 7.20 kW   6.3 Battery according to DIN 43531/35/36 A, B, C DIN 43531 C   6.4 Battery weight (+/- 5%) 48 V / 620 Ah   6. Miscellaneous 920 kg   8.1 Type of drive control Electronic   8.3 Oil flow rate for attachments 25 l/min	4.25.1	Width over forks min. / max.	b5	316 mm / 697 mm
4.34 Aisle width for 800 x 1200 pallet lengthways Ast 2820 mm   4.35 Tuming radius Wa 1750 mm   Performances   5.1 Travel speed (laden / unladen) 14.30 km/h / 14.50 km/h   5.2 Lifting speed (laden / unladen) 0.37 m/s / 0.63 m/s   5.3 Lowering speed (laden / unladen) 0.55 m/s / 0.43 m/s   5.4.1 Reach speed (with load / without load) 0.20 m/s / 0.20 m/s   5.7 Graddealitly (laden / unladen) 0.20 m/s / 0.20 m/s   5.7 Graddealitly (laden / unladen) 0.20 m/s / 0.20 m/s   5.10 Service brake Electric   6.1 Drive motor rating \$2.60 min 15 kW   6.2 Lift motor rating \$2.50 min 7.20 kW   6.3 Battery sociding to DIN 43531/35/36 A, B, C 15 kW   6.3 Battery voltage / capacity 48 V / 620 Ah   6.5 Battery weight (+/- 5%) 920 kg   Miscellaneous 1   8.1 Type of drive control Electronic   8.3 Oil flow rate for attachments 25 l/min	4.32	Ground clearance at centre of wheelbase	m2	70 mm
4.35 Tuming radius Wa 1750 mm   Performances   5.1 Travel speed (laden / unladen) 14.30 km/h / 14.50 km/h   5.2 Lifting speed (laden / unladen) 0.37 m/s / 0.63 m/s   5.3 Lowering speed (with load / without load) 0.55 m/s / 0.43 m/s   5.4.1 Reach speed (with load / without load) 0.20 m/s / 0.20 m/s   5.7 Gradeability (laden / unladen) 6.90 % / 10.20 %   5.10 Service brake Electric   6.1 Drive motor rating \$2.60 min 7.20 kW   6.1 Drive motor rating \$2.60 min 7.20 kW   6.2 Lift motor rating \$2.50 min 15 kW   6.3 Battery according to DIN 43531/35/36 A, B, C DIN 43531 C   6.4 Battery weight (+/- 5%) 48 V / 620 Ah   6.5 Battery weight (+/- 5%) 920 kg   Miscellaneous Electronic   8.1 Type of drive control Electronic   8.3 Oil flow rate for attachments 25 l/min	4.33	Aisle width for 1000 x 1200 pallet lengthways		2770 mm
Performances     5.1   Travel speed (laden / unladen)   14.30 km/h / 14.50 km/h     5.2   Lifting speed (laden / unladen)   0.37 m/s / 0.63 m/s     5.3   Lowering speed (with load / without load)   0.20 m/s / 0.20 m/s     5.4.1   Reach speed (with load / without load)   0.20 m/s / 0.20 m/s     5.7   Gradeability (laden / unladen)   6.90 % / 10.20 %     5.10   Service brake   Electric     Engine     6.1   Dive motor rating S2 60 min   7.20 kW     6.2   Lift motor rating s3 15%   15 kW     6.3   Battery according to DIN 43531/35/36 A, B, C   DIN 43531 C     6.4   Battery voltage / capacity   48 V / 620 Ah     6.5   Battery weight (+/- 5%)   920 kg     Miscellaneous     8.1   Type of drive control   Electronic     8.3   Oil flow rate for attachments   25 l/min	4.34	Aisle width for 800 x 1200 pallet lengthways	Ast	2820 mm
5.1 Travel speed (laden / unladen) 14.30 km/h / 14.50 km/h   5.2 Lifting speed (laden / unladen) 0.37 m/s / 0.63 m/s   5.3 Lowering speed (with load / without load) 0.25 m/s / 0.20 m/s   5.4.1 Reach speed (with load / without load) 0.20 m/s / 0.20 m/s   5.7 Gradeability (laden / unladen) 6.90 % / 10.20 %   5.10 Service brake Electric   6.1 Drive motor rating \$2.60 min 7.20 kW   6.2 Lift motor rating at \$3.15% 15 kW   6.3 Battery according to DIN 43531/35/36 A, B, C DIN 43531 C   6.4 Battery voltage / capacity 48 V / 620 Ah   6.5 Battery weight (+/- 5%) 920 kg   Miscellaneous Electronic   8.1 Type of drive control Electronic   8.3 Oil flow rate for attachments 25 1/min	4.35	Turning radius	Wa	1750 mm
5.2 Lifting speed (laden / unladen) 0.37 m/s / 0.63 m/s   5.3 Lowering speed (laden / unladen) 0.55 m/s / 0.43 m/s   5.4.1 Reach speed (with load / without load) 0.20 m/s / 0.20 m/s   5.7 Gradeability (laden / unladen) 6.90 % / 10.20 %   5.10 Service brake Electric   Engine   6.1 Drive motor rating \$2 60 min 7.20 kW   6.2 Lift motor rating at \$3 15% 15 kW   6.3 Battery according to DIN 43531/35/36 A, B, C DIN 43531 C   6.4 Battery voltage / capacity 48 V / 620 Ah   6.5 Battery weight (+/- 5%) 920 kg   Miscellaneous   8.1 Type of drive control Electronic   8.3 Oil flow rate for attachments 25 I/min		Performances		
5.3 Lowering speed (laden / unladen) 0.55 m/s / 0.43 m/s   5.4.1 Reach speed (with load / without load) 0.20 m/s / 0.20 m/s   5.7 Gradeability (laden / unladen) 6.90 % / 10.20 %   5.10 Service brake Electric   Engine   6.1 Drive motor rating \$2.60 min 7.20 kW   6.2 Lift motor rating at \$3.15% 15 kW   6.3 Battery according to DIN 43531/35/36 A, B, C DIN 43531 C   6.4 Battery voltage / capacity 48 V / 620 Ah   6.5 Battery weight (+/-5%) 920 kg   Miscellaneous   8.1 Type of drive control Electronic   8.3 Oil flow rate for attachments 25 I/min	5.1	Travel speed (laden / unladen)		14.30 km/h / 14.50 km/h
5.4.1 Reach speed (with load / without load) 0.20 m/s / 0.20 m/s   5.7 Gradeability (laden / unladen) 6.90 % / 10.20 %   5.10 Service brake Electric   Engine   6.1 Drive motor rating \$2.60 min 7.20 kW   6.2 Lift motor rating at \$3.15% 15 kW   6.3 Battery according to DIN 43531/35/36 A, B, C DIN 43531 C   6.4 Battery voltage / capacity 48 V / 620 Ah   6.5 Battery weight (+/- 5%) 920 kg   Miscellaneous   8.1 Type of drive control Electronic   8.3 Oil flow rate for attachments 25 I/min	5.2	Lifting speed (laden / unladen)		0.37 m/s / 0.63 m/s
5.7 Gradeability (laden / unladen) 6.90 % / 10.20 %   5.10 Service brake Electric   Engine   6.1 Drive motor rating \$2.60 min 7.20 kW   6.2 Lift motor rating at \$3.15% 15 kW   6.3 Battery according to DIN 43531/35/36 A, B, C DIN 43531 C   6.4 Battery voltage / capacity 48 V / 620 Ah   6.5 Battery weight (+/-5%) 920 kg   Miscellaneous   8.1 Type of drive control Electronic   8.3 Oil flow rate for attachments 25 I/min	5.3	Lowering speed (laden / unladen)		0.55 m/s / 0.43 m/s
Electric     Engine     6.1   Drive motor rating \$2.60 min   7.20 kW     6.2   Lift motor rating at \$3.15%   15 kW     6.3   Battery according to DIN 43531/35/36 A, B, C   DIN 43531 C     6.4   Battery voltage / capacity   48 V / 620 Ah     6.5   Battery weight (+/-5%)   920 kg     8.1   Type of drive control   Electronic     8.3   Oil flow rate for attachments   25 I/min	5.4.1	Reach speed (with load / without load)		0.20 m/s / 0.20 m/s
Engine   Companies     6.1   Drive motor rating \$2.60 min   7.20 kW     6.2   Lift motor rating at \$3.15%   15 kW     6.3   Battery according to DIN 43531/35/36 A, B, C   DIN 43531 C     6.4   Battery voltage / capacity   48 V / 620 Ah     6.5   Battery weight (+/-5%)   920 kg     8.1   Type of drive control   Electronic     8.3   Oil flow rate for attachments   25 I/min	5.7	Gradeability (laden / unladen)		6.90 % / 10.20 %
6.1 Drive motor rating \$2.60 min 7.20 kW   6.2 Lift motor rating at \$3.15% 15 kW   6.3 Battery according to DIN 43531/35/36 A, B, C DIN 43531 C   6.4 Battery voltage / capacity 48 V / 620 Ah   6.5 Battery weight (+/- 5%) 920 kg   Miscellaneous   8.1 Type of drive control Electronic   8.3 Oil flow rate for attachments 25 I/min	5.10	Service brake		Electric
6.2 Lift motor rating at S3 15% 15 kW   6.3 Battery according to DIN 43531/35/36 A, B, C DIN 43531 C   6.4 Battery voltage / capacity 48 V / 620 Ah   6.5 Battery weight (+/- 5%) 920 kg   Miscellaneous   8.1 Type of drive control Electronic   8.3 Oil flow rate for attachments 25 I/min		Engine		
6.3 Battery according to DIN 43531/35/36 A, B, C DIN 43531 C   6.4 Battery voltage / capacity 48 V / 620 Ah   6.5 Battery weight (+/- 5%) 920 kg   Miscellaneous   8.1 Type of drive control Electronic   8.3 Oil flow rate for attachments 25 I/min	6.1	Drive motor rating S2 60 min		7.20 kW
6.4 Battery voltage / capacity 48 V / 620 Ah   6.5 Battery weight (+/- 5%) 920 kg   Miscellaneous   8.1 Type of drive control Electronic   8.3 Oil flow rate for attachments 25 l/min	6.2	Lift motor rating at S3 15%		15 kW
6.5 Battery weight (+/- 5%) 920 kg   Miscellaneous   8.1 Type of drive control Electronic   8.3 Oil flow rate for attachments 25 l/min	6.3	Battery according to DIN 43531/35/36 A, B, C		DIN 43531 C
Miscellaneous   Electronic     8.1   Type of drive control   Electronic     8.3   Oil flow rate for attachments   25 l/min	6.4	Battery voltage / capacity		48 V / 620 Ah
8.1Type of drive controlElectronic8.3Oil flow rate for attachments25 l/min	6.5	Battery weight (+/- 5%)		920 kg
8.3 Oil flow rate for attachments 25 l/min		Miscellaneous		
	8.1	Type of drive control		Electronic
8.4 Sound level at the driver's ear according to DIN 12 053 60.80 dB	8.3	Oil flow rate for attachments		25 l/min
	8.4	Sound level at the driver's ear according to DIN 12 053		60.80 dB

## ER 20 - Dimensional drawing



## Characteristics of masts and residual capacities

Free Lift Triplex (FLT)		FLT 48	FLT 54	FLT 57	FLT 63	FLT 68	FLT 73	FLT 80	FLT 85	FLT 90
Mast/fork carriage tilt, forward	۰	3	3	3	3	3	3	3	3	3
Mast/fork carriage tilt, backward	۰	1	1	1	1	1	1	1	1	1
h1 - Mast lowered height	mm	2140	2340	2640	2790	2957	3040	3190	3357	3523
h2 - Mast free lift	mm	16001	1800	1900	2100	2250	2400	2650	2800	2980
h3 - Mast lifting height	mm	4800	5400	5700	6300	6750	7250	7950	8450	8950
h4 - Mast extended height	mm	5380	5980	6880	7330	7830	8080	8530	9030	9530
Residual capacity with integrated side shift at max heigth	kg	2000	2000	2000	1850	1600				





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