Technical sheet :



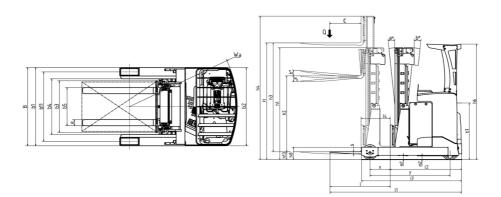


	Technical characteristics	
1.1	Manufacturer	
1.2	Model Name	
1.3	Power source	
1.4	Operator type	
1.5	Max. capacity	Q
1.6	Load center of gravity	С
1.8	Load distance, centre of drive axle to fork	x
1.9	Wheelbase	у
	Weight	
2.1	Service weight	
	Wheels	
3.1	Tires type	
3.5.2	Number of drive wheels - Size of drive wheels	
3.3	Number of load wheels - Size of load wheels	
3.5	Number of front wheels / rear wheels	
3.6	Front wheel gauge	b10
3.7	Rear wheel gauge	b10
5.7	Dimensions	011
4.8	Seat height/stand height	h7
4.0	Overall length	1
4.20	Length to face of forks	12
4.20	Overall width	b1
4.21	Forks section / width / length	s/e/
4.22	-	5/6/
4.23	Fork carriage ISO 2328 (class/form) A/B	b4
4.20	Distance between wheel arms/loading surfaces Width over forks min. / max.	b4
4.32	Ground clearance at centre of wheelbase	m2
4.33	Aisle width for 1000 x 1200 pallet lengthways	
4.34	Aisle width for 800 x 1200 pallet lengthways	Ast
4.35	Turning radius	Wa
4.7	Height of overhead guard (cabin)	h6
	Performances	
5.1	Travel speed (laden / unladen)	
5.2	Lifting speed (laden / unladen)	
5.3	Lowering speed (laden / unladen)	
5.4.1	Reach speed (with load / without load)	
5.7	Gradeability (laden / unladen)	
5.10	Service brake	
	Engine	
6.1	Drive motor rating S2 60 min	
6.2	Lift motor rating at S3 15%	
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	
8.3	Oil flow rate for attachments	
8.4	Sound level at the driver's ear according to DIN 12 053	

## ев ть но Created on August 1, 2025 at 4:55 PM UTC

Metric     MANITOU     ER 16 HD     Electrical     Seated     1600 kg     600 mm     306 mm     1420 mm     Vulkollan     1 x 355 x 155     2 x 230 x 105     1 / 2     0 mm     1/2     1/2     1/2     1/2     1/2     1/2     1/2     1/2     1/2     1/2     1/2     1/2     1/2		
ER 16 HD   Electrical   Seated   1600 kg   600 mm   306 mm   1420 mm   Vulkollan   1420 mm   Vulkollan   1420 mm   0 mm   1128 mm   1077 mm   2485 mm   1335 mm   1270 mm   1270 mm   1270 mm   128   903 mm   316 mm / 697 mm   2758 mm   2820 mm   1640 mm   2205 mm   12205 mm   15.20 % / 11 %   Electric   7.20 kW   15.20 % / 11 %   Electric   7.20 kW   15 kW   DIN 43531 C   48 V / 620 Ah   920 kg		
Electrical   Seated   1600 kg   600 mm   306 mm   1420 mm   4150 kg   Vulkollan   1 x 355 x 155   2 x 230 x 105   1 / 2   0 mm   1128 mm   1077 mm   2485 mm   1335 mm   1270 mm   2485 mm   1270 mm   2485 mm   316 mm / 697 mm   200 mm   120 mm   120 mm   1210 mm   120 mm   1210 mm   120 mm   1210 mm   120 mm   120 mm   1210 mm   120 mm   1210 mm   120 mm   1316 mm / 697 mm   200 mm   1640 mm   2205 mm   0.52 m/s / 0.50 m/s   0.20 m/s / 0.20 m/s   15.20 % / 11 %   Electric   7.20 kW   15 kW   DIN 43531 C   48 V / 620 Ah		
Seated     1600 kg     600 mm     306 mm     1420 mm     4150 kg     Vulkollan     1 x 355 x 155     2 x 230 x 105     1 / 2     0 mm     1128 mm     1077 mm     2485 mm     1335 mm     1270 mm     2485 mm     1335 mm     1270 mm     2485 mm     1335 mm     1270 mm     1     40 mm x 100 mm / 1150 mm     2A     903 nm     2758 mm     2820 mm     1640 mm     2205 mm     1640 mm     2205 mm     15.20 % / 11 %     Electric     7.20 kW     15.20 % / 11 %     Electric     7.20 kW     15 kW     DIN 43531 C     48 V / 620 Ah     920 kg		
1600 kg   600 mm   306 mm   1420 mm   4150 kg   Vulkollan   1 x 355 x 155   2 x 230 x 105   1 / 2   0 mm   1128 mm   1077 mm   2485 mm   1335 mm   1270 mm   1270 mm   2485 mm   316 mm / 697 mm   203 mm   1270 mm   1   40 mm x 100 mm / 1150 mm   220 mm   160 mm   2758 mm   2820 mm   1640 mm   2205 mm   1640 mm   2205 mm   15.20 % / 11 %   Electric   7.20 kW   15.20 % / 11 %   Electric   7.20 kW   15 kW   DIN 43531 C   48 V / 620 Ah   920 kg		
600 mm 306 mm 1420 mm 4150 kg 4150 kg 4150 kg 4150 kg 4150 kg 4150 kg 4150 kg 1128 mm 122 230 x 105 1 / 2 0 mm 1128 mm 128 mm 128 mm 1077 mm 2485 mm 1270 m		
306 mm   1420 mm   4150 kg   4150 kg   Vulkollan   1 x 355 x 155   2 x 230 x 105   1 / 2   0 mm   128 mm   128 mm   1270 mm   1270 mm   1270 mm   1270 mm   1270 mm   1280 mm / 697 mm   316 mm / 697 mm   2820 mm   1640 mm   2205 mm   1640 mm   2205 mm   1640 mm   2205 mm   15.20 % / 11 %   Electric   7.20 kW   15.20 % / 11 %   Electric   7.20 kW   15 kW   DIN 43531 C   48 V / 620 Ah   920 kg   Electronic		-
1420 mm   4150 kg   Vulkollan   1 x 355 x 155   2 x 230 x 105   1 / 2   0 mm   1 / 2   0 mm   1128 mm   2485 mm   1220 mm   1270 mm   1280 mm / 697 mm   2820 mm   1640 mm   2205 mm   1640 mm   2205 mm   1640 mm   0.52 m/s / 0.50 m/s   0.20 m/s / 0.20 m/s   15.20 % / 11 %   Electric   7.20 kW   15 kW   DIN 43531 C   48 V / 620 Ah   920 kg		
4150 kg   Vulkollan   1 x 355 x 155   2 x 230 x 105   1 / 2   0 mm   128 mm   1200 mm   1335 mm   1270 mm   1270 mm   1280 mm / 697 mm   1316 mm / 697 mm   1640 mm   2820 mm   1640 mm   2205 mm   1640 mm   2205 mm   1640 mm   0.52 m/s / 0.50 m/s   0.52 m/s / 0.50 m/s   0.20 m/s / 0.20 m/s   15.20 % / 11 %   Electric   7.20 kW   15 kW   DIN 43531 C   48 V / 620 Ah   920 kg   Electronic   25 l/min		
Vulkollan     1 x 355 x 155     2 x 230 x 105     1 / 2     0 mm     1 / 2     0 mm     1128 mm     1128 mm     1077 mm     2485 mm     1335 mm     1270 mm     140 mm x 100 mm / 1150 mm     2A     903 mm     316 mm / 697 mm     2820 mm     1640 mm     2205 mm     12205 mm     14.30 km/h / 14.50 km/h     0.47 m/s / 0.57 m/s     0.52 m/s / 0.50 m/s     0.20 m/s / 0.20 m/s     15.20 % / 11 %     Electric     7.20 kW     15 kW     DIN 43531 C     48 V / 620 Ah     920 kg		1420 mm
Vulkollan     1 x 355 x 155     2 x 230 x 105     1 / 2     0 mm     1 / 2     0 mm     1128 mm     1128 mm     1077 mm     2485 mm     1335 mm     1270 mm     140 mm x 100 mm / 1150 mm     2A     903 mm     316 mm / 697 mm     2820 mm     1640 mm     2205 mm     12205 mm     14.30 km/h / 14.50 km/h     0.47 m/s / 0.57 m/s     0.52 m/s / 0.50 m/s     0.20 m/s / 0.20 m/s     15.20 % / 11 %     Electric     7.20 kW     15 kW     DIN 43531 C     48 V / 620 Ah     920 kg		
1 x 355 x 155   2 x 230 x 105   1 / 2   0 mm   1128 mm   2485 mm   1335 mm   1270 mm   12820 mm   12820 mm   1640 mm   2205 mm   14.30 km/h / 14.50 km/h   0.47 m/s / 0.67 m/s   0.52 m/s / 0.50 m/s   0.20 m/s / 0.20 m/s   15.20 % / 11 %   Electric   7.20 kW   15 kW   DIN 43531 C   48 V / 620 Ah   920 kg   Electronic   25 l		4150 kg
1 x 355 x 155   2 x 230 x 105   1 / 2   0 mm   1128 mm   2485 mm   1335 mm   1270 mm   12820 mm   12820 mm   1640 mm   2205 mm   14.30 km/h / 14.50 km/h   0.47 m/s / 0.67 m/s   0.52 m/s / 0.50 m/s   0.20 m/s / 0.20 m/s   15.20 % / 11 %   Electric   7.20 kW   15 kW   DIN 43531 C   48 V / 620 Ah   920 kg   Electronic   25 l		
2 x 230 x 105 1 / 2 0 mm 1 28 mm 1 128 mm 1 128 mm 1 245 mm 1 245 mm 1 335 mm 1 270 mm 1 40 mm x 100 mm / 1150 mm 2 A 9 03 mm 3 16 mm / 697 mm 3 16 mm / 697 mm 3 16 mm / 697 mm 2 758 mm 2 820 mm 1 640 mm 2 758 mm 2 820 mm 1 640 mm 2 205 mm 1 640 mm 2 7.50 km/h 0.47 m/s / 0.67 m/s 0.52 m/s / 0.50 m/s 0.20 m/s / 0.20 m/s 1 5.20 % / 11 % Electric 7.20 kW 1 5 kW D IN 43531 C 48 V / 620 Ah 920 kg Electronic 2 5 l/min		
1 / 2 0 mm 1128 mm 1128 mm 1128 mm 1128 mm 2485 mm 1335 mm 1335 mm 1270 mm 1270 mm 1270 mm 1270 mm 1270 mm 1270 mm 316 mm / 697 mm 316 mm / 697 mm 2758 mm 2820 mm 1640 mm 22758 mm 2820 mm 1640 mm 2205 mm 1700 mm 1700 mm 2205 mm 2200 mm 1700 mm 2205 mm 2200 mm 1640 mm 2205 mm 1640 mm 2000 mm 1640 mm 16		
0 mm 1128 mm 1128 mm 1077 mm 2485 mm 1335 mm 1335 mm 1270 mm 140 mm x 100 mm / 1150 mm 2A 903 mm 20 m		
1128 mm   1077 mm   2485 mm   1335 mm   1270 mm   1270 mm   1270 mm   1270 mm   2A   903 mm   316 mm / 697 mm   2758 mm   2820 mm   1640 mm   2205 mm   2205 mm   0.52 m/s / 0.67 m/s   0.52 m/s / 0.50 m/s   0.52 m/s / 0.20 m/s   15.20 % / 11 %   Electric   7.20 kW   15 kW   DIN 43531 C   48 V / 620 Ah   920 kg		
1077 mm   2485 mm   1335 mm   1270 mm   1270 mm   40 mm x 100 mm / 1150 mm   2A   903 mm   316 mm / 697 mm   70 mm   2758 mm   2820 mm   1640 mm   2205 mm   2205 mm   0.52 m/s / 0.67 m/s   0.52 m/s / 0.50 m/s   0.20 m/s / 0.20 m/s   15.20 % / 11 %   Electric   7.20 kW   15 kW   DIN 43531 C   48 V / 620 Ah   920 kg		
2485 mm   1335 mm   1270 mm   1270 mm / 1150 mm   2A   903 mm   316 mm / 697 mm   70 mm   2758 mm   2820 mm   14.00 mm / 14.50 km/h   2205 mm   2205 mm   0.52 m/s / 0.67 m/s   0.52 m/s / 0.50 m/s   0.20 m/s / 0.20 m/s   15.20 % / 11 %   Electric   7.20 kW   15 kW   DIN 43531 C   48 V / 620 Ah   920 kg   Electronic   25 l/min		1128 mm
2485 mm   1335 mm   1270 mm   1270 mm / 1150 mm   2A   903 mm   316 mm / 697 mm   70 mm   2758 mm   2820 mm   14.00 mm / 14.50 km/h   2205 mm   2205 mm   0.52 m/s / 0.67 m/s   0.52 m/s / 0.50 m/s   0.20 m/s / 0.20 m/s   15.20 % / 11 %   Electric   7.20 kW   15 kW   DIN 43531 C   48 V / 620 Ah   920 kg   Electronic   25 l/min		
1335 mm     1270 mm     1270 mm     2A     903 mm     316 mm / 697 mm     70 mm     2758 mm     2820 mm     1640 mm     2205 mm     0.52 m/s / 0.67 m/s     0.52 m/s / 0.50 m/s     0.20 m/s / 0.20 m/s     15.20 % / 11 %     Electric     7.20 kW     15 kW     DIN 43531 C     48 V / 620 Ah     920 kg		
1270 mm     40 mm x 100 mm / 1150 mm     2A     903 mm     316 mm / 697 mm     70 mm     2758 mm     2820 mm     1640 mm     2205 mm     1640 mm     2205 mm     0.52 m/s / 0.57 m/s     0.52 m/s / 0.50 m/s     0.20 m/s / 0.20 m/s     15.20 % / 11 %     Electric     7.20 kW     15 kW     DIN 43531 C     48 V / 620 Ah     920 kg		
40 mm x 100 mm / 1150 mm   2A   903 mm   316 mm / 697 mm   316 mm / 697 mm   2758 mm   2820 mm   1640 mm   2205 mm   1640 mm   2205 mm   0.52 m/s / 0.50 m/s   0.52 m/s / 0.50 m/s   0.20 m/s / 0.20 m/s   15.20 % / 11 %   Electric   7.20 kW   15 kW   DIN 43531 C   48 V / 620 Ah   920 kg   Electronic   25 l/min		
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903 mm 316 mm / 697 mm 70 mm 2758 mm 2758 mm 2820 mm 1640 mm 2820 mm 1640 mm 2820 mm 1640 mm 2820 mm 1640 mm 2005 mm 1640 mm 1640 mm 1640 mm 2005 mm 1640 mm	1	
316 mm / 697 mm 70 mm 2758 mm 2820 mm 2820 mm 1640 mm 2205 mm 14.30 km/h / 14.50 km/h 0.47 m/s / 0.67 m/s 0.52 m/s / 0.50 m/s 0.20 m/s / 0.20 m/s 15.20 % / 11 % Electric 7.20 kW 15 kW 15 kW DIN 43531 C 48 V / 620 Ah 920 kg Electronic 25 l/min		
70 mm   2758 mm   2820 mm   1640 mm   2205 mm   2205 mm   14.30 km/h / 14.50 km/h   0.47 m/s / 0.67 m/s   0.52 m/s / 0.50 m/s   0.52 m/s / 0.50 m/s   0.20 m/s / 0.20 m/s   15.20 % / 11 %   Electric   7.20 kW   15 kW   DIN 43531 C   48 V / 620 Ah   920 kg   Electronic   25 l/min		
2758 mm 2820 mm 1640 mm 2205 mm 1640 mm 2205 mm 14.30 km/h / 14.50 km/h 0.47 m/s / 0.67 m/s 0.52 m/s / 0.50 m/s 0.52 m/s / 0.50 m/s 0.20 m/s / 0.20 m/s 15.20 % / 11 % Electric 7.20 kW 15 kW 15 kW 15 kW 15 kW 15 kW 20 kg 20 kg 20 kg		
2820 mm 1640 mm 2205 mm 14.30 km/h / 14.50 km/h 0.47 m/s / 0.67 m/s 0.52 m/s / 0.50 m/s 0.20 m/s / 0.20 m/s 15.20 % / 11 % Electric 7.20 kW 15 kW DIN 43531 C 48 V / 620 Ah 920 kg Electronic 25 l/min		
1640 mm 2205 mm 240 205 mm 250 200 14.30 km/h / 14.50 km/h 0.47 m/s / 0.67 m/s 0.52 m/s / 0.67 m/s 0.52 m/s / 0.67 m/s 0.20 m/s / 0.20 m/s 15.20 % / 11 % Electric 7.20 kW 15 kW 15 kW 15 kW 15 kW 20 Ah 48 V / 620 Ah 920 kg 20 kg		
2205 mm 2005 2005 2005 2005 2005 2007 200		
14.30 km/h / 14.50 km/h 0.47 m/s / 0.67 m/s 0.52 m/s / 0.50 m/s 0.20 m/s / 0.20 m/s 15.20 % / 11 % Electric 7.20 kW 15 kW DIN 43531 C 48 V / 620 Ah 920 kg Electronic 25 l/min		
0.47 m/s / 0.67 m/s 0.52 m/s / 0.50 m/s 0.20 m/s / 0.20 m/s 15.20 % / 11 % Electric 7.20 kW 15 kW DIN 43531 C 48 V / 620 Ah 920 kg Electronic 25 l/min		2205 mm
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15.20 % / 11 % Electric 7.20 kW 15 kW DIN 43531 C 48 V / 620 Ah 920 kg Electronic 25 l/min		
Electric 7.20 kW 15 kW DIN 43531 C 48 V / 620 Ah 920 kg Electronic 25 l/min		
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15 kW DIN 43531 C 48 V / 620 Ah 920 kg Electronic 25 l/min		Electric
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DIN 43531 C 48 V / 620 Ah 920 kg Electronic 25 I/min		
48 V / 620 Ah 920 kg Electronic 25 I/min		
920 kg Electronic 25 I/min		
Electronic 25 I/min		
25 l/min		220 Ky
25 l/min		Electronic
00.00 05		

## ER 16 HD - Dimensional drawing



## Characteristics of masts and residual capacities

Free Lift Triplex (FLT)		FLT 64	FLT 71	FLT 76	FLT 81	FLT 85	FLT 90	FLT 96	FLT 102	FLT 109
α - Mast/fork carriage tilt, forward	۰	3	3	1	1	1	1	1	1	1
β - Mast/fork carriage tilt, backward	۰	1	1	1	1	1	1	1	1	1
h1 - Mast lowered height	mm	2957	3190	3357	3523	3673	3823	4040	4240	440
h2 - Mast free lift	mm	2400	2650	2800	2900	3100	3200	3500	3700	3900
h3 - Mast lifting height	mm	6350	7050	7550	8050	8500	8950	9600	10200	10800
h4 - Mast extended height	mm	6930	7630	8130	8630	9080	9530	10180	10780	11380
Residual capacity with integrated side shift at max heigth	kg	1600	1600	1400	1300	1150	1000	800		



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