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	b11
	Dimensions	
4.8	Seat height/stand height	h7
4.19	Overall length	11
4.20	Length to face of forks	12
4.21	Overall width	b1
4.22	Forks section / width / length	s / e /
4.23	Fork carriage ISO 2328 (class/form) A/B	
4.26	Distance between wheel arms/loading surfaces	b4
4.25.1	Width over forks min. / max.	b5
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	Tuming radius	Wa
4.7	Height of overhead guard (cabin)	h6
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5.1	Travel speed (laden / unladen)	
5.2	Lifting speed (laden / unladen)	
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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	
0.4		

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600 mm       439 mm       439 mm       1448 mm       3190 kg       Vulkollan       1 x 355 x 155       2 x 282 x 105       1 / 2       10       0 mm       11       1130 mm       12       122       131       144       11       130 mm       14       100       11       130 mm       131       132 mm       2       14       15       316 mm / 697 mm       2       70 mm       12       70 mm       131       132 mm       13316 mm / 697 mm       2689 mm       316 mm / 697 mm       2689 mm       316 mm / 697 mm		
Image: First of the second		Metric
Electrical         Seated         Q       1600 kg         600 mm       600 mm         x       439 mm         y       1448 mm         y       11         1 x 355 x 155       2 x 282 x 105         1 x 355 x 155       2 x 282 x 105         11       1130 mm         11       1130 mm         12       2379 mm         21       1229 mm         11       1270 mm         21       229 mm         11       270 mm         22       70 mm         23       316 mm / 697 mm         12       2205 mm         14       40 ms / 14.50 km/h         166       2205 mm         166       2205 mm         14.30 km/h / 14.50 km/h       0.49 m/s / 0.48 m/s         0.20 m/s / 0.20 m/s       8.50 % / 11.10 %		MANITOU
Seated         Q       1600 kg         600 mm       439 mm         y       1448 mm         y       148 y         y       1/2         y       1/2         y       1/2         y       1/2         y       1/2         y       100 mm         y       100 mm         y       100 mm         y       1229 mm         y       11270 mm         y       2689 mm         y       2689 mm         y       2689 mm         y       1668 mm         y       0.49 m/s / 0.80 m/s         y       0.49 m/s / 0.80 m/s         y       0.49 m/s / 0.20 m/s         y       0.49 m/s / 0.20 m/s <td< td=""><td></td><td>ER 16</td></td<>		ER 16
Q       1600 kg         GC       600 mm         xx       439 mm         y       1448 mm         y       128 x 282 x 105         y       1 / 2         y       1 / 2         y       1 / 2         y       100 mm         y       1077 mm         y       1077 mm         y       1229 mm         y       1220 mm         y       1220 mm         y       100 mm / 1150 mm         y       2689 mm         y       2689 mm         y       2689 mm         y       1668 mm         y       0.49 m/s / 0.80 m/s         y       0.49 m/s / 0.80 m/s         y       0.49 m/s / 0.20 m/s         y       0.49 m/s / 0.20 m/s         y       0.20 m/s / 0.20 m/s <t< td=""><td></td><td>Electrical</td></t<>		Electrical
600 mm         xx       439 mm         yx       1448 mm         3190 kg       1448 mm         1448 mm       1448 mm         yx       1448 mm         yx       1448 mm         1448 mm       1448 mm         1448 mm       1448 mm         yx       1448 mm         141       155         1x 355 x 155       2 x 282 x 105         1/2       1/2         10       0 mm         11       1130 mm         11       1130 mm         12       2379 mm         11       1220 mm         12       1229 mm         14       40 mm x 100 mm / 1150 mm         15       316 mm / 697 mm         12       70 mm         14       912 mm         15       316 mm / 697 mm         16       2205 mm         16       2205 mm         16       2205 mm         16       2205 mm         14.30 km/h / 14.50 km/h       0.49 m/s / 0.80 m/s         0.20 m/s / 0.20 m/s / 0.20 m/s       8.50 % / 11.10 %         Electric       7.20 kW         15 kW       DIN 43531 C		Seated
x 439 mm y 1448 mm 3190 kg Vulkollan 1 x 355 x 155 2 x 282 x 105 1 x 355 x 155 2 x 282 x 105 1 / 2 100 0 mm 111 1130 mm 111 1130 mm 111 2379 mm 2 379 mm 2 379 mm 2 379 mm 1 229 mm 1 229 mm 1 229 mm 1 229 mm 1 220 mm 1 20 mm	Q	1600 kg
y 1448 mm 3190 kg 3190 kg Vulkollan 1 x 355 x 155 2 x 282 x 105 1 / 2 10 0 0 mm 11 11 10 0 0 mm 11 11 10 10 10 10 10 10 10 10	с	600 mm
3190 kg         Vulkollan         1 x 355 x 155         2 x 282 x 105         1 / 2         10       0 mm         11       1130 mm         2       2379 mm         2       1229 mm         11       1270 mm         12       2A         94       912 mm         95       316 mm / 697 mm         2       70 mm         12       70 mm         13       2689 mm         14       912 mm         15       316 mm / 697 mm         12       70 mm         13       2205 mm         14.30 km/h / 14.50 km/h       0.49 m/s / 0.80 m/s         14.30 km/h / 14.50 km/h       0.49 m/s / 0.20 m/s         14.30 km/h / 14.50 km/h       0.20 m/s / 0.20 m/s         14.30 km/h / 14.50 km/h       0.20 m/s         15       KW       0.20 m/s / 0.20 m/s         164       7.20 kW       15 kW         15       15 kW       10 N 43531 C         48 V / 455 Ah       735 kg       25 l/min	x	439 mm
Vulkollan           1 x 355 x 155           2 x 282 x 105           1 / 2           10         0 mm           11         1130 mm           12         2379 mm           2         1229 mm           11         2379 mm           2         1229 mm           11         200 mm x 100 mm / 1150 mm           2         200 mm x 100 mm / 1150 mm           2         70 mm           2         70 mm           12         70 mm           12         70 mm           12         70 mm           12         70 mm           14         1668 mm           166         2205 mm           14         1668 mm           16         2205 mm           1         14.30 km/h / 14.50 km/h           10.49 m/s / 0.48 m/s         0.20 m/s           0.20 m/s / 0.20 m/s         8.50 % / 11.10 %           Electric         7.20 kW           15 kW         DIN 43531 C           48 V / 455 Ah <td>у</td> <td>1448 mm</td>	у	1448 mm
Vulkollan           1 x 355 x 155           2 x 282 x 105           1 / 2           10         0 mm           11         1130 mm           12         2379 mm           2         1229 mm           11         2379 mm           2         1229 mm           11         200 mm x 100 mm / 1150 mm           2         200 mm x 100 mm / 1150 mm           2         70 mm           2         70 mm           12         70 mm           12         70 mm           12         70 mm           12         70 mm           14         1668 mm           166         2205 mm           14         1668 mm           16         2205 mm           1         14.30 km/h / 14.50 km/h           10.49 m/s / 0.48 m/s         0.20 m/s           0.20 m/s / 0.20 m/s         8.50 % / 11.10 %           Electric         7.20 kW           15 kW         DIN 43531 C           48 V / 455 Ah <td></td> <td></td>		
1 x 355 x 155         2 x 282 x 105         1 / 2         10       0 mm         11       1130 mm         11       1130 mm         11       1130 mm         12       1077 mm         12       12379 mm         2       1229 mm         11       1270 mm         2       1229 mm         11       1270 mm         2       316 mm / 697 mm         2       70 mm         2       70 mm         2       70 mm         12       70 mm         1316 mm / 697 mm         14       1668 mm         15       316 mm / 697 mm         16       2205 mm         14       1668 mm         16       2205 mm         14       0.49 m/s / 0.48 m/s         0.20 m/s / 0.20 m/s       0.8.50 % / 11.10 %         Electric       7.20 kW         15 kW       DIN 43531 C         48 V / 465 Ah       735 kg         Electronic       25 l/mi		3190 kg
1 x 355 x 155         2 x 282 x 105         1 / 2         10       0 mm         11       1130 mm         11       1130 mm         11       1130 mm         12       1077 mm         12       12379 mm         2       1229 mm         11       1270 mm         2       1229 mm         11       1270 mm         2       316 mm / 697 mm         2       70 mm         2       70 mm         2       70 mm         12       70 mm         1316 mm / 697 mm         14       1668 mm         15       316 mm / 697 mm         16       2205 mm         14       1668 mm         16       2205 mm         14       0.49 m/s / 0.48 m/s         0.20 m/s / 0.20 m/s       0.8.50 % / 11.10 %         Electric       7.20 kW         15 kW       DIN 43531 C         48 V / 465 Ah       735 kg         Electronic       25 l/mi		
2 x 282 x 105         1 / 2         10       0 mm         11       1130 mm         11       1130 mm         11       1130 mm         12       2379 mm         2       1229 mm         11       1270 mm         2       1229 mm         11       1270 mm         2       316 mm / 1150 mm         2       70 mm         2       2689 mm         51       2728 mm         316 mm / 697 mm       2689 mm         51       2205 mm         316       0.49 m/s / 0.80 m/s         0.49 m/s / 0.80 m/s       0.20 m/s         0.20 m/s / 0.20 m/s       8.50 % / 11.10 %         Electric       7.20 kW         15 kW       DIN 43531 C         48 V / 465 Ah       735 kg         Electronic       25 l/min		Vulkollan
1 / 2         10       0 mm         11       1130 mm         11       1130 mm         17       1077 mm         1       2379 mm         2       1229 mm         11       1270 mm         2       1229 mm         11       1270 mm         2       40 mm x 100 mm / 1150 mm         2       316 mm / 697 mm         2       70 mm         2       70 mm         2       2689 mm         55       316 mm / 697 mm         56       316 mm / 697 mm         57       70 mm         58       316 mm / 697 mm         597       70 mm         50       316 mm / 697 mm         51       2728 mm         70 m       2689 mm         51       2205 mm         6       2205 mm         6       2205 mm         6       0.20 m/s / 0.80 m/s         0.20 m/s / 0.20 m/s       8.50 % / 11.10 %         6       7.20 kW       15 kW         101N 43531 C       48 V / 465 Ah         735 kg       Electronic         25 l/min       25 l/min		1 x 355 x 155
10       0 mm         11       1130 mm         11       1130 mm         17       1077 mm         1       2379 mm         2       1229 mm         11       1270 mm         2       1229 mm         11       1270 mm         2       40 mm x 100 mm / 1150 mm         2A       24         912 mm       20         70 mm       2689 mm         12       70 mm         2       2205 mm         166       2205 mm         166       2205 mm         166       2205 mm         166       2205 mm         167       14.30 km/h / 14.50 km/h         168       0.49 m/s / 0.80 m/s         0.49 m/s / 0.80 m/s       0.49 m/s / 0.80 m/s         0.49 m/s / 0.80 m/s       0.20 m/s / 0.20 m/s         8.50 % / 11.10 %       Electric         15 kW       15 kW         15 kW       15 kW         16       735 kg         2       735 kg		2 x 282 x 105
11       1130 mm         17       1077 mm         1       2379 mm         2       1229 mm         1       1270 mm         2       1229 mm         11       1270 mm         2       40 mm x 100 mm / 1150 mm         2A       912 mm         55       316 mm / 697 mm         12       70 mm         12       70 mm         55       316 mm / 697 mm         12       70 mm         56       316 mm / 697 mm         12       70 mm         51       2205 mm         6       2200 m/s / 0.80 m/s         6       0.49 m/s / 0.48 m/s         0.20 m/s / 0.20 m/s       8.50 % / 11.10 %         8       50 % / 11.10 %         9       15 kW         10 K43531 C       48 V / 465 Ah         735 kg       15 l/min		1 / 2
1077 mm         11       2379 mm         2       1229 mm         11       1270 mm         1       1270 mm         1       1270 mm         2A       2A         14       912 mm         15       316 mm / 697 mm         12       70 mm         12       70 mm         12       70 mm         14       912 mm         15       316 mm / 697 mm         12       70 mm         14       2689 mm         15       2055 mm         166       2205 mm         166       2205 mm         166       2205 mm         14.30 km/h / 14.50 km/h       0.49 m/s / 0.80 m/s         0.49 m/s / 0.80 m/s       0.20 m/s / 0.20 m/s         16       2.20 m/s / 0.20 m/s         16       2.20 m/s / 0.20 m/s         17.20 kW       15 kW         15 kW       15 kW         10 N 43531 C       48 V / 465 Ah         735 kg       1000000000000000000000000000000000000	10	0 mm
1         2379 mm           2         1229 mm           1         1270 mm           1         1270 mm           2A         2A           912 mm         2A           913 mm / 697 mm         2689 mm           12         70 mm           2689 mm         2689 mm           16         2205 mm           16         2205 mm           14.30 km/h / 14.50 km/h         0.49 m/s / 0.48 m/s           0.49 m/s / 0.48 m/s         0.20 m/s           0.20 m/s / 0.20 m/s         8.50 % / 11.10 %           Electric         7.20 kW           15 kW         DIN 43531 C           48 V / 465 Ah         735 kg           Electronic         25 l/min	11	1130 mm
1         2379 mm           2         1229 mm           1         1270 mm           1         1270 mm           2A         2A           912 mm         2A           913 mm / 697 mm         2689 mm           12         70 mm           2689 mm         2689 mm           16         2205 mm           16         2205 mm           14.30 km/h / 14.50 km/h         0.49 m/s / 0.48 m/s           0.49 m/s / 0.48 m/s         0.20 m/s           0.20 m/s / 0.20 m/s         8.50 % / 11.10 %           Electric         7.20 kW           15 kW         DIN 43531 C           48 V / 465 Ah         735 kg           Electronic         25 l/min		
2         1229 mm           11         1270 mm           12         2A           2A         912 mm           15         316 mm / 697 mm           12         70 mm           12         70 mm           168         22689 mm           164         2205 mm           165         14.30 km/h / 14.50 km/h           166         2205 mm           14.30 km/h / 14.50 km/h         0.49 m/s / 0.48 m/s           164         0.20 m/s / 0.20 m/s           165         8.50 % / 11.10 %           166         7.20 kW           15 kW         15 kW           16         735 kg           16         25 l/min	17	
1       1270 mm         4       1270 mm / 1150 mm         2A       2A         912 mm       316 mm / 697 mm         15       316 mm / 697 mm         12       70 mm         2689 mm       2689 mm         st       2728 mm         /a       1668 mm         16       2205 mm         14.30 km/h / 14.50 km/h       0.49 m/s / 0.80 m/s         0.49 m/s / 0.48 m/s       0.20 m/s / 0.20 m/s         16       2.205 mm         14.30 km/h / 14.50 km/h       0.49 m/s / 0.48 m/s         0.20 m/s / 0.20 m/s / 0.20 m/s       8.50 % / 11.10 %         Electric       7.20 kW         15 kW       DIN 43531 C         48 V / 465 Ah       735 kg         Electronic       25 l/min	1	
e / I 40 mm x 100 mm / 1150 mm 2A 2A 4 912 mm 55 316 mm / 697 mm 55 70 mm 2689 mm 32 2689 mm 34 3 3 4 3 3 5 3 5 3 5 3 5 3 5 3 5 3 5	2	
2A           912 mm           55         316 mm / 697 mm           55         316 mm / 697 mm           70 mm         2689 mm           st         2728 mm           /a         1668 mm           /b         2205 mm           /b         2205 mm           /b         2205 mm           /b         200 m/s / 0.80 m/s           /b         0.49 m/s / 0.80 m/s           /b         0.20 m/s / 0.20 m/s           /b         0.20 m/s / 0.20 m/s           /b         Electric           /b         7.20 kW           /b         15 kW           DIN 43531 C         48 V / 465 Ah           735 kg         Electronic           25 l/min         25 l/min	p1	
94     912 mm       95     316 mm / 697 mm       12     70 mm       2689 mm     2689 mm       st     2728 mm       166     2205 mm       166     2205 mm       166     2205 mm       14.30 km/h / 14.50 km/h       14.30 km/h / 14.50 km/h       0.49 m/s / 0.80 m/s       0.20 m/s / 0.20 m/s       8.50 % / 11.10 %       Electric       7.20 kW       15 kW       DIN 43531 C       48 V / 465 Ah       735 kg       Electronic       25 l/min	e / I	
316 mm / 697 mm       12     70 mm       2689 mm     2689 mm       st     2728 mm       /a     1668 mm       16     2205 mm       1     30 km/h / 14.50 km/h       1     0.49 m/s / 0.80 m/s       0.49 m/s / 0.80 m/s     0.20 m/s       0.20 m/s / 0.20 m/s     8.50 % / 11.10 %       Electric     7.20 kW       15 kW     DIN 43531 C       48 V / 465 Ah     735 kg       Electronic     25 l/min		
12 70 mm 2689 mm st 2689 mm st 2728 mm 4a 1668 mm 166 2205 mm 4 14.30 km/h / 14.50 km/h 0.49 m/s / 0.80 m/s 14.30 km/h / 14.50 km/h 0.49 m/s / 0.80 m/s 10.00 m/s / 0.80 m/s 10.00 m/s / 0.80 m/s 10.00 m/s / 0.80 m/s 10.00 m/s 10		
2689 mm       st     2728 mm       //a     1668 mm       //a     1668 mm       //a     2205 mm       //a     14.30 km/h / 14.50 km/h       //a     0.49 m/s / 0.80 m/s       //a     0.49 m/s / 0.80 m/s       //a     0.20 m/s / 0.20 m/s       //a     8.50 % / 11.10 %       //a     7.20 kW       //a     15 kW       //a     15 kW       //a     7.35 kg       //a     65 Ah       //a     735 kg		
st 2728 mm /a 2728 mm /a 1668 mm /a 2205 mm /a 14.30 km/h / 14.50 km/h 0.49 m/s / 0.80 m/s 0.49 m/s / 0.80 m/s 0.20 m/s / 0.80 m/s 0.20 m/s / 0.80 m/s 0.20 m/s / 0.80 m/s 15 kW 2000 m/s / 0.20 m/s 15 kW 15	n2	
Va         1668 mm           6         2205 mm           6         2205 mm           14.30 km/h / 14.50 km/h         0.49 m/s / 0.80 m/s           0.49 m/s / 0.80 m/s         0.49 m/s / 0.48 m/s           0.20 m/s / 0.20 m/s         0.20 m/s / 0.20 m/s           200 m/s / 0.20 m/s         0.20 m/s           201 m/s         0.20 m/s           202 m/s / 0.20 m/s         0.20 m/s           202 m/s / 0.20 m/s         0.20 m/s           203 m/s         0.20 m/s           204 m/s         0.20 m/s           205 m/s         0.20 m/s           204 m/s         0.20 m/s           205 m/s         0.20 m/s           204 m/s         0.20 m/s           205 m/s         0.20 m/s           205 m/s         0.20 m/s           205 m/s         0.20 m/s           204 m/s         0.20 m/s           205 m/s         0.20 m/s           205 m/s         0.20 m/s		
16     2205 mm       14.30 km/h / 14.50 km/h       0.49 m/s / 0.80 m/s       0.49 m/s / 0.80 m/s       0.20 m/s / 0.20 m/s       0.20 m/s / 0.20 m/s       8.50 % / 11.10 %       Electric       7.20 kW       15 kW       DIN 43531 C       48 V / 465 Ah       735 kg       Electronic       25 l/min		
14.30 km/h / 14.50 km/h 0.49 m/s / 0.80 m/s 0.49 m/s / 0.48 m/s 0.20 m/s / 0.20 m/s 8.50 % / 11.10 % Electric 7.20 kW 15 kW DIN 43531 C 48 V / 465 Ah 735 kg Electronic 25 l/min		
0.49 m/s / 0.80 m/s 0.49 m/s / 0.48 m/s 0.20 m/s / 0.20 m/s 8.50 % / 11.10 % Electric 7.20 kW 15 kW DIN 43531 C 48 V / 465 Ah 735 kg Electronic 25 l/min	16	2205 mm
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0.49 m/s / 0.48 m/s 0.20 m/s / 0.20 m/s 8.50 % / 11.10 % Electric 7.20 kW 15 kW DIN 43531 C 48 V / 465 Ah 735 kg Electronic 25 l/min		
0.20 m/s / 0.20 m/s 8.50 % / 11.10 % Electric 7.20 kW 15 kW DIN 43531 C 48 V / 465 Ah 735 kg Electronic 25 l/min		
8.50 % / 11.10 % Electric 7.20 kW 15 kW DIN 43531 C 48 V / 465 Ah 735 kg Electronic 25 l/min		
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7.20 kW 15 kW DIN 43531 C 48 V / 465 Ah 735 kg Electronic 25 l/min		
15 kW DIN 43531 C 48 V / 465 Ah 735 kg Electronic 25 I/min		Electric
15 kW DIN 43531 C 48 V / 465 Ah 735 kg Electronic 25 I/min		7.20 kW
DIN 43531 C 48 V / 455 Ah 735 kg Electronic 25 I/min		
48 V / 465 Ah 735 kg Electronic 25 l/min		
735 kg Electronic 25 I/min		
Electronic 25 l/min		
25 l/min		, 00 Kg
25 l/min		Electronic
00.00 45		
		00000 02

## ER 16 - Dimensional drawing



## Characteristics of masts and residual capacities

Free Lift Triplex (FLT)		FLT 48	FLT 54	FLT 63	FLT 68	FLT 73	FLT 80	FLT 85	FLT 90
α - Mast/fork carriage tilt, forward °		3	3	3	3	3	3	3	3
β - Mast/fork carriage tilt, backward		1	1	1	1	1	1	1	1
h1 - Mast lowered height	mm	2140	2340	2640	2790	2957	3190	3673	3823
h2 - Mast free lift	mm	1600	1800	1900	2100	2400	2650	3100	3200
h3 - Mast lifting height	mm	4800	5400	6300	6750	7250	7950	8450	8950
h4 - Mast extended height	mm	5380	5980	6880	7330	7830	8530	9080	9530
Residual capacity with integrated kg side shift at max heigth		1600	1600	1400	1100				



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