

Order picking and narrow aisle truck with 80 V SEM-Technology



EK 20

Load capacity	Q	2.000 kg
Load centre	C	600 mm
Power supply		Elektro
Operator type		Stand-on/Rider seated
Tyres		Polyurethan
Number of wheels, drive/load side (x = driven)		1x/2
Driver`s cabin height	h8	400 mm
Lift height	h3G + s	see table
Supplementary lift	h2	1.500 mm
Picking height	h9	h6 - 400 mm
Fork dimensions		40/120 mm
Fork length		800 - 1.300 mm
Width across forks	B3	240 - 795 mm
Height of fork, low position	s	80 mm
Overall length with fork carrier width 850 mm	L	3.740 - 3.840 mm
Overall length with fork carrier width 580 mm	L	3.605 - 3.705 mm
Support boom length (standard)	M1S	550 - 650 mm
Overhang	X/X1	360/270 mm
Overall width	B	1200 - 1.700 mm
Height of mast retracted	h1	see table
Height of cabin extended	h6	see table
Height of mast extended	h4	see table
Turning radius	Wa	2.445 mm
Aisle width	Ast	1.400 - 2.000 mm
Travel speed laden/unladen		10,0/10,0 km/h
Lift speed laden/unladen		0,32/0,42 m/s*
Lowering speed laden/unladen		0,40/0,40 m/s
Reach speed laden/unladen (adjustable)		0,20/0,20 m/s
Weight including battery		7.400 - 8.800 kg
Axle load with load, drive side/load side		2.150/7.250; 2.550/8.250 kg
Axle load without load, drive side/load side		3.000/4.400; 3.400/5.400 kg
Tyres, number, drive side/load side		1/2
Tyres dimension drive side		381/152 mm
Tyres dimension load side		377/178 mm
Wheel base	y	2.140 mm
Ground clearance	m2	40 mm
Operating brake		electro-magnetic
Parking brake		dead man`s brake
Battery		DIN 43536 A
Battery voltage/capacity		80 Volt/750 Ah**
Battery weight		1.863 kg
Drive motor		5,0 kW
Lift motor		18 kW*
Drive/lift control		electr. Tr.-pulses./infinitely var.

* Higher lift speeds on request

** With longer Chassis up to 900 Ah

E&OE

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Table 1: Build and lift heights of duplex lift mast with swivel fork

Total lift height	Lift height	Build height	Supplem. lift	Extended height lift mast	Extended height cabin
h3G + s	h3 + s	h1	h2	h4	h6
mm	mm	mm	mm	mm	mm
5.000	3.500	3.170	1.500	4.880	5.830
5.500	4.000	3.420	1.500	5.380	6.330
6.000	4.500	3.670	1.500	5.880	6.830
6.500	5.000	3.920	1.500	6.380	7.330
7.000	5.500	4.170	1.500	6.880	7.830
7.500	6.000	4.420	1.500	7.380	8.330
8.000	6.500	4.670	1.500	7.880	8.830
8.500	7.000	4.920	1.500	8.380	9.330
9.000	7.500	5.170	1.500	8.880	9.830
9.500	8.000	5.420	1.500	9.380	10.330
10.000	8.500	5.670	1.500	9.880	10.830
10.500	9.000	5.920	1.500	10.380	11.330
11.000	9.500	6.170	1.500	10.880	11.830
11.500	10.000	6.420	1.500	11.380	12.330
12.000	10.500	6.670	1.500	11.880	12.830
12.500	11.000	6.920	1.500	12.380	13.330
13.000	11.500	7.170	1.500	12.880	13.830

Other lift heights on request

Table 2: Aisle width depending on load/pallet dimensions

Load dimension		Distance between loads	Boom length	Truck length	Transfer aisle width including 200 mm safety margin
depth	width				
b	d	Ast	M1S	L	
mm	mm	mm	mm	mm	mm
1.240	835	1.750	550	3.740	4.300
1.200	800	1.700	550	3.740	4.300
1.200	1.000	1.700	550	3.740	4.300
1.200	1.200	1.700	650	3.840	4.500
1.000	800	1.500	550	3.740	4.300
1.000	1.000	1.500	550	3.740	4.300
1.000	1.200	1.500	650	3.840	4.400
800	800	1.400	550	3.740	4.300
800	1.000	1.400	550	3.740	4.300
800	1.200	1.400	650	3.840	4.400
835	1.240	1.400	650	3.840	4.400

Aisle width for mechanical guidance and duplex mast