

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



EK 15

Load capacity	Q	1.500 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	1.700 mm
Picking height	h9	h6 - 400 mm
Fork dimensions		40/120 mm
Fork length		800 - 1.300 mm
Width across forks	B3	505 - 795 mm
Height of fork, low position	s	80 mm
Overall length with fork carrier width 850 mm	L	3.650 - 3.740 - 3.840 mm
Overall length with fork carrier width 580 mm	L	3.515 - 3.605 - 3.705 mm
Support boom length (standard)	M1S	460 - 550 - 650 mm
Overhang	X/X1	360/270 mm
Overall width	B	1.200 - 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		0,36/0,45 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 - 8.300 kg
Axle load with load, drive side/load side		2.490/6.410; 2.745/7.055 kg
Axle load without load, drive side/load side		2.995/4.405; 3.360/4.940 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/ 775 Ah*
Battery weight		1.900 kg
Drive motor		5,0 kW
Lift motor		18,0 kW
Drive/lift control		electr. Tr.-pulses./infinitely var.

* With longer chassis up to 930 Ah

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
5.200	3.500	2.920	1.700	4.630	5.820
5.700	4.000	3.170	1.700	5.130	6.320
6.200	4.500	3.420	1.700	5.630	6.820
6.700	5.000	3.670	1.700	6.130	7.320
7.200	5.500	3.920	1.700	6.630	7.820
7.700	6.000	4.170	1.700	7.130	8.320
8.200	6.500	4.420	1.700	7.630	8.820
8.700	7.000	4.670	1.700	8.130	9.320
9.200	7.500	4.920	1.700	8.630	9.820
9.700	8.000	5.170	1.700	9.130	10.320
10.200	8.500	5.420	1.700	9.630	10.820
10.700	9.000	5.670	1.700	10.130	11.320
11.200	9.500	5.920	1.700	10.630	11.820
11.700	10.000	6.170	1.700	11.130	12.320
12.200	10.500	6.420	1.700	11.630	12.820
12.700	11.000	6.670	1.700	12.130	13.320
13.200	11.500	6.920	1.700	12.630	13.820
13.700	12.000	7.170	1.700	13.130	14.320

Other lift heights on request

Table 2: Build and lift heights of triplex 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
6.950	5.250	3.170	1.700	6.520	7.570
7.700	6.000	3.420	1.700	7.270	8.320
8.450	6.750	3.670	1.700	8.020	9.070
9.200	7.500	3.920	1.700	8.770	9.820
9.950	8.250	4.170	1.700	9.520	10.570
10.700	9.000	4.420	1.700	10.270	11.320
11.450	9.750	4.670	1.700	11.020	12.070
12.200	10.500	4.920	1.700	11.770	12.820
12.950	11.250	5.170	1.700	12.520	13.570
13.700	12.000	5.420	1.700	13.270	14.320

Attention: the overall length with triplex mast is 115 mm longer

Table 3: Aisle width depending on load/pallet dimensions

Load dimension		Distance between loads	Boom length	Truck length	Transfer aisle width including 200 mm
depth	width				
b	d	Ast	M1S	L	
mm	mm	mm	mm	mm	mm
1.240	835	1.700	460	3.650	4.200
1.200	800	1.650	460	3.650	4.200
1.200	1.000	1.650	550	3.740	4.300
1.200	1.200	1.650	650	3.840	4.500
1.000	800	1.450	460	3.650	4.200
1.000	1.000	1.450	550	3.740	4.300
1.000	1.200	1.450	650	3.840	4.400
800	800	1.400	460	3.650	4.200
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