

Order picking and narrow aisle truck with 48 V AC-Technology



EK 12

Load capacity	Q	1.200 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	3.335 - 3.425 - 3.525 mm
Overall length with fork carrier width 580 mm	L	3.200 - 3.290 - 3.390 mm
Support boom length (standard)	M1S	460 - 550 - 650 mm
Overhang	X/X1	355/255 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	2.140 mm
Aisle width	Ast	1.400 -2.000 mm
Travel speed laden/unladen		11,0/11,0 km/h
Lift speed laden/unladen		0,31/0,38 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		4.900 - 6.300 kg
Axle load with load, drive side/load side		1.600/4.500; 2.000/5.500 kg
Axle load without load, drive side/load side		2.100/2.800; 2.500/3.800 kg
Tyres, number, drive side/load side		1/2
Tyres dimension drive side		343/140 mm
Tyres dimension load side		343/140 mm
Wheel base	y	1.840 mm
Ground clearance	m2	40 mm
Operating brake		electro-magnetic
Parking brake		dead man`s brake
Battery		DIN 43531 B
Battery voltage/capacity		48 Volt/930 Ah
Battery weight		1.372 kg
Drive motor		5,0 kW
Lift motor		12,5 kW *
Drive/lift control		electr. AC/ininitely var.

* Higher lift speeds on request

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
4.200	2.500	2.495	1.700	3.705	4.820
4.700	3.000	2.745	1.700	4.205	5.320
5.200	3.500	2.995	1.700	4.705	5.820
5.700	4.000	3.245	1.700	5.205	6.320
6.200	4.500	3.495	1.700	5.705	6.820
6.700	5.000	3.745	1.700	6.205	7.320
7.200	5.500	3.995	1.700	6.705	7.820
7.700	6.000	4.245	1.700	7.205	8.320
8.200	6.500	4.495	1.700	7.705	8.820
8.700	7.000	4.745	1.700	8.205	9.320
9.200	7.500	4.995	1.700	8.705	9.820
9.700	8.000	5.245	1.700	9.205	10.320

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	2.995	1.700	6.440	7.570
7.700	6.000	3.245	1.700	7.190	8.320
8.450	6.750	3.495	1.700	7.940	9.070
9.200	7.500	3.745	1.700	8.690	9.820
9.950	8.250	3.995	1.700	9.440	10.570

Other lift heights on request

Attention: the overall length with triplex mast is 35 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 safety margin
depth	width				
b	d	Ast	M1S	L	
mm	mm	mm	mm	mm	mm
1.240	835	1.700	460	3.335	3.900
1.200	800	1.650	460	3.335	3.900
1.200	1.000	1.650	550	3.425	4.000
1.200	1.200	1.650	650	3.525	4.100
1.000	800	1.450	460	3.335	3.800
1.000	1.000	1.450	550	3.425	3.900
1.000	1.200	1.450	650	3.525	4.000
800	800	1.400	460	3.335	3.800
800	1.000	1.400	550	3.425	3.900
800	1.200	1.400	650	3.525	4.000
835	1.240	1.400	650	3.525	4.000

Reduced truck lengths on request

Aisle width for mechanical guidance and duplex mast