

ORDER PICKING

narrow aisle turret



Technical Data
DC-TECHNOLOGY





ORDER PICKING NARROW AISLE TURRET TRUCK WITH DC-TECHNOLOGY

EK 1100

EK 1200

EK 1300

EK 1350

Load capacity	Q	2425 lbs.	2645 lbs.	2865 lbs.	3000 lbs.
Load center	C	24"	24"	24"	24"
Power supply		Electrical	Electrical	Electrical	Electrical
Operator type		Stand-on/Rider seated	Stand-on/Rider seated	Stand-on/Rider seated	Stand-on/Rider seated
Tires		Polyurethane	Polyurethane	Polyurethane	Polyurethane
Number of wheels, drive/load side (x = driven)		1x/2	1x/2	1x/2	1x/2
Driver's cabin height	h8	15.7"	15.7"	15.7"	15.7"
Lift height	h3G+s	see table	see table	see table	see table
Supplementary lift	h2	66.9"	66.9"	66.9"	66.9"
Picking height	h9	h6 – 15.7"	h6 – 15.7"	h6 – 15.7"	h6 – 15.7"
Fork dimensions		1.6"/4.7"	1.6"/4.7"	1.6"/4.7"	1.6"/4.7"
Fork length		31.5" – 51.2"	31.5" – 51.2"	31.5" – 51.2"	31.5" – 51.2"
Width across forks	B3	19.9" – 31.3"	19.9" – 31.3"	19.9" – 31.3"	19.9" – 31.3"
Height of fork, low position	s	3.1"	3.1"	3.1"	3.1"
Overall length with fork carrier width 33.5"	L	128.9" – 132.5" – 136.4"	131.3" – 134.8" – 138.8"	131.3" – 134.8" – 138.8"	132.9" – 136.4" – 140.4"
Overall length with fork carrier width 22.8"	L	123.6" – 127.2" – 131.1"	126.0" – 129.5" – 133.5"	126.0" – 129.5" – 133.5"	127.6" – 131.1" – 135.0"
Support boom length (standard)	M1S	18.1" – 21.7" – 25.6"	18.1" – 21.7" – 25.6"	18.1" – 21.7" – 25.6"	18.1" – 21.7" – 25.6"
Overhang	X/X1	14.0"/10.0"	14.0"/10.0"	14.0"/10.0"	14.4"/10.0"
Overall width	B	39.4" – 66.9"	47.2" – 66.9"	47.2" – 66.9"	47.2" – 66.9"
Height of mast collapsed	h1	see table	see table	see table	see table
Height of cabin extended	h6	see table	see table	see table	see table
Height of mast extended	h4	see table	see table	see table	see table
Turning radius	Wa	81.9"	84.3"	84.3"	85.4"
Aisle width	Ast	47.2" – 78.7"	55.1" – 78.7"	55.1" – 78.7"	55.1" – 78.7"
Travel speed laden/unladen		6.2 / 6.2 mph	6.2 / 6.2 mph	6.2 / 6.2 mph	6.2 / 6.2 mph
Lift speed laden/unladen		45 / 51 fpm*	61 / 73 fpm*	59 / 73 fpm*	73 / 89 fpm*
Lowering speed laden/unladen		89 / 89 fpm	89 / 89 fpm	89 / 89 fpm	89 / 89 fpm
Reach speed laden/unladen (adjustable)		39 / 39 fpm****	39 / 39 fpm****	39 / 39 fpm****	39 / 39 fpm****
Weight including battery		10,800 – 13,010 lbs.	10,800 – 13,890 lbs.	11,025 – 14,110 lbs.	12,790 – 15,215 lbs.
Axle load with load, drive side/load side	lbs	3,527/9,700; 4,188/11,243	3,527/9,920; 4,409/12,125	3,637/10,030; 4,519/12,345	3,968/11,684; 4,519/13,558
Axle load without load, drive side/load side	lbs	4,629/6,172; 5,291/7,716	4,629/6,172; 5,511/8,377	4,739/6,283; 5,621/8,487	5,291/7,495; 5,952/9,259
Tires, number, drive side/load side		1/2	1/2	1/2	1/2
Tires dimension drive side		13.5"/5.5"	13.5"/5.5"	13.5"/5.5"	13.5"/5.5"
Tires dimension load side		13.5"/5.5"	13.5"/5.5"	13.5"/5.5"	14.8"/7.0"
Wheel base	y	70.1"	72.4"	72.4"	74.0"
Ground clearance	m2	1.6"	1.6"	1.6"	1.6"
Operating brake		electro-magnetic	electro-magnetic	electro-magnetic	electro-magnetic
Parking brake		dead man's brake	dead man's brake	dead man's brake	dead man's brake
Battery		Lead Acid	Lead Acid	Lead Acid	Lead Acid
Battery voltage/capacity		48 Volt/775 Ah**/**	48 Volt/930 Ah**/**	48 Volt/930 Ah**/**	80 Volt/465 Ah***
Battery weight		2,465 lbs.	2,885 lbs.	2,885 lbs.	2,730 lbs.
Drive motor		5,0 kW	5,0 kW	5,0 kW	7,0 kW
Lift motor		12,5 kW*	12,5 kW*	12,5 kW*	21,0 kW*
Drive/lift/steer controls		SEM DC-Controls	SEM DC-Controls	SEM DC-Controls	SEM DC-Controls

*Higher lift speeds on request, **also available in 80 Volt version, ***other capacities on request, **** up to 89 fpm on request.



EK 1500

EK 1500 XL

EK 2000

3300 lbs.	3300 lbs.	4400 lbs.
24"	24"	24"
Electrical	Electrical	Electrical
Stand-on/Rider seated	Stand-on/Rider seated	Stand-on/Rider seated
Polyurethane	Polyurethane	Polyurethane
1x/2	1x/2	1x/2
15.7"	15.7"	15.7"
see table	see table	see table
66.9"	66.9"	59.1"
h6 - 15.7"	h6 - 15.7"	h6 - 15.7"
1.6"/4.7"	1.6"/4.7"	1.6"/4.7"
31.5" - 51.2"	31.5" - 51.2"	31.5" - 51.2"
19.9" - 31.3"	19.9" - 31.3"	9.5" - 31.3"
3.1"	3.1"	3.1"
143.7" - 147.2" - 151.2"	143.7" - 147.2" - 151.2"	147.2" - 151.2"
138.4" - 141.9" - 145.9"	138.4" - 141.9" - 145.9"	141.9" - 145.9"
18.1" - 21.7" - 25.6"	18.1" - 21.7" - 25.6"	21.7" - 25.6"
14.2"/10.6"	14.2"/10.6"	14.2"/10.6"
47.2" - 66.9"	47.2" - 66.9"	47.2" - 66.9"
see table	see table	see table
see table	see table	see table
see table	see table	see table
96.3"	96.3"	96.3"
55.1" - 78.7"	55.1" - 78.7"	55.1" - 78.7"
6.2 / 6.2 mph	6.2 / 6.2 mph	6.2 / 6.2 mph
71 / 89 fpm*	83 / 89 fpm*	63 / 83 fpm*
89 / 89 fpm	89 / 89 fpm	89 / 89 fpm
39 / 39 fpm****	39 / 39 fpm****	39 / 39 fpm****
16,315 - 18,300 lbs.	18,080 - 19,620 lbs.	16,315 - 19,400 lbs.
5,489/14,131; 6,051/15,553	5,996/15,388; 6,415/16,512	4,739/15,983; 5,621/18,187
6,602/9,711; 7,407/10,890	7,231/11,067; 7,848/11,772	6,613/9,700; 7,495/11,904
1/2	1/2	1/2
15.0"/6.0"	15.0"/6.0"	15.0"/6.0"
14.8"/7.0"	14.8"/7.0"	14.8"/7.0"
84.3"	84.3"	84.3"
1.6"	1.6"	1.6"
electro-magnetic	electro-magnetic	electro-magnetic
dead man's brake	dead man's brake	dead man's brake
Lead Acid	Lead Acid	Lead Acid
80 Volt / 775 Ah***	80 Volt / 775 Ah***	80 Volt / 775 Ah***
4,105 lbs.	4,105 lbs.	4,105 lbs.
7,0 kW	7,0 kW	7,0 kW
21,0 kW*	26,0 kW	21,0 kW*
SEM DC-Controls	SEM DC-Controls	SEM DC-Controls

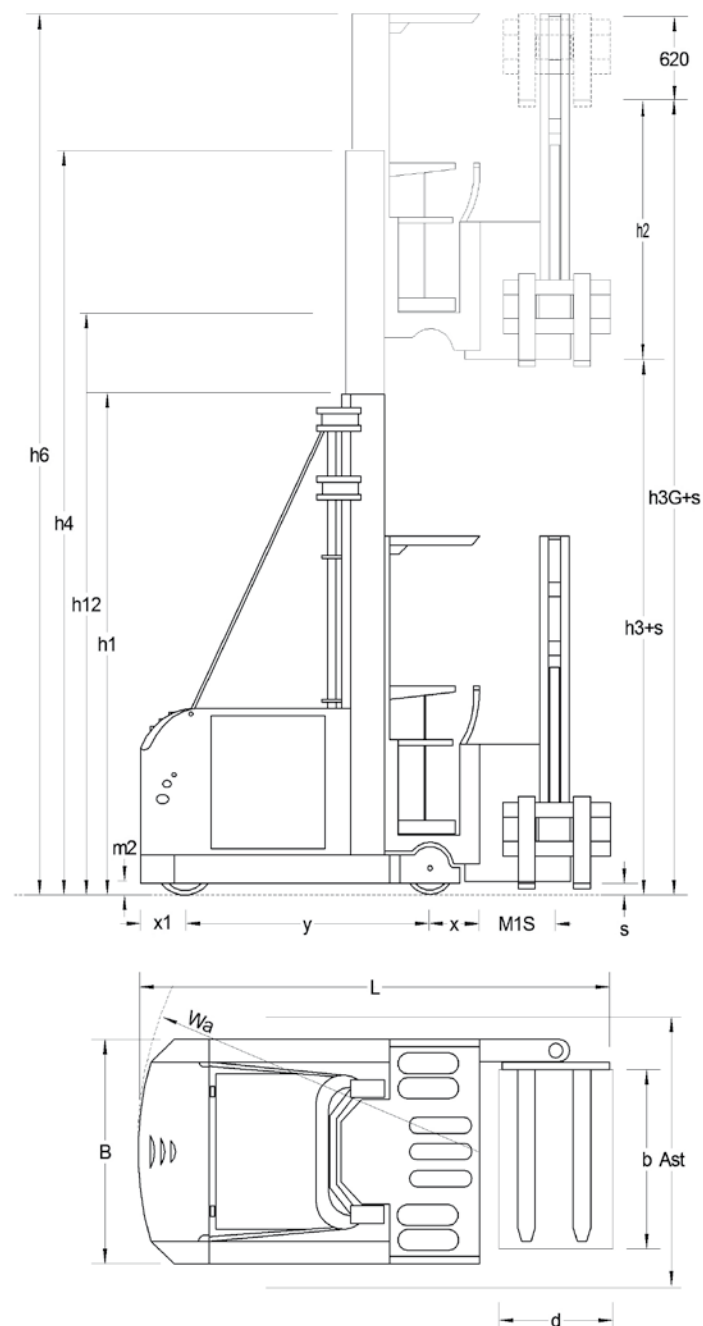


Table 1: Build and lift heights of duplex lift mast with swivel fork, Supplementary lift 66.9" or 90.5"

Total lift height with 66.9" suppl. lift	Total lift height with 90.5" suppl. lift	Cabin lift height	Raised platform height	Extended height cabin**	Collapsed height EK 1100 to 1300 two-stage-mast*	Collapsed height EK 1350/1500 two-stage-mast*	Collapsed height EK 1500 XL two-stage-mast	Collapsed height EK 2000 two-stage-mast***
h3G + s	h3G + s	h3 + s	h12	h6	h1	h1	h1	h1
in	in	in	in	in	in	in	in	in
165.3"	188.9"	98.4"	111.0"	189.8"	98.2"	-	-	-
185.0"	208.6"	118.1"	130.7"	209.4"	108.1"	-	-	-
204.7"	228.3"	137.8"	150.4"	229.1"	117.9"	115.0"	-	124.8"
224.4"	248.0"	157.5"	170.1"	248.8"	127.8"	124.8"	-	134.6"
244.1"	267.7"	177.2"	189.8"	268.5"	137.6"	134.6"	-	144.5"
263.8"	287.4"	196.8"	209.4"	288.2"	147.4"	144.5"	-	154.3"
283.5"	307.1"	216.5"	229.1"	307.9"	157.3"	154.3"	-	164.2"
303.1"	326.8"	236.2"	248.8"	327.6"	167.1"	164.2"	-	174.0"
322.8"	346.4"	255.9"	268.5"	347.2"	177.0"	174.0"	-	183.9"
342.5"	366.1"	275.6"	288.2"	366.9"	186.8"	183.9"	-	193.7"
362.2"	385.8"	295.3"	307.9"	386.6"	196.7"	193.7"	-	203.5"
381.9"	405.5"	315.0"	327.6"	406.3"	206.5"	203.5"	-	213.4"
401.6"	425.2"	334.6"	347.2"	426.0"	-	213.4"	-	223.2"
421.3"	444.9"	354.3"	366.9"	445.7"	-	223.2"	-	233.1"
440.9"	464.6"	374.0"	386.6"	465.4"	-	233.1"	-	242.9"
460.6"	484.2"	393.7"	406.3"	485.0"	-	242.9"	-	252.8"
480.3"	503.9"	413.4"	426.0"	504.7"	-	252.8"	-	262.6"
500.0"	523.6"	433.1"	445.7"	524.4"	-	262.6"	-	272.4"
519.7"	543.3"	452.7"	465.3"	544.1"	-	272.4"	-	282.3"
539.4"	563.0"	472.4"	485.0"	563.8"	-	282.3"	292.1"	-
559.1"	582.7"	492.1"	504.8"	583.5"	-	-	302.0"	-
578.7"	602.4"	511.8"	524.4"	603.1"	-	-	311.8"	-
598.4"	622.0"	531.5"	544.1"	622.8"	-	-	321.7"	-
618.1"	641.8"	551.2"	563.8"	642.5"	-	-	331.5"	-

*EK 1100 maximum collapsed height of 187"; *EK 1350 maximum collapsed height of 242.9"; other collapsed & lift heights on request.

Extended height with optional 90.5" suppl. lift add + 23.6"; *EK 2000 has a reduced total lift height with a supplementary lift of 59.1" ; other heights on request.

Table 2: Build and lift heights of triplex lift mast with swivel fork, Supplementary lift 66.9" or 90.5"

Total lift height with 1700 mm suppl. lift	Total lift height with 2300 mm suppl. lift	Cabin lift height	Raised platform height	Extended height cabin**	Closed height EK 1100 to 1300 three-stage-mast*	Closed height EK 1350/1500 three-stage-mast	Closed height EK 1500 XL three-stage-mast
h3G + s	h3G + s	h3 + s	h6	h6	h1	h1	h1
in	in	in	in	in	in	in	in
214.6"	238.2"	147.6"	160.2"	239.0"	98.2"	-	-
244.1"	267.7"	177.2"	189.8"	268.5"	108.1"	-	-
273.6"	297.2"	206.7"	219.3"	298.0"	117.9"	115.0"	-
303.1"	326.8"	236.2"	248.8"	327.6"	127.8"	124.8"	-
332.7"	356.3"	265.7"	278.3"	357.1"	137.6"	134.6"	-
362.2"	385.8"	295.3"	307.9"	386.6"	147.4"	144.5"	-
391.7"	415.4"	324.8"	337.4"	416.1"	157.3"	154.3"	-
421.3"	444.9"	354.3"	366.9"	445.7"	-	164.2"	-
450.8"	474.4"	383.9"	396.5"	475.2"	-	174.0"	-
480.3"	503.9"	413.4"	426.0"	504.7"	-	183.9"	193.7"
509.8"	533.5"	442.9"	455.5"	534.3"	-	193.7"	203.5"
539.4"	563.0"	472.4"	485.0"	563.8"	-	203.5"	213.4"
568.9"	592.5"	502.0"	514.6"	593.3"	-	213.4"	223.2"
598.4"	622.0"	531.5"	544.1"	622.8"	-	-	233.1"
628.0"	651.6"	561.0"	573.6"	652.4"	-	-	242.9"

*EK 1100 maximum collapsed height of 137.6"; **extended height with optional 90.5" suppl. lift add + 23.6"; other collapsed & lift heights on request.

The overall length with triplex mast: EK 1100/1200/1300 is 1.4" longer; EK 1350/1500 is 4.9" longer; EK 1350 collapsed height > 164" is the same length as the EK 1500.

Table 3: Aisle width depending on load/pallet dimensions

Load dimension		Distance between loads**	Boom length	EK 1100	EK 1200/1300	EK 1350	EK 1500/2000
depth	width			Transfer aisle width*	Transfer aisle width*	Transfer aisle width*	Transfer aisle width*
b	d	Ast	M1S				
in	in	in	in	in	in	in	in
60"	48"	80"	26"	145.0"	145.6"	147.8"	157.8"
48"	32"	66"	18"	136.2"	138.2"	139.8"	149.6"
48"	40"	66"	22"	139.4"	141.7"	142.9"	153.1"
48"	48"	66"	26"	142.9"	145.3"	146.5"	156.7"
40"	32"	58"	18"	133.1"	135.4"	136.6"	146.9"
40"	40"	58"	22"	136.2"	138.6"	140.2"	150.4"
40"	48"	58"	26"	140.2"	142.1"	143.7"	153.9"
32"	32"	55"	18"	132.3"	134.6"	136.2"	146.1"
32"	40"	55"	22"	135.8"	137.8"	139.4"	149.6"
32"	48"	55"	26"	139.4"	141.7"	142.9"	153.5"
48"	60"	68"	32"	155.9"	158.6"	160.1"	169.5"

*Transfer aisle width without load and 22.8" fork carriage width, with mechanical guidance add + 12", with wire guidance add + 32" recommended.

Aisle width for mechanical guidance and duplex mast; Reduced truck lengths on request. ** EK 2000 add + 2"