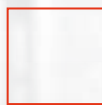
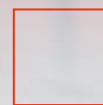
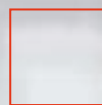


ORDER PICKING

narrow aisle turret



Technical Data
AC-TECHNOLOGY





**ORDER PICKING NARROW AISLE
TURRET TRUCK WITH AC-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 lowered platform 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	74.8"	74.8"	74.8"	74.8"
Picking height	h9	h6 - 15.7"	h6 - 15.7"	h6 - 15.7"	h6 - 15.7"
Clear interior cabin height		83.8"	83.8"	83.8"	83.8"
Fork dimensions (length to suit load)		1.6"/4.7"	1.6"/4.7"	1.6"/4.7"	1.6"/4.7"
Width across forks (on 33.5" fork carriage)	B3	19.9" - 31.3"	19.9" - 31.3"	19.9" - 31.3"	19.9" - 31.3"
Height of fork, lowered 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"	133.9" - 137.4" - 141.3"	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"	128.5" - 132.1" - 136.0"	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 (standard in 1.97" increments)	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"	87.0"	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		6.8 / 6.8 mph	6.8 / 6.8 mph	6.8 / 6.8 mph	6.8 / 6.8 mph
Lift speed laden/unladen		63 / 78 fpm*	61 / 78 fpm*	102 / 110 fpm*	96 / 102 fpm*
Lowering speed laden/unladen (adjustable limits)		89 / 89 fpm	89 / 89 fpm	89 / 89 fpm	89 / 89 fpm
Reach speed laden/unladen (adjustable limits)		89 / 89 fpm	89 / 89 fpm	89 / 89 fpm	89 / 89 fpm
Weight including battery		10,800 - 12,345 lbs.	10,912 - 12,785 lbs.	11,140 - 13,010 lbs.	12,785 - 15,215 lbs.
Axle load with load, drive side/load side	lbs	3,527/9,700; 4,078/10,692	3,637/9,920; 4,188/11,243	3,747/10,250; 4,409/11,463	3,968/11,684; 4,519/13,558
Axle load without load, drive side/load side	lbs	4,629/6,172; 5,291/7,054	4,739/6,172; 5,401/7,385	4,960/6,173; 5,621/7,385	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"	72.6"	75.2"	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**/**	80 Volt/620 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	7,0 kW	7,0 kW
Lift motor		12,5 kW*	12,5 kW*	21,0 kW*	21,0 kW*
Drive/lift/steer controls (brushless motors)		~AC-Controls / infinite variable	~AC-Controls / infinite variable	~AC-Controls / infinite variable	~AC-Controls / infinite variable



EK 1500	EK 1500 XL	EK 2000
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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
74.8"	74.8"	59.1"
h6 - 15.7"	h6 - 15.7"	h6 - 15.7"
83.8"	83.8"	76"
1.6"/4.7"	1.6"/4.7"	1.6"/4.7"
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"	62.9" - 74.8"	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"	70.9" - 82.7"	55.1" - 78.7"
6.8 / 6.8 mph	6.8 / 6.8 mph	6.8 / 6.8 mph
94 / 102 fpm*	83 / 89 fpm*	89 / 106 fpm*
89 / 89 fpm	89 / 89 fpm	89 / 89 fpm
89 / 89 fpm	89 / 89 fpm	39 / 39 fpm
15,655 - 19,200 lbs.	19,620 - 20,725 lbs.	16,315 - 19,620 lbs.
5,070/13,888; 6,503/15,983	6,613/16,314; 6,834/17,195	4,629/16,093; 5,952/18,077
6,393/9,259; 7,826/11,353	7,716/11,904; 8,156/12,566	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*	28,0 kW	28,0 kW*
~AC-Controls / infinite variable	~AC-Controls / infinite variable	~AC-Controls / infinite variable

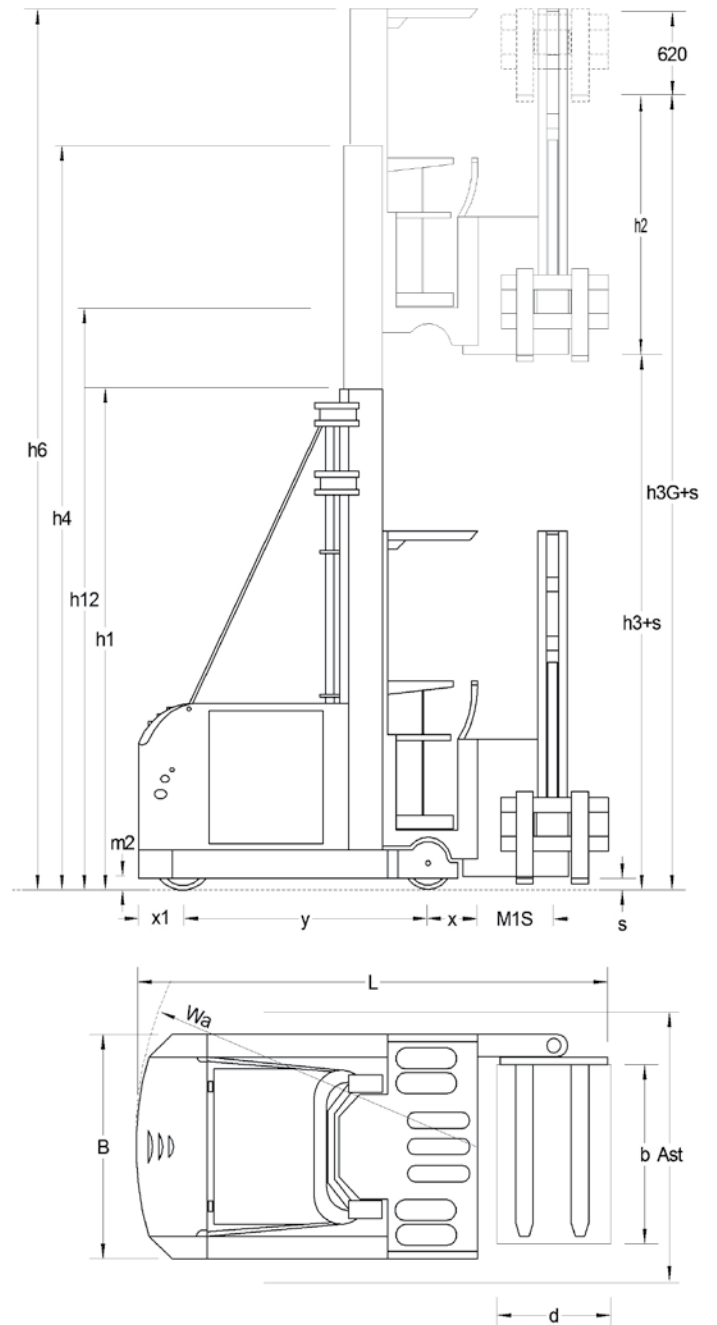


Table 1: Build and lift heights of duplex lift mast with swivel fork, Supplementary lift 74.8" or 90.5"

Total lift height with 74.8" suppl. lift (h2)	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
173.2"	188.9"	98.4"	111.0"	197.6"	102.4"	-	-	-
192.9"	208.6"	118.1"	130.7"	217.3"	108.1"	-	-	-
212.6"	228.3"	137.8"	150.4"	237.0"	117.9"	115.0"	-	124.8"
232.3"	248.0"	157.5"	170.1"	256.7"	127.8"	124.8"	-	134.6"
252.0"	267.7"	177.2"	189.8"	276.4"	137.6"	134.6"	-	144.5"
271.7"	287.4"	196.8"	209.4"	296.1"	147.4"	144.5"	-	154.3"
291.3"	307.1"	216.5"	229.1"	315.7"	157.3"	154.3"	-	164.2"
311.0"	326.8"	236.2"	248.8"	335.4"	167.1"	164.2"	-	174.0"
330.7"	346.4"	255.9"	268.5"	355.1"	177.0"	174.0"	-	183.9"
350.4"	366.1"	275.6"	288.2"	374.8"	186.8"	183.9"	-	193.7"
370.1"	385.8"	295.3"	307.9"	401.6"	196.7"	193.7"	-	203.5"
389.8"	405.5"	315.0"	327.6"	414.2"	206.5"	203.5"	-	213.4"
409.4"	425.2"	334.6"	347.2"	433.9"	-	213.4"	-	223.2"
429.1"	444.9"	354.3"	366.9"	453.5"	-	223.2"	-	233.1"
448.8"	464.6"	374.0"	386.6"	473.2"	-	233.1"	-	242.9"
468.5"	484.2"	393.7"	406.3"	492.9"	-	242.9"	-	252.8"
488.2"	503.9"	413.4"	426.0"	512.6"	-	252.8"	-	262.6"
507.9"	523.6"	433.1"	445.7"	532.3"	-	262.6"	-	272.4"
527.6"	543.3"	452.7"	465.3"	552.0"	-	272.4"	-	282.3"
547.2"	563.0"	472.4"	485.0"	571.7"	-	282.3"	292.1"	-
566.9"	582.7"	492.1"	504.8"	591.3"	-	-	302.0"	-
586.6"	602.4"	511.8"	524.4"	611.0"	-	-	311.8"	-
606.3"	622.0"	531.5"	544.1"	630.7"	-	-	321.7"	-
626.0"	641.8"	551.2"	563.8"	650.4"	-	-	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 + 15.7"; *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 74.8" or 90.5"

Total lift height with 74.8" 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 three-stage-mast*	Collapsed height EK 1350 /1500 three-stage-mast	Collapsed 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
222.4"	238.2"	147.6"	160.2"	239.0"	102.4"	-	-
252.0"	267.7"	177.2"	189.8"	268.5"	108.1"	-	-
281.5"	297.2"	206.7"	219.3"	298.0"	117.9"	115.0"	-
311.0"	326.8"	236.2"	248.8"	327.6"	127.8"	124.8"	-
340.6"	356.3"	265.7"	278.3"	357.1"	137.6"	134.6"	-
370.1"	385.8"	295.3"	307.9"	386.6"	147.4"	144.5"	-
411.4"	415.4"	324.8"	337.4"	416.1"	157.3"	154.3"	-
429.1"	444.9"	354.3"	366.9"	445.7"	-	164.2"	-
458.7"	474.4"	383.9"	396.5"	475.2"	-	174.0"	-
488.2"	503.9"	413.4"	426.0"	504.7"	-	183.9"	193.7"
517.7"	533.5"	442.9"	455.5"	534.3"	-	193.7"	203.5"
547.2"	563.0"	472.4"	485.0"	563.8"	-	203.5"	213.4"
576.8"	592.5"	502.0"	514.6"	593.3"	-	213.4"	223.2"
606.3"	622.0"	531.5"	544.1"	622.8"	-	-	233.1"
635.8"	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 + 15.7"; 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 Transfer aisle width*	EK 1200 Transfer aisle width*	EK 1300 / 1350 Transfer aisle width*	EK 1500 / 2000 Transfer aisle width*
depth	width						
b	d	Ast	M1S				
in	in	in	in	in	in	in	in
60"	48"	80"	26"	145.0"	145.6"	148.8"	157.8"
48"	32"	66"	18"	136.2"	138.2"	140.8"	149.6"
48"	40"	66"	22"	139.4"	141.7"	143.9"	153.1"
48"	48"	66"	26"	142.9"	145.3"	147.5"	156.7"
40"	32"	58"	18"	133.1"	135.4"	137.6"	146.9"
40"	40"	58"	22"	136.2"	138.6"	141.2"	150.4"
40"	48"	58"	26"	140.2"	142.1"	144.7"	153.9"
32"	32"	55"	18"	132.3"	134.6"	137.2"	146.1"
32"	40"	55"	22"	135.8"	137.8"	140.4"	149.6"
32"	48"	55"	26"	139.4"	141.7"	143.9"	153.5"
48"	60"	68"	32"	155.9"	158.6"	161.1"	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 truck; Reduced truck lengths on request. ** EK 2000 add + 2"