



## EK-X Technical Data Vertical Order Picker

EK-X



first in intralogistics

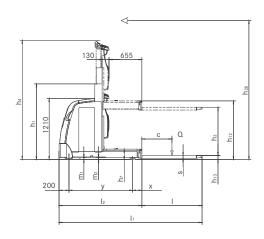
## EK-X Vertical Order Picker The new dimension in order picking

This specification sheet to VDI guideline 2198 only gives the technical figures for selected equipment variants.

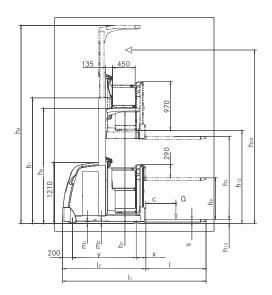


1.1	Manufacturer				STILL	STILL	STILL
1.2	Manufacturer's type designation				EK-X single mast without additional lift	EK-X single mast with additional lift	EK-X telescopic ma
1.3	Drive				Electric 24 V	Electric 24 V	Electric 24 V
1.4	Operator type				Standing/order-picker	Standing/order-picker	Standing/order-picke
1.5	Rated capacity/rated load		Q	kg	1000	1000	1000
1.6	Load centre distance		С	mm	400	400	400
1.8	Load distance, centre of drive axle	o fork	Х	mm	182	190	185
1.9	Wheelbase		у	mm	1270	1260	1415
2.1	Service weight (incl. battery)			kg	1564	2069	2711
2.2	Axle loading, laden	drive end/load end		kg	536/2028	688/2381	1050/2661
2.3	Axle loading, unladen	drive end/load end		kg	1006/558	1168/901	1479/1232
3.1	Tyres				Polyurethane	Polyurethane	Polyurethane
3.2	Tyre size	drive end		mm	Ø 250 x 100	Ø 250 x 100	Ø 250 x 100
3.3	Tyre size	load end		mm	Ø 150 x 100	Ø 150 x 100	Ø 150 x 100
3.5	Wheels, number (x = driven wheels)	drive end/load end			1x / 2	1x / 2	1x / 2
3.7	Tread	load end	b <sub>11</sub>	mm	655	835	835
4.2	Height	mast lowered	h <sub>1</sub>	mm	1500	2500	2900
4.4	Lift		h <sub>3</sub>	mm	1000	1910	4550
4.5	Height	mast extended	h <sub>4</sub>	mm	2395	4200	6840
4.7	Height of overhead guard (cabin)		h <sub>6</sub>	mm	-	2290	2290
4.8	Stand height		h <sub>7</sub>	mm	200	200	200
4.11	Additional lift		h <sub>9</sub>	mm	-	800	800
4.14	Stand height, elevated		h <sub>12</sub>	mm	1200	2110	4750
4.14.1	Order picking height ( $h_{12} + 1600 \text{ mg}$	n) elevated	h <sub>28</sub>	mm	2800	3710	6350
4.15	Height	lowered	h <sub>13</sub>	mm	65	65	65
4.19	Overall length	lowered	I <sub>1</sub>	mm	2452	2470	2620
4.20	Length to face of forks		12	mm	1652	1670	1820
4.20	Overall width		b <sub>1</sub> /b <sub>2</sub>	mm	790/790	980/980	980/980
4.22	Fork dimensions		s/e/l	mm	55/120/800	55/120/800	55/120/800
4.22	Fork carriage ISO 2328, class/type	Λ P.	3/6/1	111111	Welded forks	Welded forks	Welded forks
4.24	Fork-carriage width	А, D	$b_3$	mm	Welded IOIKS	740	740
4.24	9		-		560	640	640
4.25	Distance between fork-arms		b <sub>5</sub>	mm	300		
	Width across guide rolls	- +		mm	-	1375	1375
4.31	Ground clearance, laden, below ma		m <sub>1</sub>	mm	38	38	38
4.32	Ground clearance, centre of wheelb		m <sub>2</sub>	mm	38	38	38
4.34.1	Aisle width for pallets 1200 x 800 le	0	Ast	mm	3109	-	-
4.34.2	Aisle width for pallets 1200 x 800 c	rosswise	Ast	mm	2821	1380	1380
4.35	Turning radius		Wa	mm	1470	1480	1635
4.42	Transfere aisle with, minimum		Au	mm	2821	2838	2988
4.45	Clear driver compartment height ins			mm	-	2000	2000
5.1	Travel speed	laden/unladen		km/h	9.0	10.0	10.0
5.2	Lift speed	laden/unladen		m/s	0.15/0.19	0.18/0.25	0.22/0.31
5.3	Lowering speed	laden/unladen		m/s	0.30/0.24	0.30/0.24	0.30/0.24
5.9	Acceleration time (over 10 m)	laden/unladen		S	7/7	7/7	7/7
5.10	Service brake				Regenerative	Regenerative	Regenerative
6.1	Drive motor rating S2 60 min			kW	3.0	3.0	3.0
6.2	Lift motor rating at S3 15%			kW	3.2 1	4.0	7.6
6.3	Battery according to DIN 43535				3 EPzS 420/B	4 PzS 560/B	4 PzS 560/B
6.4	Battery voltage/nominal capacity K	i		V/Ah	24/420	24/560	24/560
6.5	Battery weight (dependent on manu	facturer ±5%)		kg	385	502	502
	Sound level at the driver's seat			dB (A)	61	63	69

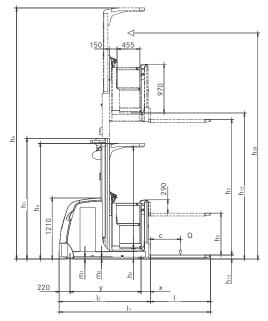
<sup>&</sup>lt;sup>1</sup> S3 = 10%



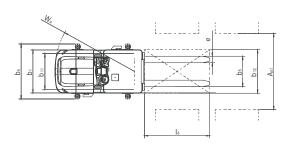
Side view single mast without auxiliary lift



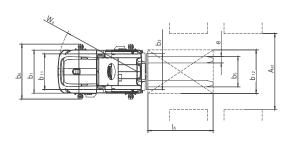
Side view single lift mast with auxiliary lift



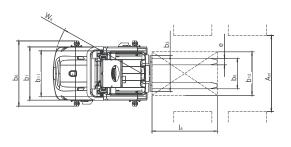
Side view telescopic mast



Top view single mast without auxiliary lift



Top view single lift mast with auxiliary lift



Top view telescopic lift mast

+	Height, mast lowered	$h_1$	1,500	2,000	2,500
	Total lift above floor	$h_{25} (h_3 + h_9 + h_{13})$	1,065	1,565	1,975
<u>=</u>	Total lift	$h_{24} (h_3 + h_9)$	1,000	1,500	1,910
EK-X single mast without additional lift	Nominal lift	h <sub>3</sub>	1,000	1,500	1,910
EK-X gle m additi	Height, lowered	h <sub>13</sub>	65	65	65
Sing out a	Additional lift	h₀	0	0	0
ith	Stand height, elevated	$h_{12} (h_3 + h_7)$	1,200	1,700	2,110
>	Picking height	h <sub>28</sub> (h <sub>12</sub> + 1600)	2,800	3,300	3,710
	Height, mast extended*	h <sub>4</sub>	2,395	3,750	4,160
	Height, mast lowered	h <sub>1</sub>	1,500	2,000	2,500
	Total lift above floor	$h_{25} (h_3 + h_9 + h_{13})$	1,865	2,365	2,775
≝	Total lift	h <sub>24</sub> (h <sub>3</sub> + h <sub>9</sub> )	1,800	2,300	2,710
nast onal	Nominal lift	h <sub>3</sub>	1,000	1,500	1,910
EK-X single mast with additional lift	Height, lowered	h <sub>13</sub>	65	65	65
sing h ad	Additional lift	h <sub>9</sub>	800	800	800
wit	Stand height, elevated	$h_{12} (h_3 + h_7)$	1,200	1,700	2,110
	Picking height	h <sub>28</sub> (h <sub>12</sub> + 1600)	2,800	3,300	3,710
	Height, mast extended*	h <sub>4</sub>	2,395	3,750	4,160
	Height, mast lowered	h <sub>1</sub>	2,400	2,900	
æ	Total lift above floor	$h_{25} (h_3 + h_9 + h_{13})$	3,615	4,615	
al lii	Total lift	$h_{24} (h_3 + h_9)$	3,550	4,550	
EK-X telescopic mast without additional lift	Nominal lift	h <sub>3</sub>	3,550	4,550	
EK-X copic addit	Height, lowered	h <sub>13</sub>	65	65	
elescont	Additional lift	h <sub>9</sub>	0	0	
with te	Stand height, elevated	$h_{12} (h_3 + h_7)$	3,750	4,750	
	Picking height	h <sub>28</sub> (h <sub>12</sub> + 1600)	5,350	6,350	
	Height, mast extended*	h <sub>4</sub>	5,800	6,800	
	Height, mast lowered	h <sub>1</sub>	2,400	2,900	
	Total lift above floor	$h_{25} (h_3 + h_9 + h_{13})$	4,415	5,415	
≣	Total lift	$h_{24} (h_3 + h_9)$	4,350	5,350	
c ma onal	Nominal lift	h <sub>3</sub>	3,550	4,550	
EK-X sopic aditio	Height, lowered	h <sub>13</sub>	65	65	
EK-X telescopic mast with additional lift	Additional lift	h <sub>9</sub>	800	800	
te	Stand height, elevated	$h_{12} (h_3 + h_7)$	3,750	4,750	
	Picking height	h <sub>28</sub> (h <sub>12</sub> + 1600)	5,350	6,350	
	Height, mast extended*	h <sub>4</sub>	5,800	6,800	

### **Detailed Photos**



Roomy driver's cabin with shock-absorbing floor



Equipment options for the driver's cabin



Intuitive control panel on mast end



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## EK-X Vertical Order Picker The new dimension in order picking

This specification sheet to VDI guideline 2198 only gives the technical figures for selected equipment variants.



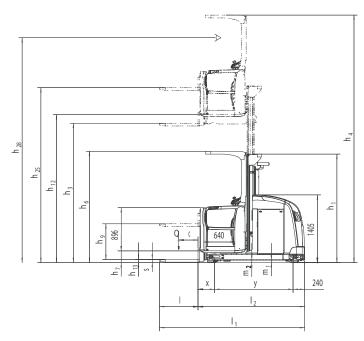
	1.1	Manufacturer				STILL	STILL
ks	1.2	Manufacturer's type designation				EK-X telescopic mast	EK-X triplex mast
mar	1.3	Drive				Electric 24 V	Electric 24 V
E.	1.4	Operator type				Standing/order-picker	Standing/order-picker
Distinguishing marks	1.5	Rated capacity/rated load		Q	kg	1000	1000
ingi	1.6	Load centre distance		С	mm	400	400
Dist	1.8	Load distance, centre of drive axle to fork		Χ	mm	345	405
	1.9	Wheelbase		у	mm	1487	1595
S	2.1	Service weight (incl. battery)			kg	2887	3688
Weights	2.2	Axle loading, laden	drive end/load end		kg	1094/2793	1502/3186
We	2.3	Axle loading, unladen	drive end/load end		kg	1636/1250	2062/1627
	3.1	Tyres	,		U	Polyurethane	Polyurethane
SSis	3.2	Tyre size	drive end		mm	Ø 360 x 130	Ø 360 x 130
/cha	3.3	Tyre size	load end		mm	Ø 180 x 156	Ø 180 x 156
Tyres/chassis	3.5	Wheels, number (x = driven wheels)	drive end/load end			1x / 2	1x / 2
Ę	3.7	Tread	load end	b <sub>11</sub>	mm	700	1000
	4.2	Height	mast lowered	h <sub>1</sub>	mm	2250	2250
	4.3	Free lift		h <sub>2</sub>	mm	-	1600
	4.4	Lift		h <sub>3</sub>	mm	2825	4410
	4.5	Height	mast extended	h <sub>4</sub>	mm	5315	6900
	4.7	Height of overhead guard (cabin)		h <sub>6</sub>	mm	2490	2490
	4.8	Stand height		h <sub>7</sub>	mm	240	240
	4.11	Additional lift		h <sub>9</sub>	mm	740	740
	4.14	Stand height	elevated	h <sub>12</sub>	mm	3065	4650
	4.14.1	Order picking height (h <sub>12</sub> + 1600 mm)	elevated	h <sub>28</sub>	mm	4665	6250
	4.15	Height	lowered	h <sub>13</sub>	mm	65	65
	4.19	Overall length		I <sub>1</sub>	mm	3277	3126
S	4.20	Length to face of forks			mm	2077	2326
Dimensions	4.21	Overall width		$b_1/b_2$	mm	880/880	1180/1180
nen	4.22	Fork dimensions		s/e/l	mm	55/120/1200	55/120/800
ä	4.23	Fork carriage ISO 2328, class/type A, B				Welded forks	Welded forks
	4.24	Fork-carriage width		b <sub>3</sub>	mm	660	740
	4.25	Distance between fork-arms		b <sub>5</sub>	mm	560	640
	4.27	Width across guide rolls		b <sub>6</sub>	mm	-	1375
	4.31	Ground clearance, laden, below mast		m <sub>1</sub>	mm	50	50
	4.32	Ground clearance, centre of wheelbase		m <sub>2</sub>	mm	50	50
	4.34.1	Aisle width for pallets 1200 x 800 lengthwise		Ast	mm	1080	-
	4.34.2	Aisle width for pallets 1200 x 800 crosswise		$A_{st}$	mm	-	1380
	4.35	Turning radius		Wa	mm	1732	2040
	4.42	Transfere aisle with, minimum		$A_u$	mm	3528	3586
	4.44	Clear width driver compartment entrance			mm	640	640
	4.45	Clear driver compartment height inside			mm	2200	2200
ata	5.1	Travel speed	laden/unladen		km/h	9.0	10.0
rformance data	5.2	Lift speed	laden/unladen		m/s	0.23/0.30	0.20/0.30
nan	5.3	Lowering speed	laden/unladen		m/s	0.28/0.28	0.28/0.28
for	5.9	Acceleration time (over 10 m)	laden/unladen		S	7/7	7/7
Per	5.10	Service brake				Regenerative	Regenerative
ЭС	6.1	Drive motor rating S2 60 min			kW	4.0	4.0
Electric engine	6.2	Lift motor rating at S3 15%			kW	7.6	7.6
ric e	6.3	Battery according to DIN 43535				6 EPzS 840/A	8 EPzS 1120/A
lect	6.4	Battery voltage/nominal capacity K₅			V/Ah	24/840	24/1120
ш	6.5	Battery weight (dependent on manufacturer ±5	%)		kg	687	883
<u>_</u>	10.7	Sound level at the driver's seat			dB (A)	61	61
Other		With our VNAP tool we will calculate the techni floor quality rules. Subject to change without n			with your i	ndividual equipment. The calcu	lated speed profiles are based on our

## EK-X Vertical Order Picker The new dimension in order picking

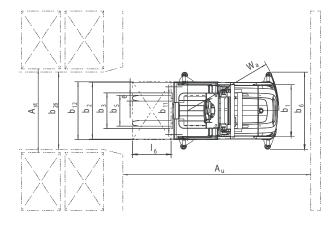
This specification sheet to VDI guideline 2198 only gives the technical figures for selected equipment variants.



	1.1	Manufacturer				STILL	STILL
S	1.2	Manufacturer's type designation				EK-X telescopic mast	EK-X triplex mast
Distinguishing marks	1.3	Drive				Electric 48 V	Electric 48 V
ngu	1.4	Operator type				Standing/order-picker	Standing/order-picker
ishi	1.5	Rated capacity/rated load		Q	kg	1200	1200
ngu	1.6	Load centre distance		C	mm	400	400
Oisti	1.8	Load distance, centre of drive axle to fork		X	mm	345	405
	1.9	Wheelbase		у	mm	1520	1628
(0	2.1	Service weight (incl. battery)		у	kg	2948	3747
ght	2.2	Axle loading, laden	drive end/load end		kg	1027/3121	1427/3520
Weights	2.3	Axle loading, inladen	drive end/load end		kg	1664/1283	2085/1662
	3.1	Tyres	arive eria/ road eria		1,8	Polyurethane	Polyurethane
SSiS	3.2	Tyre size	drive end		mm	Ø 360 x 130	Ø 360 x 130
cha	3.3	Tyre size	load end		mm	Ø 180 x 156	Ø 180 x 156
Tyres/chassis	3.5	Wheels, number (x = driven wheels)	drive end/load end		111111	1x / 2	1x / 2
Ę	3.7	Tread	load end	b <sub>11</sub>	mm	700	1000
	4.2	Height	mast lowered	h <sub>1</sub>	mm	2250	2250
	4.3	Free lift	mast lowered	h <sub>2</sub>	mm	-	1600
	4.4	Lift		h <sub>3</sub>	mm	2825	4410
	4.5	Height	mast extended	h <sub>4</sub>	mm	5315	6900
	4.7	Height of overhead guard (cabin)	mast extended	h <sub>6</sub>	mm	2490	2490
	4.7	Stand height		h <sub>7</sub>	mm	240	240
	4.11	Additional lift		h <sub>o</sub>	mm	740	740
	4.11	Stand height	elevated	h <sub>12</sub>	mm	3065	4650
	4.14.1	Order picking height (h <sub>12</sub> + 1600 mm)	elevated	h <sub>28</sub>	mm	4665	6250
	4.14.1		lowered			65	65
	4.19	Height Overell length	lowered	h <sub>13</sub>	mm		3159
		Overall length			mm	3310	
Dimensions	4.20 4.21	Length to face of forks  Overall width		$l_2$ $b_1/b_2$	mm mm	2110 880/880	2359 1180/1180
ens	4.22	Fork dimensions				55/120/1200	55/120/800
Dim	4.23	Fork carriage ISO 2328, class/type A, B		s/e/l	mm	Welded forks	Welded forks
	4.23	Fork-carriage width		b <sub>3</sub>	mm	660	740
	4.25	Distance between fork-arms		b <sub>5</sub>		560	640
	4.27	Width across guide rolls		b <sub>6</sub>	mm mm	-	1375
	4.27	Ground clearance, laden, below mast		m <sub>1</sub>	mm	50	50
	4.31	Ground clearance, laden, below mast Ground clearance, centre of wheelbase			mm	50	50
	4.34.1			m <sub>2</sub>	mm	1080	-
	4.34.1	Aisle width for pallets 1200 x 800 lengthwise				-	1380
	4.34.2	Aisle width for pallets 1200 x 800 crosswise Turning radius		A <sub>st</sub> W <sub>a</sub>	mm mm	1765	2071
						3561	3617
	4.42 4.44	Transfere aisle with, minimum  Clear width driver compartment entrance		Au	mm mm	640	640
		·					
В	4.45	Clear driver compartment height inside	ladan /unladan		mm km/h	2200	2200 13.0
rformance data	5.1	Travel speed	laden/unladen		km/h	9.0	
nce	5.2	Lift speed	laden/unladen		m/s	0.32/0.40	0.36/0.40
rma	5.3 5.9	Lowering speed Acceleration time (over 10 m)	laden/unladen		m/s	0.35/0.35	0.35/0.35
erfo		, , , , , , , , , , , , , , , , , , , ,	laden/unladen		S	6/6	6/6
Pe	5.10	Service brake			LAAA	Regenerative	Regenerative
ine	6.1	Drive motor rating \$2.60 min			kW	6.5	6.5
Electric engine	6.2	Lift motor rating at S3 20% Battery according to DIN 43535			kW	13	13
tric	6.3	, ,			\/ / ^ b-	3 EPzS 420/A	4 EPzS 560/A
Elec	6.4	Battery voltage/nominal capacity K <sub>5</sub>			V/Ah	48/420	48/560
	6.5	Battery weight (dependent on manufacturer ±5%)			kg	739	933
Jer	10.7	Sound level at the driver's seat	1 10 11 0 11		dB (A)		
Other		With our VNAP tool we will calculate the technica floor quality rules. Subject to change without not			tn your ind	ividual equipment. The calcula	ted speed profiles are based on our



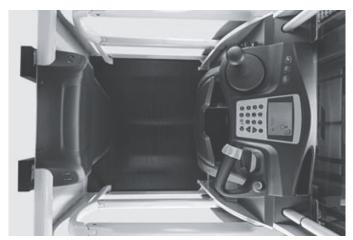
Side view



Top view

## Mast Tables

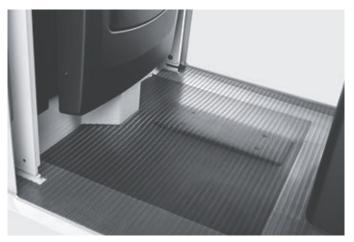
	Height, mast lowered	h <sub>1</sub>	2,250	2,450	2,900	3,400	3,900	4,400	4,900	5,400
	Total lift above floor	$h_{25} (h_3 + h_9 + h_{13})$	3,625	4,025	4,925	5,925	6,525	7,525	8,525	9,325
sts III	Total lift	$h_{24} (h_3 + h_9)$	3,565	3,965	4,865	5,865	6,465	7,465	8,465	9,265
ma	Nominal lift	h <sub>3</sub>	2,825	3,225	4,125	5,125	5,725	6,725	7,725	8,525
EK-X telescopic masts with additional lift	Height, lowered	h <sub>13</sub>	60	60	60	60	60	60	60	60
esco n ad	Additional lift	h <sub>9</sub>	740	740	740	740	740	740	740	740
tele	Stand height, elevated	$h_{12} (h_3 + h_7)$	3,065	3,465	4,365	5,365	5,965	6,965	7,965	8,765
	Picking height	h <sub>28</sub> (h <sub>12</sub> + 1600)	4,665	5,065	5,965	6,965	7,565	8,565	9,565	10,365
	Height, mast extended*	h <sub>4</sub>	5,115	5,515	6,415	7,415	8,015	9,015	10,015	10,815
	Height, mast lowered	h <sub>1</sub>	2,250	2,450	2,900	3,400	3,900	4,500		
	Total lift above floor	$h_{25} (h_3 + h_9 + h_{13})$	5,210	5,810	7,160	7,960	9,460	10,960		
æ	Total lift	$h_{24} (h_3 + h_9)$	5,150	5,750	7,100	7,900	9,400	10,900		
EK-X triplex masts ith additional lift	Nominal lift	h <sub>3</sub>	4,410	5,010	6,360	7,160	8,660	10,160		
EK-X ex mag	Free lift	h <sub>2</sub>	1,600	1,800	2,250	2,750	3,250	3,850		
addi E	Height, lowered	h <sub>13</sub>	60	60	60	60	60	60		
with 8	Additional lift	h <sub>9</sub>	740	740	740	740	740	740		
>	Stand height, elevated	$h_{12} (h_3 + h_7)$	4,650	5,250	6,600	7,400	8,900	10,400		
	Picking height	h <sub>28</sub> (h <sub>12</sub> + 1600)	6,250	6,850	8,200	9,000	10,500	12,000		
	Height, mast extended*	h <sub>4</sub>	6,700	7,300	8,650	9,450	10,950	12,450		
	* Dimensions h <sub>4</sub> apply for driver roof wit	h a clear height of 200	00 mm							
	Intermediate heights on request.									



Roomy driver's cabin with control panel on mast end



Roomy driver's cabin with control panel on both sides



Shock-absorbing floor with integrated drive switch

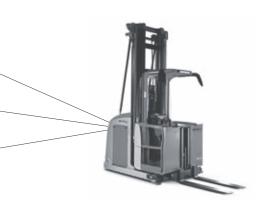


Equipment options for the driver's cabin

Picking heights up to 12 meters

Large, roomy cabin

Modular system - optimally adaptable to any warehouse



It's the Prince of Pickers and Nobility in any narrow-aisle warehouse: the EK-X vertical order picker sets the benchmark in terms of performance, picking height, residual load capacity, functionality and ergonomics.

The EK-X forges ahead into new dimensions of efficient goods handling with driving speeds up to 13 km/h and lifting speeds up to 0.4 m/s. Thanks to the OPTISPEED system, this compact warehouse helper is always on the move at maximum speed – without impairing

safe driving. Other features include an excellent field of view and a maximum pick height of 12 meters - outstanding in the truest sense of the word - as well as a roomy, shock-absorbing driver's cabin. In short: if you want the most efficient, user-friendly picking warehouse management, you can't do without an EK-X. Moreover, the modular system allows the optimum EK-X to be custom-built for every warehouse.

#### **Extensive Equipment**

#### Power

- Maintenance-free 3-phase drive unit, 24 V or 48 V
- Effective goods handling due to very high driving and lifting speeds (13 km/h and 0.4 m/s)
- Enough energy for multi-shift operations thanks to battery capacities up to 1240 Ah (24 V) or 930 Ah (48 V)
- Efficient picking with heavy loads even at large lift heights

#### Precision

- Sensitive operation and stepless control of lift speed thanks to state-of-the-art proportional valve technology
- Power-optimized driving speeds through accurate height sensing
- Maximum possible operating speed for each load weight thanks to the OPTISPEED-System
- Easier workload through semiautomatic approach to shelf with OPTISPEED 4.0

#### Ergonomics

- Quick, safe personnel entry and exit thanks to generously sized, low-level entry area
- High degree of movement freedom due to roomy driver's cabin
- Shock-absorbing floor with integrated drive switch guarantees relaxed working
- Effective working with any body size thanks to low cabin wall and small distance to load carrier

- Optional tilting side barriers for even easier access to goods
- Intuitive, individually positionable control panel
- Wide variety of equipment options for the driver's cabin (e. g. attachment system for terminals etc., storage option, leaning support, 12 volt power socket)

#### Safety

- Safe handling in a very narrow aisle with mechanical or inductive guidance
- Long-life, energy-saving LED headlights for optimum visibility
- Optional OPTISAFE system gives optimum support when navigating and operating the vehicle in sensitive warehouse areas
- Safe operation through sensor-controlled two-handed operation
- Faster servicing due to easily accessible service points

#### Environmental responsibility

- Longer operating time and optimum use of resources through energy recovery during braking and lowering operations
- Blue-Q efficiency mode saves up to 10 percent energy at the push of a button without sacrificing power
- 90 percent of all the materials used are recyclable

# EK-X Vertical Order Picker Equipment Variants



		EK-X 24 V b <sub>1</sub> = 790	EK-X 24 V b <sub>1</sub> = 980	EK-X 24 V b <sub>1</sub> = 880-1580	EK-X 48 V b <sub>1</sub> = 880-1580
Ī	Damped driver's compartment for best comfort on uneven floors and thresholds	•	•	•	•
	Integrated storage compartments, bottle holder	•	•	•	•
	LCD display of the current status and lifting height	0	0	•	•
	Tilting side barriers to reduce the distance from the rack	_	_	0	0
ප	Cabins for different widths	0	0	0	0
Driver's space	Control panel on mast end	•	•	•	•
er s	Control panel on load end or both sides	0	0	0	0
Dr.	Control panel height adjustable	_	_	0	0
	Operation auxiliary lift on load end	0	0	0	0
	knee cushion on load end to support the picking	_	_	0	0
	Support bar to lean against for control panel on mast end	_	_	0	0
	Overhead guard 2000 mm clear height	0	0	•	•
	Overhead guard 2200 mm clear height	0	0	0	0
l l	Steering knob or steering wheel	•	•	•	•
Steering	Redundant safety system for steering	•	•	•	•
<u>ス</u>	Full electric 180° steering	•	•	•	•
	Free view mast			•	•
	Single mast	0	0	_	_
Mast	Telescopic mast	0	0	0	0
Ξ	Triplex free view mast with free lift	_	_	0	0
Ι.	Mast transition damping	_	_	•	•
	Auxiliary lift	0	0	0	0
S	Noise optimised hydraulic pump	•	•	•	•
Hydraulics	Proportional valve technology for sensitive movements	•	•		•
Hya	Individual parameterisation of the hydraulic functions	•	•	•	•
	Energy recuperation lowering	-	_		
S	Stepless acceleration up to the maximum speed	•			
Drives	Maintenance-free drives for driving, lift and steering Fully capsulated components protected against dirt and dust				
_	Integrated current and temperature sensors monitoring the functions	•			
	Regenerative brake system	•			
Brakes	Energy recuperation when braking				
Bra	Electric load wheel brake as additional brake	_		0	0
	Mechanical guidance with guide rollers	_	0	0	0
	Wire guidance with automatic wire search	_	_	0	0
	FleetManager: Access control	0	0	0	0
	FleetManager: Shock detection	0	0	0	0
	FleetManager: Reports	0	0	0	0
	OPTISPEED: Lift height and load controlled speed reduction	_	_	0	0
	Keyless PIN code access with button	0	0	0	0
ല	Flash light	0	0	•	•
rmance	Safety Light	0	0	0	0
to the	Spotlights	0	0	0	0
Safety and perfor	Dimmable lighting system for cabin	_	_	0	0
and	Macrolon overhead guard cover	0	0	0	0
fety	Steering angle controlled stepless speed reduction	0	0	•	•
Sa	Lift switch off and lowering stop	0	0	0	0
	Drive cut-out	0	0	0	0
	Provision for PSA-equipment	_	_	0	0
	Automatic braking at aisle end	0	<u> </u>	0	0
	Automatic braking at aisle end Hoist service package for high lift speeds	_ 0 0	_	0	0
	Automatic braking at aisle end Hoist service package for high lift speeds Drive service package for high travel speeds		0	0	0
	Automatic braking at aisle end Hoist service package for high lift speeds Drive service package for high travel speeds Non-contact collision guard on overhead guard	0 — 0	- 0 0 - 0	0 0 0	0 0 0
	Automatic braking at aisle end Hoist service package for high lift speeds Drive service package for high travel speeds Non-contact collision guard on overhead guard Antistatic version	0 — 0	- 0 0 - 0	0 0 0	0 0 0
	Automatic braking at aisle end Hoist service package for high lift speeds Drive service package for high travel speeds Non-contact collision guard on overhead guard Antistatic version Battery conveyor for lateral exchange of battery	0 — 0 0	- 0 0 - 0 0	0 0 0 0 0 0	0 0 0 0 0
stem	Automatic braking at aisle end Hoist service package for high lift speeds Drive service package for high travel speeds Non-contact collision guard on overhead guard Antistatic version Battery conveyor for lateral exchange of battery Battery exchange by forklift truck	0 — 0 0 0	— 0 0 — 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0
v system	Automatic braking at aisle end Hoist service package for high lift speeds Drive service package for high travel speeds Non-contact collision guard on overhead guard Antistatic version Battery conveyor for lateral exchange of battery Battery exchange by forklift truck Battery exchange by hoist	0  0 0 0		0 0 0 0 0 0	0 0 0 0 0 0
ttery system	Automatic braking at aisle end Hoist service package for high lift speeds Drive service package for high travel speeds Non-contact collision guard on overhead guard Antistatic version Battery conveyor for lateral exchange of battery Battery exchange by forklift truck Battery exchange by hoist Battery compartment for 360 Ah to 930 Ah	0 — 0 0 0 0			0 0 0 0 0 0 0
pattery system	Automatic braking at aisle end Hoist service package for high lift speeds Drive service package for high travel speeds Non-contact collision guard on overhead guard Antistatic version Battery conveyor for lateral exchange of battery Battery exchange by forklift truck Battery exchange by hoist Battery compartment for 360 Ah to 930 Ah Battery compartment for 720 Ah to 1240 Ah	0  0 0 0 0			
battery system	Automatic braking at aisle end Hoist service package for high lift speeds Drive service package for high travel speeds Non-contact collision guard on overhead guard Antistatic version Battery conveyor for lateral exchange of battery Battery exchange by forklift truck Battery exchange by hoist Battery compartment for 360 Ah to 930 Ah Battery compartment for 720 Ah to 1240 Ah Battery compartment cover at the side	0  0 0 0 0 0			
pattery system	Automatic braking at aisle end Hoist service package for high lift speeds Drive service package for high travel speeds Non-contact collision guard on overhead guard Antistatic version Battery conveyor for lateral exchange of battery Battery exchange by forklift truck Battery exchange by hoist Battery compartment for 360 Ah to 930 Ah Battery compartment for 720 Ah to 1240 Ah Battery compartment cover at the side Different fork lengths	0  0 0 0 0 0 0 0			
	Automatic braking at aisle end Hoist service package for high lift speeds Drive service package for high travel speeds Non-contact collision guard on overhead guard Antistatic version Battery conveyor for lateral exchange of battery Battery exchange by forklift truck Battery exchange by hoist Battery compartment for 360 Ah to 930 Ah Battery compartment for 720 Ah to 1240 Ah Battery compartment cover at the side Different fork lengths FEM fork carriage	0  0 0 0 0 0 0  0			
	Automatic braking at aisle end Hoist service package for high lift speeds Drive service package for high travel speeds Non-contact collision guard on overhead guard Antistatic version Battery conveyor for lateral exchange of battery Battery exchange by forklift truck Battery exchange by hoist Battery compartment for 360 Ah to 930 Ah Battery compartment for 720 Ah to 1240 Ah Battery compartment cover at the side Different fork lengths FEM fork carriage Preparation data terminal and printer	O — O O O O O O O O O O O O O O O O O O			
	Automatic braking at aisle end Hoist service package for high lift speeds Drive service package for high travel speeds Non-contact collision guard on overhead guard Antistatic version Battery conveyor for lateral exchange of battery Battery exchange by forklift truck Battery exchange by hoist Battery compartment for 360 Ah to 930 Ah Battery compartment for 720 Ah to 1240 Ah Battery compartment cover at the side Different fork lengths FEM fork carriage Preparation data terminal and printer Cold storage version	O — O O O O O O O O O O O O O O O O O O			
l equipment Battery system	Automatic braking at aisle end Hoist service package for high lift speeds Drive service package for high travel speeds Non-contact collision guard on overhead guard Antistatic version Battery conveyor for lateral exchange of battery Battery exchange by forklift truck Battery exchange by hoist Battery compartment for 360 Ah to 930 Ah Battery compartment for 720 Ah to 1240 Ah Battery compartment cover at the side Different fork lengths FEM fork carriage Preparation data terminal and printer Cold storage version Fan on overhead guard	O — O O O O O O O O O O O O O O O O O O			
	Automatic braking at aisle end Hoist service package for high lift speeds Drive service package for high travel speeds Non-contact collision guard on overhead guard Antistatic version Battery conveyor for lateral exchange of battery Battery exchange by forklift truck Battery exchange by hoist Battery compartment for 360 Ah to 930 Ah Battery compartment for 720 Ah to 1240 Ah Battery compartment cover at the side Different fork lengths FEM fork carriage Preparation data terminal and printer Cold storage version Fan on overhead guard Support bar for data terminal, writing pad and free universal support mount				
	Automatic braking at aisle end Hoist service package for high lift speeds Drive service package for high travel speeds Non-contact collision guard on overhead guard Antistatic version Battery conveyor for lateral exchange of battery Battery exchange by forklift truck Battery exchange by hoist Battery compartment for 360 Ah to 930 Ah Battery compartment for 720 Ah to 1240 Ah Battery compartment cover at the side Different fork lengths FEM fork carriage Preparation data terminal and printer Cold storage version Fan on overhead guard Support bar for data terminal, writing pad and free universal support mount Provision for radio				
Additional equipment Battery system	Automatic braking at aisle end Hoist service package for high lift speeds Drive service package for high travel speeds Non-contact collision guard on overhead guard Antistatic version Battery conveyor for lateral exchange of battery Battery exchange by forklift truck Battery exchange by hoist Battery compartment for 360 Ah to 930 Ah Battery compartment for 720 Ah to 1240 Ah Battery compartment cover at the side Different fork lengths FEM fork carriage Preparation data terminal and printer Cold storage version Fan on overhead guard Support bar for data terminal, writing pad and free universal support mount				

<sup>●</sup> Standard ○ Optional — Not available







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STILL is certified in the following areas: Quality management, occupational safety, environmental protection and energy management.

