

EK-X and PXV Technical Data

Vertical Order Picker

EK-X 10

PXV/Li-Ion



EK-X 10 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.

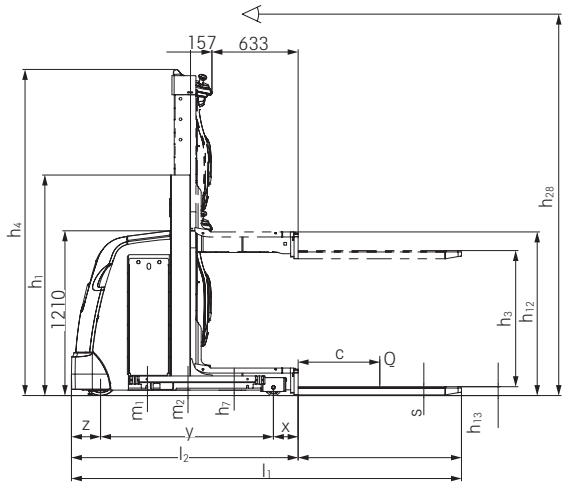


| | 1.1 | Manufacturer | | | STILL | STILL | STILL | |
|------------------|--|--|--------------------|--------------------------------|--|---|---|--------------|
| Features | 1.2 | Manufacturer's type designation | | | EK-X 10 single mast without additional lift | EK-X 10 single mast with additional lift | EK-X 10 telescopic mast with additional lift | |
| | 1.3 | Drive | | | Electric 24 V | Electric 24 V | Electric 24 V | |
| | 1.4 | Operator type | | | Standing/order-picker | Standing/order-picker | Standing/order-picker | |
| | 1.5 | Load capacity/load | Q | kg | 1000 | 1000 | 1000 | |
| | 1.6 | Load centre | c | mm | 400 | 400 | 400 | |
| | 1.8 | Load distance, centre of drive axle to fork | x | mm | 180 | 180 | 180 | |
| | 1.9 | Wheel base | y | mm | 1270 | 1260 | 1415 | |
| | 2.1 | Service weight (incl. battery) | | kg | 1564 | 2069 | 2711 | |
| | 2.2 | Axle load, laden | drive end/load end | | kg | 536/2028 | 688/2381 | 1050/2661 |
| 2.3 | Axle load, unladen | drive end/load end | | kg | 1006/558 | 1168/901 | 1479/1232 | |
| Tyres/chassis | 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 125 x 105 | Ø 125 x 105 | Ø 150 x 100 | |
| | 3.5 | Wheels, number (x = driven) | drive end/load end | | 1x/2 | 1x/2 | 1x/2 | |
| | 3.7 | Track width | load end | b ₁₁ | mm | 660 | 850 | 850 |
| Dimensions | 4.2 | Height | mast lowered | h ₁ | mm | 1620 | 2530 | 2900 |
| | 4.4 | Lift | | h ₃ | mm | 1000 | 1910 | 4550 |
| | 4.5 | Height | mast extended | h ₄ | mm | 2395 | 4170 | 6810 |
| | 4.7 | Height of overhead guard (cab) | | h ₆ | mm | - | 2260 | 2260 |
| | 4.8 | Platform height | lowered | h ₇ | mm | 200 | 200 | 200 |
| | 4.11 | Additional lift | | h ₉ | mm | - | 800 | 800 |
| | 4.14 | Platform height | elevated | h ₁₂ | mm | 1200 | 2110 | 4750 |
| | 4.14.1 | Reach height (h ₁₂ + 1600 mm) | elevated | h ₂₈ | mm | 2800 | 3710 | 6350 |
| | 4.15 | Height | lowered | h ₁₃ | mm | 65 | 65 | 65 |
| | 4.19 | Overall length | | l ₁ | mm | 2465 | 2475 | 2630 |
| | 4.20 | Length including fork backs | | l ₂ | mm | 1665 | 1675 | 1830 |
| | 4.21 | Overall width | | b ₁ /b ₂ | mm | 790/790 | 980/980 | 980/980 |
| | 4.22 | Fork dimensions | | s/e/l | mm | 60/120/800 | 60/120/800 | 60/120/800 |
| | 4.23 | Fork carriage ISO 2328, class/type A, B | | | | Welded forks | Welded forks | Welded forks |
| | 4.24 | Fork-carriage width | | b ₃ | mm | - | 740 | 740 |
| | 4.25 | Distance between fork-arms | min./max. | b ₅ | mm | 560 | 640 | 640 |
| | 4.27 | Width across guide rollers | | b ₆ | mm | - | 1375 | 1375 |
| | 4.31 | Ground clearance below mast, laden | | m ₁ | mm | 40 | 40 | 38 |
| | 4.32 | Ground clearance, centre of wheelbase | | m ₂ | mm | 40 | 40 | 38 |
| | 4.34.1 | Working aisle width for pallets 1200 x 800 lengthwise | | A _{st} | mm | 3122 | - | - |
| 4.34.2 | Working aisle width for pallets 1200 x 800 crosswise | | A _{st} | mm | 2834 | 1380 | 1380 | |
| 4.35 | Turning radius | | W _a | mm | 1485 | 1495 | 1650 | |
| 4.42 | Min. transfer aisle width | | A _u | mm | 2834 | 2844 | 2999 | |
| 4.44 | Clearance, driver compartment entry | | | mm | 460 | 460 | 460 | |
| 4.45 | Overhead clearance, driver compartment, inside | | | mm | - | 2000 | 2000 | |
| Performance data | 5.1 | Travel speed | laden/unladen | km/h | 9.0/9.0 | 10.0/10.0 | 10.0/10.0 | |
| | 5.2 | Lifting 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 speed (over 10 m) | laden/unladen | s | 7/7 | 7/7 | 7/7 | |
| | 5.10 | Service brake | | | | Regenerative | Regenerative | Regenerative |
| Electric engine | 6.1 | Drive motor, rating S2 60 min | | kW | 3.0 | 3.0 | 3.0 | |
| | 6.2 | Lift motor, rating S3 15 % | | kW | 3.2 ¹ | 4.0 | 7.6 | |
| | 6.3 | Battery according to DIN 43535 | | | 3PzS 420/B | 4PzS 560/B | 4PzS 560/B | |
| | 6.4 | Battery voltage/nominal capacity K ₅ | | V/Ah | 24/420 | 24/560 | 24/560 | |
| | 6.5 | Battery weight (±5 % depending on manufacturer) | | kg | 385 | 502 | 502 | |
| Misc. | 10.7 | Sound pressure level, operator's position | | dB(A) | 61 | 63 | 69 | |
| | | With our VNAP tool we will calculate the technical specifications of the truck with your individual equipment. The calculated speed profiles are based on our floor quality rules. Subject to change without notice. Values can vary ±10%. | | | | | | |

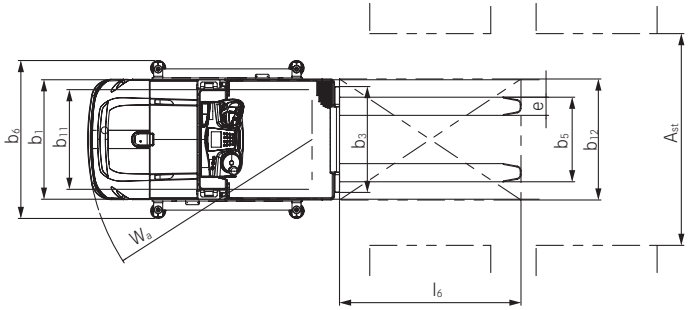
¹ S3 = 10%

Please note: This is a sample configuration. Depending on the use of the truck, the values may differ.

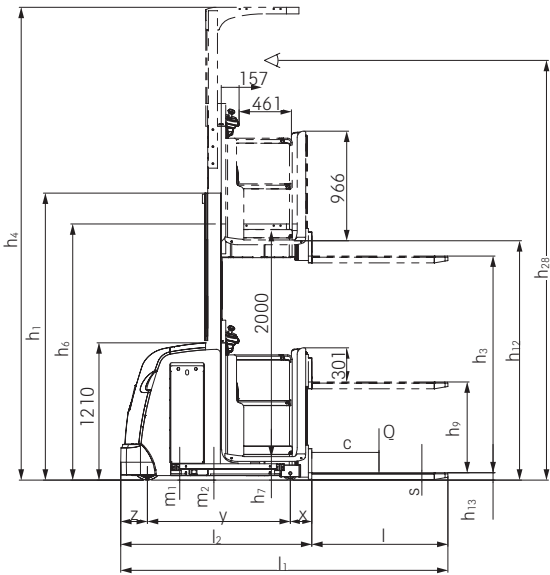
EK-X 10 Vertical Order Picker
 Technical Drawings



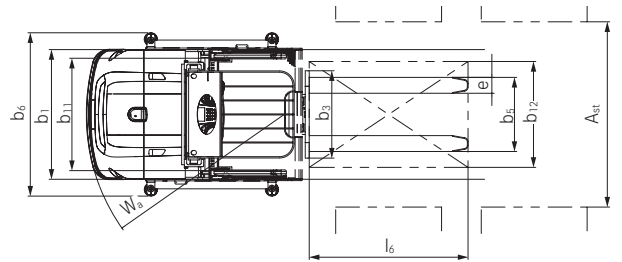
Side view EK-X 10 single mast without auxiliary lift



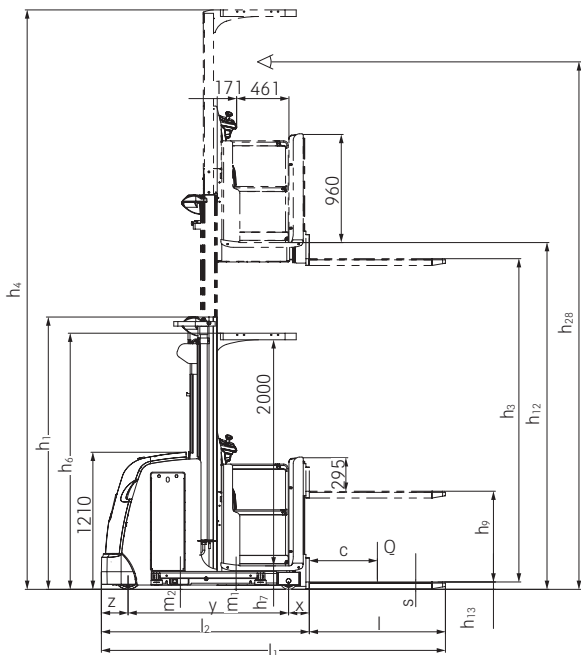
Top view EK-X 10 single mast without auxiliary lift



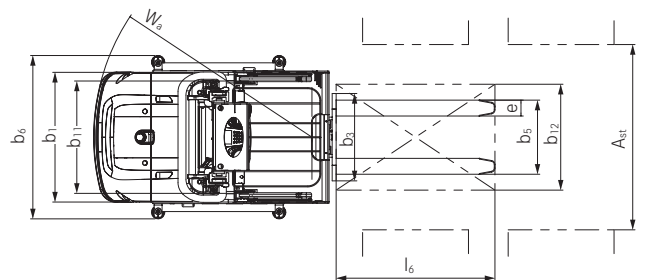
Side view EK-X 10 single mast with auxiliary lift



Top view EK-X 10 single mast with auxiliary lift



Side view EK-X 10 telescopic mast with auxiliary lift



Top view EK-X 10 telescopic lift mast with auxiliary lift

PXV Vertical Order Picker
The new dimension in order picking

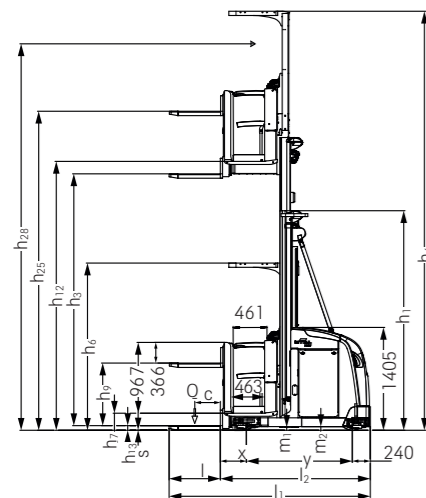


| | | STILL | STILL | STILL | STILL | STILL | STILL | STILL | | | |
|------------------|---------------------------|--|--------------------|--|--|--|--|---|--|-----------------------------|-----------------------------|
| Features | 1.1 | Manufacturer | | | | | | | | | |
| | 1.2 | Manufacturer's type designation | | PXV M up to 1000 kg telescopic mast with additional lift | PXV M up to 1000 kg telescopic mast with additional lift | PXV M up to 1000 kg telescopic mast with additional lift | PXV up to 1200 kg telescopic mast with additional lift | PXV up to 1200 kg triplex mast with free lift | PXV up to 1200 kg telescopic mast with additional lift | | |
| | 1.3 | Drive | | Electric 24 V | Electric 48 V | Electric 24 V | Electric 48 V | Electric 48 V | Electric 48 V | | |
| | 1.4 | Operation | | Order picker | Order picker | Order picker | Order picker | Order picker | Order picker | | |
| | 1.5 | Load capacity/load | Q | kg | 1000 | 1000 | 1000 | 1200 | 1200 | 1200 | |
| | 1.6 | Load centre | c | mm | 400 | 400 | 600 | 400 | 400 | 400 | |
| | 1.8 | Load distance | x | mm | 353 | 353 | 345 | 345 | 455 | 345 | |
| 1.9 | Wheel base | y | mm | 1340 | 1448 | 1520 | 1520 | 1844 | 1628 | | |
| Weights | 2.1 | Service weight (incl. battery) | | kg | 3566 | 3842 | 2973 | 3023 | 5996 | 4097 | |
| | 2.2 | Axle load, laden | drive end/load end | kg | 1299/3267 | 1489/3353 | 952/3022 | 1053/3170 | 2389/4806 | 1627/3670 | |
| | 2.3 | Axle load, unladen | drive end/load end | kg | 1886/1681 | 2032/1810 | 1615/1359 | 1690/1332 | 2993/3002 | 2222/1875 | |
| Tyres/chassis | 3.1 | Tyres | | | Polyurethane | Polyurethane | Polyurethane | Polyurethane | Polyurethane | | |
| | 3.2 | Tyre size | drive end | mm | Ø 360/130 | Ø 360/130 | Ø 360/130 | Ø 360/130 | Ø 360/130 | | |
| | 3.3 | Tyre size | load end | mm | Ø 180/156 | Ø 180/156 | Ø 180/156 | Ø 180/156 | Ø 180/156 | | |
| | 3.5 | Number of wheels (x = driven) | drive end/load end | | 1x/2 | 1x/2 | 1x/2 | 1x/2 | 1x/2 | 1x/2 | |
| | 4.2 | Height | mast lowered | h ₁ | mm | 3900 | 3900 | 2250 | 2250 | 5400 | 3400 |
| Dimensions | 4.4 | Lift | | h ₃ | mm | 6000 | 6000 | 2825 | 2825 | 12660 | 5125 |
| | 4.5 | Height | mast extended | h ₄ | mm | 8284 | 8284 | 5115 | 5115 | 14950 | 7415 |
| | 4.7 | Height of overhead guard (cab) | | h ₆ | mm | 2284 | 2284 | 2290 | 2290 | 2290 | 2290 |
| | 4.8 | Platform height | lowered | h ₇ | mm | 233 | 233 | 240 | 240 | 240 | 240 |
| | 4.11 | Auxiliary lift | | h ₉ | mm | 800 | 800 | 740 | 740 | 740 | 740 |
| | 4.14 | Platform height | raised | h ₁₂ | mm | 6233 | 6233 | 3065 | 3065 | 12900 | 5365 |
| | 4.14.1 | Reach height (h ₁₂ + 1600) | | h ₂₈ | mm | 7833 | 7833 | 4665 | 4665 | 14500 | 6965 |
| | 4.15 | Height lowered | | h ₁₃ | mm | 65 | 65 | 65 | 65 | 65 | 65 |
| | 4.19 | Overall length | | l ₁ | mm | 2818 | 2926 | 3420 | 2910 | 3344 | 3018 |
| | 4.20 | Length including fork backs | | l ₂ | mm | 2018 | 2126 | 2220 | 2110 | 2544 | 2218 |
| | 4.21 | Overall width | | b ₁ /b ₂ | mm | 1080/1280 | 1080/1280 | 880/980 | 880/980 | 1080/1580 | 1080/1580 |
| | 4.22 | Fork dimensions | | s/e/l | mm | 60/120/800 | 60/120/800 | 60/120/1200 | 60/120/800 | 60/120/800 | 60/120/800 |
| | 4.23 | Fork carriage ISO 2328, class/type A, B | | | mm | ISO I special fork carriage | ISO I special fork carriage | ISO I special fork carriage | ISO I special fork carriage | ISO I special fork carriage | ISO I special fork carriage |
| | 4.24 | Fork carriage width | | b ₃ | mm | 740 | 740 | 660 | 740 | 740 | 740 |
| | 4.25 | Overall fork width | min./max. | b ₅ | mm | 640/640 | 640/640 | 560/560 | 640/640 | 640/640 | 640/640 |
| | 4.27 | Width across guide rollers | | b ₆ | mm | 1375 | 1375 | 1075 | 1375 | 2000 | 1995 |
| | 4.31 | Ground clearance below mast, laden | | m ₁ | mm | 50 | 50 | 50 | 50 | 50 | 50 |
| | 4.32 | Ground clearance, centre of wheel base | | m ₂ | mm | 50 | 50 | 50 | 50 | 50 | 50 |
| | 4.34 | Working aisle width | | A _{st} | mm | 1380 | 1380 | 1080 | 1380 | 2100 | 2000 |
| | 4.35 | Turning radius | | W _a | mm | 1801 | 1902 | 1951 | 1765 | 2190 | 1999 |
| 4.42 | Min. transfer aisle width | | A _u | mm | 3301 | 3402 | 3747 | 3258 | 3781 | 3492 | |
| Performance data | 5.1 | Travel speed | laden/unladen | km/h | 10.0/10.0 | 10.0/10.0 | 10.0/10.0 | 11.0/11.0 | 13.0/13.0 | 13.0/13.0 | |
| | 5.2 | Lifting speed | laden/unladen | m/s | 0.26/0.30 | 0.50/0.50 | 0.24/0.30 | 0.36/0.36 | 0.40/0.40 | 0.49/0.50 | |
| | 5.3 | Lowering speed | laden/unladen | m/s | 0.28/0.28 | 0.45/0.45 | 0.28/0.28 | 0.32/0.32 | 0.45/0.45 | 0.45/0.45 | |
| | 5.9 | Acceleration speed (to 10 m) | laden/unladen | s | 6/6 | 6/6 | 7/7 | 7/7 | 6/6 | 6/6 | |
| | 5.10 | Service brake | | | | Regenerative | Regenerative | Regenerative | Regenerative | Regenerative | |
| Electric motor | 6.1 | Drive motor, rating S2 = 60 min | | kW | 4.0 | 6.5 | 4.0 | 6.5 | 6.5 | 6.5 | |
| | 6.2 | Lift motor, rating S3 = 15% | | kW | 7.6 | 13.0 ¹ | 7.6 | 13.0 ¹ | 13.0 ¹ | 13.0 ¹ | |
| | 6.3 | Battery according to DIN 43531/35/36 A, B, C, no | | | 6PzS 840 A | 4 PzS 560 A | 6 PzS 840 A | 3 PzS 420 A | 6 PzS 930 A | 4 PzS 560 A | |
| | 6.4 | Battery voltage/nominal capacity K _s | | V/Ah | 24/840 | 48/560 | 24/840 | 48/420 | 48/930 | 48/560 | |
| | 6.5 | Battery weight (±5% depending on manufacturer) | | kg | 687 | 933 | 687 | 739 | 1309 | 933 | |
| Misc. | 8.1 | Transmission control | | | Microprocessor | Microprocessor | Microprocessor | Microprocessor | Microprocessor | Microprocessor | |
| | 8.4 | Sound pressure level, operator's position | | dB(A) | 61 | 61 | 61 | 61 | 61 | 61 | |

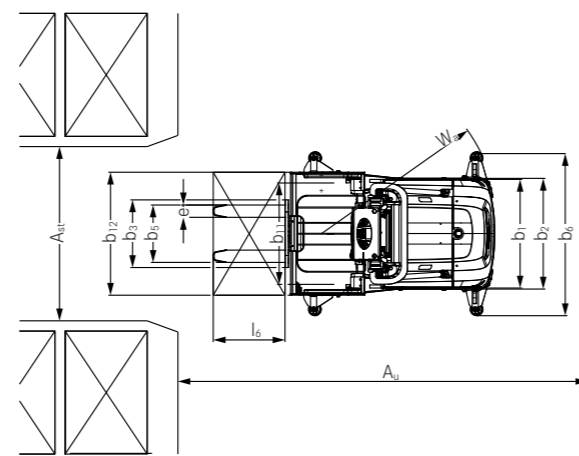
Values can vary by +/-10%. The calculated driver profiles are based on our floor quality rules. Subject to technical changes.

¹ S3 = 20%

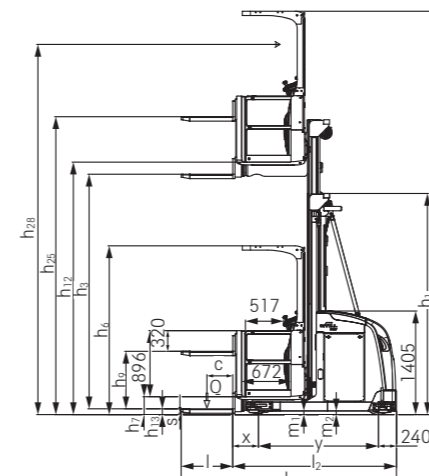
Please note: This is a sample configuration. Depending on the use of the truck, the values may differ.



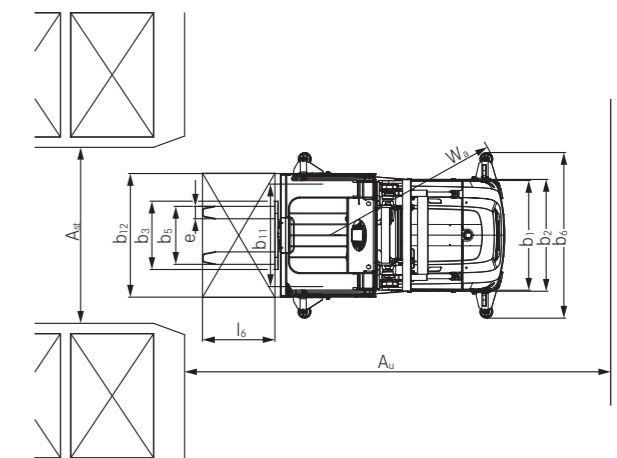
Side view PXV M up to 1000 kg with telescopic mast



Top view PXV M up to 1000 kg with telescopic mast



Side view PXV up to 1200 kg with telescopic mast



Top view PXV up to 1200 kg with telescopic mast

EK-X 10 and PXV Vertical Order Picker
Mast Tables



| | | | | | | | | | | | |
|--|------------------------|-------------------------------|------|------|-------|-------|-------|-------|-------|-------|-------|
| EK-X 10 single mast with additional lift | Height, mast lowered | h_1 | mm | 1620 | 2120 | 2530 | | | | | |
| | Total lift above floor | $h_{25} (h_3 + h_9 + h_{13})$ | mm | 1865 | 2365 | 2775 | | | | | |
| | Total lift | $h_{24} (h_3 + h_9)$ | mm | 1800 | 2300 | 2710 | | | | | |
| | Nominal lift | h_3 | mm | 1000 | 1500 | 1910 | | | | | |
| | Height, lowered | h_{13} | mm | 65 | 65 | 65 | | | | | |
| | Additional lift | h_9 | mm | 800 | 800 | 800 | | | | | |
| | Stand height, elevated | $h_{12} (h_3 + h_7)$ | mm | 1200 | 1700 | 2110 | | | | | |
| | Picking height | $h_{28} (h_{12} + 1,600)$ | mm | 2800 | 3300 | 3710 | | | | | |
| | Height, mast extended | h_4 | mm | 2395 | 3760 | 4170 | | | | | |
| EK-X 10 telescopic mast with additional lift | Height, mast lowered | h_1 | mm | 2400 | 2900 | | | | | | |
| | Total lift above floor | $h_{25} (h_3 + h_9 + h_{13})$ | mm | 4415 | 5415 | | | | | | |
| | Total lift | $h_{24} (h_3 + h_9)$ | mm | 4350 | 5350 | | | | | | |
| | Nominal lift | h_3 | mm | 3550 | 4550 | | | | | | |
| | Height, lowered | h_{13} | mm | 65 | 65 | | | | | | |
| | Additional lift | h_9 | mm | 800 | 800 | | | | | | |
| | Stand height, elevated | $h_{12} (h_3 + h_7)$ | mm | 3750 | 4750 | | | | | | |
| | Picking height | $h_{28} (h_{12} + 1,600)$ | mm | 5350 | 6350 | | | | | | |
| | Height, mast extended | h_4 | mm | 5810 | 6810 | | | | | | |
| PXV M up to 1000 kg telescopic mast | Height, mast lowered | h_1 | mm | 2250 | 2400 | 2900 | 3400 | 3900 | | | |
| | Total lift above floor | $h_{25} (h_3 + h_9 + h_{13})$ | mm | 4115 | 4415 | 5415 | 5865 | 6865 | | | |
| | Total lift | $h_{24} (h_3 + h_9)$ | mm | 4050 | 4350 | 5350 | 5800 | 6800 | | | |
| | Nominal lift | h_3 | mm | 3250 | 3550 | 4550 | 5000 | 6000 | | | |
| | Height, lowered | h_{13} | mm | 65 | 65 | 65 | 65 | 65 | | | |
| | Additional lift | h_9 | mm | 800 | 800 | 800 | 800 | 800 | | | |
| | Stand height, elevated | $h_{12} (h_3 + h_7)$ | mm | 3483 | 3783 | 4783 | 5233 | 6233 | | | |
| | Picking height | $h_{28} (h_{12} + 1600)$ | mm | 5083 | 5383 | 6383 | 6833 | 7833 | | | |
| | Height, mast extended | h_4 | mm | 5534 | 5834 | 6834 | 7284 | 8284 | | | |
| PXV up to 1200 kg telescopic mast - Chassis widths $b_1 = 880$ mm | Height, mast lowered | h_1 | mm | 2250 | 2450 | 2900 | 3400 | 3900 | 4400 | | |
| | Total lift above floor | $h_{25} (h_3 + h_9 + h_{13})$ | mm | 3630 | 4030 | 4930 | 5930 | 6530 | 7530 | | |
| | Total lift | $h_{24} (h_3 + h_9)$ | mm | 3565 | 3965 | 4865 | 5865 | 6465 | 7465 | | |
| | Nominal lift | h_3 | mm | 2825 | 3225 | 4125 | 5125 | 5725 | 6725 | | |
| | Height, lowered | h_{13} | mm | 65 | 65 | 65 | 65 | 65 | 65 | | |
| | Additional lift | h_9 | mm | 740 | 740 | 740 | 740 | 740 | 740 | | |
| | Stand height, elevated | $h_{12} (h_3 + h_7)$ | mm | 3065 | 4025 | 4925 | 5925 | 6525 | 7525 | | |
| | Picking height | $h_{28} (h_{12} + 1600)$ | mm | 4665 | 5065 | 5965 | 6965 | 7565 | 8565 | | |
| | Height, mast extended | h_4 | mm | 5115 | 5515 | 6415 | 7415 | 8015 | 9015 | | |
| PXV up to 1200 kg telescopic mast - Chassis widths $b_1 = 1080$ mm | Height, mast lowered | h_1 | mm | 2250 | 2450 | 2900 | 3400 | 3900 | 4400 | 4900 | 5400 |
| | Total lift above floor | $h_{25} (h_3 + h_9 + h_{13})$ | mm | 3630 | 4030 | 4930 | 5930 | 6530 | 7530 | 8530 | 9330 |
| | Total lift | $h_{24} (h_3 + h_9)$ | mm | 3565 | 3965 | 4865 | 5865 | 6465 | 7465 | 8465 | 9265 |
| | Nominal lift | h_3 | mm | 2825 | 3225 | 4125 | 5125 | 5725 | 6725 | 7725 | 8525 |
| | Height, lowered | h_{13} | mm | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 |
| | Additional lift | h_9 | mm | 740 | 740 | 740 | 740 | 740 | 740 | 740 | 740 |
| | Stand height, elevated | $h_{12} (h_3 + h_7)$ | mm | 3065 | 4025 | 4925 | 5925 | 6525 | 7525 | 8525 | 9325 |
| | Picking height | $h_{28} (h_{12} + 1600)$ | mm | 4665 | 5065 | 5965 | 6965 | 7565 | 8565 | 9565 | 10365 |
| | Height, mast extended | h_4 | mm | 5115 | 5515 | 6415 | 7415 | 8015 | 9015 | 10015 | 10815 |
| PXV up to 1200 kg triplex mast - without free lift | Height, mast lowered | h_1 | mm | 3300 | 3800 | 4350 | 4800 | 5400 | | | |
| | Total lift above floor | $h_{25} (h_3 + h_9 + h_{13})$ | mm | 7965 | 9465 | 10765 | 11965 | 13465 | | | |
| | Total lift | $h_{24} (h_3 + h_9)$ | mm | 7900 | 9400 | 10700 | 11900 | 13400 | | | |
| | Nominal lift | h_3 | mm | 7160 | 8660 | 9960 | 11160 | 12660 | | | |
| | Height, lowered | h_{13} | mm | 65 | 65 | 65 | 65 | 65 | | | |
| | Additional lift | h_9 | mm | 740 | 740 | 740 | 740 | 740 | | | |
| | Stand height, elevated | $h_{12} (h_3 + h_7)$ | mm | 7400 | 8900 | 10200 | 11400 | 12900 | | | |
| | Picking height | $h_{28} (h_{12} + 1600)$ | mm | 9000 | 10500 | 11800 | 13000 | 14500 | | | |
| | Height, mast extended | h_4 | mm | 9490 | 10990 | 12290 | 13490 | 14990 | | | |
| PXV up to 1200 kg triplex mast - with free lift | Height, mast lowered | h_1 | mm | 2250 | 2450 | 2900 | 3200 | 3700 | 4200 | 4700 | |
| | Free lift | h_2 | mm | 1600 | 1800 | 2250 | 2550 | 3050 | 3550 | 4050 | |
| | Total lift above floor | $h_{25} (h_3 + h_9 + h_{13})$ | mm | 5215 | 5815 | 7165 | 7965 | 9465 | 10765 | 11965 | |
| | Total lift | $h_{24} (h_3 + h_9)$ | mm | 5150 | 5750 | 7100 | 7900 | 9400 | 10700 | 11900 | |
| | Nominal lift | h_3 | mm | 4410 | 5010 | 6360 | 7160 | 8660 | 9960 | 11160 | |
| | Height, lowered | h_{13} | mm | 65 | 65 | 65 | 65 | 65 | 65 | 65 | |
| | Additional lift | h_9 | mm | 740 | 740 | 740 | 740 | 740 | 740 | 740 | |
| | Stand height, elevated | $h_{12} (h_3 + h_7)$ | mm | 4650 | 5250 | 6600 | 7400 | 8900 | 10200 | 1140 | |
| | Picking height | $h_{28} (h_{12} + 1600)$ | mm | 6250 | 6850 | 8200 | 9000 | 10500 | 11800 | 13000 | |
| Height, mast extended | h_4 | mm | 6700 | 7300 | 8650 | 9450 | 10950 | 12250 | 13450 | | |



Reach height
up to 14.5 metres

PXV
Vertical order picker
with telescopic mast
up to 1,200 kg

Reach height
up to 7.8 metres

PXV M
Vertical order picker
with telescopic mast
up to 1,000 kg

Reach height
up to 6.3 metres

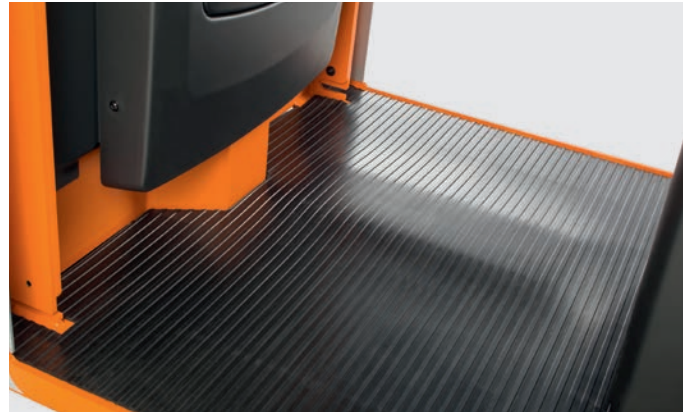
EK-X 10
Vertical order picker
with telescopic mast
up to 1,000 kg



EK-X 10 Vertical Order Picker Detailed Photos



Efficient truck utilisation thanks to optional two-sided operation



Shock-protected floor with integrated drive switch for more driving comfort without obstacles inside the operator's cab



Accessible pallet with guard as option for ergonomic order picking of heavy and bulky goods



Simple and safe pallet entry with additional barriers in load direction



Tilting bar for ergonomic order picking to the last article on the pallet

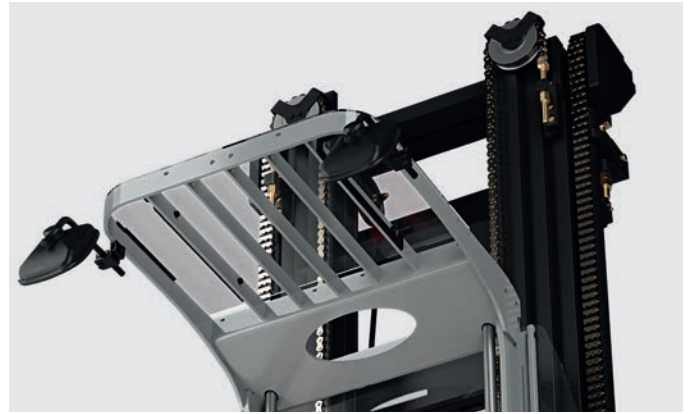


Optional operation with data terminal, printer and scanner

PXV Vertical Order Picker Detailed Photos



Maximum safety and flexibility when operating the truck thanks to display and control elements that can be positioned on the load end or mast side to suit requirements



Two rear-view mirrors ensure an optimum view of the surroundings at all times



Easy access to goods no matter how far back thanks to the optional lateral tilting barriers on the operator's cab



Safety is key: with the optional protective cage on the accessible pallet, the operator is protected even when moving around on the pallet at height



Plenty of space for equipment and materials thanks to the intelligent storage concept



Safety and efficiency with everything in view: the mast ensures a clear view in the drive direction at all times



Fast charging for optimum availability: direct charging access on the PXV is key and makes handling the charging connector a lot easier for all operators

PXV Vertical Order Picker iGo pilot

The right system for any customer requirement: STILL iGo pilot can determine its position via RFID tags as well as barcode labels

Customised configuration: the system can be individually adapted to any conceivable very narrow-aisle warehouse

Optimal working conditions: doing away with search processes and errant runs relieves the burden on the operator and enables quick incorporation of new employees

iGo pilot

STILL iGo pilot - Performance profile at a glance

The iGo pilot navigation and iGo pilot safety functions link the specific warehouse topography to the trucks operating within.

The iGo pilot navigation interface communicates with the warehouse management system and combines the warehouse processes into an intelligent whole. As a result, the truck knows the next pick location to reach in the high pallet rack, thus unburdening the operator. When the operator accepts the next order, the truck determines the optimal route to this location and the operator only needs to control the device through one control lever. Thanks to iGo pilot safety assistance

and warning systems, which can be individually preconfigured to any warehouse, the truck proactively adapts to its route as well as to local conditions and potential hazards. Once the truck has reached its target position with iGo pilot navigation, it ensures that the vehicle stops at exactly the right position, both horizontally and vertically. Once the picking task has been completed, the data is sent back to the warehouse management system in order to prevent order-picking errors. The result is a significant increase in handling capacity as well as increased safety thanks to networked agility.



Easy to use: destinations can be entered via scanner, terminal or online from the warehouse management system, and the process is started with just one movement of the drive lever

Supreme productivity: the truck automatically navigates to its destination along the ideal route, regardless of the experience and knowledge of the operator

Smart precision: the truck moves to exactly the right pallet position, with the possibility of preventing fork movements when not required

iGo pilot navigation

iGo pilot navigation leads the operator in their very narrow aisle truck along the ideal route to the desired position. This is possible thanks to a three-dimensional shelving plan that maps the specific topography of the warehouse. By comparing against this map stored in the system, the truck detects its current location in the aisle as well as its position. iGo pilot navigation adjusts to the activities of storage, retrieval and

order-picking. As soon as an order comes in, the system determines the optimal horizontal and vertical route to the desired location. By means of an optical display, the operator can see his current position in relation to the destination. He can only move his truck in the direction indicated. If he is in the wrong aisle, the display will flag this up to them.

Thanks to the variety of safety functions, the driver assistant protects goods, shelves, building equipment and the truck from damage

Always ready for action: reduced downtime by avoiding impact damage and the resulting repairs

Through a simplified workflow, drivers can fully concentrate on their core activity order-picking

iGo pilot safety

If iGo pilot safety is installed, the operational safety and handling capacity of STILL very narrow aisle trucks are both significantly improved. Moreover, areas in the very narrow aisle warehouse where special safety regulations apply are defined in advance. A three-dimensional map of these areas is stored in the truck. This mapping is provided by STILL. This allows to masterfully handle obstacles in

the shelving aisle, required braking distances at the end of aisles and height restrictions during everyday operations. In addition, the truck constantly identifies its current position using the map. During its journey, the truck detects every warehouse aisle and its specific conditions and adapts to these without the operator having to intervene. The system always follows the predefined safety rules.

EK-X 10 and PXV Vertical Order Picker Modularity down to the smallest bolt

Truck configurations suitable for every warehouse and all goods:
Millions of combination options. We determine which vertical order picker is suitable for you using the STILL configuration software. Based

on the dimensions of your warehouse, the loads to be transported, the necessary movement of goods and potential growth in the future, we design the perfect forklift truck with you, for you.

Cabin variants

Combined and comfort cabins for more freedom of movement

Batteries

24 V or 48 V,
Lead-acid or Li-Ion

Various mast variants

for reach heights of up to
14.5 metres



Chassis widths

for various applications

Fork carriages

welded or FEM fork carriage

Fork lengths

for a variety of loads

EK-X 10 and PXV Vertical Order Picker

The new dimension in order picking

Precise and safe working even at high speeds thanks to the clear view afforded by the mast

Comfortable, variable and safe standing position in the spacious operator's cab with shock-absorbing floor

Convenient access to goods thanks to tilting barriers that reduce distance to rack



EK-X 10

Making order picking child's play: the EK-X 10 vertical order picker is the perfect combination of efficiency and ergonomics. It performs impressively in both wide and narrow-aisle warehouses with its excellent handling capacity, optimum safety and ergonomic comfort. The compact warehouse aid can lift up to 1,000 kg up to a height of 6.3 metres. The clear line of sight afforded by the mast ensures operators have the best view for high-precision, safe work even at pace. When it comes to safety and ergonomics, the spacious operator's

cab delivers: lots of freedom to move, variable storage and a shock-absorbing floor ensure maximum comfort, while tilting side barriers reduce the distance between the order picker and the rack and enable the ergonomic retrieval of goods – no matter how far back. Selection of equipment variants – e. g. single or telescopic mast, with or without additional lift – and individual configuration options make the EK-X 10 a flexible partner for the myriad challenges that may arise in a warehouse.

Excellent space and storage efficiency: order picking height of up to 14.5 metres

Simultaneous lifting and lowering of main and additional lift

Easy touch: fingertip operation for easy lowering of the additional lift while order picking

Perfectly configured to meet any challenge thanks to the modular system



PXV

It is the king of order picking and impresses with its exceptional goods handling and maximum reach heights, as well as offering a whole new level of safety and ergonomics. Whether put to use in wide or narrow-aisle warehouses, no other order picker uses space and time as cleverly as the PXV vertical order picker. With an order picking height of 14.5 metres, the 'large' variant – which has a load capacity of 1,200 kg – can reach even the highest shelves. Its little brother meanwhile can work at reach heights of up to 7.8 metres with a load capacity of 1,000 kg. In both versions, smooth mast transition journeys not only ensure comfortable working but also impressive goods handling.

The PXV sets new standards when it comes to user friendliness and ergonomics, too. The operator is supported by intelligent assistance systems, such as the STILL OptiSpeed system which ensures the highest possible speed without jeopardising driving safety. It also offers an excellent field of vision in the load and drive direction, plus a spacious, shock-absorbing operator's cab with tilting barriers for easy access to goods. Additional assistance systems for even greater safety and efficiency plus numerous equipment variants can also be selected individually and make the PXV the perfect, tailor-made companion for every warehouse. It's the new dimension in order picking.



Simply easy

- Particularly sensitive operation and continuous control of lifting speed thanks to the latest proportional valve technology
- Intuitive control through the steering wheel or steering knob makes it easy for the operator to use all functions, customised to their needs
- Optimum user comfort provided by the spacious shock-protected stand-on platform with integrated presence switch
- Quick and easy charging at any time thanks to optional opportunity charging in lithium-ion variants



Simply powerful

- Reliable availability with powerful, low-maintenance AC drives for driving and lifting
- Efficient and powerful performance for every customer requirement thanks to individually configurable driving and lifting speeds
- Unrivalled space utilisation with a reach height of up to 14.5 metres
- Fast lifting and lowering speed thanks to mast without free lift and without mast transition journeys
- Optimum handling performance thanks to smart OptiSpeed assistance system in a range of customised versions



Simply safe

- Operating safety guaranteed with innovative iGo pilot safety aisle safety assistant
- Optional tilting barriers allow reduced distance between truck and rack – for quick, safe and ergonomic order picking
- Safe, comfortable and healthy operator's cab with optional knee and support cushions
- Optimum truck and operation safety with electronic monitoring of battery locking



Simply flexible

- Individually configurable for a wide range of uses thanks to modular truck concept
- Accessible pallet allows the operator to enter the pallet to pick bulky and heavy goods
- Flexible operator's cab design using a mounting bar system for simple integration of tools (optional)



Simply connected

- Maximum handling with intelligent STILL iGo pilot navigation assistance system and semi-automated bay approach
- Simple connection to warehouse management system for optimum control of goods flow with STILL iGo pilot interface
- Optimum truck safety, access protection and damage minimisation with STILL FleetManager 4.x

Simply Efficient



EK-X 10 and PXV Vertical Order Picker Equipment Variants



| | EK-X 10 b ₁ = 790 mm | EK-X 10 b ₁ = 980 mm | PXV M up to 1000 kg b ₁ = 1080-1580 mm | PXV up to 1200 kg b ₁ = 880-1580 mm | |
|---|---|------------------------------------|--|---|---|
| Operator's cab | Operator's cab for more freedom of movement | ○ | ○ | ○ | — |
| | Overhead guard height 2000/2200 mm | ○ | ○ | ○ | ○ |
| | Control panel on mast side/load end with steering knob/steering wheel | ○ | ○ | ○ | ○ |
| | Control panel with continuous electric height adjustment | — | — | — | ○ |
| | LED display | ● | ● | ● | — |
| | Tilting barriers to reduce distance to rack | ○ | ○ | ○ | ○ |
| | Knee cushion on picking platform with integrated storage compartment | ○ | ○ | ○ | ○ |
| | Fold-out and cushioned lean-to support mounted on mast side | ○ | ○ | ○ | ○ |
| | LED light for operator's cab | ○ | ○ | ○ | ○ |
| | LED headlights to illuminate the shelves | ○ | ○ | ○ | ○ |
| | Flexible bar system for workplace configuration (mast side/load end) | ○ | ○ | ○ | ○ |
| | Power socket 12 V / 2 A | ○ | ○ | ○ | ○ |
| | Electrical and mechanical operation of data terminal/printer/scanner | ○ | ○ | ○ | ○ |
| | Operator's cab with damping of shocks and vibrations | ● | ● | ● | ● |
| | Various cab widths | ○ | ○ | ○ | ○ |
| | Very low step height for easy entry and exit | ● | ● | ● | ● |
| Fan on the overhead guard | ○ | ○ | ○ | ○ | |
| Cover for the overhead guard | ○ | ○ | ○ | ○ | |
| Assistance systems | Steering angle-dependent continuous speed reduction for more safety | ● | ● | ● | — |
| | OptiSpeed 3.0: lift height-dependent speed adjustment | — | — | ● | ● |
| | OptiSpeed 3.3: weight and load detection for speed optimisation | — | — | — | ○ |
| | STILL iGo pilot navigation: semi-automatic bay approach | — | — | — | ○ |
| Drives | Regenerative electric braking through the drive motor for optimal use of energy | ● | ● | ● | ● |
| Safety | STILL iGo pilot safety: tailor-made safety and flexibility in narrow aisles | — | — | — | ○ |
| | FleetManager: access authorisation, shock detection, reports | ○ | ○ | ○ | ○ |
| | Rescue alarm for atypical operator actions to attract attention | ○ | ○ | ○ | ○ |
| | Automatic braking at the aisle end with PSS, RFID tags or magnetic switch | — | ○ | ○ | ○ |
| | PSS/preparation of PSS | — | ○ | ○ | ○ |
| | Rail guide with entrance rollers | ○ | ○ | ○ | ○ |
| | Inductive forced guidance with automatic loop finder | — | ○ | ○ | ○ |
| | Increased residual load capacity for heavy loads at large heights | — | — | ○ | ○ |
| | STILL Safety Light | ○ | ○ | ○ | ○ |
| | Adjustable lifting override and lowering stop | ○ | ○ | ○ | ○ |
| | Contact-free collision protection on the overhead guard | ○ | ○ | ○ | ○ |
| | Acoustic warning signal when driving in the direction of the load and/or drive | ○ | ○ | ○ | ○ |
| | Anti-static design | ○ | ○ | ○ | ○ |
| Access via key switch, PIN code, chip or card | ○ | ○ | ○ | ○ | |
| Battery | Roller track for lateral battery change | ○ | ○ | ○ | ○ |
| | Battery change with forklift truck | — | — | ● | ● |
| | Battery change with crane | ● | ● | — | — |
| | Various battery compartments for 24 V batteries | ○ | ○ | ○ | ○ |
| | Various battery compartments for 48 V batteries | — | — | ○ | ○ |
| | Various battery compartments for 48 V lithium-ion batteries | — | — | ○ | ○ |
| Additional accessories | Li-Ion-ready for 48 V battery compartment | — | — | ○ | ○ |
| | Fast charging access | — | — | ○ | ○ |
| | Cold store variant for temperatures of up to -30 °C | ○ | ○ | ○ | ○ |
| | Accessible pallet, including protective cage | ○ | ○ | ○ | ○ |
| Additional lift | ○ | ○ | ○ | ○ | |
| Welded or FEM fork carriage | ○ | ○ | ○ | ○ | |

● Standard ○ Option — Not available



STILL GmbH
Berzeliusstr. 10
22113 Hamburg
Germany
Tel.: +49 40 73 39 20 00
Fax: +49 40 73 39 20 01
info@still.de

**For further information please visit
www.still.eu**

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



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