

EXV Technical Data

High Lift Pallet Truck

EXV 10 Basic/Li-Ion

EXV 10/Li-Ion

EXV 12 (i)/Li-Ion

EXV 14 C (i)/Li-Ion

EXV 14 (i)/Li-Ion

EXV 14 D/Li-Ion

EXV 16 (i)/Li-Ion

EXV 16 D/Li-Ion

EXV 20 (i)/Li-Ion

EXV 20 D/Li-Ion

EXV iGo systems/Li-Ion



iGo systems

first in intralogistics



| | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|--|--------------------|----------------------------------|----------------------|--|--|--|----------------------|--|--|---|---|---|---|------------------------------|------------------------|----------------------|----------------------|-----------|
| Distinguishing marks | 1.1 | Manufacturer | | | STILL | STILL | STILL | | | STILL | | | STILL | | | | | | | |
| | 1.2 | Manufacturer's type designation | | | EXV 10 Basic/Li-Ion | EXV 10/Li-Ion | EXV 12/Li-Ion | | | EXV 12i | | | EXV 14 C/Li-Ion | | | EXV 14i C | | | | |
| | | Mast | | | Single | Telescopic | HiLo | Telescopic | HiLo | Triplex | Telescopic | HiLo | Triplex | Telescopic | HiLo | Triplex | Telescopic | HiLo | Triplex | |
| | 1.3 | Drive | | | Electric | Electric | | Electric | | | Electric | | Electric | | | Electric | | | | |
| | 1.4 | Operator type | | | Pedestrian | Pedestrian | Pedestrian | | | Pedestrian | | | Pedestrian | | | Pedestrian | | | | |
| | 1.5 | Rated capacity/rated load | Q | kg | 1000 | 1000 | 1200 | | | 1200 | | | 1400 | | | 1400 | | | | |
| | 1.6 | Load centre distance | c | mm | 600 | 600 | 600 | | | 600 | | | 600 | | | 600 | | | | |
| | 1.8 | Load distance, centre of drive axle to fork | x | mm | 715 ¹ | 695 ¹ | 695 ¹ | 695 ¹ | 638 | 709 ³ | 709 ³ | 652 ³ | 721 | 721 | 697 | 641 ³ | 641 ³ | 617 ³ | | |
| Weights | 1.9 | Wheel base | y | mm | 1157 Li-Ion: 1177 | 1157 Li-Ion: 1177 | 1157 Li-Ion: 1177 | | | 1291 | | | 1322 | | | 1256 ^{3, 5} | | | | |
| | 2.1 | Service weight incl. battery | | kg | 708 | 788 | 788 | 788 | 935 | 909 | 909 | 1056 | 1042 | 1042 | 1174 | 1048 | 1048 | 1180 | | |
| | 2.2 | Axle loading laden | drive end/load end | kg | 670/1038 | 695/1093 | 720/1268 | 720/1268 | 770/1365 | 759/1350 | 759/1350 | 814/1442 | 813/1629 | 813/1629 | 868/1707 | 872/1576 | 872/1576 | 925/1655 | | |
| | 2.3 | Axle loading unladen | drive end/load end | kg | 518/190 | 572/216 | 572/216 | 572/216 | 651/284 | 643/266 | 643/266 | 710/346 | 736/307 | 736/307 | 816/359 | 742/307 | 742/307 | 820/360 | | |
| Tyres/chassis | 3.1 | Tyres | | | Solid rubber | Polyurethane | Polyurethane | | | Polyurethane | | | Polyurethane | | | Polyurethane | | | | |
| | 3.2 | Tyre size | drive end | mm | Ø 230 x 75 | Ø 230 x 75 | Ø 230 x 75 | | | Ø 230 x 75 | | | Ø 230 x 75 | | | Ø 230 x 75 | | | | |
| | 3.3 | Tyre size | load end | mm | 1x Ø 85 x 100 | 1x Ø 85 x 100 | 1x Ø 85 x 100 | | | 1x Ø 85 x 85 | | | 1x Ø 85 x 100 | | | 1x Ø 85 x 85 | | | | |
| | 3.4 | Support castor size | | mm | Ø 140 x 54 | Ø 140 x 54 | Ø 140 x 54 | | | Ø 140 x 54 | | | Ø 140 x 54 | | | Ø 140 x 54 | | | | |
| Dimensions | 3.5 | Number of wheels (x = driven) | drive end/load end | | 1 x -1/2 | 1 x -1/2 | 1 x -1/2 | | | 1 x -1/2 | | | 1 x -1/2 | | | 1 x -1/2 | | | | |
| | 3.6 | Tread | drive end/load end | b ₁₀ /b ₁₁ | mm | 518/380 | 518/380 | 518/380 | | | 518/380 | | | 518/380 | | | 518/380 | | | |
| | 4.2 | Height | mast lowered | h ₁ | mm | See mast table | | | See mast table | | | See mast table | | | See mast table | | | | | |
| | 4.3 | Free lift | | h ₂ | mm | See mast table | | | See mast table | | | See mast table | | | See mast table | | | | | |
| | 4.4 | Lift | | h ₃ | mm | See mast table | | | See mast table | | | See mast table | | | See mast table | | | | | |
| | 4.5 | Height | mast extended | h ₄ | mm | See mast table | | | See mast table | | | See mast table | | | See mast table | | | | | |
| | 4.6 | Initial lift | | h ₅ | mm | - | - | - | - | 130 | - | - | - | - | - | 130 | - | - | | |
| | 4.9 | Height drawbar in driving position | min./max. | h ₁₄ | mm | 740/1230 | 740/1230 | 740/1230 | | | 740/1230 | | | 740/1230 | | | 740/1230 | | | |
| | 4.15 | Fork height, lowered | | h ₁₃ | mm | 86 | 86 | 86 | | | 86 | | | 86 | | | 86 | | | |
| | 4.19 | Overall length | | l ₁ | mm | 1768 Li-Ion: 1788 | 1788 Li-Ion: 1808 | 1788 Li-Ion: 1808 | 1788 Li-Ion: 1808 | 1845 Li-Ion: 1865 | 1907 | 1907 | 1964 | 1927 ⁶ | 1927 ⁶ | 1951 ⁶ | 1940 ^{5, 6} | 1940 ^{5, 6} | 1964 ^{5, 6} | |
| | 4.20 | Length to face of forks | | l ₂ | mm | 618 ¹ Li-Ion: 638 ¹ | 638 ¹ Li-Ion: 658 ¹ | 638 ¹ Li-Ion: 658 ¹ | 695 Li-Ion: 715 | 757 ¹ | 757 ¹ | 814 | 777 | 777 | 801 | 790 ⁵ | 790 ⁵ | 814 ⁵ | | |
| | 4.21 | Overall width | | b ₁ | mm | 800 | 800 | 800 | | | 800 | | | 800 | | | 800 | | | |
| 4.22 | Fork dimensions | | s/e/l | mm | 65/180/1150 | 65/180/1150 | 65/180/1150 | | | 60/180/1150 | | | 55/182/1150 | | | 55/182/1150 | | | | |
| 4.24 | Fork carriage width | | b ₃ | mm | 534 ¹ | 534 ¹ | 534 ¹ | 534 ¹ | 710 | 534 | 710 | 780 | 780 | | 780 | 780 | | | | |
| 4.25 | Overall fork width | | b ₅ | mm | 560 | 560 | 560 | | | 560 | | | 560 | | | 560 | | | | |
| 4.32 | Ground clearance, centre of wheel base | | m ₂ | mm | 30 | 30 | 30 | | | 20/150 | | | 30 | | | 20 | | | | |
| 4.34 | Aisle width for pallets 800 x 1200 lengthways | | A _{st} | mm | 2247 Li-Ion: 2267 | 2263/2251 ² Li-Ion: 2283/2271 | 2263/2251 ² Li-Ion: 2283/2271 ² | 2308/2296 ² Li-Ion: 2328/2316 ² | | 2391/2378 ³ /2369 ^{2, 3} | 2434/2423 ³ /2414 ^{2, 3} | 2397/2389 ² | 2416/2408 ² | 2398 ^{3, 5} /2389 ^{2, 3, 5} | 2418 ^{3, 5} /2409 ^{2, 3, 5} | | | | | |
| 4.35 | Turning radius | | W _a | mm | 1418 Li-Ion: 1438 | 1418/1406 ² Li-Ion: 1438/1426 ² | 1418/1406 ² Li-Ion: 1438/1426 ² | | | 1544 ⁴ /1535 ^{2, 3} | | 1573 ⁴ /1565 ^{2, 4} | | 1511 ^{4, 5} /1502 ^{2, 4, 5} | | | | | | |
| Performance data | 5.1 | Travel speed | laden/unladen | | km/h | 6/6 | 6/6 | 6/6 | | | 6/6 | | | 6/6 | | | 6/6 | | | |
| | 5.1.1 | Travel speed, backwards | laden/unladen | | km/h | 6/6 | 6/6 | 6/6 | | | 6/6 | | | 6/6 | | | 6/6 | | | |
| | 5.2 | Lift speed | laden/unladen | | m/s | 0.12/0.16 | 0.11/0.23 | 0.11/0.20 | 0.15/0.30 | 0.15/0.26 | 0.15/0.26 | 0.15/0.30 | 0.15/0.26 | 0.15/0.26 | 0.14/0.25 | 0.14/0.25 | | | | |
| | 5.3 | Lowering speed | laden/unladen | | m/s | 0.23/0.23 | 0.30/0.28 | 0.31/0.25 | 0.40/0.30 | 0.29/0.31 | 0.29/0.31 | 0.40/0.30 | 0.29/0.31 | 0.29/0.31 | 0.34/0.26 | 0.34/0.19 | 0.29/0.19 | 0.34/0.26 | 0.34/0.19 | 0.29/0.19 |
| | 5.8 | Max. gradeability kB 5 | laden/unladen | | % | 5/10 | 5/10 | 5/10 | | | 7/15 | | | 5/10 | | | 7/15 | | | |
| | 5.9 | Acceleration time over 10 m | laden/unladen | | m/s | 8.0/7.0 | 8.0/7.0 | 8.3/7.0 | | | 8.4/7.5 | | | 8.0/7.0 | | | 8.0/7.0 | | | |
| Electric engine | 5.10 | Service brake | | | | Electromagnetic | Electromagnetic | Electromagnetic | | | Electromagnetic | | | Electromagnetic | | | Electromagnetic | | | |
| | 6.1 | Drive motor rating S2 = 60 min | | | kW | 1.2 | 1.2 | 1.2 | | | 1.2 | | | 1.2 | | | 1.2 | | | |
| | 6.2 | Lift motor rating S3 = 15 % | | | kW | 2.2/5 % | 1.5/7 % | 3.2/10 % | | | 3.2/10 % | | | 3.2/10 % | | | 3.2/10 % | | | |
| | 6.3 | Battery according to DIN 43531/35/36 A, B, C, no | | | | No | No | No | | | No | | | DIN 43535 B - No ⁷ | | | No | | | |
| | 6.4 | Battery voltage/Rated capacity K _s | | | V/Ah | 24/150 Li-Ion: 24/82 | 24/150 Li-Ion: 24/82 | 24/150 Li-Ion: 24/82 | | | 24/165 | | 24/250 - 24/315 ⁷ Li-Ion: 24/82 | | | 24/250 - 24/315 ⁸ | | | | |
| | 6.5 | Battery weight ±5 % (depends on make) | | | kg | 195/51 (A1) | 195/51 (A1) | 195/51 (A1) | | | 200 | | | 212-263 ⁷ /51 (A1) | | | 200 - 249 ⁸ | | | |
| Misc. | 6.6 | Energy consumption according to VDI cycle | | | kWh/h | 0.72 | 0.75 | 1.00 | | | 1.00 | | | 1.14 | | | 1.14 | | | |
| | 8.1 | Drive control | | | | AC control | AC control | AC control | | | AC control | | | AC control | | | AC control | | | |
| 8.4 | Sound pressure level at driver's ear | | | dB(A) | 65 | 65 | 65 | | | 65 | | | 67 | | | 67 | | | | |

¹ With fork width s = 60 mm for pallet cage l₂ + 44 mm (measure x - 44 mm) for single mast + 35 mm (measure x - 35 mm) for tele and HiLo mast; b₃ = 710 mm

² Values with tiller in creep speed position

³ Initial lift raised; with initial lift lowered: EXV 12i (measure x + y + 71 mm); EXV 14i C (measure x+ y + 80 mm)

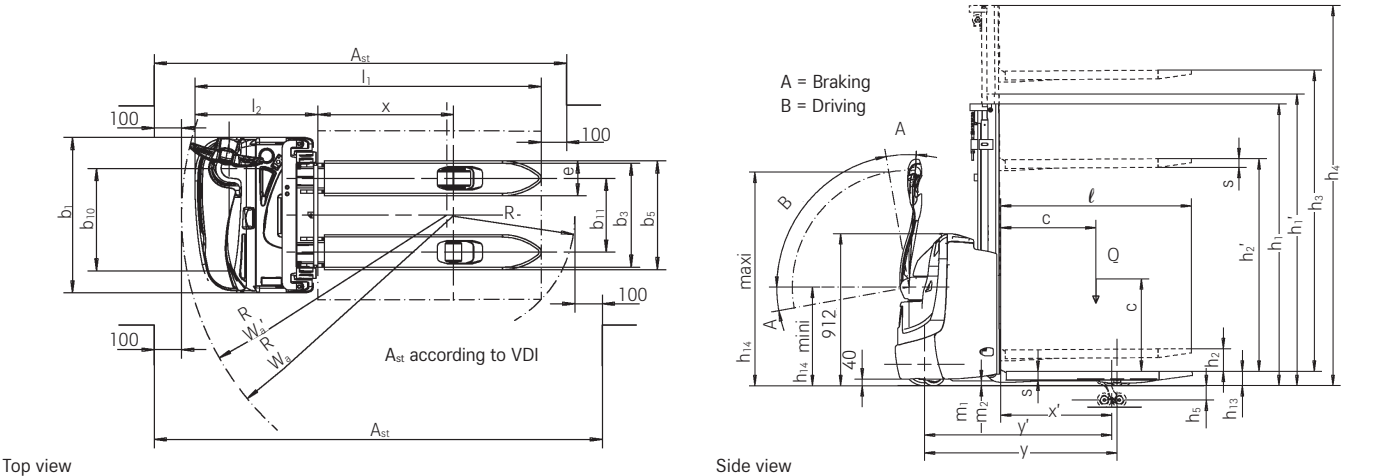
⁴ Initial lift raised; with initial lift lowered: EXV 12i W_a + 67 mm; EXV 14i C + 75 mm

⁵ With tray 66: + 45 mm

⁶ With fork length 1150 mm; with fork length 950: - 200 mm

⁷ With tray 65 (lateral battery change)

⁸ With tray 66



EXV 14 - EXV 20 High Lift Pallet Truck

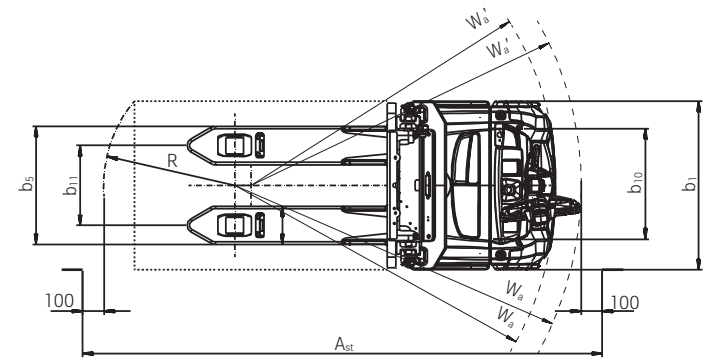
Power meets innovation

This specification sheet, which conforms to VDI guideline 2198, provides the technical values for the standard equipment only. Different tyres, other masts, the use of accessories, etc. may result in other values.

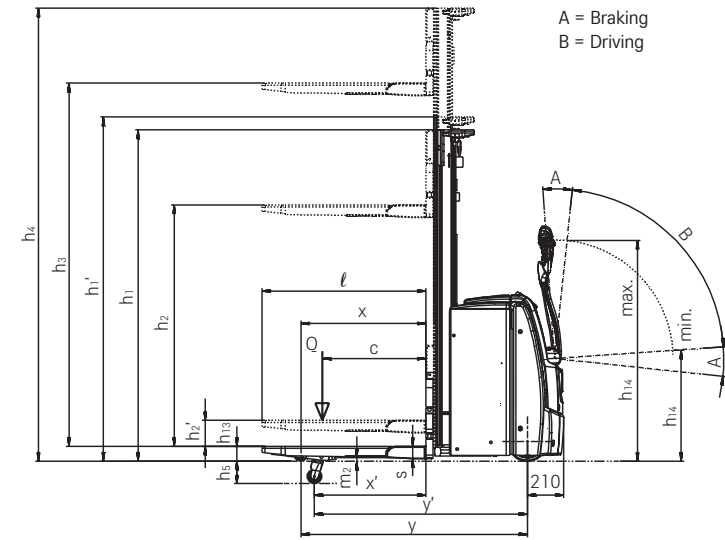


| Distinguishing marks | 1.1 | Manufacturer | | | | STILL | STILL | STILL | STILL | STILL | STILL | STILL | STILL | STILL |
|----------------------|--|--|-----------------|----------------------------------|--|--|---|---|--|---|--|---|---|---|
| | 1.2 | Manufacturer's type designation | | | | EXV 14/Li-Ion | EXV 14i/Li-Ion | EXV 14 D/Li-Ion | EXV 16/Li-Ion | EXV 16i/Li-Ion | EXV 16 D/Li-Ion | EXV 20/Li-Ion | EXV 20i/Li-Ion | EXV 20 D/Li-Ion |
| | 1.3 | Drive | | | | Electric | Electric | Electric | Electric | Electric | Electric | Electric | Electric | Electric |
| | 1.4 | Operator type | | | | Pedestrian | Pedestrian | Pedestrian | Pedestrian | Pedestrian | Pedestrian | Pedestrian | Pedestrian | Pedestrian |
| | 1.5 | Rated capacity/rated load | | Q | kg | 1400 | 1400 (2000) ¹ | 1400/1000+1000 (2000) ¹ | 1600 | 1600 (2000) ¹ | 1600/1000+1000 (2000) ¹ | 2000 | 2000 | 2000/1000+1000 (2000) |
| | 1.6 | Load centre distance | | c | mm | 600 | 600 | 600 | 600 | 600 | 600 | 600 | 600 | 600 |
| | 1.8 | Load distance, centre of drive axle to fork | | x | mm | 724 ² | 724 ² /646 ^{2, 3} | 924 ² /846 ^{2, 3} | 724 ² | 724 ² /646 ^{2, 3} | 924 ² /846 ^{2, 3} | 724 ² | 724 ² /646 ^{2, 3} | 924 ² /846 ^{2, 3} |
| | 1.9 | Wheel base | | y | mm | 1311 ⁴ | 1311 ⁴ /1233 ^{3, 4} | 1511 ⁴ /1433 ^{3, 4} | 1311 ⁴ | 1311 ⁴ /1233 ^{3, 4} | 1511 ⁴ /1433 ^{3, 4} | 1425 | 1425/1347 ³ | 1625 ⁴ /1547 ^{3, 4} |
| | 2.1 | Service weight (incl. battery) | | | kg | 1178 ⁵ | 1144 ⁵ | 1173 ⁵ | 1178 ⁵ | 1144 ⁵ | 1173 ⁵ | 1505 ⁵ | 1439 ⁵ | 1466 ⁵ |
| Weights | 2.2 | Axle loading, laden drive end/load end | | | kg | 964/1614 | 889/1655 | 1109/1464 | 983/1795 | 896/1847 | 1144/1629 | 1307/2198 | 1135/2303 | 1452/2014 |
| | 2.3 | Axle loading, unladen drive end/load end | | | kg | 867/311 | 836/308 | 885/288 | 867/311 | 836/308 | 885/288 | 1063/441 | 1019/420 | 1076/390 |
| | 3.1 | Tyres | | | | Polyurethane | Polyurethane | Polyurethane | Polyurethane | Polyurethane | Polyurethane | Polyurethane | Polyurethane | Polyurethane |
| Tyres/chassis | 3.2 | Tyre size drive end | | | mm | Ø 230 x 90 | Ø 230 x 90 | Ø 230 x 90 | Ø 230 x 90 | Ø 230 x 90 | Ø 230 x 90 | Ø 230 x 90 | Ø 230 x 90 | Ø 230 x 90 |
| | 3.3 | Tyre size load end | | | mm | Ø 85 x 85 (Ø 85 x 60) ⁶ | Ø 85 x 85 (Ø 85 x 60) ⁶ | Ø 85 x 85 (Ø 85 x 60) ⁶ | Ø 85 x 85 (Ø 85 x 60) ⁶ | Ø 85 x 85 (Ø 85 x 60) ⁶ | Ø 85 x 85 (Ø 85 x 60) ⁶ | Ø 85 x 85 (Ø 85 x 60) ⁶ | Ø 85 x 105 (Ø 85 x 80) ⁶ | Ø 85 x 85 (Ø 85 x 80) ⁶ |
| | 3.4 | Support castor size | | | mm | Ø 150 x 50 | Ø 150 x 50 | Ø 150 x 50 | Ø 150 x 50 | Ø 150 x 50 | Ø 150 x 50 | 2x Ø 140 x 50 | 2x Ø 140 x 50 | Ø 150 x 50 |
| | 3.5 | Number of wheels (x = driven) drive end/load end | | | | 1x + 1/2 (1x + 1/4) ⁶ | 1x + 1/2 (1x + 1/4) ⁶ | 1x + 1/2 (1x + 1/4) ⁶ | 1x + 1/2 (1x + 1/4) ⁶ | 1x + 1/2 (1x + 1/4) ⁶ | 1x + 1/2 (1x + 1/4) ⁶ | 1x + 1/2 (1x + 1/4) ⁶ | 1x + 1/2 (1x + 1/4) ⁶ | 1x + 1/2 (1x + 1/4) ⁶ |
| | 3.6 | Tread drive end/load end | | b ₁₀ /b ₁₁ | mm | 534/380 | 534/380 | 534/380 | 534/380 | 534/380 | 534/380 | 534/380 | 534/380 | 534/380 |
| | 4.2 | Height mast lowered | | h ₁ | mm | See mast table | | | See mast table | | | See mast table | | |
| 4.3 | Free lift | | h ₂ | mm | See mast table | | | See mast table | | | See mast table | | | |
| 4.4 | Lift | | h ₃ | mm | See mast table | | | See mast table | | | See mast table | | | |
| 4.5 | Height mast extended | | h ₄ | mm | See mast table | | | See mast table | | | See mast table | | | |
| 4.6 | Initial lift | | h ₅ | mm | - | 110 | 110 | - | 110 | 110 | - | 110 | 110 | |
| 4.9 | Height drawbar in driving position min./max. | | h ₁₄ | mm | 800/1250 | 800/1250 | 800/1250 | 800/1250 | 800/1250 | 800/1250 | 800/1250 | 800/1250 | 800/1250 | 800/1250 |
| 4.15 | Fork height, lowered | | h ₁₃ | mm | 86 | 86 | 86 | 86 | 86 | 86 | 86 | 86 | 86 | 86 |
| 4.19 | Overall length | | l ₁ | mm | 1950 ^{2, 4} | 1950 ^{2, 4} | 1950 ^{2, 4} | 1950 ^{2, 4} | 1950 ^{2, 4} | 1950 ^{2, 4} | 2065 ² | 2065 ² | 2065 ^{2, 4} | |
| 4.20 | Length to face of forks | | l ₂ | mm | 800 ^{2, 4} | 800 ^{2, 4} | 800 ^{2, 4} | 800 ^{2, 4} | 800 ^{2, 4} | 800 ^{2, 4} | 915 ² | 915 ² | 915 ² | |
| 4.21 | Overall width | | b ₁ | mm | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 |
| 4.22 | Fork dimensions | | s/e/l | mm | 55 ⁸ /182/1150 | 55 ⁸ /182/1150 | 55 ⁸ /182/1150 | 55 ⁸ /182/1150 | 55 ⁸ /182/1150 | 55 ⁸ /182/1150 | 73 ⁸ /210/1150 | 73 ⁸ /210/1150 | 61/201/1150 | |
| 4.24 | Fork carriage width | | b ₃ | mm | 780 | 780 | 780 | 780 | 780 | 780 | 780 | 780 | 780 | 780 |
| 4.25 | Distance between fork arms | | b ₅ | mm | 560/680 | 560/680 | 560/530 | 560/680 | 560/680 | 560/530 | 580/680-570 ⁸ | 580/680-570 ⁸ | 570/542 | |
| 4.32 | Ground clearance, centre of wheel base | | m ₂ | mm | 30 | 20/130 ³ | 20/130 ³ | 30 | 20/130 ³ | 20/130 ³ | 20 | 20/130 ³ | 20/130 ³ | 20/130 ³ |
| 4.34 | Working aisle width for pallet 800 x 1200 lengthways | | A _{st} | mm | 2348 ^{3, 4, 7, 10} /2453 ^{4, 7} /2465 ⁴ | 2333 ^{3, 4, 7, 10} /2436 ^{3, 4, 7} /2448 ^{3, 4} | 2384 ^{3, 4, 7, 10} /2499 ^{3, 4} | 2348 ^{4, 7, 10} /2453 ^{4, 7} /2465 ⁴ | 2333 ^{3, 4, 7, 10} /2436 ^{3, 4, 7} /2448 ^{3, 4, 10} | 2384 ^{3, 4, 7, 10} /2499 ^{3, 4} | 2462 ^{7, 10} /2567 ⁷ /2579 | 2447 ^{3, 7, 10} /2550 ^{3, 7} /2562 ³ | 2498 ^{3, 4, 7, 10} /2613 ^{3, 4} | |
| 4.35 | Turning radius | | W _a | mm | 1526 ^{4, 7, 10} /1631 ^{4, 7} /1643 ⁴ | 1450 ^{3, 4, 7, 10} /1553 ^{3, 4, 7} /1565 ^{3, 4} | 1650 ^{3, 4, 7, 10} /1765 ^{3, 4} | 1526 ^{4, 7, 10} /1631 ^{4, 7} /1643 ⁴ | 1450 ^{3, 4, 7, 10} /1553 ^{3, 4, 7} /1565 ^{3, 4} | 1650 ^{3, 4, 7, 10} /1765 ^{3, 4} | 1640 ^{7, 10} /1745 ⁷ /1757 | 1564 ^{3, 7, 10} /1667 ^{3, 7} /1679 ³ | 1764 ^{3, 4, 7, 10} /1879 ^{3, 4} | |
| Performance | 5.1 | Travel speed laden/unladen | | | km/h | 6/6 | 6/6 | 6/6 | 6/6 | 6/6 | 6/6 | 6/6 | 6/6 | 6/6 |
| | 5.2 | Lift speed laden/unladen | | | m/s | 0.16/0.30 | 0.16/0.30 | 0.16/0.30 | 0.15/0.30 | 0.15/0.30 | 0.15/0.30 | 0.15/0.30 | 0.15/0.30 | 0.15/0.30 |
| | 5.3 | Lowering speed laden/unladen | | | m/s | 0.40/0.35 | 0.40/0.35 | 0.40/0.35 | 0.40/0.35 | 0.40/0.35 | 0.40/0.35 | 0.31/0.31 | 0.31/0.31 | 0.31/0.31 |
| | 5.8 | Max. gradeability kB 5 laden/unladen | | | % | 10.0 ⁹ /23.0 ⁹ | 8.0/22.0 | 10.0 ⁹ /22.0 | 10.0 ⁹ /22.0 | 8.0/22.0 | 10.0 ⁹ /22.0 | 8.0 ⁹ /23.0 ⁹ | 8.0/23.0 | 8.0/23.0 |
| | 5.10 | Service brake | | | | Electromagnetic | Electromagnetic | Electromagnetic | Electromagnetic | Electromagnetic | Electromagnetic | Electromagnetic | Electromagnetic | Electromagnetic |
| Electric engine | 6.1 | Drive motor, rating S2 = 60 min | | | kW | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| | 6.2 | Lift motor, rating at S3 15% | | | kW | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 |
| | 6.3 | Battery according to DIN 43531/35/36 A, B, C, no | | | | 2PzS | 2PzS | 2PzS | 2PzS | 2PzS | 2PzS | 3PzS | 3PzS | 3PzS |
| | 6.4 | Battery voltage/rated capacity K ₅ | | | V/Ah | 24/230 Li-Ion: 24/205 | 24/230 Li-Ion: 24/205 | 24/230 | 24/230 Li-Ion: 24/205 | 24/230 Li-Ion: 24/205 | 24/230 Li-Ion: 24/205 | 24/345 Li-Ion: 24/205 | 24/345 Li-Ion: 24/205 | 24/345 Li-Ion: 24/205 |
| | 6.5 | Battery weight ±5% (depends on make) | | | kg | 212 | 212 | 212 | 212 | 212 | 212 | 288 | 288 | 288 |
| | 6.6 | Energy consumption according to VDI cycle | | | kWh/h | 1.14 | 1.24 | 1.24 | 1.15 | 1.25 | 1.25 | 1.44 | 1.57 | 1.62 |
| Other | 8.1 | Drive control | | | | AC control | AC control | AC control | AC control | AC control | AC control | AC control | AC control | AC control |
| | 8.4 | Sound pressure level at driver's ear | | | dB(A) | ≤66 | ≤66 | ≤66 | ≤66 | ≤66 | ≤66 | ≤66 | ≤66 | ≤66 |

- 1 Load capacity on initial lift
- 2 With telescopic or HiLo mast (x -26 mm; l_1 and l_2 +26 mm with triplex mast)
- 3 Wheel arms raised
- 4 +75 mm with 3PzS and +150 mm with 4PzS
- 5 All load values applicable to trucks with telescopic masts $h_1 = 1915$ mm
- 6 With tandem rollers
- 7 Values with creep speed drawbar
- 8 Preferred while using a pallet cage; a carriage with forks thickness $s = 61$ mm is also available
- 9 With sharp-edged ramp break-over angle
- 10 Values refer to the chassis



Top view



Side view

EXV High Lift Pallet Truck

Mast Tables



| EXV 10 - EXV 12i | | | | Single | | Telescopic | | | | | |
|------------------|---|------------------|----|--------------|------|---------------------------|------|------|------|------|------|
| | | | | EXV 10 Basic | | EXV 10 - EXV 12 - EXV 12i | | | | | |
| | Height | h ₁ | mm | 1940 | 2390 | 1490 | 1690 | 1940 | 2140 | 2390 | 2590 |
| | Mast height with used free lift (h ₃ = 150 mm) | h ₁ ' | mm | 1940 | 2390 | 1565 | 1765 | 2015 | 2215 | 2465 | 2665 |
| | Free lift ¹ | h ₂ | mm | 1462 | 1912 | 150 | 150 | 150 | 150 | 150 | 150 |
| | Lift | h ₃ | mm | 1462 | 1912 | 2024 | 2424 | 2924 | 3324 | 3824 | 4224 |
| | Height, mast extended ² | h ₄ | mm | - | - | 2502 | 2902 | 3402 | 3802 | 4302 | 4702 |

| EXV 10 - EXV 12i | | | | HiLo | | | | | | Triplex | |
|------------------|---|------------------|----|---------------------------|------|------|------|------|------|------------------|------|
| | | | | EXV 10 - EXV 12 - EXV 12i | | | | | | EXV 12 - EXV 12i | |
| | Height | h ₁ | mm | 1490 | 1690 | 1940 | 2140 | 2390 | 2590 | 1690 | 1940 |
| | Mast height with used free lift (h ₃ = 150 mm) | h ₁ ' | mm | 1490 | 1690 | 1940 | 2140 | 2390 | 2590 | 1690 | 1940 |
| | Free lift ¹ | h ₂ | mm | 1012 | 1212 | 1462 | 1662 | 1912 | 2112 | 1212 | 1462 |
| | Lift | h ₃ | mm | 2024 | 2424 | 2924 | 3324 | 3824 | 4224 | 3636 | 4386 |
| | Height, mast extended ² | h ₄ | mm | 2502 | 2902 | 3402 | 3802 | 4302 | 4702 | 4118 | 4868 |

¹ With load backrest - 404 mm

² With load backrest + 404 mm

| EXV 14 C - EXV 14i C | | | | Telescopic | | | | | | | |
|----------------------|---|------------------|----|----------------------|------|------|------|------|------|------|--|
| | | | | EXV 14 C - EXV 14i C | | | | | | | |
| | Height | h ₁ | mm | 1415 | 1665 | 1915 | 2115 | 2365 | 2565 | 2815 | |
| | Mast height with used free lift (h ₃ = 150 mm) | h ₁ ' | mm | 1490 | 1740 | 1990 | 2190 | 2440 | 2640 | 2890 | |
| | Free lift ¹ | h ₂ | mm | 150 | 150 | 150 | 150 | 150 | 150 | 150 | |
| | Lift | h ₃ | mm | 1844 | 2344 | 2844 | 3244 | 3744 | 4144 | 4644 | |
| | Height, mast extended ² | h ₄ | mm | 2364 | 2864 | 3364 | 3764 | 4264 | 4664 | 5164 | |

| | | | | HiLo | | | | | | Triplex | | | | |
|----------------------|---|------------------|----|----------------------|------|------|------|------|------|---------|------|------|------|------|
| EXV 14 C - EXV 14i C | | | | EXV 14 C - EXV 14i C | | | | | | | | | | |
| | Height | h ₁ | mm | 1415 | 1665 | 1915 | 2115 | 2365 | 2565 | 1665 | 1915 | 2065 | 2265 | 2315 |
| | Mast height with used free lift (h ₃ = 150 mm) | h ₁ ' | mm | 1415 | 1665 | 1915 | 2115 | 2365 | 2565 | 1665 | 1915 | 2065 | 2265 | 2315 |
| | Free lift ¹ | h ₂ | mm | 895 | 1145 | 1395 | 1595 | 1845 | 2045 | 1145 | 1395 | 1545 | 1745 | 1795 |
| | Lift | h ₃ | mm | 1844 | 2344 | 2844 | 3244 | 3744 | 4144 | 3516 | 4266 | 4716 | 5316 | 5466 |
| | Height, mast extended ² | h ₄ | mm | 2364 | 2864 | 3364 | 3764 | 4264 | 4664 | 4036 | 4786 | 5236 | 5836 | 5986 |

¹ With load backrest - 566 mm

² With load backrest + 566 mm

HiLo: High stacking under low roof

| EXV 14 - EXV 14i - EXV 16 - EXV 16i | | | | Telescopic | | | | | | | |
|-------------------------------------|---|------------------|----|-------------------------------------|------|------|------|------|------|------|--|
| | | | | EXV 14 - EXV 14i - EXV 16 - EXV 16i | | | | | | | |
| | Height | h ₁ | mm | 1415 | 1665 | 1915 | 2115 | 2365 | 2565 | 2815 | |
| | Mast height with used free lift (h ₃ = 150 mm) | h ₁ ' | mm | 1490 | 1740 | 1990 | 2190 | 2440 | 2640 | 2890 | |
| | Free lift ² | h ₂ | mm | 150 | 150 | 150 | 150 | 150 | 150 | 150 | |
| | Lift | h ₃ | mm | 1844 | 2344 | 2844 | 3244 | 3744 | 4144 | 4644 | |
| | Height, mast extended ³ | h ₄ | mm | 2364 | 2864 | 3364 | 3764 | 4264 | 4664 | 5164 | |

| EXV 14 - EXV 14i - EXV 16 - EXV 16i | | | | HiLo | | | | | | Triplex | | | | | |
|-------------------------------------|------------------------------------|----------------|----|-------------------------------------|------|------|------|------|------|---------|------|------|------|------|------|
| | | | | EXV 14 - EXV 14i - EXV 16 - EXV 16i | | | | | | | | | | | |
| | Height | h ₁ | mm | 1415 | 1665 | 1915 | 2115 | 2365 | 2565 | 1665 | 1915 | 2065 | 2165 | 2265 | 2315 |
| | Free lift ¹ | h ₂ | mm | 895 | 1145 | 1395 | 1595 | 1845 | 2045 | 1145 | 1395 | 1545 | 1645 | 1745 | 1795 |
| | Lift | h ₃ | mm | 1844 | 2344 | 2844 | 3244 | 3744 | 4144 | 3516 | 4266 | 4716 | 5016 | 5316 | 5466 |
| | Height, mast extended ³ | h ₄ | mm | 2364 | 2864 | 3364 | 3764 | 4264 | 4664 | 4036 | 4786 | 5236 | 5536 | 5836 | 5986 |

¹ - 566 mm with load backrest

² With increased mast height h₁'

³ + 566 mm with load backrest (height above the forks 1000 mm)

| EXV 20 - EXV 20i | | | | Telescopic | | | HiLo | | | Triplex | | |
|------------------|---|------------------|----|------------------|------|------|------|------|------|---------|------|------|
| | | | | EXV 20 - EXV 20i | | | | | | | | |
| | Height | h ₁ | mm | 1915 | 2115 | 2365 | 1915 | 2115 | 2365 | 1665 | 1915 | 2065 |
| | Mast height with used free lift (h ₃ = 150 mm) | h ₁ ' | mm | 1990 | 2190 | 2440 | - | - | - | - | - | - |
| | Free lift ¹ | h ₂ | mm | - | - | - | 1315 | 1515 | 1765 | 1065 | 1315 | 1465 |
| | Free lift ² | h ₂ | mm | 150 | 150 | 150 | - | - | - | - | - | - |
| | Lift | h ₃ | mm | 2684 | 3084 | 3584 | 2684 | 3084 | 3584 | 3276 | 4026 | 4476 |
| | Height, mast extended ³ | h ₄ | mm | 3284 | 3684 | 4184 | 3284 | 3684 | 4184 | 3876 | 4626 | 5076 |

¹ - 566 mm with load backrest

² With increased mast height h₁'

³ + 566 mm with load backrest (height above the forks 1080 mm)

HiLo: High stacking under low roof

EXV High Lift Pallet Truck
Power meets innovation



EXV 12



EXV 16

EXV 10 - EXV 14 C High Lift Pallet Truck

Detailed Photos



A quick glance at the LED display is all it takes to have all the relevant vehicle information clearly at hand



Safe manoeuvring and easy load handling in confined spaces with standard crawl speed and mast lift button on the back of the tiller



Optional initial lift gives greater ground clearance on uneven floors



Easy threading into the pallets: fast and precise operation thanks to rounded forks



Hands free: practical storage compartments and a writing pad with built-in clipboard



Unauthorised access not possible: access authorisation by key, PIN code, chip or card



Maximum vehicle availability thanks to the simple lateral battery change on the EXV 14 C (optional)



Easily overcome slopes thanks to the optional initial lift

EXV 14 - EXV 20 High Lift Pallet Truck

Detailed Photos



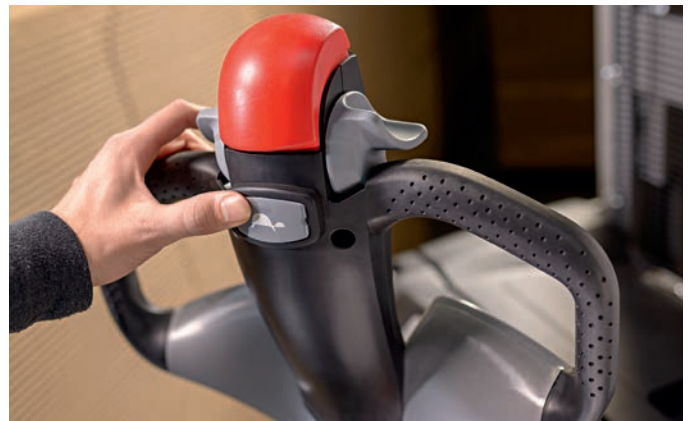
Safety in production: depending on tiller angle, speed is automatically adapted to the distance between the operator and the truck



High turnover performance due to double deck transport of non-stackable goods



Everything in view, all the time: colour display with a range of language-independent symbols shows you all of the important functions at a glance



Precise in all situations: the optional creep speed switch enables manoeuvring in even the tightest spaces



STILL free view mast always ensures the best view of the tips of the forks



Increased ground clearance for uneven floors and ramps thanks to optional initial lift on which loads of up to 2000 kg can be transported

EXV 10 - EXV 14 C High Lift Pallet Truck

Power meets innovation

Optimum utilisation of storage area: high storage compaction due to high residual load capacity

Intuitive one-handed operation whether left or right-handed, no matter how big or small your hands are – all thanks to the unique tiller ergonomics

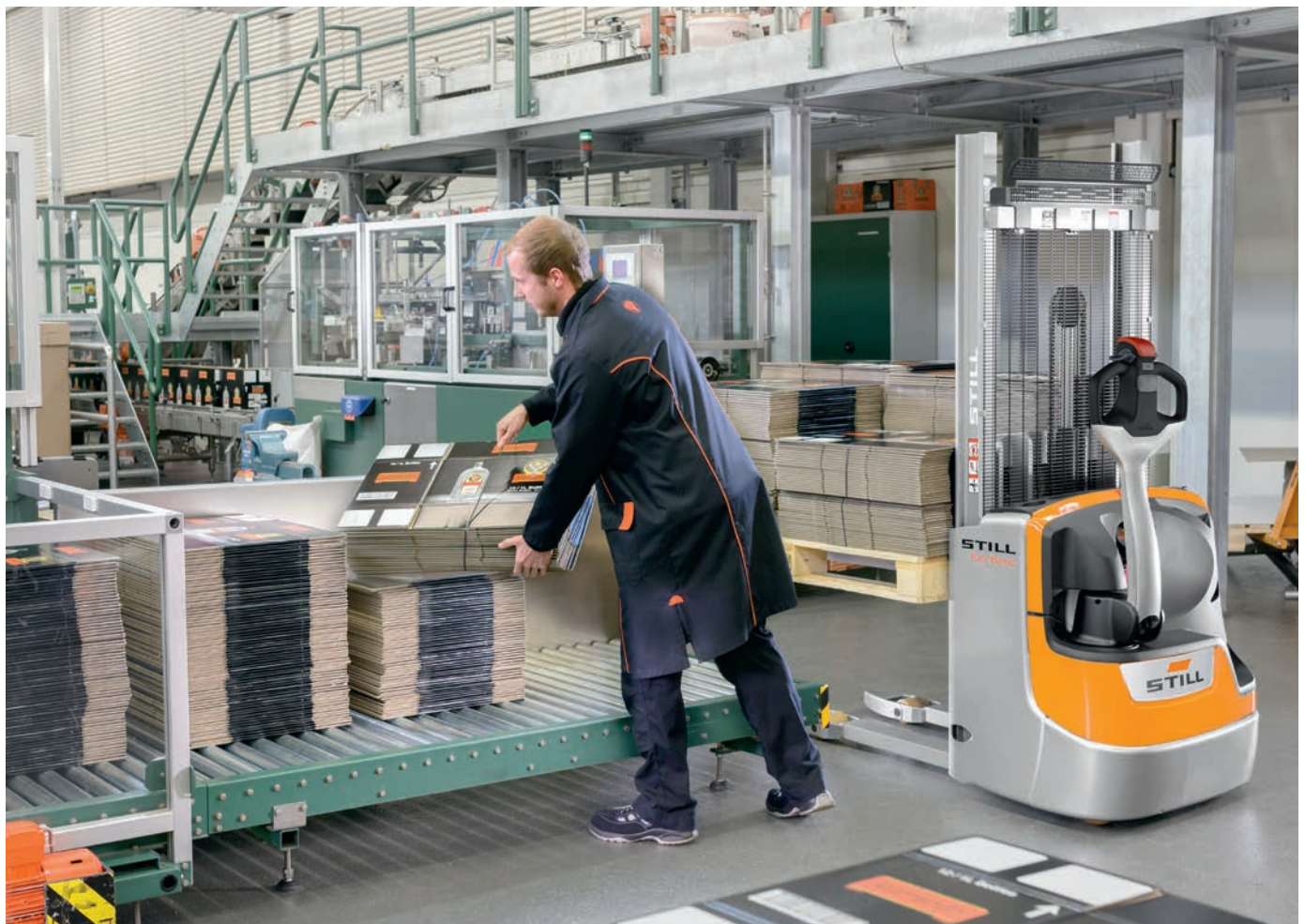
View all the relevant information at a glance thanks to the LED display integrated in the tiller head

Impressive reloading of pallets: fast operation due to compact dimensions



Everything you need to know about EXV pallet stackers fitted with unique OptiSpeed tillers. The speed of this manually guided warehouse assistant is automatically modified depending on the distance between the operator and the truck. Starting with the unique tiller ergonomics: a lot of thought has gone into the positioning of the control elements. They enable intuitive one-handed operation for all operators, no matter the size of the hand and whether it is the right or left. Meanwhile the LED display on the tiller head allows the operator to keep an eye on all relevant truck information.

And as if that wasn't enough: the truck is particularly impressive on slopes due to its stability and automatic stopping capability whenever the tiller is released. Sophisticated lower damping which smoothly slows down the lowering speed shortly before floor contact, protects goods during the storage processes. The EXV makes it possible for goods to be more densely packed in storage and easily removed than ever before. Its high residual load capacity and extraordinary mobility make this compact pallet truck unbeatable when it comes to moving a large quantities of goods quickly and safely in confined spaces using a manual device – regardless of being moved around the pre-storage area or placed onto shelving.



EXV 10 Basic

EXV 14 - EXV 20 High Lift Pallet Truck

Power meets innovation

Optimum utilisation of storage area: high storage compaction due to very high residual load capacity

Everything in view, all the time: colour display with a range of language-independent symbols shows you all of the important functions at a glance

Always available: battery capacities of up to 375 Ah and Li-Ion enable long periods of operation



Stronger and more intelligent than the rest – that's the STILL EXV 14-20 high lift pallet truck. Two of its stand-out features are its huge residual load capacity and its smart colour display. The latter provides the operator with basic information, the truck status or the battery's state of charge at a glance at all times, and different language-independent symbols provide optimum support in operation. The smart and extremely mobile warehouse organiser moves pallets weighing up to 2,000 kg quickly, safely and reliably. It can achieve unprecedented reloading of pallets thanks to its powerful and low-maintenance motor and its precise control elements, which are suitable for either left- or right-handed operators.

The letters EXV are not, however, just synonymous with quick goods handling, but also with safe goods handling. The optional load capacity diagram and Dynamic Load Control shows what is possible. The curved tiller shape and the sensitive impact plate protect the driver, and the EXV stops automatically when the tiller is released – even on ramps. The OptiSpeed tiller also adjusts the speed of the EXV to the distance from the operator, while the Curve Speed Control system regulates the speed around bends. This high lift pallet truck, which is as strong as it is smart, allows you to always keep your flow of goods safely under control; from transporting loads within the pre-storage area to operating the shelving system.



EXV 16

EXV High Lift Pallet Truck iGo systems

Maximum safety: smart safety functions increase transport quality and eliminate risks of accidents and damage to people, vehicles, storage equipment and goods

Outstanding process excellence: avoiding mispicks and empty runs increases transport quality

Maximum availability: efficient transport control and IT integration enable optimal fleet utilisation around the clock

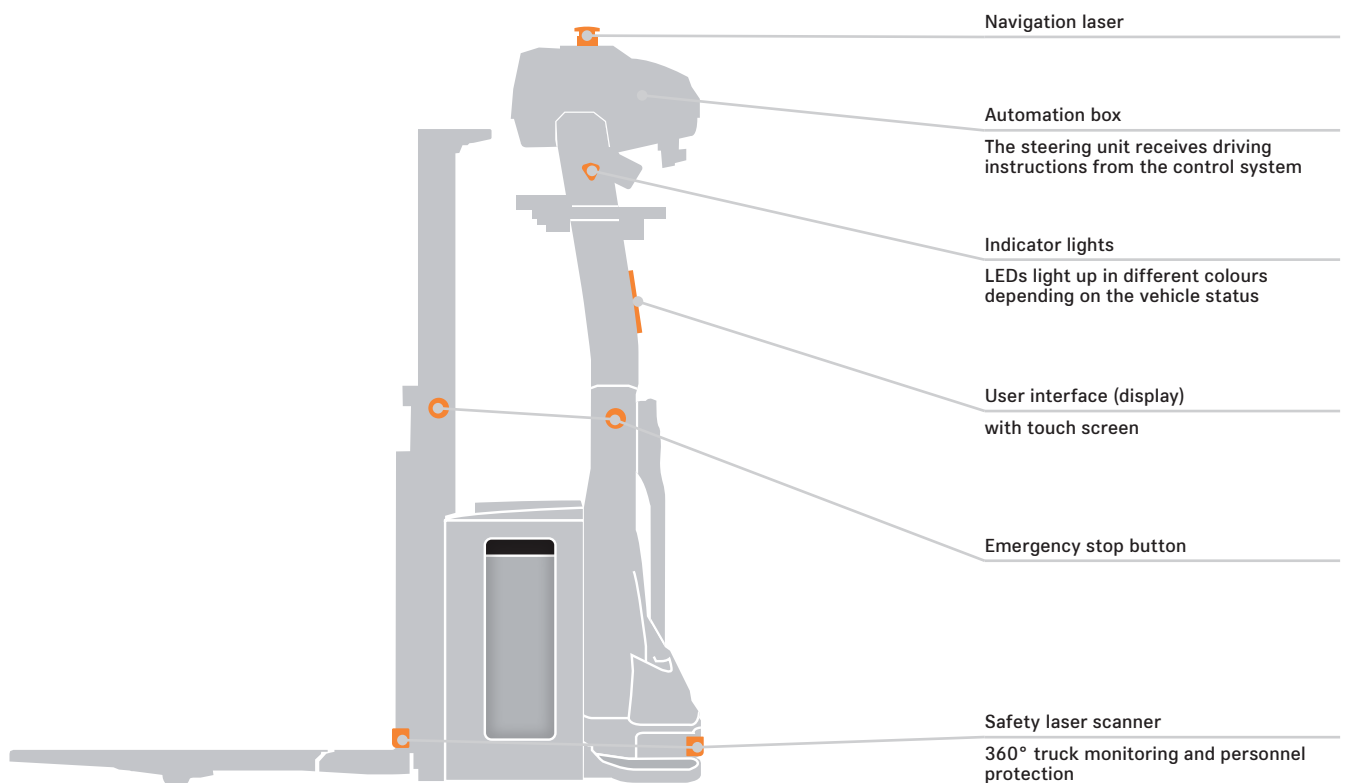
Optimum cost-effectiveness and efficiency through individual automation concepts as well as transparent and optimised continuous material flow



iGo systems – Automated transport solutions

STILL iGo systems enables automated interaction between one or more different trucks so that transport tasks in the warehouse can be performed without a driver. No matter what your transport task, we have the right automated truck for you. The various trucks in the iGo systems portfolio assist with incoming and outgoing goods, storage, buffering, order picking, as well as production supply and disposal. The iGo software takes over control and traffic regulation tasks, achieves effective fleet utilisation and monitors all battery charge statuses. Modern navigation technology is used to guide the trucks through the warehouse. Personnel protection scanners ensure

the highest level of safety, while suitable sensors accurately detect pallets. The fully automated STILL devices cooperate effectively with manually controlled and semi-automated transport systems. Automation kits with standardised components, controls and interfaces transform a series truck into an industrial AGV (automated guided vehicle). We offer you reliable and scalable solutions across the entire automation spectrum. With your return on investment always in mind, we will support you all the way: from conception and quoting to implementation and maintenance.





Our service offers for your automated systems:

We do not compromise when it comes to the availability of your intralogistics systems. This does of course also apply to your automated systems. Whether hardware or software, maintenance or repair, we tailor our services according to your individual requirements and those of your system. This allows you to concentrate fully on

your business without downtimes, waiting periods or spare parts bottlenecks. Our service technicians are highly qualified, equally as dedicated, and available 365 days a year to assist you.

Availability. Reliability. Speed.

Advantages of automated high lift pallet trucks

Automated high lift pallet trucks are efficient, safe and powerful, and – combined with other driverless transport systems – pave the way for highly efficient, safe and flexible logistics processes. The EXV iGo systems is the perfect truck for setting new standards, particularly in production logistics and the pre-storage zone. It excels in storage and retrieval in wide-aisle and block storage systems, at high rack warehouse transfer stations, in automatic route provision, and also in horizontal transport – for the latter it can also easily handle longer distances with a maximum speed of 7.2 km/h. The truck's high residual load capacity and a lift height of up to 3.8 metres make it a reliable and powerful partner for storage and retrieval. The EXV iGo systems can easily be integrated into existing IT structures, or be used as a stand-alone system for simple, repeat transport tasks. It guarantees optimal process reliability, precision and maximum safety, even in mixed operation. This is ensured by the 360° personnel protection,

which protects people, the truck and the load using sensitive scanners and sensors. The following safety features are integrated as standard: a safety laser scanner that detects people and objects in the path of travel; visual and acoustic warning systems (e. g. when changing direction of travel); and an emergency stop button that can be used to bring the forklift truck to an immediate standstill. The EXV can be operated in dual operation if required.

Industrialised AGVs (automated guided vehicles) are powerful components for optimising your warehouse and your logistics. However, not every technological innovation is financially feasible for every task. We will help you choose the right concept and level of automation for you and will guide you reliably through the maze of digital solutions available as part of industry 4.0.



Simply easy

- Flexible, intuitive operation of all control elements on the tiller head with one hand, without the need to change grip, naturally for both left- and right-handed operators
- Reliable availability thanks to large colour display with battery status display
- Optimal ergonomics and reduced physical strain for the operator thanks to electric driving, lifting and lowering functions
- Clear view through the mast to the fork tips facilitates hassle-free pallet handling
- Unbeatable handling performance: powerful motor, high residual load capacity and responsive control elements
- With iGo systems vehicles, additional vehicles can be added at any time so as to expand transportation capacity
- Safety for man and machine: OptiSpeed tiller and automatic stop mechanism when the tiller is released
Safe manoeuvring even in restricted space thanks to creep speed mode
- Information on the lift height at a glance – on the coloured load capacity display
- Estimate the load correctly: Dynamic Load Control can be used to estimate the load and the corresponding maximum lift height (for the EXV 14-20)
- EXV iGo systems improves transport quality and eliminates the risk of injury and damage to people, trucks, warehouse equipment and goods thanks to smart safety functions



Simply powerful

- Power meets safety: the four-wheel chassis ensures outstanding stability and effective performance
- Reliable excellent performance thanks to the powerful yet low-maintenance AC motor
- New level of precision and safety for user and load thanks to the responsive proportional valve control
- Optimal availability, low-maintenance and high performance thanks to the optional lithium-ion technology
- Smooth and precise electrical steering (for the EXV 14-20)
- Software-based transport controls for the EXV iGo systems enable optimal fleet utilisation, whilst guaranteeing a high level of process reliability, traffic management, visualisation of truck movements, battery charge status monitoring and reduced error rates – the flow of materials and information is always reliable and mapped comprehensively and transparently



Simply safe

- Maximum driver safety thanks to the low-entry truck frame and load backrests
- Initial lift ensures stable and low-vibration driving performance, even if there are slight gradients or unevenness in the floor



Simply flexible

- Precision even in confined spaces thanks to compact dimensions
- Well-equipped for a wide range of applications with different driving programmes
- Ready for use at all times: the battery can be charged and interim charged flexibly from any location without the need for a fixed charging station
- iGo systems trucks can also be operated manually if required: this increases flexibility, safeguards process and material flow and enables easy access to goods



Simply connected

- Compact information: all relevant truck information is available at a glance in the STILL neXXt fleet web application.
- Innovative STILL FleetManager keeps driver and truck safe: operator management and shock detection as well as damage and cost minimisation thanks to access protection
- Optimisation of the goods flow thanks to straightforward connection to existing material flow management systems via MMS provision
- Different iGo systems trucks can be combined with one another, and with manual transport systems and stationary automation systems



EXV High Lift Pallet Truck Equipment Variants



| | | EXV 10 Basic | EXV 10/ EXV 12 | EXV 12i | EXV 14 C | EXV 14i C | EXV 14/ EXV 16/ EXV 20 | EXV 14i/EXV 14 D EXV 16i/EXV 16 D EXV 20i/EXV 20 D |
|---------------------|---|-----------------|-------------------|---------|----------|-----------|------------------------------|--|
| General information | Integrated storage option | ● | ● | ● | ● | ● | ● | ● |
| | Display of operating hours and battery status | ● | ● | ● | ● | ● | ○ | ○ |
| | Display of operating hours and battery status with colour display | — | — | — | — | — | ● | ● |
| | Easy-grip tiller for left and right-handed operators | ● | ● | ● | ● | ● | ● | ● |
| | Various driving programmes | ● | ● | ● | ● | ● | ● | ● |
| | Blue-Q energy-saving system | — | — | — | — | — | ● | ● |
| | Various fork lengths | — | ○ | ○ | ○ | ○ | ○ | ○ |
| | Cold store variant | ○ | ○ | ○ | ○ | ○ | ● | ● |
| | 2-tonne load capacity with initial lift when mast is not used | — | — | — | — | — | — | ● |
| | Proportional valve technology for especially sensitive movements | — | ● | ● | ● | ● | ● | ● |
| Mast | Double-deck version | — | — | — | — | — | — | —/● |
| | Simplex mast | ● | — | — | — | — | — | — |
| | Telescopic mast | — | ○ | ○ | ○ | ○ | ○ | ○ |
| | HiLo mast | — | ○ | ○ | ○ | ○ | ○ | ○ |
| | Triplex mast | — | —/● | ○ | ○ | ○ | ○ | ○ |
| | Mast protective grille | ● | ● | ● | ● | ● | ● | ● |
| | Protective mast screen made from polycarbonate | — | ○ | ○ | ○ | ○ | ○ | ○ |
| | Colour load capacity display on the mast | — | ○ | ○ | ○ | ○ | ○ | ○ |
| | Initial lift | — | — | ● | — | ● | — | ● |
| | Automatic lowering of initial lift at 1500 mm mast height | — | — | — | — | — | — | ○/— |
| Wheels | Drive wheel tyres, polyurethane | ● | ● | ● | ● | ● | ● | ● |
| | Drive wheel tyres, polyurethane, profiled | — | ○ | ○ | ○ | ○ | ○ | ○ |
| | Drive wheel tyres, solid rubber | — | ○ | ○ | ○ | ○ | ○ | ○ |
| | Drive wheel tyres, solid rubber, profiled | — | ○ | ○ | ○ | ○ | ○ | ○ |
| | Load roller tyres, polyurethane, single | ● | ● | ● | ● | ● | ○ | ○ |
| | Load roller tyres, polyurethane, tandem | — | ○ | ○ | ○ | ○ | ● | ● |
| | Stabilising wheel, single | ● | ● | ● | ● | ● | ● | ● |
| | Stabilising wheel, double | — | — | — | — | — | ○ | ○ |
| Safety | FleetManager: access authorisation, shock detection, reports | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | OptiSpeed tiller: max. driving speed dependent on tiller angle | — | ○ | ○ | ○ | ○ | ● | ● |
| | Dynamic Load Control | — | — | — | — | — | ○ | ○/— |
| | Curve Speed Control: speed reduction when driving around corners | — | — | — | — | — | ● | ● |
| | Silent running and lifting/lowering with vertical tiller | — | ○ | ○ | ○ | ○ | ○ | ○ |
| | PIN code access | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | Foot guard | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Battery system | Load backrest | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | Roller track for lateral battery change | — | — | — | ○ | — | ○ | ○ |
| | Battery change by crane | ● | ● | ● | ● | ● | ● | ● |
| | Battery compartment for 2PzS battery | ● | ● | ● | ● | ● | ● | ● |
| | Battery compartment for 3PzS battery | — | — | — | — | ○ | ○ | ○ |
| | Battery compartment for lateral battery change | — | — | — | ○ | — | ○ | ○ |
| | STILL Li-ion battery | ○ | ○ | — | ○ | — | ○ | ○ |

● Standard ○ Option — Not available



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