

EXV Technical Data

High Lift Pallet Truck



[EXV 10\(i\)C/Li-Ion](#)

[EXV 12\(i\)C/Li-Ion](#)

[EXV 14\(i\)C/Li-Ion](#)

[EXV 16\(i\)C/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/Li-Ion](#)

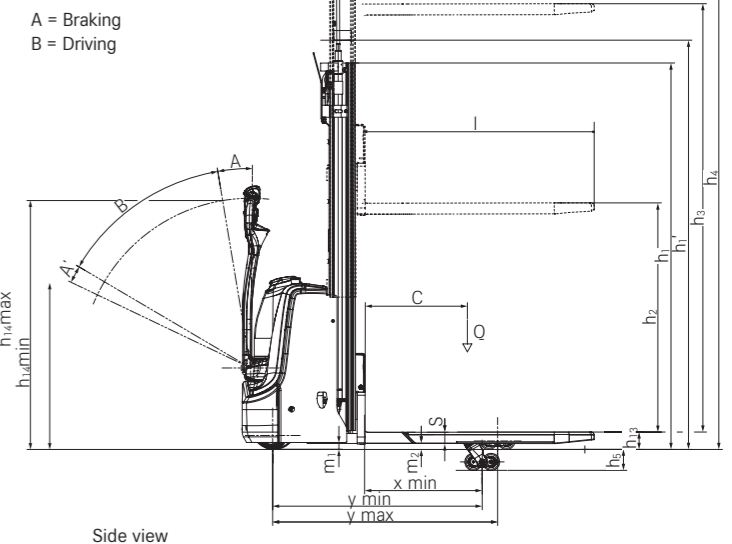
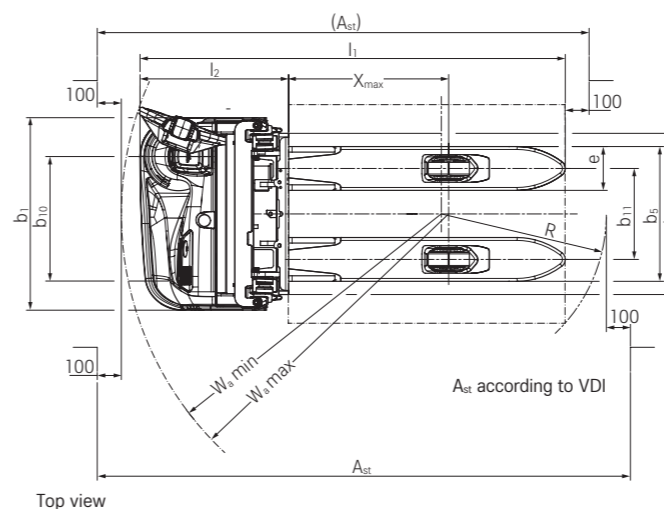




Distinguishing marks		EXV 14 C			EXV 14(i) C/D (double stacker)			EXV 16 C			EXV 16(i) C/D (double stacker)					
Mast		Telescopic			Telescopic			Telescopic			Telescopic					
Drive		Electric			Electric			Electric			Electric					
Operator type		Pedestrian			Pedestrian			Pedestrian			Pedestrian					
1.1	Manufacturer	STILL			STILL			STILL			STILL					
1.2	Manufacturer's type designation	EXV 14 C			EXV 14(i) C/D (double stacker)			EXV 16 C			EXV 16(i) C/D (double stacker)					
1.3	Drive	Electric			Electric			Electric			Electric					
1.4	Operator type	Pedestrian			Pedestrian			Pedestrian			Pedestrian					
1.5	Rated capacity/rated load	Q	kg	1400			1400/1600/600+800 ¹			1600			1600/1600/600+800 ¹			
1.6	Load centre distance	c	mm	600			600			600			600			
1.8	Load distance, centre of axle to fork	x	mm	721	721	696	733/688 ³	733/688 ³	707/662 ³	721	721	696	733/688 ³	733/688 ³	707/662 ³	
1.9	Wheel base	y	mm	1237 ⁵			1317/1272 ^{3,5}			1237 ⁵			1317/1272 ^{3,5}			
2.1	Service weight (incl. battery)			kg	977 ⁶	993 ⁶	1111 ⁶	1023 ⁶	1039 ⁶	1157 ⁶	977 ⁶	993 ⁶	1111 ⁶	1023 ⁶	1039 ⁶	1157 ⁶
2.2	Axle loading, laden	drive end/load end		kg	837/1540	847/1546	893/1618	791/1632	800/1639	842/1715	856/1721	866/1727	908/1803	804/1819	814/1825	851/1906
2.3	Axle loading, unladen	drive end/load end		kg	700/277	710/283	785/326	713/310	722/316	793/364	700/277	710/283	785/326	713/310	722/316	793/364
3.1	Tyres				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		
3.3	Tyre size	load end		mm	1x Ø 85 x 85			2x Ø 85 x 85			1x Ø 85 x 85			2x Ø 85 x 85		
3.4	Additional wheels (dimensions)			mm	Ø 140 x 54			Ø 140 x 54			Ø 140 x 54			Ø 140 x 54		
3.5	Number of wheels (x = driven)				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	516/380			516/380			516/380			516/380		
4.2	Height	mast lowered		h ₁	See mast table			See mast table			See mast table			See mast table		
4.3	Free lift			h ₂	See mast table			See mast table			See mast table			See mast table		
4.4	Lift			h ₃	See mast table			See mast table			See mast table			See mast table		
4.5	Height	mast extended		h ₄	See mast table			See mast table			See mast table			See mast table		
4.6	Initial lift			h ₅	-			110			-			110		
4.9	Height drawbar in driving position	min./max.		h ₁₄	841/1249 ⁸			841/1249 ⁸			841/1249 ⁸			841/1249 ⁸		
4.10	Height of wheel arms			h ₈	80			80			80			80		
4.15	Forks height	lowered		h ₁₃	86			86			86			86		
4.19	Overall length			l ₁	1826 ^{5,10}	1826 ^{5,10}	1851 ^{5,10}	1894 ^{5,10}	1894 ^{5,10}	1919 ^{5,10}	1826 ^{5,10}	1826 ^{5,10}	1851 ^{5,10}	1894 ^{5,10}	1894 ^{5,10}	1919 ^{5,10}
4.20	Length to face of forks			l ₂	676 ^{5,10}		701 ^{5,10}	744 ^{5,10}		769 ^{5,10}	676 ^{5,10}		701 ^{5,10}	744 ^{5,10}		769 ^{5,10}
4.21	Overall width			b ₁	800 ¹¹			800 ¹¹			800 ¹¹			800 ¹¹		
4.22	Fork dimensions			s/e/l	55 ¹³ /182/1150			55 ¹³ /182/1150			55 ¹³ /182/1150			55 ¹³ /182/1150		
4.24	Fork carriage width			b ₃	780			780			780			780		
4.25	Overall fork width			b ₅	560			560			560			560		
4.31	Ground clearance, laden	below mast		m ₁	27			16			27			16		
4.32	Ground clearance, centre of wheel base			m ₂	30			20/130 ³			30			20/130 ³		
4.34.1	Aisle width for pallets 1000 x 1200 crossways			A _{st}	2360 (2127) ^{5,15}		2371 (2152) ^{5,15}	2406 (2192) ^{3,5,15}		2419 (2218) ^{3,5,15}	2360 (2127) ^{5,15}		2371 (2152) ^{5,15}	2406 (2192) ^{3,5,15}		2419 (2218) ^{3,5,15}
4.34.2	Aisle width for pallets 800 x 1200 lengthways			A _{st}	2322 (2177) ^{5,15}		2341 (2202) ^{5,15}	2380 (2242) ^{3,5,15}		2400 (2268) ^{3,5,15}	2322 (2177) ^{5,15}		2341 (2202) ^{5,15}	2380 (2242) ^{3,5,15}		2400 (2268) ^{3,5,15}
4.35	Turning radius			W _a	1498 ^{5,15}			1573 ^{3,15} /1530 ^{3,5,15}			1498 ^{5,15}			1573 ^{5,15} /1530 ^{3,5,15}		
5.1	Travel speed	laden/unladen		km/h	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		
5.2	Lift speed	laden/unladen		m/s	0.14/0.27	0.14/0.25	0.14/0.25	0.14/0.27	0.14/0.25	0.14/0.25	0.13/0.27	0.13/0.25	0.13/0.25	0.13/0.27	0.13/0.25	0.13/0.25
5.3	Lowering speed	laden/unladen		m/s	0.42/0.27	0.40/0.22	0.40/0.26	0.42/0.27	0.40/0.22	0.40/0.26	0.42/0.27	0.40/0.22	0.40/0.26	0.42/0.27	0.40/0.22	0.40/0.26
5.8	Max. gradeability S2 = 5 min	laden/unladen		%	5/10			7/15			5/10			7/15		
5.10	Service brake				Electromagnetic			Electromagnetic			Electromagnetic			Electromagnetic		
6.1	Drive motor, rating S2 = 60 min			kW	1.3			1.3			1.3			1.3		
6.2	Lift motor, rating S3 = 15 %			kW	3.0/11			3.0/11			3.0/11			3.0/11		
6.3	Battery according to DIN 43531/35/36; A, B, C, no				No			No			No			No		
6.4	Battery voltage/Rated capacity K _S			V/Ah	24 V 2PzS-B 200 Ah			24 V 2PzS-B 200 Ah			24 V 2PzS-B 200 Ah			24 V 2PzS-B 200 Ah		
6.5	Battery weight ±5% (depends on make)			kg	195			195			195			195		
6.6	Energy consumption according to DIN EN 16796			kWh/h	0.69			0.69			0.74			0.74		
6.6.1	CO ₂ equivalent emissions			kg/h	0.4			0.4			0.4			0.4		
6.7	Turnover output according to VDI 2198			t/h	53			53			60			60		
6.8	Turnover efficiency according to VDI 2198			t/kWh	45			45			49			49		
8.1	Drive control				AC control			AC control			AC control			AC control		
10.7	Sound pressure level at driver's			dB(A)	<70			<70			<70			<70		

- ¹ Capacity on main lift / capacity on initial lift / capacity for double pallet transport (on main lift + on load arms); double deck version is available for telescopic and HiLo mast with lift h₃ >4000 mm and simplex mast only
- ² With fork carriage s = 65 mm (built-in); with fork carriage s = 55 mm (built-out) -32 mm for simplex mast; -35 mm for telescopic compact, telescopic and HiLo mast
- ³ Wheel arms raised
- ⁴ With tray 11; with tray 95 1.2 t +55 mm
- ⁵ With tray 95 1.6 t; with tray 112 +65 mm
- ⁶ With 1.0-1.2 t mast: h₁ = 1940 mm and tray 11; with 1.4-1.6 t mast: h₁ = 1915 mm and tray 95 1.6 t
- ⁷ With fork spread b₅ = 560 mm; with b₅ = 520 mm -40 mm (not in combination with double deck option)
- ⁸ From butterfly rotation axis; in creep speed position +11 mm
- ⁹ With fork carriage s = 55 mm (built out) +32 mm for simplex mast; +35 mm for telescopic compact, telescopic and HiLo mast
- ¹⁰ With passive foot protection +15 mm; with active foot protection +23 mm
- ¹¹ With passive foot protection +21 mm; with active foot protection +34 mm
- ¹² With fork carriage built in; with fork carriage built out s = 55 mm and b₃ = 711 mm
- ¹³ With fork carriage with non deflecting forks s = 71 mm
- ¹⁴ Additional fork spread available: b₅ = 520 mm with tray 95 only and not in combination with double deck option
- ¹⁵ With tiller in the upper working position (10°) and fully turned clockwise; in creep speed position -13 mm. The A_{st} values in brackets are calculated for the special case where the swivelling range R is free.
- ¹⁶ With fork carriage s = 65 mm; with fork carriage s = 55 mm +15 mm (+32 for value in brackets) for simplex mast; +17 mm (+35 for value in brackets) for telescopic compact, telescopic and HiLo mast
- ¹⁷ With fork carriage s = 65 mm; with fork carriage s = 55 mm +25 mm (+32 for value in brackets) for simplex mast; +28 mm (+35 for value in brackets) for telescopic compact, telescopic and HiLo mast

* Double stacker

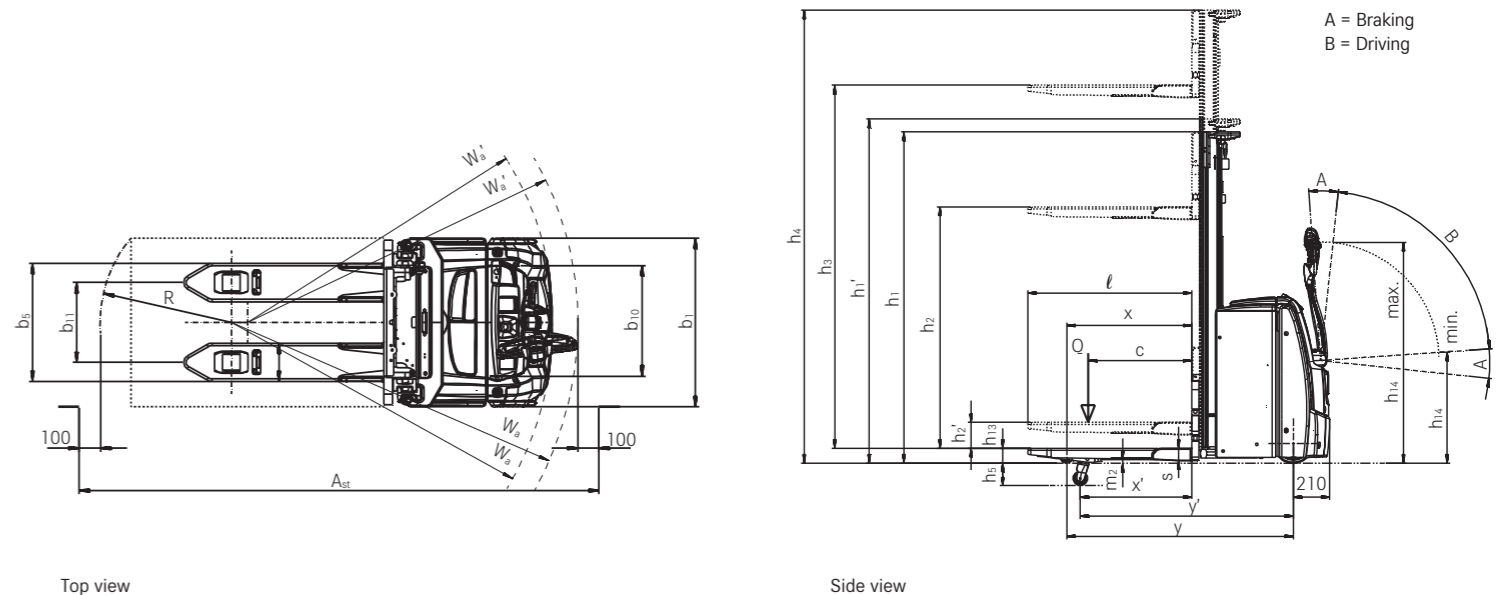




		EXV 14/Li-Ion	EXV 14i/Li-Ion	EXV 14 D/Li-Ion	EXV 16/Li-Ion	EXV 16i/Li-Ion	EXV 16 D/Li-Ion	EXV 20/Li-Ion	EXV 20i/Li-Ion	EXV 20 D/Li-Ion			
Distinguishing marks	1.1	Manufacturer											
	1.2	Manufacturer's type designation											
	1.3	Drive											
	1.4	Operator type											
Weights	1.5	Q	kg	1400	1400 (2000) ¹	1400/1000+1000 (2000) ¹	1600	1600 (2000) ¹	1600/1000+1000 (2000) ¹	2000	2000/1000+1000 (2000)		
	1.6	c	mm	600	600	600	600	600	600	600	600		
	1.8	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}		
	1.9	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		
Tyres/chassis	2.1	Service weight (incl. battery)											
	2.2			kg	964/1614	889/1655	1109/1464	983/1795	896/1847	1144/1629	1307/2198	1135/2303	1452/2014
	2.3			kg	867/311	836/308	885/288	867/311	836/308	885/288	1063/441	1019/420	1076/390
	3.1	Tyres											
Dimensions	3.2			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	
	3.3			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 105 (Ø 85 x 80) ⁶	Ø 85 x 85 (Ø 85 x 80) ⁶	
	3.4			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	Ø 150 x 50	
	3.5				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			mm	534/380	534/380	534/380	534/380	534/380	534/380	534/380	534/380	
	4.2			mm	-	110	110	-	110	110	-	110	
	4.3			mm	-	See mast table	See mast table	-	See mast table	See mast table	-	See mast table	
	4.4			mm	-	See mast table	See mast table	-	See mast table	See mast table	-	See mast table	
	4.5			mm	-	See mast table	See mast table	-	See mast table	See mast table	-	See mast table	
	4.6			mm	-	110	110	-	110	110	-	110	
4.9			mm	800/1250	800/1250	800/1250	800/1250	800/1250	800/1250	800/1250	800/1250		
4.15			mm	86	86	86	86	86	86	86	86		
4.19			mm	1950 ^{2,4}	1950 ^{2,4}	1950 ^{2,4}	1950 ^{2,4}	1950 ^{2,4}	1950 ^{2,4}	2065 ²	2065 ²		
4.20			mm	800 ^{2,4}	800 ^{2,4}	800 ^{2,4}	800 ^{2,4}	800 ^{2,4}	800 ^{2,4}	915 ²	915 ²		
4.21			mm	800	800	800	800	800	800	800	800		
4.22			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		
4.24			mm	780	780	780	780	780	780	780	780		
4.25			mm	560/680	560/680	560/530	560/680	560/680	560/530	580/680-570 ⁸	580/680-570 ⁸		
4.32			mm	30	20/130 ³	20/130 ³	30	20/130 ³	20/130 ³	20	20/130 ³		
4.34			mm	2348 ^{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			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			km/h	6/6	6/6	6/6	6/6	6/6	6/6	6/6		
	5.2			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		
	5.3			m/s	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		
	5.8			%	10.0 ⁹ /23.0 ⁹	8.0/22.0	10.0 ⁹ /22.0	10.0 ⁹ /23.0 ⁹	8.0/22.0	10.0 ⁹ /22.0	8.0 ⁹ /23.0 ⁹	8.0/23.0	
5.10				Electromagnetic	Electromagnetic	Electromagnetic	Electromagnetic	Electromagnetic	Electromagnetic	Electromagnetic	Electromagnetic		
Electric engine	6.1			kW	1.5	1.5	1.5	1.5	1.5	1.5	1.5		
	6.2			kW	3.2	3.2	3.2	3.2	3.2	3.2	3.2		
	6.3				2PzS	2PzS	2PzS	2PzS	2PzS	2PzS	3PzS		
	6.4			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	24/345 Li-Ion: 24/205	24/345 Li-Ion: 24/205	24/345 Li-Ion: 24/205	
	6.5			kg	212	212	212	212	212	288	288		
	6.6			kWh/h	1.14	1.24	1.24	1.15	1.25	1.25	1.44	1.57	
Misc.	8.1				AC control	AC control	AC control	AC control	AC control	AC control	AC control		
	8.4			dB(A)	≤66	≤66	≤66	≤66	≤66	≤66	≤66		

¹ Load capacity on initial lift
² With telescopic or HiLo mast (x -26 mm; l₁ and l₂ +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 h₁ = 1915 mm
⁶ With tandem rollers
⁷ Values with creep speed drawbar
⁸ Recommended for pallet cages; fork dimension s = 61 mm also available
⁹ With sharp-edged ramp break-over angle
¹⁰ Values refer to the chassis

* Double stacker



EXV High Lift Pallet Truck

Mast Tables



			Simplex			Telescopic compact				Telescopic						
			h ₁	mm	1140	1940	2390	1490	1690	1940	2140	1490	1690	1940	2140	2390
EXV 10(i)(C) - EXV 12(i)(C)	Height	h ₁	mm	1140	1940	2390	1490	1690	1940	2140	1490	1690	1940	2140	2390	2590
	Mast height with free lift applied (h ₃ = 150 mm)	h ₁ '	mm	-	-	-	1565	1765	2015	2215	1565	1765	2015	2215	2465	2665
	Free lift	h ₂	mm	662 ²	1462 ²	1912 ²	150	150	150	150	150	150	150	150	150	150
	Lift	h ₃	mm	662	1462	1912	2024	2424	2924	3324	2024	2424	2924	3324	3824	4224
	Height, mast extended	h ₄	mm	1140 ³	1940 ³	1940 ³	2502 ³	2902 ³	3402 ³	3827 ³	2502 ³	2902 ³	3402 ³	3827 ³	4302 ³	4702 ³

			HiLo						Triplex			
			h ₁	mm	1490	1690	1940	2140	2390	2590 ¹	1690 ¹	1940 ¹
EXV 10(i)(C) - EXV 12(i)(C)	Height	h ₁	mm	1490	1690	1940	2140	2390	2590 ¹	1690 ¹	1940 ¹	2040 ¹
	Mast height with free lift applied (h ₃ = 150 mm)	h ₁ '	mm	-	-	-	-	-	-	-	-	-
	Free lift	h ₂	mm	1012 ²	1212 ²	1462 ²	1662 ²	1912 ²	2112 ²	1208	1458	1558
	Lift	h ₃	mm	2024	2424	2924	3324	3824	4224	3636	4386	4686
	Height, mast extended	h ₄	mm	2502 ³	2902 ³	3402 ³	3827 ³	4302 ³	4702 ³	4118	4868	5168

¹ Only mast heights compatible with the truck optional version D (double deck)

² With fork carriage s = 65 mm (built-in); with fork carriage s = 65 mm (built-in) and with load backrest 1000 mm over forks: -562 mm (built-out) -4 mm; with fork carriage s = 55 mm (built-out) and with load backrest 1000 mm over forks: -562 mm

³ With fork carriage s = 65 mm (built-in); with fork carriage s = 65 mm (built-in) and with load backrest 800 mm over forks: +404 mm; with fork carriage s = 55 mm (built-out) +4 mm; with fork carriage s = 55 mm (built-out) and with load backrest 1000 mm over forks: +562 mm

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

			HiLo						Triplex					
			h ₁	mm	1415	1665	1915	2115	2365	2565 ¹	1665 ¹	1915 ¹	2065 ¹	2265 ¹
EXV 14(i)(C) - EXV 16(i)(C)	Height	h ₁	mm	1415	1665	1915	2115	2365	2565 ¹	1665 ¹	1915 ¹	2065 ¹	2265 ¹	2315 ¹
	Mast height with free lift applied (h ₃ = 150 mm)	h ₁ '	mm	-	-	-	-	-	-	-	-	-	-	
	Free lift	h ₂	mm	895 ²	1145 ²	1395 ²	1595 ²	1845 ²	2045 ²	1145 ²	1395 ²	1545 ²	1745 ²	1795 ²
	Lift	h ₃	mm	1844	2344	2844	3244	3744	4144	3516	4266	4716	5316	5466
	Height, mast extended	h ₄	mm	2364 ³	2864 ³	3364 ³	3764 ³	4264 ³	4664 ³	4036 ³	4786 ³	5236 ³	5836 ³	5986 ³

¹ Only mast heights compatible with the truck optional version D (double deck)

² With load backrest 1000 mm over forks: -562 mm

³ With load backrest 1000 mm over forks: +562 mm

			Telescopic							
			h ₁	mm	1415	1665	1915	2115	2365	2565
EXV 14 - EXV 14i - EXV 16 - EXV 16i	Height	h ₁	mm	1415	1665	1915	2115	2365	2565	2815
	Mast height with free lift applied (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

			HiLo						Triplex									
			h ₁	mm	1415	1665	1915	2115	2365	2565	1665	1915	2065	2165	2265	2315	2365	2365
EXV 14 - EXV 14i - EXV 16 - EXV 16i - EXV 14i/D	Height	h ₁	mm	1415	1665	1915	2115	2365	2565	1665	1915	2065	2165	2265	2315	2365	2365	2515
	Free lift ¹	h ₂	mm	895	1145	1395	1595	1845	2045	1145	1395	1545	1645	1745	1795	1845	1845	1995
	Lift	h ₃	mm	1844	2344	2844	3244	3744	4144	3516	4266	4716	5016	5316	5466	5616	5616	6066
	Height, mast extended ³	h ₄	mm	2364	2864	3364	3764	4264	4664	4036	4786	5236	5536	5836	5986	6136	6136	6586

¹ -566 mm with load backrest

² With increased mast height h₁'

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

			Telescopic			HiLo			Triplex			
			h ₁	mm	1915	2115	2365	1915	2115	2365	1665	1915
EXV 20 - EXV 20i - EXV 20D	Height	h ₁	mm	1915	2115	2365	1915	2115	2365	1665	1915	2065
	Mast height with free lift applied (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 10C - EXV 16C High Lift Pallet Truck

Elevate stacking with ease

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



The EXV high lift pallet truck with the unique OptiSpeed tiller is quite something. The speed of this manually guided warehouse assistant is automatically adapted to the distance between the operator and the truck. Note the unique tiller ergonomics: a lot of thought has gone into the positioning of the controls. They allow intuitive one-handed operation for all operators, regardless of hand size and whether left or right. And the LED display on the tiller head allows the operator to keep an eye on all relevant truck information.

As if that weren't enough, the truck's stability on slopes and its ability to stop automatically when the tiller arm is released are particularly impressive. Sophisticated lowering damping, which gently slows the lowering speed just before ground contact, protects goods during storage. With the EXV, goods can be stored more tightly than ever before and retrieved more easily. With its high residual load capacity and exceptional manoeuvrability, this compact truck is unbeatable when it comes to moving large quantities of goods quickly and safely in confined spaces with a manual truck, whether in the pre-storage area or on shelving.

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 outstanding 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 charge status at a glance, 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. Its powerful, low-maintenance motor and precise controls, suitable for both left- and right-handed operators, enable it to achieve unprecedented pallet turnover rates.

The letters EXV are not, however, just synonymous with quick goods handling, but with safe goods handling as well. 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 10C - EXV 16C 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



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



Optional initial lift gives greater ground clearance on uneven floors



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



Extremely compact and maneuverable thanks to optional integrated lithium-ion battery



Safe storage and retrieval thanks to Dynamic Load Control, the residual load capacity warning system



More safety even in confined spaces thanks to active or passive foot protection



Efficient transport of two pallets with optional wheel arm extension

EXV 14 - EXV 20 High Lift Pallet Truck
Detailed Photos



Safety in production: depending on the tiller angle, the 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



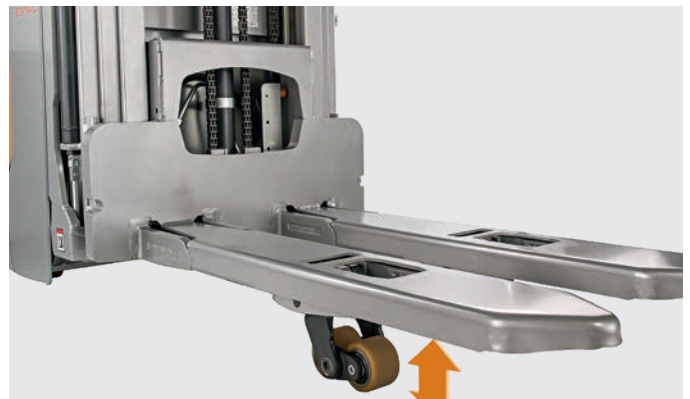
Low-maintenance components and easy service access



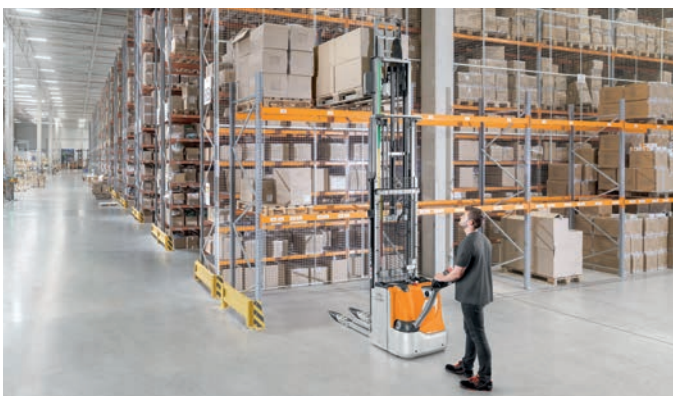
Precise in all situations: the optional creep speed switch enables manoeuvring in even the tightest spaces



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 2,000 kg can be transported



EXV 16C



EXV 16

EXV iGo High Lift Pallet Truck

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



STILL iGo - Automation Solutions

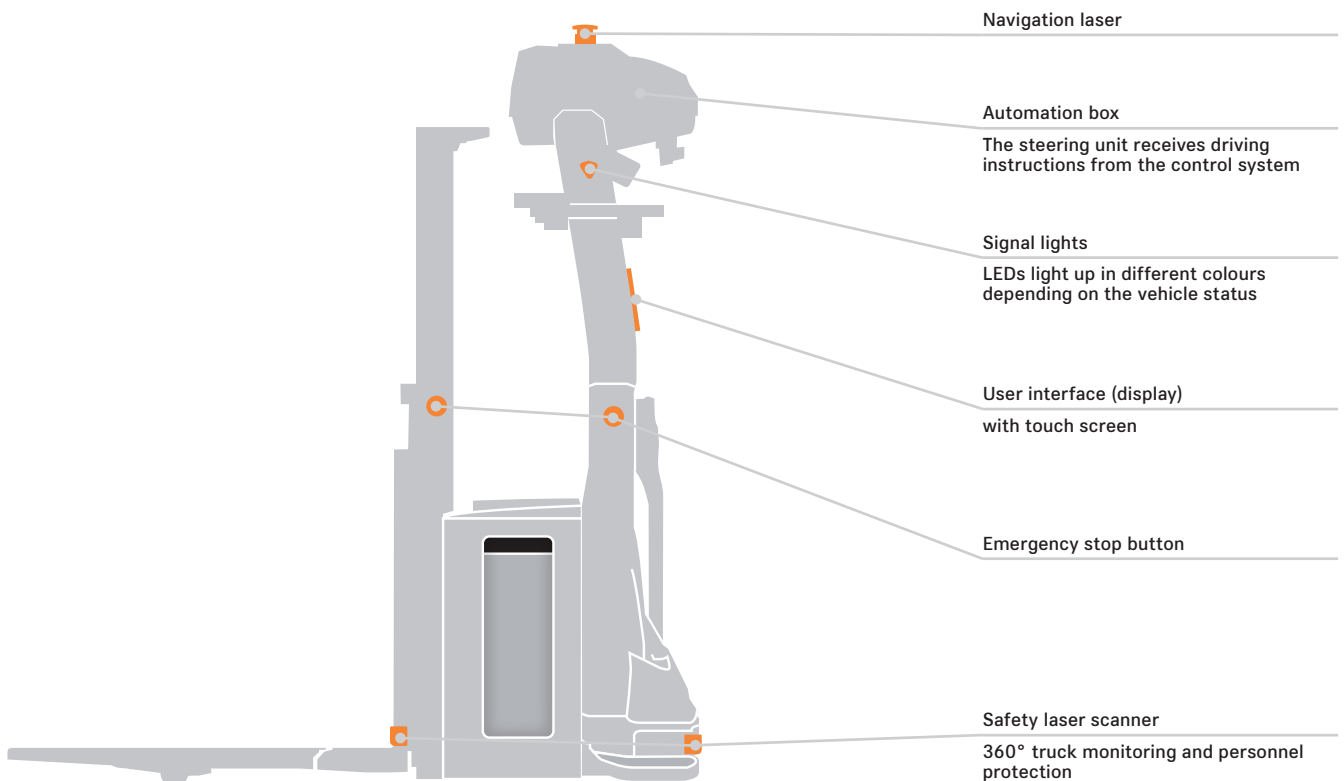
We make automation smart. From flexible plug & play solutions (STILL iGo easy) to highly customised system solutions (STILL iGo systems), scalable STILL iGo covers the entire spectrum of automation. Precisely tailored to your needs.

STILL iGo easy

Our smart plug & play solution STILL iGo easy is the perfect choice for anyone who wants to automate individual logistic transport processes with small fleets. iGo easy is particularly easy and quick to implement thanks to its intuitive user interface and flexibility. And as your needs grow or your processes become more complex, you can always upgrade to iGo systems.

STILL iGo systems

Do you already have complex or interlinked logistics processes and want to automate them individually? Then iGo systems is the perfect solution for you. The highly customisable system enables vehicles to be controlled in perfectly synchronised interaction and integrated into comprehensive logistics processes - scalable from individual vehicles to entire fleets.





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 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 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 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
- EXV iGo 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
- Software-based transport controls for the EXV iGo 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 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 trucks can be combined with one another, and with manual transport systems and stationary automation systems



EXV High Lift Pallet Truck Equipment Variants



	EXV 10C	EXV 12C	EXV 14C	EXV 16C	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	●	●	●	●	●
	Double-deck version	—	○	○	○	—
	Mast	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



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.



first in intralogistics