

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	STILL	STILL	STILL	STILL	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	EXV 14i C	EXV 14i C	EXV 14i C	EXV 14i C	EXV 14i C	EXV 14i C	EXV 14i C	EXV 14i C			
Weights	1.3 Drive			Single	Tele	HiLo	Tele	HiLo	Triplex	Tele	HiLo	Triplex	Tele	HiLo	Triplex	Tele	HiLo	Triplex		
	1.4 Operator type			Electric	Electric	Electric	Electric	Electric	Electric	Electric	Electric	Electric	Electric	Electric	Electric	Electric	Electric	Electric		
	1.5 Rated capacity/rated load			Q	kg	1000	1000	1200	1200	1400	1400	1400	1400	1400	1400	1400	1400	1400	1400	
	1.6 Load centre distance			c	mm	600	600	600	600	600	600	600	600	600	600	600	600	600	600	
Tyres/chassis	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	
	1.9 Wheel base			y	mm	1157 Li-Ion: 1177	1157 Li-Ion: 1177	1157 Li-Ion: 1177	1157 Li-Ion: 1177	1291	1291	1291	1291	1322	1322	1322	1322	1322	1322	1256 ^{3,5}
Tyres/chassis	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	Polyurethane	Polyurethane	Polyurethane	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	Ø 230 x 75	Ø 230 x 75	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 100	1x Ø 85 x 100	1x Ø 85 x 85	1x Ø 85 x 85	1x Ø 85 x 100	1x Ø 85 x 100	1x Ø 85 x 100	1x Ø 85 x 100	1x Ø 85 x 100	1x Ø 85 x 85	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	Ø 140 x 54	Ø 140 x 54	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	1 x -1/2	1 x -1/2	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	518/380	518/380	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	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	See mast table	-	-	See mast table
	4.4 Lift				h ₃	mm	-	See mast table	-	-	-	See mast table	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	See mast table	-	-	See mast table
	4.6 Initial lift				h ₅	mm	-	-	-	-	-	130	130	-	-	130	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	740/1230	740/1230	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	86	86	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	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	800	800	800	800	800	800	800	800
4.22 Fork dimensions				s/e/l	mm	65/180/1150	65/180/1150	65/180/1150	65/180/1150	60/180/1150	65/180/1150	65/180/1150	60/180/1150	55/182/1150	55/182/1150	55/182/1150	55/182/1150	55/182/1150	55/182/1150	
4.24 Fork carriage width				b ₃	mm	534 ¹	534 ¹	534 ¹	534 ¹	710	534	534	710	780	780	780	780	780	780	
4.25 Overall fork width				b ₅	mm	560	560	560	560	560	560	560	560	560	560	560	560	560	560	
4.32 Ground clearance, centre of wheel base				m ₂	mm	30	30	30	30	30	20/150	20/150	20/150	30	30	30	30	30	30	
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	2263/2251 ² Li-Ion: 2283/2271	2308/2296 ² Li-Ion: 2328/2316 ²	2391/2378 ³ /2369 ^{2,3}	2391/2378 ³ /2369 ^{2,3}	2434/2423 ³ /2414 ^{2,3}	2397/2389 ²	2397/2389 ²	2416/2408 ²	2398 ^{3,5} /2389 ^{2,3,5}	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	1418/1406 ² Li-Ion: 1438/1426 ²	1544 ⁴ /1535 ^{2,3}	1544 ⁴ /1535 ^{2,3}	1544 ⁴ /1535 ^{2,3}	1573 ⁴ /1565 ^{2,4}	1573 ⁴ /1565 ^{2,4}	1573 ⁴ /1565 ^{2,4}	1511 ^{4,5} /1502 ^{2,4,5}	1511 ^{4,5} /1502 ^{2,4,5}	1511 ^{4,5} /1502 ^{2,4,5}	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	6/6	6/6	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	6/6	6/6	6/6	6/6	6/6	6/6	6/6	6/6	
	5.2 Lift speed			laden/unladen	m/s	0.12/0.16	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	0.14/0.25	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
Electric engine	5.8 Max. gradeability kB 5			laden/unladen	%	5/10	5/10	5/10	5/10	5/10	7/15	7/15	5/10	5/10	5/10	5/10	5/10	5/10	5/10	
	5.9 Acceleration time over 10 m			laden/unladen	m/s	8.0/7.0	8.0/7.0	8.0/7.0	8.0/7.0	8.0/7.0	8.4/7.5	8.3/7.0	8.4/7.5	8.0/7.0	8.0/7.0	8.0/7.0	8.0/7.0	8.0/7.0	8.0/7.0	
	5.10 Service brake					Electromagnetic	Electromagnetic	Electromagnetic	Electromagnetic	Electromagnetic	Electromagnetic	Electromagnetic	Electromagnetic	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	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	
Misc.	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%	3.2/10%	3.2/10%	3.2/10%	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	No	No	No	No	DIN 43535 B - No ⁷	DIN 43535 B - No ⁷	No	No	No	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	24/150 Li-Ion: 24/82	24/165	24/165	24/165	24/165	24/250 - 24/315 ⁷ Li-Ion: 24/82	24/250 - 24/315 ⁷ Li-Ion: 24/82	24/250 - 24/315 ⁸	24/250 - 24/315 ⁸	24/250 - 24/315 ⁸	24/250 - 24/315 ⁸	
	6.5 Battery weight ±5% (depends on make)				kg	195/51 (A1)	195/51 (A1)	195/51 (A1)	195/51 (A1)	200	200	200	200	212-263 ⁷ /51 (A1)	212-263 ⁷ /51 (A1)	200 - 249 ⁸	200 - 249 ⁸	200 - 249 ⁸	200 - 249 ⁸	
6.6 Energy consumption according to VDI cycle				kWh/h	0.72	0.75	1.00	1.00	1.00	1.00	1.00	1.00	1.14	1.14	1.14	1.14	1.14	1.14		
8.1 Drive control					AC control	AC control	AC control	AC control	AC 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)	65	65	65	65	65	65	65	65	67	67	67	67	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)

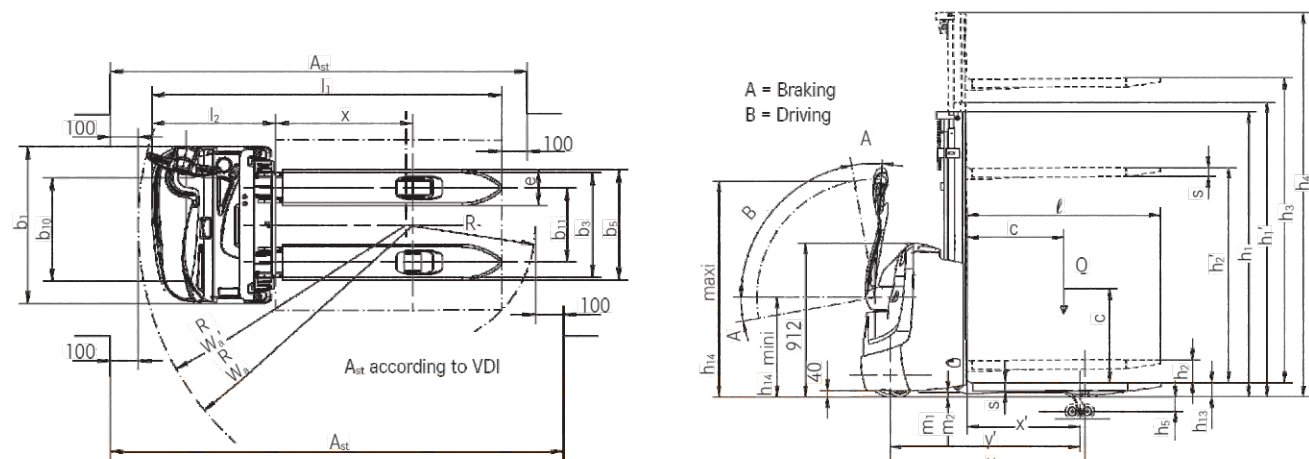
⁴ Initial lift raised; with initial lift lowered: EXV 12i W_a + 67 mm; EXV 14i C + 75 mm

⁵ With tray 66: + 45 mm

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

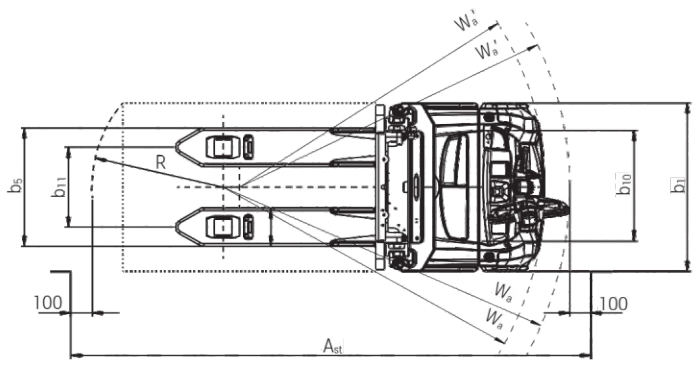
⁷ With tray 65 (lateral battery change)

⁸ With tray 66

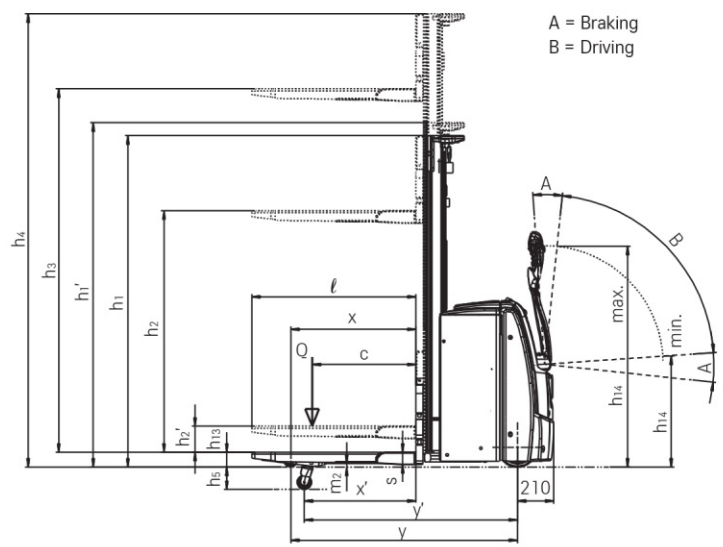


Distinguishing marks	1.1		STILL	STILL	STILL	STILL	STILL	STILL	STILL	STILL	STILL	STILL		
	Manufacturer		EXV 14/Li-Ion	EXV 14i/Li-Ion	EXV 14 D/Li-Ion	EXV 16/Li-Ion	EXV 16i/Li-Ion	EXV 16 D/Li-Ion	EXV 20/Li-Ion	EXV 20i/Li-Ion	EXV 20 D/Li-Ion	EXV 20 D/Li-Ion		
Weights	1.2	Manufacturer's type designation		Electric	Electric	Electric	Electric	Electric	Electric	Electric	Electric	Electric		
	1.3	Drive		Pedestrian	Pedestrian	Pedestrian	Pedestrian	Pedestrian	Pedestrian	Pedestrian	Pedestrian	Pedestrian		
	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	
	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		
Tyres (chassis)	3.1	Tyres		Polyurethane	Polyurethane	Polyurethane	Polyurethane	Polyurethane	Polyurethane	Polyurethane	Polyurethane	Polyurethane		
	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		
	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 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	
Dimensions	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	
	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	
	4.15	Fork height, lowered		h ₁₃	mm	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} (iGo systems: 2173)	1950 ^{2,4}	1950 ^{2,4}	2065 ² iGo systems: 2212)	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 (iGo systems 982)	800	800	800 (iGo systems 982)	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
	4.25	Distance between fork arms		b ₅	mm	560/680	560/680	560/680	560/680	560/680	560/680	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
	4.34	Working aisle width for pallet 800 x 1200 lengthways		A _{st}	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 iGo systems: 2466 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 iGo systems: 2502 ⁴	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		
	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 /23.0 ⁹	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		
	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		
	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 _s		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		
	8.4	Sound pressure level at driver's ear		dB(A)	≤66	≤66	≤66	≤66	≤66	≤66	≤66	≤66		

¹ Load capacity on initial lift
² With Tele 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 tele masts h₁ = 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 10 - EXV 12i			Single				Tele					
			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			Tele								
			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		

EXV 14 C - EXV 14i C			HiLo									Triplex		
			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			Tele								
			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 D			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			
Lift	h ₃	mm	1844	2344	2844	3244	3744	4144	3516	4266	4716	5016	5316			
Height, mast extended ³	h ₄	mm	2364	2864	3364	3764	4264	4664	4036	4786	5236	5536	5836			

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 - EXV 20 D			Tele			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 12



EXV 16



Tangibly better: control elements can be easily differentiated by their tactile characteristics



Ideally suited for ramps: thanks to the optional initial lift, the EXV climbs ramps easily



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



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



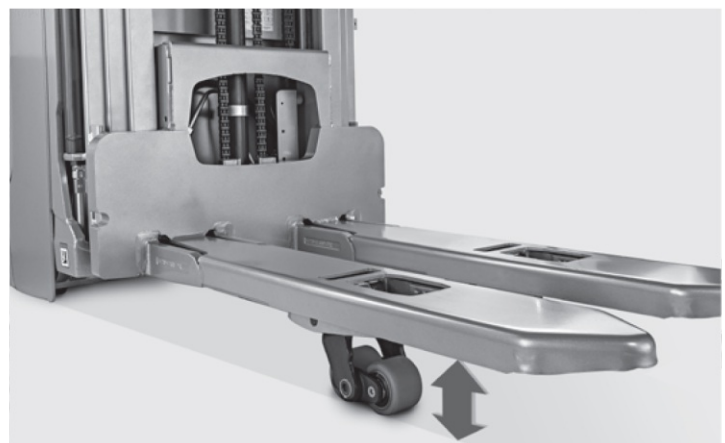
Everything in view, all the time: colour display with a range of language-independent symbols shows you all of the important functions at a glance



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

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

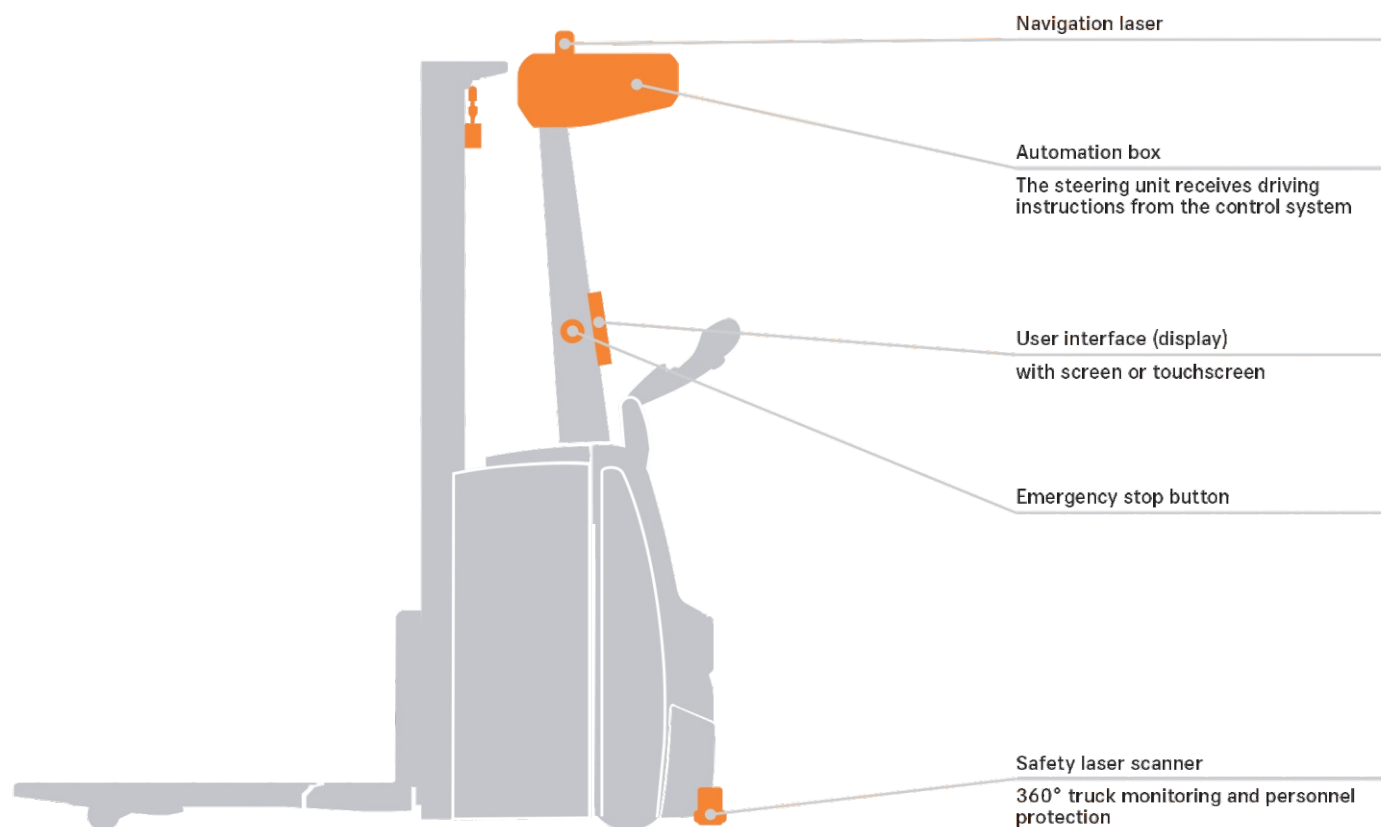
Optimum cost-effectiveness and efficiency through individual automation concepts as well as transparent and optimised continuous material flow



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 1.7 m/s. The truck's high residual load capacity and a lift height of up to three 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.

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

Always safe with OptiSpeed: travel speed adapts to tiller angle

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. The control elements of the tiller are not only equally suited to left and right-handed operators, but the operator does not even have to look during operation: all of the push buttons can be easily differentiated from each other without looking due to their tactile characteristics. They also can be reached comfortably with one hand without grasping.

And as if that wasn't enough: the truck is particularly impressive on ramps 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

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.



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

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
- 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 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

Simply Efficient



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	—	●	●	●	●	●
	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



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

