

iGo systems Technical Data The fully automated logistics process

EXV iGo systems





first in intralogistics

EXV iGo systems Automated High Lift Pallet Truck We drive automated vehicles

This specification sheet, which conforms to VDI guideline 2198, provides the technical values for the standard equipment only. Different tyres, other masts, additional equipment, etc. may produce different values.



	1.1	Manufacturer			STILL	
	1.2	Manufacturer's type designation			EXV 16 iGo systems	
	1.3	Drive			Electric	
Ires	1.4	Operation			Hybrid	
eati	1.5	Rated capacity/rated load	Q	kg	1600	
-	1.6	Load capacity at load centre distance	С	mm	625	
	1.8	Load centre distance	х	mm	701	
	1.9	Wheel base	У	mm	1386	
s	2.1	Service weight (incl. battery)		kg	1550	
Weight	2.2	Axle load, laden drive end/load end		kg	1239/1912	
	2.3	Axle load, unladen drive end/load end		kg	g 1146/404	
	3.1	Tyres			Rubber + polyurethane/	
SIS.	2.2	Tura sina deiva and				
has	3.2	Type Size and end	mm		Ø 230 X 90	
ss/c	3.3	Tyte size			Ø 00 X 00	
Tyre	3.4	Additional wheels		11111	1 Ø 150 X 50	
	3.5	Number of wheels (x = ariven) arive end/load end	h /h		1 X + 1/2	
	3.0	ITack width unve end/load end	D ₁₀ / D ₁₁		Coo most table	
	4.2	Freight, mast lowered	[]] b		See mast table	
	4.3		F12	[[]]	See mast table	
	4.4	Liit	[]3 b		See mast table	
	4.5	Height, Mast extended	114 b		See mast table	
	4.0	Initial init	115 b		-	
	4.7	Reight of dynamical guard	116 b		2443	
	4.9	Felgit of drawbal in driving position mill./max.	h		04	
SL	4.10		1113		22001	
Isio	4.19		11		2200	
mer	4.20		12 b	mm	1000	
ē	4.21				71/102/1250	
	4.22	Fork carriage width	5/e/i	mm	71/102/1230	
	4.24	Distance between fork arms	D3	mm	560	
	4.25	Distance between wheal arms	b,	mm	255	
	4.20	Craund elegraphic entries of wheel base	D4	mm	20	
	4.34 1	Aisle width for pallets 1000 x 1200 crosswave	Δ.	mm	3075 1, 2	
	4.34.1	Aisle width for pallets 800 x 1200 longthways	Δ.	mm	2025 1, 2	
	4.35	Turning radius in manual mode	W.	mm	1744 ¹	
ta	5.1	Travel sneed laden /unladen	V V d	km/h	7 2 / 7 2	
e dai	5.2	Lifting speed laden/unladen		m/s	0.16/0.30	
ance	5.3	Linerge processing encoded and a second and as second and a second and as second and a second an		m/s	0.40/0.35	
Ű.	5.8	Max_gradeability kB 5 laden/unladen		%	3/3	
Perf	5.10	Service brake		, 0	Electromagnetic	
	6.1	Drive motor rating $S2 = 60 \text{ min}$		kW	2.3	
	6.2	Lift motor rating S3 = 15%		kW	3.2	
ine	6.3	Battery according to DIN 43531/35/36 A. B. C. no			3PzS	
Electric eng	6.4	Battery voltage/rated capacity K ₅		V/Ah kWh	24/375 Li-lon: 12	
	6.5	Battery weight ±5% (depends on make)		kg	333	
	6.6	Energy consumption in relation to VDI cycle (15 cycles/1 h)	_	kWh/h	0.925 ³	
	6.7	Turnover output in relation to VDI cycle		t/h	37 ³	
ij.	8.1	Drive control			AC control	
Mis	8.4	Sound pressure level at driver's seat		dB(A)	<66	

¹ +75 mm with 4PzS battery
² Minimum aisle width A_{st} with reduced speed
³ At a nominal capacity of 1600 kg

Mast Tables

				Telescopic mast			
ems	Height	h1	mm	1915	2115	2365	
syst	Mast height with activated free lift (h ₃ = 150 mm)		mm	1990	2190	2640	
9	Free lift 1	h ₂	mm	150	150	150	
16	Lift	h ₃	mm	2844	3244	3744	
X	Height, mast extended	h4	mm	3364	3764	4264	
	Maximum storage height ²	h	mm	2780	3180	3680	

¹ With increased mast height h₁'

² Considering free lift and load detection: $h = h_3 + h_{13} - h_2$

EXV iGo systems Automated High Lift Pallet Truck Technical Drawings



Top view EXV iGo systems



Side view EXV iGo systems



Basic Load Capacities

1. This diagram shows the loads and shelf heights for which the automated truck can transport, store and retrieve loads safely, reliably and consistently.

2. The ability to automate storage and retrieval depends not only on the truck, but also on other factors such as the load carriers, the nature of the load and the transfer stations to be operated. Suitability must therefore be confirmed on a project-specific basis.

EXV iGo systems Automated High Lift Pallet Truck Detailed Photos



Excellent operator safety thanks to reliable 360-degree safety laser on the truck



The entire charging process of the EXV iGo system can be fully automated: Charging contacts for both lithium-ion and lead-acid batteries



Dynamic safety fields around the truck ensure maximum safety and collision avoidance: Real-time adjustment of the driving speed depending on corner radius



Large touch screen at eye level for intuitive operation and maximum ease of use



Experience and know-how: STILL's tried and tested truck technology is the basis of our reliable, safe and efficient goods transport



Eye-catching warning lights for high visibility and recognition of the truck



Reliable collision avoidance with additional sensors for detecting obstacles in the truck's environment



No aisle too narrow, no warehouse too small: The EXV iGo systems boasts impressively compact dimensions and high manoeuvrability



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.