



EXV 12 i

EXV 10 Basic

EXV Technical Data.

High lift stacker.



In accordance with VDI guidelines 2198 resp. 3597, this specification applies to the standard model only.
Alternative tyres, mast types, ancillary equipment, etc. could result in different values.

				STILL		STILL		
				EXV 10 Basic	EXV 10	Tele	HiLo	
Characteristics	1.1	Manufacturer						
	1.2	Manufacturer's model designation						
	1.3	Drive: (electric, diesel, petrol, LPG, mains electric)			Single	Electric	Electric	
	1.4	Operation (Hand, pedestrian, stand-on, sit-on, order picker)			Pedestrian	Pedestrian	Pedestrian	
	1.5	Capacity/load	Q	kg	1000	1000	1000	
	1.6	Load centre	c	mm	600	600	600	
	1.8	Load distance	x	mm	711	695	695	
	1.9	Wheel base	y	mm	1157	1157	1157	
	Weights	2.1	Truck weight (inc. battery)		kg	708	788	788
2.2		Axle load laden	drive end/load end	kg	670/1038	695/1093	695/1093	
2.3		Axle load unladen	drive end/load end	kg	518/190	572/216	572/216	
Wheels chassis	3.1	Tyres (rubber, pneu., polyurethane)			Solid rubber	Polyurethane	Polyurethane	
	3.2	Tyre size	drive end	mm	Ø 230x75	Ø 230x75	Ø 230x75	
	3.3	Tyre size	load end	mm	1x Ø 85x100	1x Ø 85x100	1x Ø 85x100	
	3.4	Support castor size		mm	Ø 140x54	Ø 140x54	Ø 140x54	
	3.5	Number of wheels (x=driven)	drive end/load end		1x-1/2	1x-1/2	1x-1/2	
	3.6	Track width	drive end	b ₁₀	mm	518	518	518
	3.7	Track width	load end	b ₁₁	mm	380	380	380
Basic dimensions	4.2	Height, mast lowered		h ₁	mm	See mast table	See mast table	
	4.3	Free lift		h ₂	mm	See mast table	See mast table	
	4.4	Lift height		h ₃	mm	See mast table	See mast table	
	4.5	Height, mast raised		h ₄	mm	See mast table	See mast table	
	4.6	Basic lift		h ₅	mm	-	-	
	4.9	Height - tiller in drive position	min./max.	h ₁₄	mm	740/1230	740/1230	
	4.15	Fork height lowered		h ₁₃	mm	85	85	
	4.19	Overall length unladen		l ₁	mm	1772	1788	
	4.20	Length inc. fork backs		l ₂	mm	622	638	
	4.21	Overall width		b ₁	mm	800	800	
	4.22	Fork dimensions		s/e/l	mm	65/180/1150	65/180/1150	
	4.24	Fork carriage width		b ₃	mm	534	534	
	4.25	Overall fork width		b ₅	mm	560	560	
	4.32	Floor clearance, centre of wheel-base		m ₂	mm	30	30	
	4.34	Working aisle width for 800x1200 pallet lengthways	Turning radius (b ₁₂ x l ₆)	A _{st}	mm	2125	2125	
4.35	Turning radius		W _a	mm	1420	1420		
Performance data	5.1	Travel speed	laden/unladen		km/h	6,0/6,0	6,0/6,0	
	5.2	Hoist speed	laden/unladen		s	0,12/0,16	0,11/0,23 0,11/0,2	
	5.3	Lowering speed	laden/unladen		s	0,23/0,23	0,3/0,28 0,31/0,25	
	5.8	Max. gradeability kB 5	laden/unladen		%	5/10	5/10	
	5.9	Acceleration time (over 10 m)	laden/unladen		s	8/7	8/7	
	5.10	Service brake					electromagnetic electromagnetic	
E-Motor	6.1	Drive motor, Rating S2 = 60 min			kW	1,2	1,2	
	6.2	Hoist motor, Rating at S3 = 15%			kW	2,2/5%	1,5/7%	
	6.3	Battery to DIN 43531/35/36; A, B, C, No					No No	
	6.4	Battery voltage, Rated capacity C ₅			V/Ah	24V/180Ah	24V/180Ah	
	6.5	Battery weight ± 5% (depends on make)			kg	195	195	
	6.6	Energy consumption to VDI cycle			kWh/h	0,72	0,75	
Misc.	8.1	Drive control				AC control	AC control	
	8.4	Sound level at driver's ear			dB (A)	65	65	

¹⁾ Suffix in model type = Initial lift incorporated

Mast Types

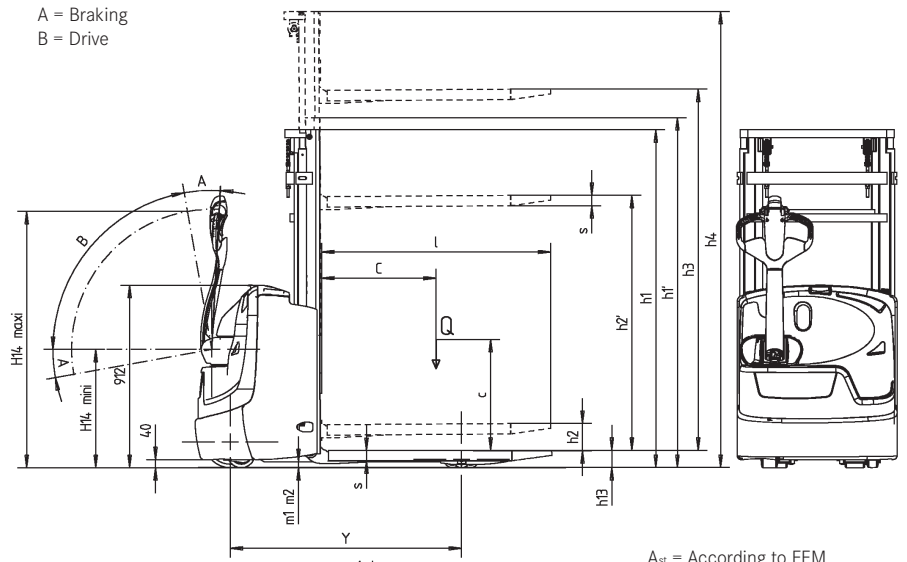
	SX/Single				DX/Tele				DXLLT/HiLo				
	EXV 10 Basic				EXV 10 - EXV 12 - EXV 12 i				EXV 10 - EXV 12 - EXV 12 i				
	1940	2390	1490	1690	1940	2140	2390	2590	1490	1690	1940	2140	2390
h ₁	1940	2390	1490	1690	1940	2140	2390	2590	1490	1690	1940	2140	2390
h ₁	-	-	1565	1765	2015	2215	2465	2665	-	-	-	-	-
h ₂	150	150	150	150	150	150	150	150	-	-	-	-	-
h ₂	-	-	-	-	-	-	-	-	1012	1212	1462	1662	1912
h ₃	1462	1912	2024	2424	2924	3324	3824	4224	2024	2424	2924	3324	3824
h ₄	-	-	2502	2902	3402	3802	4302	4702	2502	2902	3402	3802	4302

h₁ Initial lift = h₁ (Standard) + 6 mm

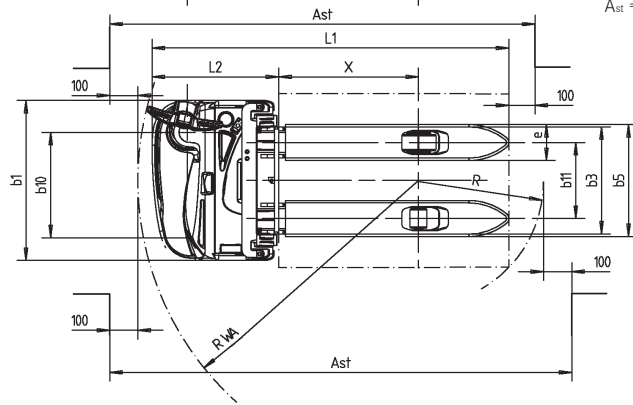
STILL EXV 12			STILL EXV 12 i		
Tele	HiLo	Triplex	Tele	HiLo	Triplex
Electric			Electric		
Pedestrian			Pedestrian		
1200			1200		
600			600		
695	638		780		723
1157	1157		1362		1362
788	935		909		1056
720/1268	770/1365		759/1350		814/1442
572/216	651/284		643/266		710/346
Polyurethane			Polyurethane		
Ø 230x75			Ø 230x75		
1x Ø 85x100			1x Ø 85x80		
Ø 140x54			Ø 140x54		
1x-1/2			1x-1/2		
518			518		
380			380		
See mast table			See mast table		
See mast table			See mast table		
See mast table			See mast table		
See mast table			See mast table		
-			130		
740/1230			740/1230		
85			91		
1788	1845		1902		1959
638	695		752		809
800			800		
65/180/1150			65/180/1150		
534	710		534		710
560			560		
30			25		
2125	2182		2249 (2248) ¹⁾		2306 (2305) ¹⁾
1420			1629 (1515) 1)		
6,0/6,0			6,0/6,0		
0,15/0,3	0,15/0,26		0,15/0,3		0,15/0,26
0,4/0,3	0,29/0,31		0,4/0,3		0,29/0,31
5/10			7/15		
8,3/7			8,4/7,5		
electromagnetic			electromagnetic		
1,2			1,2		
3,2/10%			3,2/10%		
No			No		
24V/180Ah			24V/225Ah		
195			200		
1			1		
AC control			AC control		
65			65		

TX/Triplex			
EXV 12 - EXV 12 i			
0	2590	1690	1940
	-	-	-
2	2112	1212	1462
4	4224	3636	4386
2	4702	4118	4868

A = Braking
B = Drive

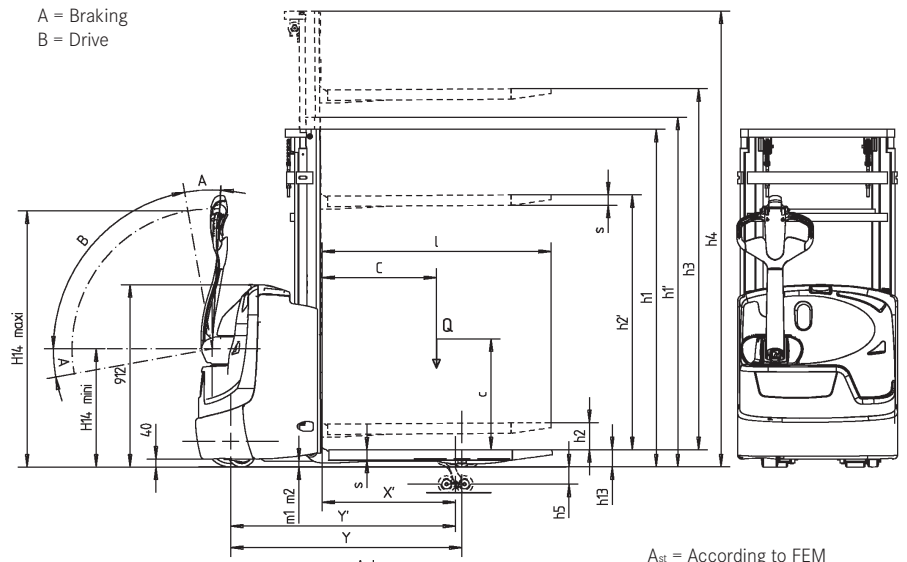


A_{st} = According to FEM

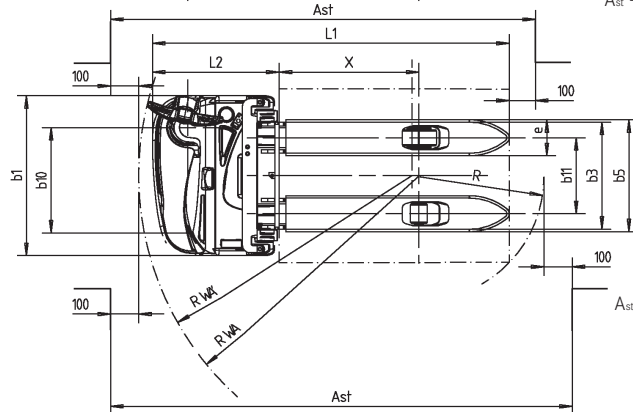


A_{st} According to VDI

A = Braking
B = Drive



A_{st} = According to FEM



A_{st} According to VDI

Simply strong.

The EXV 10 basic and the EXV 12 i from STILL were created with a completely new, modern and functional design. The machine operates more easily, with more agility and a higher load-carrying capacity while giving longer work cycles for each battery charge.

The new EXV models have increased strength in the areas prone to impact damage. The extremely durable cover is manufactured from high-strength, shock absorption material and offers excellent accessibility for servicing and maintenance. A powerful high lift pallet stacker with minimum operating costs, it provides the right solution for industrial, service, wholesale and general trade applications.

EXV 12 i Technical Data.

The initial lift function of the EXV 12 i makes it suitable for use on uneven ground conditions or on ramps.

Design.

- The modern, functional design and the optimal ergonomics of the tiller make this truck the best all-round machine for everyone.
- Various storage compartments are incorporated in the new, extremely strong plastic cover.

Steering.

- Smooth manoeuvring achievable in the tightest of spaces
- A gas-spring strut quickly and smoothly brings the user-friendly tiller to the brake position after releasing.
- With an offset drive and castor wheel, the high lift pallet stacker is a safe and stable 4-wheel truck.

Tiller.

- Ergonomic arrangement of the control elements mean the EXV 12 i is suitable for both right and left-handed operators. The push buttons for lifting/lowering and horn are within fingertip reach and allow single-handed operation without changing grip. This feature greatly reduces operator fatigue.
- The large buttons have grooves and raised contours to provide a problem-free, tactile "Feel-the-function" response
 - even when working with gloves.
- The arrangement of the electronic controls permits the simultaneous use of the control elements and functions e.g. Lifting and driving.
- Safety for the hands when on the tiller is achieved by the wrap-round protection and the curved shape of the handle.
- The control elements in the tiller are protected to IP 65 and all connectors and wiring harnesses are protected to IP 54; they are therefore well protected against environmental influences such as rain or dust.
- Extremely robust tiller head is achieved by the use of glass-fibre reinforced Polyurethane and a cast aluminium tiller arm.

Drive.

- Maintenance and wear-free, the totally enclosed 1.2 KW three-phase alternating current (AC) drive offers high performance to the user for in-plant handling and transportation tasks. The modern AC drive controller provides improved traction control for the user, e.g. noticeably powerful acceleration and drive. The drive characteristics can be easily programmed by STILL-Service to suit the user's specific requirements.
- A speed sensor, which is connected to the control unit, provides gentle, progressive acceleration of the EXV 12 i up to maximum speed, independent of the load on the forks.
- Braking is activated in the driving mode by releasing the driving switch. The AC motor acts as a generator and recovers energy during deceleration.
- With the 'Hold on Ramp' feature, when the drive switch is released, the controller monitors truck movement and prevents uncontrolled roll-back by applying the motor brake.

Mast.

- STILL offers the 1.2t capacity truck with Tele and Full-Free-Lift masts. Additionally, the EXV 12 i can be equipped with a Triplex mast to suit most individual applications.
- The newly-designed masts and fork carriage are characterised by their extreme rigidity and robustness. Deeper profiles on the external mast (108 instead of 99 mm), the visibly increased width of the mast as well as the strengthened connection of the forks to the fork carriage, minimise the possible deflection of the forks and mast when loaded.

Hydraulic System.

- The newly developed pulse control responds sensitively to the lightest touch on the control button to give precise load positioning.
- Electronic control of the hydraulic pump motor gives stepless and proportional response.
- An enclosed motor drives a high pressure gear pump.
- Responsive, light-touch buttons control lifting and lowering speeds.
- Maximum pressure relief valve, lowering valve and line break safety devices protect the hydraulic system.

Braking System.

- The truck features two independent brake systems:
- Soft braking with energy recovery is activated by releasing the butterfly drive control switch or selecting the opposite direction.
 - The dust-protected electromagnetic disk brake acts as a safety and parking brake. Braking takes place automatically when the tiller is positioned horizontally or vertically (dead-man brake).

Battery.

- The EXV 12 i can be optionally equipped with an integral battery charger.
- The drive control technology and the low energy requirement resulting from it make possible the use of smaller capacity batteries while still providing longer hours of use.
- The battery is easily accessible and can be changed by means of a hoist.
- The EXV 12 i is equipped with a new battery compartment which makes possible the use of batteries from 165 to 225 AH capacity.

Initial lift.

- Increases the ground clearance to 155 mm (130 mm lift) and so permits driving on uneven surfaces, irregularities and ramps.
- Allows the machine to be used as a pallet truck with pallets up to 1200 kg.

Options.

- Fork length: Length/Width = 1000/180 mm is possible as an option.
- Different tyres: Treaded and/or non-marking tyres are available.
- Combi instrument for battery charge and operating hours which also incorporates a service error code display. (Standard on EXV 10/12)
- Integrated battery charger.
- Load backrest.
- Cold-store protection to -30°C for EXV 10/12.
- Colour-coded indicator affixed to the mast to indicate the residual capacity relative to the lift height.
- Mast safety protection screen made from Polycarbonate.

Safety.

- The vehicles conform to the Machine Directive 98/37/EG and carry the CE-mark. STILL is certified by Germanischen Lloyd to ISO 9001.

OPTISPEED 3.0.

With the latest development of the AC controller in combination with a dual safety angle sensor in the tiller, STILL has incorporated an innovative and ergonomic safety function:

- Depending on the angle of the tiller, the speed is automatically controlled. Thus with the tiller almost vertical, slow travel is achieved, which makes manoeuvring in confined areas very simple and safe. Also, the possibility of the machine being driven over the operator's feet is virtually eliminated.

EXV 10 Basic Technical Data.

The entry model EXV 10 basic is particularly suitable for load handling to the first beam height, and thus offers sound and proven technology which is easy to operate.

Design.

- The EXV 10 Basic features modern and user-friendly design, as well as the ergonomic STILL tiller.
- Various storage compartments are incorporated in the strong plastic cover

Steering.

- With an offset drive and castor wheel, the high lift pallet stacker is a safe and stable 4-wheel truck.

Tiller.

- The EXV 10 Basic is equipped with the ergonomic and IP54 protected STILL tiller.

Drive.

- The EXV uses a wear- and maintenance-free, totally enclosed 1.2 kW three-phase alternating current (AC) drive motor which provides excellent driving characteristics.

Mast.

- The EXV 10 Basic can be equipped with two alternative mast heights.
- The sound and proven technology permits storage up to the first beam level, supported by an easy to operate hydraulic system.

Brake System.

The truck features two independent brake systems:

- Soft braking with energy recovery is activated by releasing the butterfly drive control switch or selecting the opposite direction.
- The dust-protected electromagnetic disk brake acts as a safety and parking brake. Braking takes place automatically when the tiller is positioned horizontally or vertically (dead-man brake).

Battery.

- The EXV 10 Basic can be optionally equipped with an integral battery charger.
- The battery compartment can accommodate battery capacities from 150 to 200 Ah depending upon application and use.

Options.

- Combi instrument for battery charge and operating hours, which also incorporates a service error code display.
- Integrated battery charger.
- Load backrest.
- Cold-store protection to -30°C for EXV 10/12.

Safety.

- The vehicles conform to the Machine Directive 98/37/EG and carry the CE-mark. STILL is certified by Germanischen Lloyd to ISO 9001.