

EXH-SF and EXH-S Technical Data

Low Lift Pallet Trucks with Driver's Stand-on Platform

EXH-SF 16C

EXH-SF 20C

EXH-SF 20

EXH-SF 25

EXH-S 20

EXH-S 25

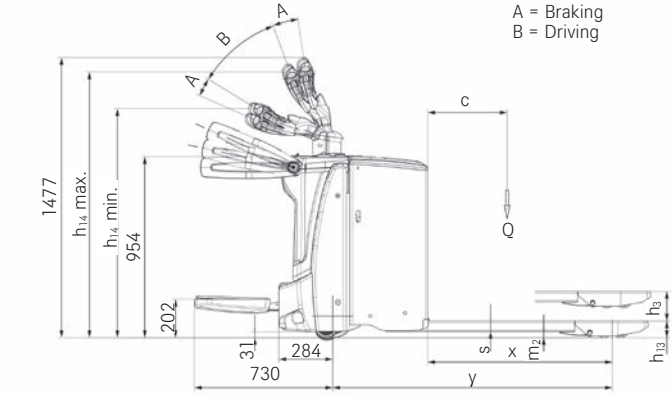




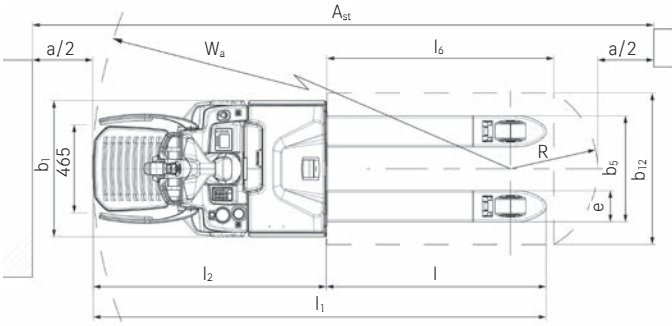
Features	1.1	Manufacturer			STILL	STILL	STILL	STILL
	1.2	Manufacturer's type designation			EXH-SF 16C/Li-Ion	EXH-SF 20C/Li-Ion	EXH-SF 20/Li-Ion	EXH-SF 25/Li-Ion
		Platform type			Hinged stand-on platform	Hinged stand-on platform	Hinged stand-on platform	Hinged stand-on platform
	1.3	Drive			Electric	Electric	Electric	Electric
	1.4	Operation			Stand-on/pedestrian	Stand-on/pedestrian	Stand-on/pedestrian	Stand-on/pedestrian
	1.5	Capacity/load	Q	kg	1600	2000	2000	2500
	1.6	Load centre distance	c	mm	600	600	600	600
	1.8	Load distance	x	mm	896 ²	896 ²	895 ²	895 ²
Weights	1.9	Wheel base	y	mm	1230 ²	1230 ²	1408 ²	1408 ²
	2.1	Service weight (incl. battery)		kg	563	563	875	875
	2.2	Axle load, laden	drive end/load end	kg	825/1338	920/1643	983/1920	983/1920
	2.3	Axle load, unladen	drive end/load end	kg	444/119	444/119	710/165	710/165
Tyres/chassis	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 90	Ø 230 x 90
	3.3	Tyre size	load end	mm	Ø 85 x 105 (Ø 85 x 80) ¹	Ø 85 x 105 (Ø 85 x 80) ¹	Ø 85 x 110 (Ø 85 x 85) ¹	Ø 85 x 110 (Ø 85 x 85) ¹
	3.4	Support rollers	drive end	mm	2x Ø 125 x 40	2x Ø 125 x 40	2x Ø 125 x 60	2x Ø 125 x 60
	3.5	Number of wheels (x = driven)	drive end/load end		1x + 2/2 (1x + 2/4)	1x + 2/2 (1x + 2/4)	1x + 2/2 (1x + 2/4)	1x + 2/2 (1x + 2/4)
	3.6	Tread	drive end/load end	b ₁₀ /b ₁₁ mm	482/375	482/375	502/380	502/380
Dimensions	4.4	Lift		h ₃ mm	125	125	125	125
	4.8	Standing height (platform)		h ₇ mm	162	162	220	220
	4.9	Tiller handle height in driving position	min./max.	h ₁₄ mm	1121/1276	1121/1276	1210/1440	1210/1440
	4.15	Fork height, lowered		h ₁₃ mm	86	86	86	86
	4.19	Overall length	platform closed/open	l ₁ mm	1777/2109	1777/2109	1957/2395 ⁴	1957/2395 ⁴
	4.20	Length including fork backs	platform closed/open	l ₂ mm	620/952	620/952	800/1238 ⁴	800/1238 ⁴
	4.21	Total width		b ₁ mm	720	720	720	720
	4.22	Fork dimensions DIN ISO 2331		s/e/l mm	55/165/1150	55/165/1150	55/165/1150	55/165/1150
	4.25	Overall fork width		b ₅ mm	560	560	560	560
	4.32	Ground clearance, centre of wheel base		m ₂ mm	32	32	30	30
	4.34	Working aisle width with 800 x 1200 pallet lengthways	platform open	A _{st3} mm	2550 ^{2, 8}	2550 ^{2, 8}	2844 ^{2, 4}	2844 ^{2, 4}
	4.34.1	Working aisle width with 1000 x 1200 pallet crossways	platform open	A _{st} mm	2646 ^{2, 8}	2646 ^{2, 8}	2926 ^{2, 4}	2926 ^{2, 4}
	4.35	Turning radius	platform open	W _a mm	1843 ^{2, 8}	1843 ^{2, 8}	2140 ^{2, 4}	1700/2140 ^{2, 4}
	5.1	Travel speed	laden/unladen	km/h	6/6 (8.5/8.5) ³	6/6 (8.5/8.5) ³	6/6 (8/8, 10/10) ³	10/12 (10/14) ³
	5.2	Lifting speed	laden/unladen	m/s	0.037/0.042	0.033/0.042	0.05/0.06	0.05/0.06
Performance	5.3	Lowering speed	laden/unladen	m/s	0.070/0.065	0.070/0.069	0.1/0.08	0.1/0.08
	5.8	Max. gradeability	laden/unladen	%	15/20	13/20	12/20	12/20
	5.10	Service brake			Electromagnetic	Electromagnetic	Electromagnetic	Electromagnetic
	6.1	Drive motor, rating S2 60 min		kW	1.3	1.3	2.3	3.0
Electric engine	6.2	Lift motor, rating at S3 15%		kW	1.2	1.2	1.2	1.5
	6.3	Battery according to DIN 43531/35/36; A, B, C, no			British Standard	British Standard	DIN 43535 3PzS	DIN 43535 3PzS
	6.4	Battery voltage/nominal capacity K _s		V/Ah	24/150	24/150	24/375	24/375
	6.5	Battery weight ±5 % (depending on make)		kg	140	140	290	290
	6.6	Energy consumption according to VDI cycle		kWh/h	0.251	0.289	0.45	0.5 (0.56) ³
	8.1	Drive control			AC control	AC control	AC control	AC control
Misc.	8.4	Sound level at driver's ear		dB(A)	65	65	62	62

¹ With tandem load rollers
² Initial lift raised; initial lift lowered +70 mm
³ With Performance Plus
⁴ With 4PzS/400-500-Ah battery +75 mm; with 2PzS/250-Ah battery -75 mm
⁵ For compartment 70: +75 mm for 4PzS, +150 mm for 5PzS

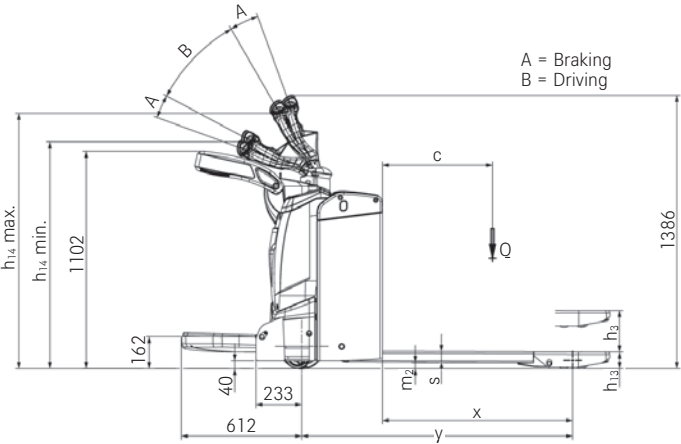
⁶ +75 mm for backrest/side access
⁷ +55 mm for backrest/side access
⁸ +75 mm 2PzS



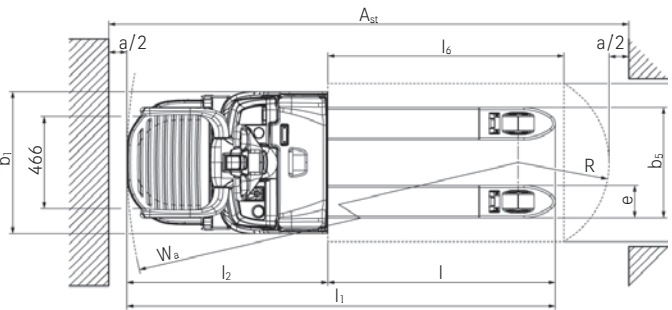
Side view EXH-SF



Top view EXH-SF



Side view EXH-SF 16C/20C



Top view EXH-SF 16C/20C

EXH-S Low Lift Pallet Truck with Driver's Stand-on Platform

Features	1.1	Manufacturer			STILL				
	1.2	Manufacturer's type designation			EXH-S 20		EXH-S 25		
		Platform type			Rear entry				
	1.3	Drive			Electric				
	1.4	Operation			Stand-on				
	1.5	Capacity/load	Q	kg	2000		2500		
	1.6	Load centre distance	c	mm	600	1200	600	1200	
	1.8	Load distance	x	mm	970/900 ²	1832/1762 ²	970/900 ²	1832/1762 ²	
	1.9	Wheel base	y	mm	1416/1346 ²	2278/2208 ²	1416/1346 ²	2278/2208	
Weights	2.1	Service weight (incl. battery)		kg	890	935	890	935	
	2.2	Axle load, laden	drive end/load end	kg	1214/1686	1501/1399	1335/2065	1679/1721	
	2.3	Axle load, unladen	drive end/load end	kg	741/159	823 / 112	741/159	823/112	
Tyres/chassis	3.1	Tyres			Polyurethane				
	3.2	Tyre size	drive end	mm	Ø 230 x 90		Ø 254 x 102		
	3.3	Tyre size	load end	mm	2x Ø 85 x 80 ¹				
	3.4	Support rollers	drive end	mm	2x Ø 125 x 60				
	3.5	Number of wheels (x = driven)	drive end/load end		1x + 2/2 (1x + 4/2)				
	3.6	Tread	drive end/load end	b ₁₀ /b ₁₁	572 / (355/395/515)				
Dimensions	4.4	Lift	h ₃	mm	115				
	4.8	Standing height (platform)	h ₇	mm	210		210		
	4.9	Tiller handle height in driving position	min./max.	h ₁₄	mm	1233.5		1313.5	
	4.15	Fork height, lowered		h ₁₃	mm	85			
	4.19	Overall length	platform closed/open	l ₁	mm	2283 ^{5, 6}	3521 ^{5, 6}	2283 ^{5, 6}	3521 ^{5, 6}
	4.20	Length including fork backs	platform closed/open	l ₂	mm	1126 ^{5, 6}			
	4.21	Total width		b ₁	mm	790			
	4.22	Fork dimensions DIN ISO 2331		s/e/l	mm	55/165/1150	55/165/2400	55/165/1150	55/165/2400
	4.25	Overall fork width		b ₅	mm	520/560/680			
	4.32	Ground clearance, centre of wheel base		m ₂	mm	30/145			
	4.33	Load dimensions		b _{12x6}	mm	800 x 1200	2x 800 x 1200	800 x 1200	2x 800 x 1200
	4.34	Working aisle width with 800 x 1200 pallet lengthways	platform open	A _{st3}	mm	2759/2727 ^{2, 4}	3978/3943 ^{2, 4}	2759/2727 ^{2, 4}	3978/3943 ^{2, 4}
	4.34.1	Working aisle width with 1000 x 1200 pallet crossways	platform open	A _{st}	mm	2897/2835 ^{2, 4}	4168/4079 ^{2, 4}	2897/2835 ^{2, 4}	4168/4079 ^{2, 4}
	4.35	Turning radius	platform open	W _s	mm	2097/2027 ^{2, 5, 7}	3334/3264 ^{2, 5, 7}	2097/2027 ^{2, 5, 7}	3334/3264 ^{2, 5, 7}
	Performance	5.1	Travel speed	platform open	km/h	10/10 ³		11/14 ³	
5.1.1		Travel speed, backwards	laden/unladen	km/h	10/10		11/14		
5.2		Lifting speed	laden/unladen	m/s	0.033/0.046		0.036/0.059		
5.3		Lowering speed	laden/unladen	m/s	0.065/0.07		0.068/0.064		
5.8		Max. gradeability	laden/unladen	%	9/19	10/19	8/19		
5.9		Acceleration time	laden/unladen	s	6.5/5.2		5.9/4.6		
5.10		Service brake			Electromagnetic		Electro-hydraulic	Electromagnetic	
Electric engine	6.1	Drive motor, rating S2 60 min		kW	2.3 ³		3.0 ³		
	6.2	Lift motor, rating at S3 15%		kW	1.2		2.2		
	6.3	Battery according to DIN 43531/35/36; A, B, C, no		Li-Ion	2 PzS SV				
	6.4	Battery voltage/nominal capacity K _s		V/Ah	24V/250 to 500				
	6.5	Battery weight ±5 % (depending on make)		kg	242 to 425				
	6.6	Energy consumption according to VDI cycle		kWh/h	0.33	0.35	0.41		
	6.6.2	CO ₂ equivalent emissions (EN 16796)			0.1	0.11	0.22		
	6.7	Turnover output according to VDI 2198			128	142	195		
	6.8	Turnover efficiency according to VDI 2198			101	112	121		
Misc.	8.1	Drive control			AC control				
	10.7	Sound level at driver's ear		dB(A)	69				

¹ With tandem load rollers² Initial lift raised; initial lift lowered +70 mm

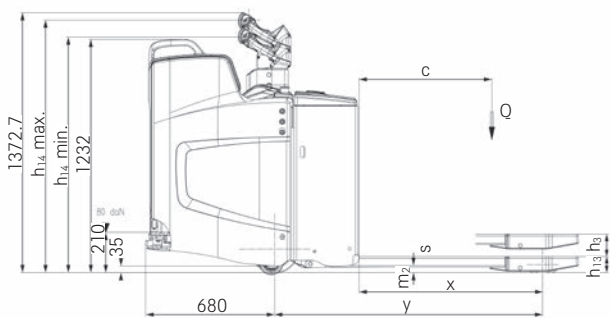
³ With Performance Plus

⁴ With 4PzS/400-500-Ah battery +75 mm; with 2PzS/250-Ah battery -75 mm

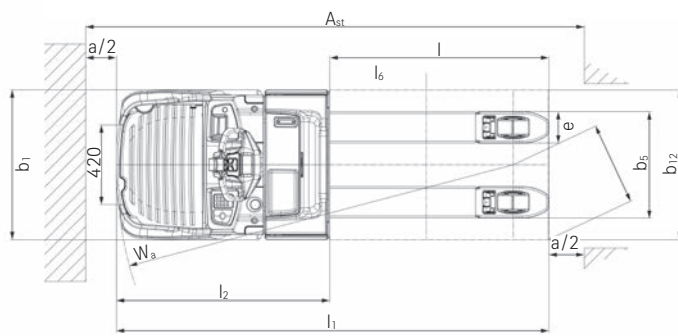
⁵ For compartment 70: +75 mm for 4PzS, +150 mm for 5PzS

⁶ +75 mm for backrest/side access

⁷ +55 mm for backrest/side access



Side view rear entry EXH-S



Top view rear entry EXH-S

EXH-SF 16C/20C Low Lift Pallet Trucks with Driver's Stand-on Platform

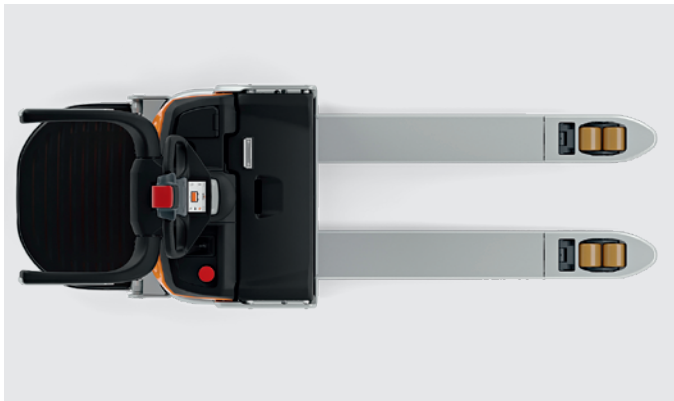
Detailed Photos



Easy to operate thanks to the ergonomic and intuitive STILL tiller arm



Everything in view at all times: the smart LED or touch display clearly shows all relevant vehicle information



Maximum manoeuvrability, even in tight spaces - made possible by compact vehicle dimensions



Safe and ergonomic position on the platform thanks to the optional folding side bars



Effortless work throughout the entire shift with the STILL electric steering system



The mechanically suspended stand-on platform provides ergonomic suspension and simultaneously increases the handling capacity



Charge your vehicle wherever and whenever you need to with the optional built-in charger



For even more productivity in horizontal goods transport, the EXH-SF 16C/20C is optionally available with 2,400 mm forks

EXH-SF Low Lift Pallet Truck with Driver's Stand-on Platform

Detailed Photos



Up to 2,500 kg lifting capacity and an impressive top speed of 14 km/h



Pneumatically cushioned stand-on platform for an optimal shock absorption on uneven floors



The flexibly adjustable working angle of 83° enables an ergonomic working posture of the tiller - and that for operators of any height



The colour display with language-independent symbols shows all of the important functions at a glance



Optimum view of the fork tips allows a high and safe handling performance



Increased operational hours thanks to fast interim charging with optional STILL Li-ion technology



Safe support on both sides for operators of any height thanks to the height-adjustable side bars



Air-suspended stand-on platform continuously adjustable thanks to the integrated compressor

EXH-S Low Lift Pallet Truck with Driver's Stand-on Platform

Detailed Photos



Additional safety for busy working days: the integrated STILL Safety Light makes the vehicle impossible to miss



The three-stage adjustable platform damping system promotes ergonomic working and reduces physical strain during prolonged use



Maximum uptime thanks to rapid intermediate charging with optional STILL lithium-ion technology



Everything under control at all times with the STILL Easy Drive handlebar: ergonomic, precise and intuitive to use



Designed for maximum safety when loading and unloading, and when on the ramp – thanks to rear access and optimised side panels that provide extra protection



Smart Load Protect automatically reduces speed when the forks are lowered and, if selected, switches the lights on when the forklift enters the lorry

EXH-SF Low Lift Pallet Trucks with Driver's Stand-on Platform

Swift and compact

Intuitive operation of the vehicle thanks to the innovative STILL tiller with integrated LED or touch display on the tiller head

Outstanding manoeuvrability thanks to compact vehicle dimensions and an overall width of only 720 millimetres

Safe position on the platform even when cornering thanks to Curve Speed Control and stable side bars



EXH-SF 16C/20C

Manoeuvrability and intuitive operation taken to a new dimension – the EXH-SF 16C/20C low lift pallet truck with folding stand-on platform is the smart assistant for light to medium duty horizontal transport operations. With its impressively slim dimensions, the pallet truck is very easy to manoeuvre when loading and unloading HGVs and can be operated with precision thanks to the electric steering and the innovative STILL tiller. The innovative STILL LED or touch display integrated in the tiller head provides even more working ergonomics and an excellent overview of all relevant truck data.

For maximum safety and increased handling performance at the same time, the EXH-SF 16C/20C features the STILL Curve Speed Control driver assistance system as standard, which automatically adjusts the speed when cornering. Sturdy side bars and a generously dimensioned sprung stand-on platform ensure safety and comfort during operation. The innovative STILL lithium-ion technology enables fast charging and interim charging of the battery during breaks, which ensures maximum availability of the smart warehouse assistant. In addition, different battery sizes are available to suit your individual requirements.

Superb handling performance: a top speed of 14 km/h and a maximum lifting capacity of 2,500 kg

Back-friendly: air-cushioned stand-on platform adjustable to individual weight with adjustable side arms

Powerful driving on ramps: hydraulically sprung support wheels for best traction



EXH-SF

Speed, ergonomics, compact design – the EXH-SF pallet truck with a hinged stand-on platform is the perfect combination of all these qualities. With a maximum lifting capacity of 2,500 kg and an impressive top speed of 14 km/h, the EXH-SF demonstrates superior handling power. The air-cushioned stand-on platform with integrated compressor keeps work back-friendly at all times. Due to its sprung support wheels the smart warehouse organiser crosses ramps comfortably, safely and with optimum traction. Furthermore, the

EXH-SF helps to save valuable warehouse space: with a total width of just 720 mm, the pallet truck is narrower than a Euro pallet and can be manoeuvred precisely through the narrowest of aisles. Do you need a pallet truck that is operational 24 hours a day? With the STILL Li-ion technology, even the shortest breaks are sufficient to charge the EXH-SF. As different battery sizes are available depending on your individual needs, any customer requirement as well as multi-shift operations can be realised.

EXH-S Low Lift Pallet Truck with Driver's Stand-on Platform Speeds things up. Safely.

Ergonomic back protection thanks to individually adjustable air-cushioned driver's stand-on platform

High and flexible handling capacity: a maximum speed of 14 km/h and a lifting capacity of 2,500 kg

Safe handling in confined spaces thanks to a chassis that is only 720 mm wide



EXH-S

The newly designed EXH-S 20-25 transforms everyday warehouse challenges into competitive advantages. With a load capacity of up to 2,500 kg, it is incredibly easy to operate thanks to the intuitive STILL Easy Drive handlebar with integrated display. With its powerful drive motor, the EXH-S can reach speeds of up to 14 km/h over longer distances and tackle any incline with ease. To ensure not only optimal speed but also maximum safety, Smart Load Protect automatically

reduces the speed when the initial lift is not raised or when entering a lorry. The optional PLUS platform suspension can be adjusted to the desired level of comfort in three stages, while optimised design side panels ensure safety, comfort and ergonomics throughout the entire shift. An optional foot sensor minimises the risk of injury to operators and, thanks to the optional STILL Safety Light, the vehicle is clearly visible to all other staff at all times.

Smart Portal

Smart Hardware

STILL Smart Portal uses state-of-the-art IoT hardware to collect and transmit operating data – for maximum transparency and control

Smart Fleet Management

Provides clear access rules, records vehicle movements, detects shock events and minimises risks through digital security checks

Smart Analytics

Precise analytics to continuously improve your fleet efficiency

Smart Energy

The system optimises charging processes, creates transparency in charging behaviour and reduces energy costs



A comprehensive overview of your vehicles' use, condition and costs is crucial to ensuring their availability, safety and cost-effectiveness. The STILL Smart Portal allows you to manage your entire fleet on a single digital platform. All relevant data, from driver management and safety

to cost control and energy management, is always available, enabling you to make informed decisions. The Smart Portal's modular structure allows you to use only the functions relevant to your business.



Simply easy

- Intuitive control of all driving, lifting and lowering functions for both left- and right-handed users with the STILL Easy Drive handlebar (EXH-S)
- Consistent operating comfort on any surface thanks to platform suspension – with optional individual adjustment of entry height, ideal for long shifts and frequent getting on and off the platform
- Optimal utilisation of storage space: compact dimensions and high manoeuvrability facilitate narrow working aisles
- A high level of comfort and excellent driving on any surface: the stand-on platform is mechanically or pneumatically suspended, depending on the intended use
- Optional height adjustment of the STILL Easy Drive handlebar to easily accommodate your preferred working height
- Ready for use at any time: flexible, decentralised charging from any socket thanks with the optional built-in chargert



Simply powerful

- Load capacity of up to 2,500 kg for flexible use when loading and unloading lorries, even with stacked pallets or vehicles with intermediate floors
- Flexible speed modes for optimum performance – with maximum speed available as an option
- Maximum uptime and flexible operation thanks to Li-ion technology for fast and intermediate charging, as well as easy battery replacement for long operating times
- Powerful ramp travel and excellent lateral stability on uneven surfaces thanks to a five-wheel chassis with support wheels
- High availability and long service life thanks to a robust steel frame



Simply safe

- Simply work with precision thanks to unobstructed field of vision: good view of the fork tips and centrally mounted tiller

- Fast and safe cornering: Curve Speed Control automatically adapts speed to the steering angle when cornering
- Only starts moving once securely positioned: An optional foot sensor checks whether the feet are within the vehicle's outline (on the EXH-S)
- Versatile and flexible access control prevents unauthorised use of the vehicle
- Optimal load protection with maximum vehicle performance: Optional Smart Load Protect reduces speed when the initial lift is raised or when entering the lorry and activates the lighting
- Optimal visibility with the STILL Safety Light, seamlessly integrated into the chassis for maximum safety



Simply flexible

- Suitable driving programmes for every application: from maximum handling capacity to maximum efficiency
- Configurable driver's workstation for different operating profiles, from frequent ramp manoeuvres to long transport distances: rear entry, side entry or backrest (on the EXH-S)
- Everything within easy reach with the optional accessory rail for the EXH-S: flexible mounting solution for terminals, writing pads and other accessories
- Always ready for action: with optional on-board charger for flexible, decentralised charging at any power socket and battery capacities up to 500 Ah



Simply connected

- Fast service analysis and parametrisation of settings thanks to CAN bus interface
- Easy integration into material flow management system thanks to MMS provision
- Intelligently connected for maximum transparency, vehicle safety and cost-efficiency. The Smart Portal brings together all relevant fleet information in a clear and concise manner – from operator management and impact detection to access control



EXH-SF and EXH-S Low Lift Pallet Trucks with Driver's Stand-on Platform Equipment Variants



		EXH-SF 16C/20C	EXH-SF 20	EXH-SF 25	EXH-S 20	EXH-S 25
General	Integrated storage options	●	●	●	●	●
	Control element assembly suitable for both left and right-handed operators	●	●	●	●	●
	LED-battery status display and operating hours meter	—	○	○	—	—
	Colour display and control unit for selecting the driving programme, including Blue-Q	—	●	●	—	—
	Display integrated in the tiller head (LED or touch display)	●	—	—	●	●
	Cold storage version	○	○	○	○	○
	Powerful three phase drive motor for very low maintenance costs	●	●	●	●	●
	Side protection bars	○	○	●	—	—
	Side protection panels	—	—	—	●	●
	Accessories bracket on the drive side	○	○	○	○	○
	Accessory rail (drive side)	—	—	—	○	○
	Hinged platform	●	●	●	—	—
	Mechanically sprung stand-on platform	●	●	—	●	—
	Mechanically sprung standing platform - adjustable to 3 positions	—	—	—	○	○
	Air-sprung stand-on platform	—	○	●	—	—
	Air-sprung stand-on platform with built-in compressor for suspension adjustment	—	○	○	—	—
	Initial lift	●	●	●	●	●
	Creep speed button	●	—	—	●	●
	Adjustable DIN-A4 writing pad	○	○	○	○	○
	Prepared for Material Management System (MMS) and data transfer	○	○	○	○	○
Tyres	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	○	○	○	○	○
	Dynamic Drive Control	—	—	—	○	○
Safety	Access authorisation (key)	●	●	●	●	●
	Access authorisation (digicode)	○	○	○	○	○
	Fleet management with Smart Portal	○	○	○	○	○
	Curve Speed Control: speed reduction when driving around corners	—	●	●	●	●
	Height-adjustable STILL Easy Drive handlebar	—	—	—	○	○
	STILL Combi tiller: variable tiller length for an optimal distance between driver and equipment	●	●	●	—	—
	Headlights	○	○	○	○	○
	STILL Safety Light	○	○	○	○	○
	Smart Load Protect	—	—	—	○	○
	Foot protection sensor	—	—	—	○	○
Battery	Load backrest	○	○	○	○	○
	Sheet steel battery cover	●	●	●	●	●
	Plastic battery cover	●	●	●	●	●
	Battery compartment for battery up to 250 Ah, for changing batteries with a crane	●	○	○	—	—
	Battery compartment for 300–375 Ah battery, for changing batteries with a crane	—	●	●	●	●
	Battery compartment for 400–500 Ah battery, for changing batteries with a crane	—	○	○	○	○
	Battery compartment for battery up to 250 Ah, for changing batteries with a roller track and changing frame	—	○	○	—	—
	Battery compartment for 300–375 Ah battery, for changing batteries with a roller track and changing frame	—	○	○	○	○
	Battery compartment for 400–500 Ah battery, for changing batteries with a roller track and changing frame	—	○	○	○	○
	STILL Li-ion battery of up to 3 kWh	—	—	—	○	○
	STILL Li-ion battery of up to 6 kWh	○	○	○	○	○
	STILL Li-ion battery of up to 9 kWh	—	—	—	○	○
	STILL Li-ion battery of up to 14 kWh	—	○	○	○	○
	Built-in charger for Li-ion battery and lead-acid 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.

