

### EXV-SF Technical Data High Lift Pallet Truck with Stand-on Platform





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#### EXV-SF High Lift Pallet Truck with Stand-on Platform Power meets innovation

This specification sheet, which conforms to VDI guideline 2198, provides the technical values for the standard equipment only. Different tyres, other masts, the use of accessories, etc. may result in other values.

1.1	Manufacturer				STILL	STILL	STILL	STILL	STILL	STILL	STILL	STILL	STILL
\$ 1.2					EXV-SF 14/Li-lon	EXV-SF 14i/Li-lon	EXV-SF 14 D/Li-lon	EXV-SF 16/Li-lon	EXV-SF 16i/Li-lon	EXV-SF 16 D/Li-lon	EXV-SF 20	EXV-SF 20i	EXV-SF 20 D
1.2 using 1.2					Electric	Electric	Electric	Electric	Electric	Electric	Electric	Electric	Electric
μ 1.3 .μ 1.4													
4	- T		0	L.e.	Pedestrian/standing	Pedestrian/standing	Pedestrian/standing	Pedestrian/standing	Pedestrian/standing	Pedestrian/standing	Pedestrian/standing	Pedestrian/standing	Pedestrian/standing
ing 1.5			Q.	0	1400	1400 (2000) <sup>1</sup> 600	1400/1000+1000 (2000) <sup>1</sup> 600	1600	1600 (2000) <sup>1</sup> 600	1600/1000+1000 (2000) <sup>1</sup> 600	2000	2000 (2000) 1	2000/1000+1000 (2000) <sup>1</sup> 600
1.6 Distin			C		600 724 <sup>2</sup>	724 <sup>2</sup> /646 <sup>2,3</sup>	924 <sup>2</sup> /846 <sup>2,3</sup>	600 724 <sup>2</sup>	724 <sup>2</sup> /646 <sup>2, 3</sup>	924 <sup>2</sup> /846 <sup>2,3</sup>	600 724 <sup>2</sup>	600 724 <sup>2</sup> /646 <sup>2, 3</sup>	924 <sup>2</sup> /846 <sup>2,3</sup>
- 1.0	•		Х									1 · · · ·	
1.9			У		13114	1311 <sup>4</sup> /1233 <sup>3,4</sup>	1511 <sup>4</sup> /1433 <sup>3,4</sup> 1262	1311 <sup>4</sup> 1258	13114/12333,4	1511 <sup>4</sup> /1433 <sup>3,4</sup>	1425 1575	1425/1347 <sup>3</sup> 1508	1625 <sup>4</sup> /1547 <sup>3,4</sup>
<b>st</b> 2.1	<b>0 (</b> <i>1 1</i>	1. 1/1 1 1		0	1258	1229			1229	1262			1536
2.2 Neigh	0.	drive end/load end		9	1040/1619	971/1658	1215/1447	1059/1800	979/1850	1249/1613	1384/2191	1213/2295	1451/2084
≥ 2.3	Ŭ	drive end/load end		кg	955/304	962/268	990/273	955/304	962/268	990/273	1141/434	1096/412	1153/383
3.1		المحرم بأنباه	_		Polyurethane	Polyurethane	Polyurethane	Polyurethane	Polyurethane	Polyurethane	Polyurethane	Polyurethane	Polyurethane
.3.2	,	drive end			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	Ø 230 x 90
3.3 /cha		load end			Ø 85 x 85 (Ø 85 x 60) <sup>6</sup>	Ø 85 x 85 (Ø 85 x 60) <sup>6</sup>		Ø 85 x 85 (Ø 85 x 60) <sup>6</sup>	Ø 85 x 85 (Ø 85 x 60) <sup>6</sup>	Ø 85 x 85 (Ø 85 x 60) <sup>6</sup>	Ø 85 x 85 (Ø 85 x 60) <sup>6</sup>	Ø 85 x 105 (Ø 85 x 80) <sup>6</sup>	Ø 85 x 105 (Ø 85 x 80) <sup>6</sup>
3.4		1. 1/1 1 1		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	2x Ø 140 x 50
≩ 3.5		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		drive end/load end			534 // 380/500	534 // 380/500	534 // 380/500	534 // 380/500	534 // 380/500	534 // 380/500	534 // 370/470	534 // 370/470	534 // 370/470
4.2	5	mast lowered		mm		See mast table			See mast table			See mast table	
4.3			h <sub>2</sub>	mm		See mast table			See mast table			See mast table	
4.4			h <sub>3</sub>	mm		See mast table			See mast table			See mast table	
4.5	5	mast extended		mm		See mast table	110		See mast table	110		See mast table	110
4.6	Initial lift	• 1	h₅	mm	-	110	110	-	110	110	-	110	110
4.9	5	min./max.			1175/1380	1175/1380	1120/1370	1175/1380	1175/1380	1120/1370	1175/1380	1175/1380	1120/1370
su 4.1	5		h <sub>13</sub>	mm		86	86	86	86	86	86	86	86
-isua 4.1	5		h		1993 <sup>2, 4</sup> /2401 <sup>2, 4, 7</sup>	1993 <sup>2, 4</sup> /2401 <sup>2, 4, 7</sup>	1993 <sup>2, 4</sup> /2401 <sup>2, 4, 7</sup>	1993 <sup>2, 4</sup> /2401 <sup>2, 4, 7</sup>	1993 <sup>2, 4</sup> /2401 <sup>2, 4, 7</sup>	1993 <sup>2, 4</sup> /2401 <sup>2, 4, 7</sup>	2108 <sup>2</sup> /2516 <sup>2,7</sup>	2108 <sup>2</sup> /2516 <sup>2,7</sup>	2108 <sup>2</sup> /2516 <sup>2,7</sup>
eu 4.2			l <sub>2</sub>		843 <sup>2,4</sup> /1251 <sup>2,4,7</sup>	843 <sup>2,4</sup> /1251 <sup>2,4,7</sup>	843 <sup>2,4</sup> /1251 <sup>2,4,7</sup>	843 <sup>2, 4</sup> /1251 <sup>2, 4, 7</sup>	843 <sup>2, 4</sup> /1251 <sup>2, 4, 7</sup>	843 <sup>2,4</sup> /1251 <sup>2,4,7</sup>	958 <sup>2</sup> /1366 <sup>2,7</sup>	958 <sup>2</sup> /1366 <sup>2,7</sup>	958 <sup>2</sup> /1366 <sup>2,7</sup>
ā 4.2			b <sub>1</sub>	mm		800	800	800	800	800	810	810	810
4.2			s/e/l		558/182/1150	55 <sup>8</sup> /182/1150	55 <sup>8</sup> /182/1150	55 <sup>8</sup> /182/1150	55 <sup>8</sup> /182/1150	55 <sup>8</sup> /182/1150	73 <sup>8</sup> /210/1150	738/210/1150	61/201/1150
4.2	5		b <sub>3</sub>	mm		780	780	780	780	780	780	780	780
4.2			b₅		560/680	560/680	560/530	560/680	560/680	560/530	580/680-570 °	580/680-570 <sup>8</sup>	570/542
4.3			m <sub>2</sub>	mm		20/110 <sup>3</sup>	20/130 <sup>3</sup>	30	20/110 <sup>3</sup>	20/130 <sup>3</sup>	20	20/110 <sup>3</sup>	20/130 <sup>3</sup>
4.3		,	A <sub>st</sub>		2406 4/2795 4.7	2390 <sup>3,4</sup> /2777 <sup>3,4,7</sup>	2441 <sup>3, 4</sup> /2828 <sup>3, 4, 7</sup>	2406 4/2795 4.7	2390 <sup>3,4</sup> /2777 <sup>3,4,7</sup>	2441 <sup>3,4</sup> /2828 <sup>3,4,7</sup>	2519 <sup>5</sup> /2909 <sup>5,7</sup>	2503 <sup>3, 5</sup> /2892 <sup>5, 7</sup>	2554 <sup>3</sup> /2943 <sup>3,7</sup>
4.3	5 Turning radius		Wa	mm	1584 <sup>4</sup> /1973 <sup>4,7</sup>	1507 <sup>3,4</sup> /1894 <sup>3,4,7</sup>	1707 <sup>3,4</sup> /2094 <sup>3,4,7</sup>	1584 <sup>4</sup> /1973 <sup>4,7</sup>	1507 <sup>3,4</sup> /1894 <sup>3,4,7</sup>	1707 <sup>3,4</sup> /2094 <sup>3,4,7</sup>	1697 <sup>5</sup> /2087 <sup>5,7</sup>	1620 <sup>3</sup> /2009 <sup>3, 5, 7</sup>	1820 <sup>3</sup> /2209 <sup>3,7</sup>
<b>5</b> .1	Travel speed	laden/unladen		km/h	4.0/4.0 6.0/6.0 8.0/10.0 <sup>7</sup>	4.0/4.0 6.0/6.0 8.0/10.07	4.0/4.0 6.0/6.0 7.0/10.0 <sup>7</sup>	4.0/4.0 6.0/6.0 8.0/10.0 <sup>7</sup>	4.0/4.0 6.0/6.0 8.0/10.07	4.0/4.0 6.0/6.0 7.0/10.0 <sup>7</sup>	4.0/4.0 6.0/6.0 8.0/10.07	4.0/4.0 6.0/6.0 8.0/10.0 <sup>7</sup>	4.0/4.0 6.0/6.0 7.0/10.0
<b>June</b> 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
Lig 5.3		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
<b>B</b> 5.8	Max. gradeability kB 5	laden/unladen		%	9.2 <sup>9</sup> /9.2 <sup>9</sup>	10.0/22.0	10.0/22.0	9.2 9/9.2 9	10.0/22.0	10.0/22.0	5.6 9/5.6 9	8.0/23.0	8.0/23.0
5.1	) Service brake				Electromagnetic	Electromagnetic	Electromagnetic	Electromagnetic	Electromagnetic	Electromagnetic	Electromagnetic	Electromagnetic	Electromagnetic
6.1	Drive motor, rating S2 = 60 min			kW	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
o 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	3.2
<b>uibu</b> 6.3	U U	no			2PzS	2PzS	2PzS	2PzS	2PzS	2PzS	3PzS	3PzS	3PzS
6.4				V/Ah	24/230 Li-lon: 24/205	24/230 Li-Ion: 24/205	24/230	24/230 Li-Ion: 24/205	24/230 Li-Ion: 24/205	24/230	24/345	24/345	24/345
<b>B</b> 6.5	Battery weight ±5% (depends on make)			kg	212	212	212	212	212	212	288	288	288
6.6	Energy consumption according to DIN EN 16796	6		kWh/h	0.80	0.80	0.80	0.84	0.84	0.84	0.95	0.95	0.95
ja 8.1	Drive control				AC control	AC control	AC control	AC control	AC control	AC control	AC control	AC control	AC control
<del>ਇ</del> 8.4	Sound level at driver's ear			dB(A)	≤66	≤66	≤66	≤66	≤66	≤66	≤66	≤66	≤66

 $^1$  Transpallet capacity on the load arm  $^2$  With telescopic or HiLo mast (x -26 mm; l1, l2 +26 mm with triplex mast)

<sup>3</sup> Wheel arms raised

<sup>4</sup> +75 mm with 3PzS and +150 mm with 4PzS

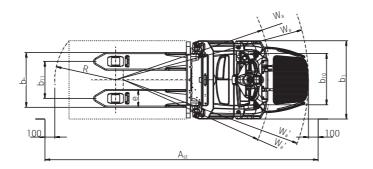
 $^{\scriptscriptstyle 5}$  With triplex mast 4,476 mm and battery weight 302 kg

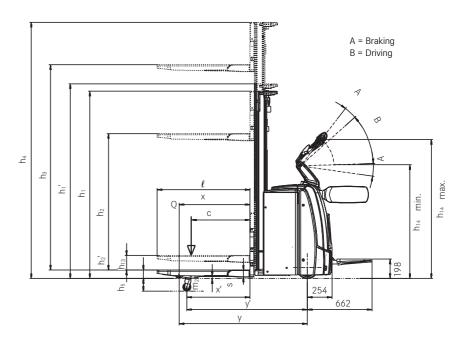
<sup>6</sup> Truck fitted with tandem rollers

<sup>7</sup> Platform lowered

<sup>8</sup> Preferred while using grid box; a carriage with forks thickness s = 71 mm is also available

<sup>9</sup> Geometric limit on unrounded vertex slope







#### EXV-SF High Lift Pallet Truck with Stand-on Platform Mast Tables



14i - 16i				Telescopic mast										
- EXV-SF 1	Height	$h_1$	mm	1415 <sup>2</sup>	1665 <sup>2</sup>	1915	2115	2365	2565	2815				
	Mast height with free lift applied (h <sub>3</sub> = 150 mm)	h1'	mm	1490	1740	1990	2190	2440	2640	2890				
- 14 = 16	Free lift 1	h <sub>2</sub>	mm	150	150	150	150	150	150	150				
EXV-SF EXV-SF	Lift	h <sub>3</sub>	mm	1844	2344	2844	3244	3744	4144	4644				
EX	Height, mast extended	h4	mm	2930	3430	3930	4330	4830	5230	5730				

14i - 16i				HiLo ma	ast					Triplex mast							
- EXV-SF 1 - EXV-SF	Height	$h_1$	mm	1415 <sup>2</sup>	1665 <sup>2</sup>	1915	2115	2365	2565	1665 <sup>2</sup>	1915	2065	2165	2265	2315	2365	2515
Щ Ш Ш	Free lift	h <sub>2</sub>	mm	329	579	829	1029	1279	1479	579	829	979	1079	1179	1229	1279	1429
: 14 F 16	Lift	h <sub>3</sub>	mm	1844	2344	2844	3244	3744	4144	3516	4266	4716	5016	5316	5466	5616	6066
EXV-SF EXV-SF	Height, mast extended	h4	mm	2930	3430	3930	4330	4830	5230	4602	5352	5802	6102	6402	6552	6702	7152

 $^1$  With increased mast height  $h_1^\prime$   $^2$  Mast not available with battery tray 2PzS and 3PzS (replacement using crane)

				Telescopic mast			HiLo ma	ast		Triplex mast		
	Height	hı	mm	1915	2115	2365	1915	2115	2365	1665	1915	2065
20 - 20i	Mast height with free lift applied (h <sub>3</sub> = 150 mm)	h1'	mm	1990	2190	2440	-	-	-	-	-	-
EXV-SF EXV-SF	Free lift	$h_2$	mm	-	-	-	749	949	1199	499	749	899
EXV	Free lift <sup>1</sup>	h <sub>2</sub>	mm	150	150	150	-	-	-	-	-	-
	Lift	h₃	mm	2684	3084	3584	2684	3084	3584	3276	4026	4476
	Height, mast extended	h <sub>4</sub>	mm	3850	4250	4750	3850	4250	4750	4442	5192	5642

 $^{\scriptscriptstyle 1}$  With increased mast height  $h_{\scriptscriptstyle 1}{}^\prime$ 



## EXV-SF High Lift Pallet Truck with Stand-on Platform Detailed Photos



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



Safe even when cornering: automatic speed reduction around corners



Reduces back strain: air suspended stand-on platform adjustable to the individual weight of the driver



High turnover performance due to double deck transport on non-stackable goods



Ready at all times: high availability thanks to optional lateral battery change



Maximum power: if the mast is not required, up to 2.0 t can be carried on the initial lift



Fast and safe: innovative battery plug lock enables fast battery replacement, without the risk of jamming



Maximum turnover performance: 10 km/h top driving speed

## EXV-SF High Lift Pallet Truck with Stand-on Platform Power meets innovation

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

Protects the back: air-cushioned stand-on platform which can be adjusted to individual driver's weight

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

High handling rate due to high driving speeds of up to 10  $\mbox{km/h}$ 

The EXV-SF high lift pallet truck is unbelievably fast, extremely strong and highly intelligent. With an extended stand-on platform and lateral protective arms, it accelerates to a top speed of 10 km/h, and moves up to 2,000 kg of pallets in record time. Thanks to its huge residual load capacity, it can also store a great deal at a great height – depending on the mast, storage heights of well over five metres are not a problem. This smart warehouse organiser is also the only high lift pallet truck to date with an informative colour display.

As well as displaying basic information, such as the battery's state of charge, numerous language-independent symbols facilitate the optimal operation of this strong high lift pallet truck. Together with its powerful and low-maintenance motor and its precise control elements suitable for either left- or right-handed operators, it can achieve unprecedented reloading of pallets. Optional load capacity display, speed reduction around corners as standard, and optional combi-tiller provide optimum driver safety and enable the EXV-SF to turn and move easily – even in the most confined spaces. The EXV-SF high lift pallet truck, which is as strong as it is smart, means that you can always keep your flow of goods safely under control; from transporting loads within the pre-storage area to operating the shelving system – and you will be thankful for the stand-on platform over longer distances.

#### The 'Simply Efficient' factors: Performance attributes as a measure of economic efficiency

#### Simply easy

- Fatigue-free operation thanks to precise and intuitive electrical steering unit
- Precise even in the tightest of spaces with the help of sensitive proportional valve control
- High availability thanks to straightforward battery change, optionally also on the side of the vehicle
- All the information you need at a glance via a modern and easy-to-read colour display

#### Simply powerful

6

- Maximum storage compaction due to outstanding residual load capacity and lift height
- Power for two: even multiple-shift use can be handled without a problem thanks to high battery capacity
- High availability due to powerful lithium-ion battery with the option of interim charging

### Simply safe

- Convenient and safe working: with its individual weight adjustment, the air-cushioned stand-on platform protects the driver's back and joints
- Everything in view: optional load capacity display shows the current mast height and corresponding residual load capacity
- Curve Speed Control allows fast yet safe cornering by automatically adjusting the speed to the steering angle, ensuring the optimal safe distance between forklift and driver via the optional combined tiller

#### 🖈 Simply flexible

- The right driving programme for every situation: ECO, BOOST or Blue-Q – from maximum handling rate to highest efficiency
- Blue-Q efficiency mode allows energy savings of up to seven percent at the press of a button, with no loss of performance
- Manoeuvrable in tight spaces and narrow aisles thanks to compact dimensions and folding stand-on platform

#### 🛞 Simply connected

- Easy and transparent web-based truck maintenance with FleetManager 4.x
- Various driver profiles can be saved, allowing straightforward truck use by multiple drivers
- Maximum transparency and needs-based fleet analysis thanks to transmission of comprehensive, use-based data

# EXV-SF High Lift Pallet Truck with Stand-on Platform Equipment Variants



		EXV-SF 14	EXV-SF 14(i)/ EXV-SF 14 D	EXV-SF 16	EXV-SF 16(i)/ EXV-SF 16 D	EXV-SF 20	EXV-SF 20(i)/ EXV-SF 20 D
	Display and operating unit with colour display for selection of driving programme	•	•	٠	٠	•	•
	Pneumatically cushioned folding stand-on platform	•	•	•	•	•	•
	Integrated storage facilities	•	•	•	•	•	•
	2-tonne load capacity with initial lift when mast is not used	—	•	—	•	—	•
	Easy-grip tiller for left and right-handed operators	•	•	•	•	•	•
	Two-stage setting option for high-precision lifting and lowering	•	•	•	•	•	•
	New Blue-Q energy-saving system	•	•	•	•	•	•
<del>7</del> ,	Various non-deflecting fork lengths	0	0/—	0	0/—	•	•/
General	Various fork lengths for pallet cage	•	•	•	•	0	0
G	Accessory bar	0	0	0	0	0	0
	Electric preparation for data terminal	0	0	0	0	0	0
	Cold storage version	0	0	0	0	0	0
	High-performance rotary driving motor has very low maintenance costs	•	•	•	•	•	•
	Electrical steering unit: AC steering motor for exceptionally fatigue-free	•					
	operation	•	•	•	•	•	•
	Proportional valve technology for high-precision movements	•	•	•	•	•	•
	Double deck application	—	_/•	—	_/•	—	_/•
	Telescopic mast	0	0	0	0	0	0
	HiLo mast	0	0	0	0	0	0
ы.	Triplex mast	0	0	0	0	0	0
Mast	Mast protective grille	•	•		•	•	•
	Protective mast screen made from polycarbonate	0	0	0	0	0	0
	Initial lift	—	•	—	•	—	•
	Automatic lowering of initial lift at 1,500 mm mast height		0/—	_	0/—	-	0/—
	Drive wheel tyres, polyurethane	•	•	•	•	•	•
	Drive wheel tyres, polyurethane, profiled	0	0	0	0	0	0
	Drive wheel tyres, solid rubber	0	0	0	0	0	0
	Drive wheel tyres, solid rubber, profiled	0	0	0	0	0	0
els	Drive wheel tyres, polyurethane (75 Shore) for better traction	0	0	0	0	0	0
Wheels	Drive wheel tyres, solid rubber, natural-coloured	0	0	0	0	0	0
_	Load roller tyres, polyurethane, single	0	0	0	0	0	•
	Load roller tyres, polyurethane, tandem	•	•	•	•	•	_
	Fully enclosed components which are impervious to dirt and dust		•		•	•	•
	Stabilising wheel, single	•	•	•	•	_	_
	Stabilising wheel, double	0	0	0	0	•	•
	FleetManager: access authorisation, shock detection, reports	0	0	0	0	0	0
	Curve Speed Control: speed reduction when driving around corners	•	•		•	•	•
	Combi tiller: Adjustable tiller length for sufficient space between truck and operator	0	0	0	0	0	0
Safety	Access authorisation with STILL key				•		
Saf	Load capacity indicator	0	0	0	0	0	0
	Dynamic Load Control	0	0/-	0	0/-	0	0/-
	PIN code access	0	0	0	0	0	0
	Load backrest		•	•	•	•	•
	Battery compartment for battery up to 250 Ah for battery replacement using crane	•	•	•	•	•	•
	Battery compartment for battery up to 375 Ah for battery replacement using crane	0	0	0	0	0	0
Battery	Battery compartment for battery up to 375 Ah for battery replacement using roller track and changing frame	0	0	0	0	0	0
Bat	STILL Li-Ion Battery for 205 Ah	0	0	0	0	—	—
	STILL Li-Ion Battery for 410 Ah	0	0	0	0	_	
	Battery compartment for battery up to 500 Ah for battery replacement using	0	0	0	0		
	roller track and changing frame Built-in charger for battery replacement using crane	0	0	0	0	0	0
		-	-	-	-	-	

• Standard Option — Not available



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



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