

SXD, FXD N and FXD Technical Data Double Deck High Lift Pallet Trucks

SXD 20/Li-Ion

FXD 20 N/Li-Ion

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SXD, FXD N and FXD Double Deck High Lift Pallet Trucks
Double Load - Easy Transport

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 figures.



					STILL		STILL	
					SXD 20/Li-Ion	FXD 20 N/Li-Ion	FXD 20/Li-Ion	FXD 20/Li-Ion
Features	1.1	Manufacturer						
	1.2	Manufacturer's model designation						
	1.3	Drive			Electric	Electric	Electric	Electric
	1.4	Operation			Stand-on	Seated truck	Seated truck	Seated truck
	1.5	Nominal load		Q	kg	2000	2000	2000
	1.5.1	Capacity/load	as a double decker	Qi + Qm	kg	1000+800	1000+1000	1000+1000
	1.6	Load centre distance		c	mm	600	600	600
	1.8	Load distance		x	mm	860 ³	950 ³	950 ³
	1.9	Wheel base		y	mm	1780 ³	1824 ³	1828 ³
Weights	2.1	Service weight incl. battery			kg	1348 ¹	1451 ¹	1561 ¹
	2.2	Axle load, laden	drive end/load end		kg	1273/2075 ¹	1318/2133 ¹	1390/2140 ¹
	2.3	Axle load, unladen	drive end/load end		kg	943/405	992/459	1052/509
Wheels/chassis	3.1	Tyres				Polyurethane	Polyurethane	Polyurethane
	3.2	Tyre size	drive end	ø x l	mm	254 x 102	254 x 102	254 x 102
	3.3	Tyre size	load end	ø x l	mm	85 x 85 (2x 85x60) ²	85 x 85 (2x 85x60) ²	2x 85x60 ²
	3.4	Support rollers size		ø x l	mm	2x 140x50	2x 140x50	2x 140x50
	3.5	Number of wheels (x = driven)	drive end/load end			1x + 1/2 (1x + 1/4) ²	1x + 1/2 (1x + 1/4) ²	1x + 1/2 (1x + 1/4) ²
	3.6	Tread width	drive end/load end	b ₁₀ /b ₁₁	mm	484/380	see mast table	see mast table
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 ⁴	mast extended	h ₄	mm	see mast table	see mast table	see mast table
	4.6	Initial lift		h ₅	mm	125	125	125
	4.7	Seat height rel. to SIP		h ₇	mm	-	1024	1166
	4.15	Fork height lowered		h ₁₃	mm	86	86	86
	4.19	Total length		l ₁	mm	2170 ¹	2187 ¹	2187 ¹
	4.20	Length including fork backs		l ₂	mm	1020 ¹	1037 ¹	1037 ¹
	4.21	Total width		b ₁	mm	770	820	970
	4.22	Fork dimensions		s/e/l	mm	51/180/1150	50/180/1150	71/180/1150
	4.23	Wheel dimensions		s/e/l	mm	76/150/1115	75/150/1115	75/150/1115
	4.24	Fork carriage width		b ₃	mm	710	780	780
	4.25	Overall fork width		b ₅	mm	560	560	560
	4.26	Width between wheel arms		b ₄	mm	196	255	255
4.32	Ground clearance, centre of wheel base		m ₂	mm	20	20	20	
4.34	Working aisle width with 800 x 1200 pallet lengthways		A _{st}	mm	2640 ¹	2684 ¹	2693 ¹	
4.35	Turning radius		W _a	mm	1950 ¹	2012 ¹	2021 ¹	
Performance data	5.1	Driving speed	laden/unladen		km/h	10/10	10/10	10/12
	5.2	Lifting speed	laden/unladen		m/s	0.013/0.023	0.107/0.174	0.107/0.174
	5.3	Lifting speed, initial lift	laden/unladen		m/s	0.064/0.089	0.034/0.07	0.034/0.07
	5.3	Lowering speed	laden/unladen		m/s	0.045/0.032	0.377/0.394	0.377/0.394
		Lowering speed, initial lift	laden/unladen		m/s	0.073/0.075	0.084/0.084	0.084/0.084
	5.8	Max. gradeability	0 kg/1200 kg/2000 kg		%	20/15/13	20/15/10	20/17/16
5.9	Service brake				Electromagnetic	Electromagnetic	Electromagnetic	
Electric engine	6.1	Drive motor, rating S2 = 60 min			kW	3.0	3.0	3.0
	6.2	Lifting motor, rating S3 = 10 %			kW	2.3	2.2	2.2
	6.3	Battery according to DIN 43531/35/36 A, B, C, no				3PzS	3PzS	3PzS
	6.4	Battery voltage/rated capacity K _s			V/Ah	24/300 Li-Ion: 23/205	24/300 Li-Ion: 23/205	24/300 Li-Ion: 23/205
	6.5	Battery weight ±5% (depends on manufacturer)			kg	290	290	290
	6.6	Energy consumption according to VDI cycle			kWh/h	1.01	1.08	1.1
	6.7	Handling rate acc. to VDI cycle			t/h	136	48	46
Misc.	8.1	Transmission control				AC control	AC control	AC control
	10.7	Noise level (at operator's ear)			dB(A)	67	69	68
	Human vibrations: acceleration in accordance with EN 13059				m/s ²	0.74	0.56	0.4

¹ With 3PzS battery; +75 mm 4PzS battery SXD 20; +100 mm 4PzS battery FXD 20 N/FXD 20

² With tandem rollers

³ Initial lift lowered

⁴ With load backrest +566 mm

Mast Table

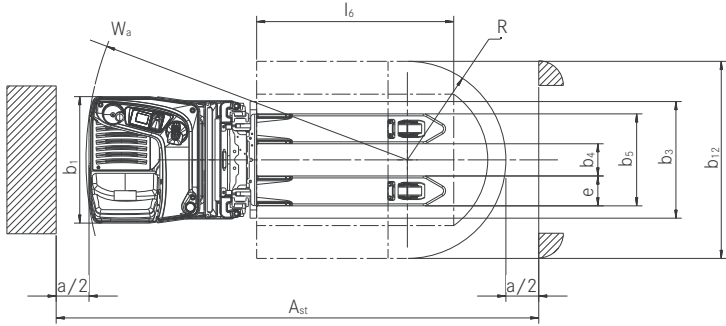
SXD 20			Telescopic mast					HiLo mast					
			h ₁	mm	1240	1315	1415	1465	1515	1240	1315	1415	1465
	Height	h ₁	mm	1240	1315	1415	1465	1515	1240	1315	1415	1465	1515
	Mast height with used free lift	h ₁ '	mm	1315	1390	1490	1540	1590	-	-	-	-	-
	Free lift	h ₂	mm	150	150	150	150	150	720	795	895	945	995
	Lift	h ₃	mm	1574	1724	1924	2024	2124	1574	1724	1924	2024	2124
	Height, mast extended ⁴	h ₄	mm	2094	2244	2444	2544	2644	2094	2244	2444	2544	2644

Mast Tables

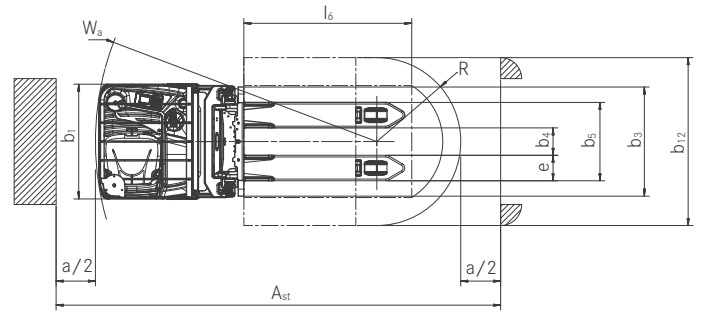
FXD 20 N				Telescopic mast		HiLo mast	
				h ₁	mm	1415	1665
	Height	h ₁	mm	1415	1665	1415	1665
	Mast height with used free lift	h ₁ '	mm	1490	1740	-	-
	Free lift	h ₂	mm	150	150	895	1145
	Lift	h ₃	mm	1844	2344	1844	2344
	Height, mast extended ⁴	h ₄	mm	2364	2864	2444	2864

FXD 20				Telescopic mast			HiLo mast		
				h ₁	mm	1415	1665	1915	1415
	Height	h ₁	mm	1415	1665	1915	1415	1665	1915
	Mast height with used free lift	h ₁ '	mm	1490	1740	1990	-	-	-
	Free lift	h ₂	mm	150	150	150	895	1145	1395
	Lift	h ₃	mm	1844	2344	2844	1844	2344	2844
	Height, mast extended ⁴	h ₄	mm	2364	2864	3364	2364	2864	3364

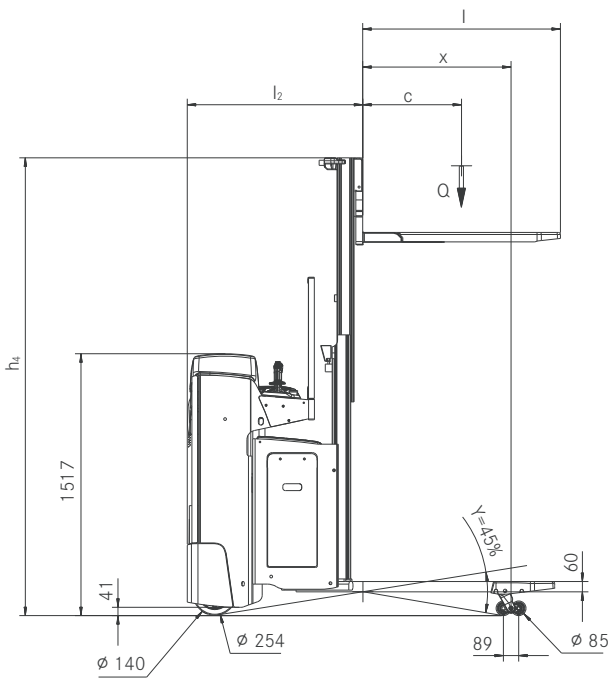
SXD and FXD N Double Deck High Lift Pallet Trucks
 Technical Drawings



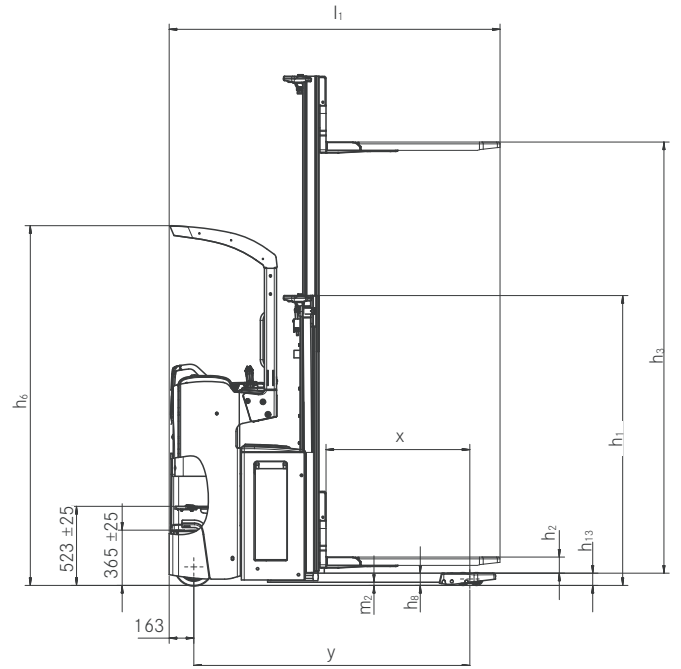
Top view SXD



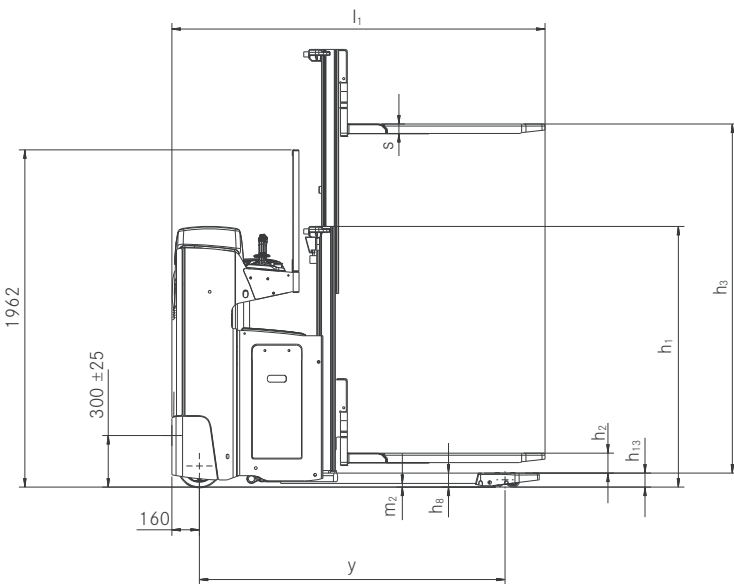
Top view FXD N



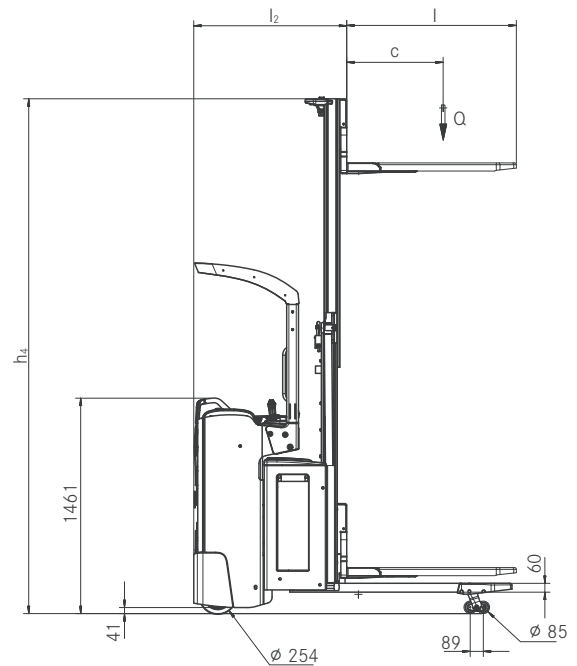
Side view SXD



Side view FXD N

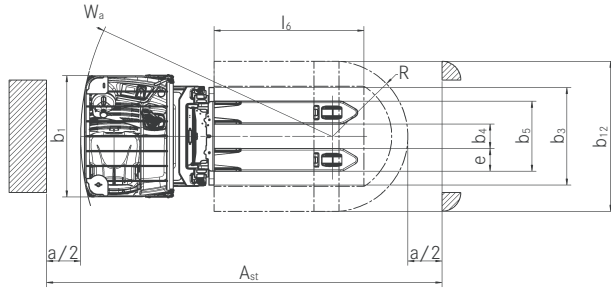


Side view SXD

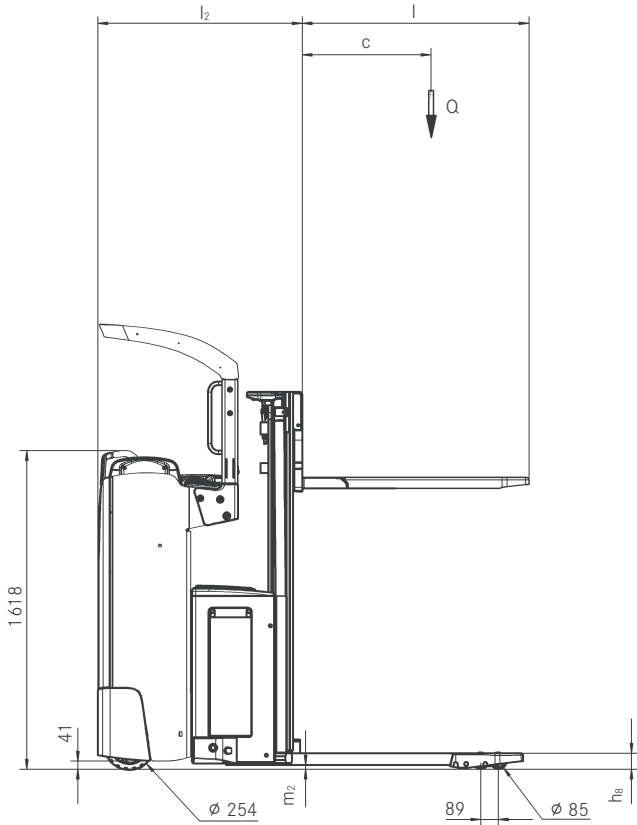


Side view FXD N

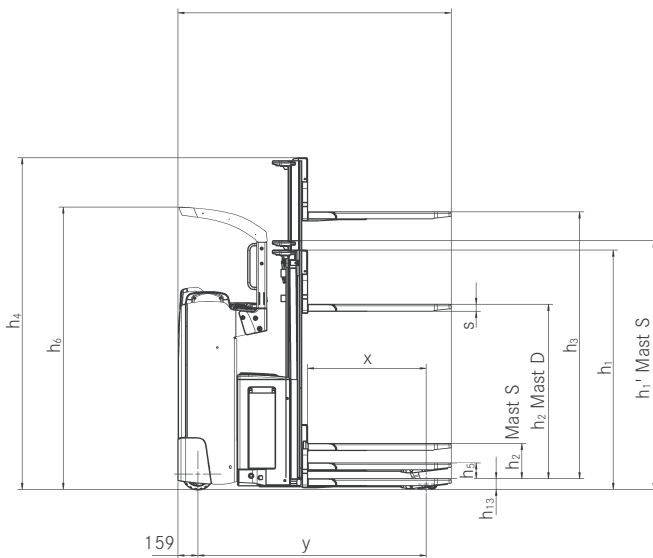
FXD Double Deck High Lift Pallet Trucks
 Technical Drawings



Top view FXD



Side view FXD



Side view FXD

SXD and FXD N Double Deck High Lift Pallet Trucks Detailed Photos



Perfect view of the prongs increases the reloading rate and safety



Precise driving, lifting and lowering with standard joystick, without having to keep changing hands for fatigue-free operation



Edge-free battery door for operation in confined spaces



Maximum comfort: The steering wheel can be positioned on the left- or right-hand side for individual adjustments



Back-friendly even on longer stretches thanks to the sprung foot plate



Standard lateral battery change for maximum availability and ergonomics



Always safe travel thanks to the standard overhead guard



Optional Joystick 4Plus for lift, lowering and transmission control without having to change hands for fatigue-free operation

FXD N and FXD Double Deck High Lift Pallet Trucks Detailed Photos



Automatic counterbalancing for uneven floors and best possible driving behaviour



Narrow overhead guard profile for optimum view when stacking and dispatching



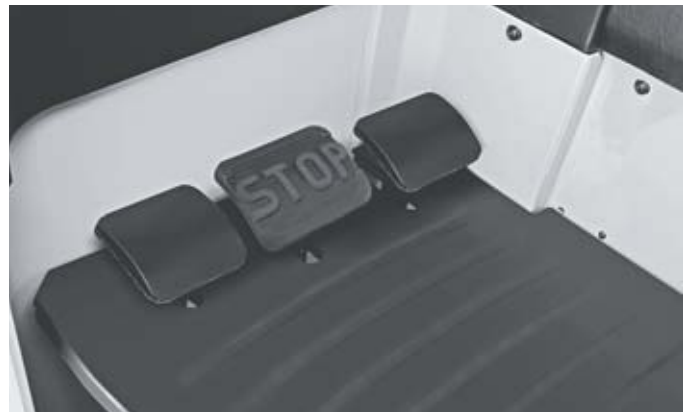
Flexible and powerful thanks to the maximum lifting capacity of up to 1,200 kg on the mast



Higher handling rate: up to 2,000 kg lifting capacity and 12 km/h speed



Maximum availability because of Li-Ion technology and interim charging



Precision down to your toes with pedals for fast direction changes



Particularly spacious driver workstation with integrated storage option and comfort seat



Colour display and control unit shows battery status, direction of travel and additional information

SXD, FXD N and FXD Double Deck High Lift Pallet Trucks
Double Load - Easy Transport



SXD, FXD N and FXD Double Deck High Lift Pallet Trucks Double Load - Easy Transport

Powerful and compact: Lifting capacity of up to 2,000 kg and narrow chassis with a width of only 770 mm

Powerful movement on ramps to increase handling capacity and high level of safety because of optional chassis counterbalance

Intuitive operator guidance as the control unit can be attached on the left or right operating side



SXD

The SXD is a truck for the most demanding applications. The SXD quickly and safely handles double-deck storage, loading and unloading lorries or even horizontal transport. It saves time by transporting two standard pallets at once to your chosen location. Loads are incredibly easy to move even on ramps, due to the optional counterbalance for the chassis. The SXD's strength lies in its flexibility. As a double deck truck, the SXD can transport 800 kg on the mast and, at the same time, 1,200 kg on the initial lift. If the initial lift is not used, the SXD can also function as a high lift pallet truck for up to 1,200 kg.

As a high lift pallet truck, the SXD transports even 2,000 kg on a pallet. This saves time and increases the handling performance. In addition, more, the SXD is also ideally suited as a work or lifting table, and for shelf-filling. Its individuality is also reflected in the details: The steering wheel on the driver's stand can be mounted on the right- or left-hand side to take individual operator preferences into account. This customisation increases safety in the warehouse, as the truck can be operated as preferred. The compact dimensions, enable it to be used in the smallest of spaces, and the cushioned driver's operating platform complete the whole package and make the SXD the perfect warehouse assistant.

Performance and comfort: Speed up to 10 km/h and ergonomic driver's seat

Maximum precision: Joystick 4Plus and clear view of the prongs

Ergonomic down to the finest detail: Height-adjustable foot plate and variable operating concept for fatigue-free operation



FXD 20 N

Doubly good warehouse organiser: The double deck high lift pallet truck FXD 20 N can transport two pallets at once. In total, it moves loads of up to 2,000 kg, 1,000 kg on the initial lift and 1,000 kg on the forks. The latter raise the pallets to a height of more than 2.30 m. This makes the FXD 20 N perfect for the twice as fast transport of pressure-sensitive goods such as food. The high lift pallet truck works not only especially fast but also for a particularly long time: Owing to the maximum battery capacity of 500 Ah, the logistical powerhouse effortlessly manages a full shift.

If you opt for the modern Li-Ion technology and use short breaks for interim charging, you even ensure 24-hour availability. Things may get tight in the warehouse, but never for the operator of an FXD 20 N, which can be manoeuvred smoothly and precisely, even in confined spaces, with the flexibly adjustable electrical steering unit. Even the number of steering wheel turns needed for a 180-degree change of direction is individually adjustable. Safety is ensured with features such as the automatic speed reduction when cornering and the standard overhead guard.

SXD, FXD N and FXD Double Deck High Lift Pallet Trucks Double Load - Easy Transport

High reloading performance: Lifting capacity up to 2,000 kg and speed up to 12 km/h

Optimum comfort due to the extra spacious driver workstation with comfort seat

Maximum availability with battery capacities of up to 620 Ah and Li-Ion technology



FXD 20

Handling rate combined with comfort: that is what the FXD 20 double deck high lift pallet truck stands for. It can transport two non-stackable pallets at once. The maximum lifting capacity of up to 2,000 kg coupled with a speed of up to 12 km/h guarantees maximum handling performance. With a mast height of more than 2.3 m and a maximum lifting capacity of up to 1,200 kg on the mast, the FXD 20 is just as versatile as it is powerful. Its particular strengths lie in multi-shift operation, because with the lateral battery change and battery

capacities of up to 620 Ah the FXD 20 is available around the clock. Optionally, the Li-Ion technology allows for rapid (interim) charging without removing the battery. The optional pedals enable precise manoeuvring in the aisles. The lifting functions are operated with the Joystick 4Plus. Due to the ergonomic design of the joystick fatigue-free operation is guaranteed. Also, the automatic speed reduction when driving around corners and the speed adaptation based on mast height ensure maximum safety.

Extensive Equipment

Power

- Effective goods handling: Driving speed up to 12 km/h
- High handling rate thanks to stacking on two levels with a load capacity of up to 2,000 kg
- Enough power for multiple shifts: High battery capacity of up to 620 Ah and lateral battery change available
- Always available: The Li-Ion battery bundles large amounts of energy and allows for quick and easy interim charging
- The right driving programme for all situations: ECO, BOOST or Blue-Q – from maximum handling rate to highest efficiency

Precision

- Precise handling of all functions with the joystick without having to keep changing hands
- Fatigue-free operation: Precise and intuitive electrical steering unit
- Sensitive and intuitive operation with the proportional valve technology for lifting and lowering
- Everything in view, all the time: Display shows battery status, date and time
- Precision down to the toes: Pedals for fast direction changes in the FXH 20

Ergonomics

- Reduced impact when driving over uneven surfaces with cushioned driver's seat
- Maximum operator comfort thanks to height-adjustable foot plate in the FXD 20 N and FXD 20
- All functions can be easily operated using the Joystick 4Plus without having to keep changing hands
- Ergonomic and intuitive operation: Option of steering wheel or steering knob

Compactness

- Ideal in the smallest of spaces: Compact truck dimensions and very high manoeuvrability allow for optimum use of warehouse space
- High pallet reloading rate: Flexible application options thanks to the compact dimensions
- At home in any aisle: Truck widths of 770 mm, 820 mm or 970 mm to choose from

Safety

- Extremely safe around corners: Curve speed control automatically adapts speed to the steering angle when cornering
- Extremely safe to drive due to speed limiter based on mast height
- High stability on uneven surfaces with the automatic counterbalance
- The large step and low entry make it safe and easy to get into
- Versatile, flexible access control with FleetManager 4.x
- Protection from all sides: Overhead guard of the FXD 20 N and FXD 20 for increased working safety

Environmental Responsibility

- Energy savings of up to seven percent at the touch of a button with no loss of performance: Blue-Q efficiency mode
- Low operating costs: Low energy consumption and long maintenance intervals
- Low noise emissions due to extremely quiet drive and lifting motor

SXD, FXD N and FXD Double Deck High Lift Pallet Trucks Equipment Variants



	SXD 20	FXD 20 N	FXD 20	
General	Cushioned driver's seat	—	●	●
	Height-adjustable foot plate	—	●	●
	Cushioned foot plate	●	—	—
	Height-adjustable backrest	●	—	—
	Colour display and control unit	●	●	●
	Integrated storage option	●	●	●
	Fully electric steering	●	●	●
	Fully electric steering with reversing function	○	○	○
	Hydraulic operation via fixed joystick	●	●	—
	Hydraulic operation via Joystick 4Plus	—	○	●
	Driving with single pedal	—	—	○
	Driving with dual pedal	—	—	○
	Steering on the right-hand side	○	—	—
	Steering knob on the left-hand side	○	○	—
	High-performance AC drive motor	●	●	●
	Cold store variant	○	○	○
	Accessory rods on the right- or left-hand side or on both sides	○	○	○
	DIN A4 writing surface	○	○	○
	Preparation for data terminal	○	○	○
	Data transfer via Bluetooth or GPRS	○	○	○
Mast	Low entry and handle	●	●	●
	Initial lift	●	●	●
	Telescopic mast	○	○	○
	HiLo mast	○	○	○
Tyres	Mast protective grille	●	●	●
	Protective mast screen made from polycarbonate	○	○	○
	Load rollers, polyurethane, single	●	●	—
	Load rollers, polyurethane, tandem	○	○	●
	Load rollers, polyurethane, tandem, lubricated	○	○	○
	Drive wheel, polyurethane	●	●	●
Safety	Drive wheel, polyurethane, profiled	○	○	○
	Drive wheel, polyurethane, soft	○	○	○
	Drive wheel, solid rubber	○	○	○
	Drive wheel, solid rubber, profiled	○	○	—
	Automatic counterbalancing	○	○	○
	Access authorisation (key)	●	●	●
	Access authorisation (digicode)	○	○	○
	FleetManager access authorisation (digicode)	○	○	○
Battery	FleetManager access authorisation (STILL chip/customer card/customer chip)	○	○	○
	FleetManager: Shock detection	○	○	○
	Curve Speed Control: Speed reduction when driving around corners	●	●	●
	Speed reduction based on mast height	●	●	●
	Speed limited to 8 km/h	○	○	○
	Load backrest	○	○	○
	Overhead guard	—	●	●
Battery	Lateral battery change with roller conveyor	○	●	●
	Battery compartment for battery up to 375 Ah	●	●	●
	Battery compartment for battery up to 500 Ah	○	○	○
	Battery compartment for battery up to 620 Ah	—	—	○
	205 Ah Li-Ion battery	○	○	○
410 Ah Li-Ion battery	○	○	○	

● Standard ○ Optional — Not available