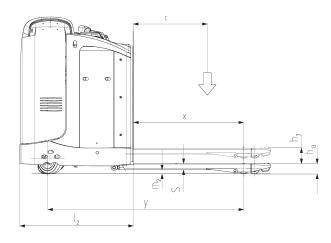
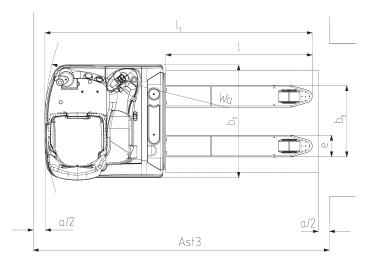


FU-X Technical Data.	FU-X
	FS-X
Rider seated Low lift pallet truck	



first in intralogistics





This specification sheet to VDI Guidelines 2198 gives the technical figures for the standard truck. Different tyres, other masts, additional equipment etc. could give different figures.

1.2 Manufac 1.3 Drive (eld 1.4 Type of c 1.5 Capacity 1.6 Load cer 1.8 Load dist 1.9 Wheelbar 2.1 Weight (v 2.2 Axle load 2.3 Axle load 3.3 Tyre size 3.3 Tyre size 3.5 Wheelbar 3.6 Track wid 3.7 Track wid 4.4 Lift 4.8 Seat heig 4.15 Height lo 4.15 Height lo 4.20 Length ir 4.21 Overall le 4.32 Floor cle 4.33 Working 4.34 Working 4.35 Turning r 5.1 Travel sp 5.2 Lift spee 5.3 Lowering 5.7 Gradeabi 5.8 Max. gra 5.10 <td< th=""><th>nufacturer nufacturer's model designation ve (electric, diesel, petrol, gas, mains electric) e of control (hand, pedestrian, stand-on, rider seated, order picker) bacity/load ad centre ad distance (lowered/raised) eelbase, raised ight (without battery)</th><th>Q t c mm</th><th>STILL FU-X 20 Electric Rider seated with steering wheel</th></td<>	nufacturer nufacturer's model designation ve (electric, diesel, petrol, gas, mains electric) e of control (hand, pedestrian, stand-on, rider seated, order picker) bacity/load ad centre ad distance (lowered/raised) eelbase, raised ight (without battery)	Q t c mm	STILL FU-X 20 Electric Rider seated with steering wheel
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3.2 Tyre size 3.3 Tyre size 3.5 Wheels, 3.6 Track wid 3.7 Track wid 3.7 Track wid 3.7 Track wid 4.4 Lift 4.8 Seat heig 4.15 Height lo 4.19 Overall wid 4.20 Length ir 4.21 Overall wid 4.22 Fork dim 4.33 Working 4.35 Turning r 5.1 Travel sp 5.2 Lift spee 5.3 Lowering 5.7 Gradeabi 5.8 Max. gra 5.10 Service t 6.1 Drive mo 6.2 Hoist mo	e loading unladen front/rear	kg	967/212 ³
3.7 Track wid 4.4 Lift 4.8 Seat heig 4.15 Height lo 4.19 Overall le 4.20 Length in 4.22 Fork dim 4.22 Fork dim 4.25 Overall fe 4.25 Overall fe 4.33 Working 4.34 Working 4.35 Turning r 5.1 Travel sp 5.2 Lift spee 5.3 Lowering 5.7 Gradeabi 5.8 Max. gra 5.10 Service t 6.1 Drive mo 6.2 Hoist mc	es (rubber, vulkollan, pneumatic, polyurethane)		Vulkollan
3.7 Track wid 4.4 Lift 4.8 Seat heig 4.15 Height lo 4.19 Overall le 4.20 Length in 4.22 Fork dim 4.22 Fork dim 4.25 Overall fe 4.25 Overall fe 4.33 Working 4.34 Working 4.35 Turning r 5.1 Travel sp 5.2 Lift spee 5.3 Lowering 5.7 Gradeabi 5.8 Max. gra 5.10 Service t 6.1 Drive mo 6.2 Hoist mc	e size front	mm	250x80/125x50
3.7 Track wid 4.4 Lift 4.8 Seat heig 4.15 Height lo 4.19 Overall le 4.20 Length in 4.22 Fork dim 4.22 Fork dim 4.25 Overall fe 4.25 Overall fe 4.33 Working 4.34 Working 4.35 Turning r 5.1 Travel sp 5.2 Lift spee 5.3 Lowering 5.7 Gradeabi 5.8 Max. gra 5.10 Service t 6.1 Drive mo 6.2 Hoist mo	e size rear	mm	85x80
3.7 Track wid 4.4 Lift 4.8 Seat heig 4.15 Height lo 4.19 Overall le 4.20 Length in 4.22 Fork dim 4.22 Fork dim 4.25 Overall fe 4.25 Overall fe 4.33 Working 4.34 Working 4.35 Turning r 5.1 Travel sp 5.2 Lift spee 5.3 Lowering 5.7 Gradeabi 5.8 Max. gra 5.10 Service t 6.1 Drive mo 6.2 Hoist mo	eels, number (x = drive wheel) front/rear		1x-2/4
3.7 Track wid 4.4 Lift 4.8 Seat heig 4.15 Height lo 4.19 Overall le 4.20 Length in 4.22 Fork dim 4.22 Fork dim 4.25 Overall fe 4.32 Floor cle 4.33 Working 4.34 Working 4.35 Turning r 5.1 Travel sp 5.2 Lift spee 5.3 Lowering 5.7 Gradeabi 5.8 Max. gra 5.10 Service t 6.1 Drive mo 6.2 Hoist mo		b10 mm	584.5
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4.15 Height lo 4.19 Overall le 4.20 Length ir 4.21 Overall w 4.22 Fork dim 4.22 Fork dim 4.25 Overall w 4.25 Overall w 4.32 Floor cle 4.33 Working 4.34 Working 4.35 Turning r 5.1 Travel sp 5.2 Lift spee 5.3 Lowering 5.7 Gradeabi 5.8 Max. gra 5.10 Service k 6.1 Drive mo 6.2 Hoist mo		h3 mm	120
4.19 Overall le 4.20 Length ir 4.21 Overall w 4.22 Fork dim 4.25 Overall for 4.32 Floor cle 4.33 Working 4.34 Working 4.35 Turning r 5.1 Travel sp 5.2 Lift spee 5.3 Lowering 5.7 Gradeabi 5.8 Max. gra 5.10 Service k 6.1 Drive mo 6.2 Hoist mo	at height	h ₇ mm	-
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4.32 Floor cle 4.33 Working 4.34 Working 4.35 Turning r 5.1 Travel sp 5.2 Lift spee 5.3 Lowering 5.7 Gradeabi 5.8 Max. gra 5.10 Service k 6.1 Drive mo 6.2 Hoist mo	erall length unladen	lı mm	see table
4.32 Floor cle 4.33 Working 4.34 Working 4.35 Turning r 5.1 Travel sp 5.2 Lift spee 5.3 Lowering 5.7 Gradeabi 5.8 Max. gra 5.10 Service t 6.1 Drive mo 6.2 Hoist mo	ngth inc. fork back	l ₂ mm	938
4.32 Floor cle 4.33 Working 4.34 Working 4.35 Turning r 5.1 Travel sp 5.2 Lift spee 5.3 Lowering 5.7 Gradeabi 5.8 Max. gra 5.10 Service t 6.1 Drive mo 6.2 Hoist mo	erall width	b1 mm	886
4.32 Floor cle 4.33 Working 4.34 Working 4.35 Turning r 5.1 Travel sp 5.2 Lift spee 5.3 Lowering 5.7 Gradeabi 5.8 Max. gra 5.10 Service t 6.1 Drive mo 6.2 Hoist mo	k dimensions	s/e/l mm	52/170/1150
4.32 Floor cle 4.33 Working 4.34 Working 4.35 Turning r 5.1 Travel sp 5.2 Lift spee 5.3 Lowering 5.7 Gradeabi 5.8 Max. gra 5.10 Service t 6.1 Drive mo 6.2 Hoist mo	erall fork width	b₅ mm	560
4.34 Working 4.35 Turning r 5.1 Travel sp 5.2 Lift spee 5.3 Lowering 5.7 Gradeabi 5.8 Max. gra 5.10 Service t 6.1 Drive mo 6.2 Hoist mo	or clearance centre of wheelbase	m ₂ mm	153
4.35 Turning r 5.1 Travel sp 5.2 Lift spee 5.3 Lowering 5.7 Gradeabi 5.8 Max. gra 5.10 Service t 6.1 Drive mo 6.2 Hoist mo	rking aisle width for pallet 1000x1200 crossways 1200	Ast3	2165
4.35 Turning r 5.1 Travel sp 5.2 Lift spee 5.3 Lowering 5.7 Gradeabi 5.8 Max. gra 5.10 Service t 6.1 Drive mo 6.2 Hoist mo	rking aisle width for pallet 800x1200 lengthways 800	Ast3 mm	2365 ⁴
triangle 5.2 Lift spee 30 5.3 Lowering 5.7 Gradeabi 5.8 Max. gra 5.10 Service to 6.1 Drive mode 6.2 Hoist mode	ning radius	Wa mm	see table
triangle 5.2 Lift spee 30 5.3 Lowering 5.7 Gradeabi 5.8 Max. gra 5.10 Service to 6.1 Drive mode 6.2 Hoist mode	vel speed laden/unladen	km/h	9/12
5.10 Service b 6.1 Drive mo 6.2 Hoist mc		m/s	0.073/0.127
5.10 Service b 6.1 Drive mo 6.2 Hoist mc	vering speed laden/unladen	m/s	0.05/0.040
5.10 Service b 6.1 Drive mo 6.2 Hoist mc	ideability KB30'1 laden/unladen	%	
5.10 Service b 6.1 Drive mo 6.2 Hoist mc	x. gradeability KB5' 1 laden/unladen	S	
6.2 Hoist mo	vice brake		electric
6.2 Hoist mo	ve motor, rating S2 = 60 min	kW	3
	st motor, rating at S3 = 15%	kW	2.2
ੁ 6.3 Battery t	tery to British Standard/DIN 43531/35/36 A, B, C		DIN 43535 B
	tery voltage, rated capacity C₅	V/Ah	24/360-640
	tery weight (± 5%)	kg	312/502
6.6 Energy c	ergy consumption to VDI cycle	kWh/h	
8.1 Drive cor	ve control		electronic
8.4 Sound		dB (A)	< 70
0			

¹ Details related to the fork length I = 1150 mm ² inc. driver, with forks raised and battery type 4pzs 360 Ah ³ inc. driver, with forks lowered and battery type 4pzs 360 Ah

⁴ see table for other fork lengths

I	С	Х	у	l1	Wa	A _{st3}
1150	600	910	1592	2088	1873	2363
1400	700	1159	1842	2338	2120	2561
1600	800	1359	2042	2538	2318	2759
1800	900	1359	2042	2738	2318	2959
2390	1200	1781	2464	3328	2734	3553

The STILL Electric rider seated fork lift truck FU-X 20.

Designed for high turnaround and efficient horizontal transport of goods up to 2000 kg. An overall width of 880 mm and compact design create conditions for the safe, fast and efficient transport of goods.

Driver's compartment.

- Ergonomically laid out driver's compartment with individually adjustable Comfort seat.
- High driver comfort due to padded interior, integral storage compartments for working papers and utensils.
- The non-slip foot plate is damped by a gas spring and its height, which is smoothly adjustable through 120 mm, is adjusted by the driver at the push of a button.
- The ergonomically designed hand grip allows the driver to hold on safely when accelerating and braking.
- The controls are arranged within easy reach without changing the grip and are positively identifiable. The regulation of drive direction and travel speed is through a butterfly switch, the integral function buttons for the lift and lower movements ensure safe working with no chance of confusion.
- Display for battery discharge and work hours as standard.

Chassis.

- Very good all round visibility and an optimum view of the fork tips thanks to the new type of rounded chassis contour.
- Robust, torsion free rigid steel frame, consisting of drive and lifting load section.
- A swivel element allows ideal access to the electrical components. Easy access for servicing reduces the maintenance work.
- Safe transport of loads due to automatic level compensation for the load wheels.
- No deformation of the truck frame, constant ground contact even on uneven floors.
- Favourable weight distribution and reduced point loading due to the 4-wheel principle ideal for end storey work.
- Patented friction aids on the fork tips allow non-slip pallet handling.
- Skids under the fork tips facilitate driving over sills and also entering pallets from the side.

Steering.

- Fully electric steering for 180 ° steering lock with no kick-back.
 A steering wheel diameter of only 120 mm with 41/2 steering turns guarantees quick and effortless steering. Dual safety due to redundant monitoring.
- The steering motor is protected from shocks on uneven surfaces by a safety coupling and connected to the steered wheel by low maintenance direct gearing.
- Automatic speed reduction when travelling round bends, providing high safety due to optimal driving characteristics. This makes it possible to transport loads safely at all times.

Drive unit.

- A robust 3.0 kW 3-phase drive motor provides for quick spurts and powerful ramp travel. Best energy utilisation and high efficiency due to spur bevel gearing.

Hydraulics.

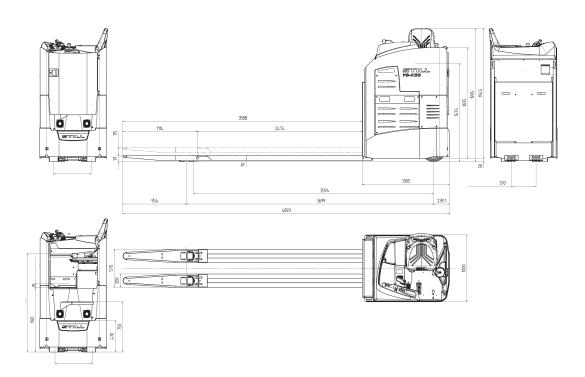
- The hydraulic unit consists of a powerful 2.2 kW high efficiency pump motor, operated by a push button on the control panel.
- Automatic cut-out on reaching maximum lift provides overload protection for the hydraulic pump – energy saving and noise reducing.

Brakes.

- Two independent braking systems.
- Generator braking when the butterfly switch is released or by changing the direction of travel guarantees soft braking. Here the drive unit acts as a generator and feeds the energy recovered back into the battery.
- Electro-magnetic brake as a parking brake or when the emergency off button is operated. It is possible to start on gradients without rolling back.
- Automatic brake monitoring by the ABS function and loaddependent braking regulation.

Battery.

- Easy battery changes due to battery free lift and side roller track.
- High safety level due to 2-way locking system.



This specification sheet to VDI Guidelines 2198 gives the technical figures for the standard truck. Different tyres, other masts, additional equipment etc. could give different figures.

	1.1	Manufacturer			STILL
	1.2	Manufacturer's model designation			FS-X 33
ic.	1.3	Drive unit (Electric, Diesel, petrol, gas, mains electric)			Electric
Characteristics	1.4	Controls (hand, pedestrian, stand-on, rider seated, order picker)			Rider seated
ract	1.5	Capacity/load	(ג kg	3300
Cha	1.6	Load centre	(c mm	1800
	1.8	Load distance lowered/raised	>	k mm	2634/2528
	1.9	Wheelbase lowered/raised)	/ mm	3700/3595
ts	2.1	Truck weight (inc. battery)		kg	3560
Weights	2.2	Axle loading laden drive end/lo	bad end	kg	3450/3410
Š	2.3	Axle loading unladen drive end/lo	bad end	kg	2790/770
~	3.1	Tyres (rubber, vulkollan, pneumatic, polyurethane) drive end/lo	bad end		Vulkollan
Wheels Chassis	3.2	Tyre size dr	rive end	mm	ø 360x130
ਤਿ	3.3	Tyre size Ic	bad end	mm	ø 90x95
	3.5	Wheels, number (x = drive wheel) drive end/lo	bad end		2 x/4
Vhet	3.6	Track width Ic	bad end b	D10 mm	370
	3.7	Track width dr	rive end k	D11 mm	562
	4.4	Lift	ł	na mm	115
	4.8	Seat height	ł	17 mm	1474
	4.15	Height lowered	ł	113 mm	91
su	4.19	Overall length unladen	1	1 mm	4893
l sic	4.20	Length inc. fork back	1	2 mm	1305
sic dimer	4.21	Overall width	k	n mm	1000
	4.22	Fork dimensions	5	s/e/l mm	70/200/3590
Ba	4.25	Overall fork width	k	D5 mm	570
	4.32	Floor clearance centre of wheelbase	r	m ₂ mm	21
	4.34	Working aisle width for pallet 800x1200 lengthways		A _{st} mm	5093
	4.35	Turning radius	۱	Na mm	3943
ata		Travel speed laden/u	unladen	km/h	20.0/20.0
Performance data	5.2	Lift speed laden/u	unladen	m/s	2.95/2.04
nan	5.3	Lowering speed laden/u	unladen	m/s	1.60/2.10
for		Gradeability laden/u	unladen	%	8.0/13.0
		Service brake			Generator
		Drive motor, rating S2 = 60 min		kW	2 x 6.5
	6.2	Hoist motor, rating at \$3 = 15%		kW	2.0
	6.3	Battery to IEC 254-2; A, B, C no			no
		Battery voltage, rated capacity C₅		V/Ah	48/1000
	6.5	Battery weight ± 5% (dependent on make)		kg	1560
5	8.1	Drive control			AC current
		Working pressure for attachments		bar	140
Ľ	8.4	Noise level, driver's ear		dB (A)	< 70

Driver's compartment.

- Roomy driver's compartment with adjustable controls and ample legroom.
- Adjustable height platform, individually adjustable to suit different physiques.
- Comfort driver's seat with individual weight and horizontal settings.
- Large area, open steps and hand grips on both sides make entry and exit easy.
- An optional arm rest to the left of the diver's seat provides an relaxed arm position for long runs.
- Individual storage thanks to large utensil compartments and versatile storage options.
- Easily visible LCD display with symbol and numeric displays of all operating states.

Steering.

- The steering wheel located on the truck door allows optimal leg clearance. Quick horizontal and vertical setting for all driver physiques, gives the best ergonomics.
- Fully electric 360 ° steering for light and precise positioning.
- The variable steering ratio makes for smooth straight-ahead running due to an automatic increase in the number of turns when travelling straight ahead and a reduction when shunting.
- Directly geared, redundantly safeguarded steering safety system.
- A constant "9 o'clock position" of the steering wheel means stable, relaxed and safe straight ahead running even at high speeds.

Drives.

- Thermal component isolation of the motors, controller and pump and motor unit for optimal temperature characteristics and the best service access.
- Maintenance-free drives for travelling and steering with energy recovery when braking. Two three-phase drives provide powerful acceleration and braking.
- Robust gearing design.

Brake system.

 Maximum safety due to 3-way braking system with ABS function. Maintenance-free, high efficiency generator braking system when the drive pedal is not actuated. Electro-magnetic brake as an emergency stop and parking brake. A brake regulator also comes into effect with increased braking, and prevents the wheels from locking.

Electrical equipment.

- LCD display with automatic brightness control. Comfortable, operator friendly display of all operating states.
- Truck controller with 5 driving profiles. Parameters for travel speeds, acceleration and braking characteristics can be set independently of travel direction, individually to driver requirements, and to suit warehouse conditions.
- Electrical hoist cut-out protects the mechanism and the pump and motor unit.
- Speed regulation dependent on the steering angle (CSC-Curve Speed Control). A high level of safety for less experienced drivers and fragile goods.

Battery.

- Truck centre of gravity improved by 30% and driver's compartment enlarged by 25% thanks to a unique battery concept. This gives the highest stability and best performance on bends.
- Battery can be picked up from the side by forks ensuring simple battery changes with great safety.
- High availability thanks to battery capacities up to 1000 Ah.

Service.

- Easy removal of the covers provides quick access for service of the major assemblies.
- Access to the controller is provided conveniently from the driver's compartment.
- No lifting components under the chassis.

Equipment overview.

	Manufacturer	STILL	STILL
	Manufacturer's model designation	FU-X 20	FS-X 33
	Rated capacity	2000 kg	3300 kg
	Comfort seat with hydraulic damping and weight and longitudinal adjustment	2000 Kg	0000 kg
	Driver's seat with heater	-	0
	Driver's seat with leatherette seat	_	0
	Arm to the left of the driver's seat	_	0
<u>+</u>	Adjustable height footplate		•
Driver's compartment	Electric thermostatically regulated foot heater		0
part	Joystick for lifting/lowering, direction selection and horn	0	
mo	Multifunction control for lifting/lowering/direction selection and horn	•	
r's o	5 Driving profiles, selected by driver		-
Drive	Integral storage facilities, drink holder	-	
		-	
	Display: Clear display of active operating states	-	
	Combi-Instrument: Work hour meter and Battery state indicator	•	0
	Reading lamp	-	•
<u> </u>	Writing surface with clip	0	
60	Fully electric steering 360 °	-	•
Steering	Fully electric steering 180°	•	-
Ste	Fully electric steering with reverse function	0	0
	Redundant steering safety system	•	•
	Smooth stepless acceleration to maximum speed	•	•
	Maintenance-free, totally enclosed drive unit	•	•
ite	Speed reduction dependent on steering angle	•	•
Drive unite	Speed reduction dependent on load	•	-
Driv	Individual parameter setting facilities	•	•
	Integral flow and temperature sensors for function monitoring	•	•
	Electrical hoist cut-out	•	•
	Good Service access, simple diagnosis through central diagnostics interface	•	•
	Generator braking system		•
Brake	Energy recovery when braking	•	•
B B	ABS Brake function		
	Electro-magnetic disc brake as parking brake and emergency stop	•	•
	Battery changing from the side with forklift truck	-	•
	Battery changing from the side with roller track	•	-
Battery	Battery compartment for 360 Ah - 560 Ah	•	-
Bat	Battery compartment for 930 Ah - 1000 Ah	-	•
	Side battery cover	•	0
	Battery changing frame	0	-
	Various fork lengths	0	0
ent	Preparation for data terminal	0	0
Additional equipment	Wind shield on 3 sides, open towards the forks	-	0
	Cold store version	0	0
	Comfort cold store cab, heated	-	0
ditic	Pin Code access, keyless with button	0	0
Ad	Fleet Manager: Access authorisation, accident recorder	0	0
	Acoustic driving warning signal (Digisound)	0	0

• Standard O 0

O Option







Наши контакты

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