



FM 4W 25

FM-4W 25 Technical Data



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

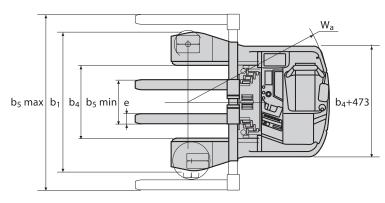
	1.1	Manufacturer				STILL
SS	1.2	Manufacturer's model designation				FM-4W 25
	1.3	Drive (electric, diesel, petrol, LPG)				Electric
risti	1.4	Operation (hand, pedestrian, stand on, rider seated)				Rider seated
Characteristics	1.5	Capacity/load		Q	kg	2500
har	1.6	Load centre		С	mm	600
10	1.8	Load distance		X	mm	533*
1	1.9	Wheel base		V	mm	1660
	2.1	Truck weight inc. Battery		У	kg	4800
ts	2.3	Axle load	Driver/Driver at load end		kg	2550/2250
Weights	2.4	Axle load forks forward	Driver/Driver at load end			950/6350
>	2.5	Axle load forks back	Driver/Driver at load end		kg	2350/4950
\vdash	3.1		Driver / Driver at load end		kg	· · · · · · · · · · · · · · · · · · ·
Sis.		Tyres (rubber, polyurethane, pneumatic)				Polyurethane
Wheels chassis	3.2	Tyre size, driver's end			mm	ø 350 x 140
-	3.3	Tyre size, load end, load wheel/swivel castor			mm	ø 285 x 110 / 260 x 85
eels	3.5	Number of wheels (x=driven) Load end/driver's end				1x /4
l≱	3.6	Track width, driver's end		b10	mm	0
	3.7	Track width, Load end		b11	mm	1470
	4.1	Mast/carriage tilt, forward/back			0	1/3 (1/1)
	4.2	Height, mast lowered		h ₁	mm	See table
	4.3	Free lift		h ₂	mm	See table
	4.4	Lift		h ₃	mm	See table
	4.5	Height, mast raised		h ₄	mm	See table
	4.7	Height over overhead guard (cab)		h ₆	mm	2155
	4.8	Seat height/platform height		h ₇	mm	1050/1120
	4.10	Height of straddle arms or load wheels		h₃	mm	420
ons	4.19	Overall length		l ₁	mm	2548*
ensi	4.20	Length including fork backs		12	mm	1398*
gi.	4.21	Overall width		b ₁ /b ₂	mm	1765/1260
Basic dimensions	4.22	Fork dimensions		s/e/l	mm	45/125/1150
B	4.24	Fork carriage width		bз	mm	1500
	4.25	Fork adjustment	min/max		mm	556/1546 (556/2216)
	4.26	Width between straddle arms/load surfaces		b ₄	mm	924
	4.28	Reach		14	mm	813*
	4.32	Floor clearance, centre of wheel-base		m ₂	mm	47
	4.33	Working aisle width with 1000 x 1200 pallet crossways		Ast	mm	2895*
	4.34	Working aisle width with 800 x 1200 pallet lengthways		Ast	mm	2913*
1	4.35	Turning radius		Wa	mm	1935
	4.37	Length over straddle arms		l ₇	mm	2137
	5.1	Travel speed	laden/unladen		km/h	13.2/14.0
9	5.2	Hoist speed	laden/unladen		m/s	0.44/0.51
Performance	5.3	Lowering speed	laden/unladen		m/s	0.55/0.55
후	5.4	Reach speed	laden/unladen		m/s	0.2/0.2
a	5.7	Gradeability	laden/unladen		%	14/18
	5.10	Service brake				generator/hydmech.
	6.1	Drive motor, rating S2 = 60 min			kW	7.5
L_	6.2	Hoist motor, rating at S3 = 15%			kW	14
Motor	6.3	Battery to IEC 254-2; A, B, C, No				IEC 254-2, C
~	6.4	Battery voltage, rated capacity C5			V/Ah	48/560
L	6.5	Battery weight ± 5% (depends on make)			kg	939-1306
	8.1	Drive controller				Pulse/stepless
Misc	8.2	Working pressure for attachments			bar	210
_	8.4	Sound level at driver's ear			dB (A)	70

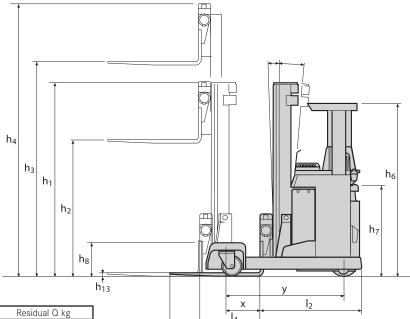
^{*} depends on battery size

Residual capacities/Load centre.

Hyd. Fork adjustment					
2500					
2400					
2300	0	0	0		
2200					
2100					
2000					
	400	500	600		

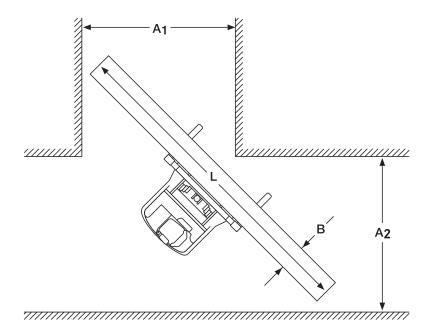
Manual F	ork adjus	tment	
2500	0	0	
2400			0
2300			
2200			
2100			
2000			





Mast table.

				Residual Q kg	Residual Q kg
h ₁	h ₂	hз	h ₄	Mech. Fork adjustment.	Hyd. Fork adjustment.
2340	1623	4500	5210	2400	2300
2440	1723	4800	5510	2350	2300
2640	1923	5400	6110	2200	2200
2957	2240	6350	7060	1900	1900
3190	2473	7050	7760	1700	1700
3357	2640	7550	8260	1600	1600
3523	2806	8050	8760	1500	1500
3673	2956	8500	9210	1450	1450
3840	3123	9000	9710	1350	1350



Aisle A ₁ m		Main aisle A2 m	ı		
AISIE AI III	Load length L				
	4 m	6 m	8 m		
3000	2950	3690	5250		
3200	2950	3490	4990		
3400	2950	2950	4750		
3600	2950	2950	4510		
3800	2950	2950	4300		
4000	2950	2950	4090		
4200	2950	2950	3890		
4400	2950	2950	3700		
4600	2950	2950	3530		
4800	2950	2950	3360		
5000	2950	2950	2950		
5200	2950	2950	2950		
5400	2950	2950	2950		

B = 1150 mm Safety distance = 400 mm

Standard equipment.

The FM-4W 25 four-way truck is a universal unit, which is especially suitable for transporting long products and putting them into stock, as well as normal pallets and containers. Thanks to its four-way design it allows the economical utilisation of storage space with minimal working aisle widths.

Driver's compartment.

- Adjustable steering wheel position with fore and aft seat adjustment allows a comfortable working position.
- Comfort seat features hydraulic damping adjustable to the driver's body weight as well as a tilt function (up to 15°).
 Seat contour shaped to give plenty of untiring support. For added safety the truck can only be driven if the foot switch is depressed.
- The clear view mast with good all round visibility and optimised view through the overhead guard give the driver a very clear optimum overview.
- Control is through four ergonomic levers.
- Comfortable, upholstered arm rest provides supports whilst operating the truck.
- A display panel for the active operating states and service information shows: ready state, driving direction, position of the steered load wheel, parking brake status, steering status, inching, operating hours, battery state of charge.
- The FM-4W 25 has four drive categories for the driver to choose from in order to control the truck's acceleration, deceleration, plugging and travel speed.
- Adjustable height operating panel for improved ergonomics.
- Various storage facilities for documents, etc.

Electric steering.

- The steering wheel has fully electric actuation, i.e.no high-maintenance mechanical link with the steer motor.
- Reduced energy consumption due to the steering electronics only being activated when the steering wheel is moved.
- Minimal movement forces give precise, light and easy steering.
- High turnround of goods and driving comfort due to 360 $^{\circ}$ unlimited steering.
- Steering wheel adjustable for height, rake and length for improved ergonomics.
- Change of drive direction through 90 °. For diagonal travel the load wheel can be positioned smoothly.

Mast.

- Triplex clear view mast with mast tilt and free lift as standard for utilisation of space right up to the roof.
- The nested I-beam section mast with integral hoist cylinders and hoist chains running behind them gives a very clear view.
- Manual or optional hydraulic fork adjustment up to 2250 mm.

Hydraulics.

The proportional control valve fitted as standard allows particularly sensitive movements.

- Operating speeds for lifting, lowering and reach.
- Stepless control of movements improves safety of operation.
- Powerful three-phase drives.

Drive unit.

The truck will start smoothly and accelerate smoothly to maximum speed.

- The three-phase motor does not rotate when steering, preventing stressed cable connections.
- Monitoring equipment avoids defects and makes it possible to plan for down time.
- Integral current and temperature sensors.
- Malfunction monitoring.
- Highly efficient energy use thanks to the spur bevel gear transmission.

Brake.

The brake system consists of an electromagnetic and a hydraulic brake. The electromagnetic disc brake acts on the motor shaft and serves as a parking brake, while the hydraulic brake acts on the load wheel.

Central control.

- The design of the circuitry and controller (in conjunction with CAN bus technology) provides a very high standard of safety.
- All speeds can be programmed: Main hoist lift/lower, travel speed forwards/reverse, acceleration and deceleration, inching speed, mast reach, mast tilt and mast side-shift, plus the ramp functions when reaching forwards and backwards.
- Connection of diagnostic system through an easily accessible central diagnostic plug.

Battery.

- Battery extracted using mast reach.
- For multi-shift use, the battery can be changed using a hoist or an optional battery roller track.

Safety.

The truck is built in compliance with the EC guideline 98/37/ EC and carries the CE Symbol. STILL is certified to ISO 9001.

	Manufacturer	STILL
	Manufacturer's model designation	FM-4W 25
	Driver's seat with longitudinal adjustment	•
ent	Comfortable seat with hydraulic damping	•
Driver's compartment	Tilting seat, inclination 15°	•
idu	Tilting head rest	0
S CC	Driver's seat with heater	0
river	Head cushion on overhead guard leg	•
	Display: active operating states and service instructions	
-	Four driving profiles selectable by driver Full electric steering 360 °	
1	Control unit adjustable for height, inclination and length	
.⊑	Mini-steering wheel with adjustable height arm rests	0
Steering	Direct spline mounted steer motor (maintenance free)	•
"	Drive wheel, steered	•
	Load wheel reversible and smoothly positioned	•
	Triplex clearview mast with free lift	•
Mast	Mast transition damping	•
Į≥		
	Manual fork adjustment with mast tilt, adjustment range 560 - 1550 mm	
Fork carriage	Manual fork adjustment, Adjustment range 560 - 2220 mm Hydraulic fork adjustment, Adjustment range 560 - 1550 mm	0
cari	Hydraulic fork adjustment, Adjustment range 560 - 2220 mm	0
F N	Creep sped with fork carriage raised	0
1	Fork extensions	0
	Operation through four single levers	•
ဖွ	Operation through joystick	0
Hydraulics	Noise optimised hydraulic pump	
l p	Auxiliary hydraulics	0
-	Proportional valve technology for particularly sensitive movements	•
	Separate parameter setting option for the hydraulic functions	•
Drive	Three phase drives	
ے	Best energy utilisation thanks to spur bevel gear transmission Treaded drive wheel	0
\vdash	Hydraulic load wheel brake	•
l e	Electromagnetic disc brake as a service and parking brake	
Brake	<u> </u>	_
İ		
	CAN bus Technology	•
	Programming facilities for the drive, acceleration and retardation figures	•
Central controller	Central Service and Diagnostics interface	•
ıtra		
Cen		
-	Dettory systematod using most reach	•
Battery	Battery extracted using mast reach Battery changing using hoist	•
Bat	Battery changing using roller track	0
	Weather protection cab	0
İ	Cold store version	0
	Writing surface	0
men	Preparation for data terminal	0
Additional equipment	Load indicator with height indicator	0
lal e	Working spotlight	0
ition	Warning lamps	0
Add	Intermediate hoist limiters	0
	Height indicator	0
	Card reader for access authorisation Radio with CD/MP3-Player	0
	Naulo With OD/ WED-Flayer	

• Standard • O Option





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