

FM-4W Technical Data 4-Way Reach Truck

FM-4W 20

FM-4W 25



first in intralogistics

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
1.1					FM-4W 20	FM-4W 25
1.2	Manufacturer's type designation					
1.2 1.3 1.4 1.5 1.6 1.8	Drive Operator type				Electric Seated	Electric Seated
1.4	Operator type Rated capacity/rated load		Q	ka	2000	2500
1.6				kg mm	600	600
1.8	Load capacity at load centre distance Load distance		C X		449 ²	527 ³
1.8	Wheel base			mm	1505	1665
2.1	Service weight incl. battery		у	mm	4360 ²	4960 ³
2.1		drive and (load and		kg		
2.3 2.4	Axle loading, forks in the back, unladen	drive end/load end		kg	2550/1810 800/5560	2880/2080 660/6800
2.4	Axle loading, forks in the front, laden	drive end/load end drive end/load end		kg	,	,
2.5	Axle loading, forks in the back, laden	drive end/load end		kg	2360/4000	2830/4630
3.1	Tyres	detter and			Polyurethane	Polyurethane
3.2 3.3 3.3 3.5	Tyre size	drive end	_	mm	Ø 355 x 155	Ø 355 x 155
3.3	Tyre size	load end, left		mm	Ø 320 x 100	Ø 320 x 100
3.3	Tyre size	load end, right	_	mm	Ø 260 x 85	Ø 260 x 85
	Number of wheels (x = driven)	drive end/load end	h.		1x/4	1x/4
3.7	Tread	load end	b ₁₁	٥	1444	1444
4.1	Tilt of mast/fork carriage ¹	forward/backward	α/β		1.0/1.0	1.0/1.0
4.2	Height	mast lowered	h1	mm	3533	4083
4.3	Free lift		h ₂	mm	2803	3353
4.4	Lift		h ₃	mm	8450	9650
4.5	Height	mast extended	h ₄	mm	9200	10400
4.7	Height of overhead guard (cabin)		h₀	mm	2215	2215
4.8	Seat height		h ₇	mm	1087	1087
4.10	Height of wheel arms		hଃ	mm	430	430
4.19	Overall length		I ₁	mm	2473 ²	2555 ³
4.20	Length to face of forks		I ₂	mm	1323 ²	1405 ³
4.21	Overall width		b_1/b_2	mm	1744/1498	1744/1498
4.20 4.21 4.22 4.24	Fork dimensions		s/e/l	mm	45/125/1150	45/125/1150
4.24	Fork carriage width		b3	mm	1500	1500
4.25	Distance between fork arms	min./max.	b ₅	mm	556/1555	556/1555
4.26	Distance between wheel arms		b4	mm	903	903
4.28	Reach distance		4	mm	704 ²	782 ³
4.31	Ground clearance, laden, below mast		m1	mm	81	81
4.32	Ground clearance, centre of wheel base		m ₂	mm	80	80
4.34.1	Aisle width for pallets 1000 x 1200 crossways		A _{st}	mm	2787 ²	2896 ³
4.34.2	Aisle width for pallets 800 x 1200 lengthways		A _{st}	mm	2823 ²	2915 ³
4.35	Turning radius		Wa	mm	1772	1932
4.37	Length across wheel arms		I ₇	mm	1942	2102
5.1	Travel speed	laden/unladen		km/h	13.0/13.0	13.0/13.0
5.1.1.	Travel speed, backwards	laden/unladen		km/h	8.0/11.3	8.0/11.3
5.2	Lift speed	laden/unladen		m/s	0.33/0.55	0.32/0.53
5.3	Lowering speed	laden/unladen		m/s	0.54/0.47	0.53/0.53
5.2 5.3 5.4	Reaching speed	laden/unladen		m/s	0.20/0.20	0.20/0.20
5.8	Gradeability	laden/unladen		%	10/15	9/14
5.9	Acceleration time over 10 m	laden/unladen		S	5.7/5.0	6.2/5.2
5.10	Service brake				Electric	Electric
6.1	Drive motor rating S2 = 60 min			kW	7.2	7.2
6.2	Lift motor rating $\overline{S3} = 15\%$			kW	15	15
6.2 6.3 6.4 6.5	Battery according to DIN 43531/35/36 A, B, C, no				43531 C	43531 C
6.4	Battery voltage/nominal capacity K₅			V/Ah	48/465	48/620
6.5	Battery weight (depending on manufacturer ±5%)			kg	712 ²	892 ³
6.6	Energy consumption according to VDI cycle			kWh/h	8.50	8.50
8.1	Drive control				Electronic	Electronic
	Operating pressure for attachments			bar	150	150
8.2	Oil volume for attachments			I/min	25	25
8.4	Sound pressure level at driver's ear			db (A)	59.7	59.7

FM-4W 20: I_1 and I_2 increase by 32 mm when the battery tray changes from size C to E; these lengths increase by 72 mm with every further increase in battery size FM-4W 25: I_1 and I_2 increase by 47 mm when the battery tray changes from size E to F; these lengths increase by 72 mm with every further increase in battery size

 _1 Depends on mast (h_3 \leq 6300 mm: mast tilt up to 1.5°/3.5°; h_3 > 6700 mm: mast tilt up to 1°/1°)

 $^{\scriptscriptstyle 2}$ With battery tray C (up to 465 Ah)

³ With battery tray E (up to 620 Ah)





Side view

Top view

Basic Load Capacities



C Battery tray C for 465 Ah battery // E Battery tray E for 620 Ah battery // F Battery tray F for 775 Ah battery // G Battery tray G for 930 Ah battery

Mast Tables

				Triplex N	/last										
0	Height, mast lowered	h1	mm	2,150	2,350	2,450	3,650	2,800	2,967	3,200	3,367	3,533			
FM-4W 20	Free lift	h ₂	mm	1,420	1,620	1,720	1,920	2,070	2,237	2,470	2,637	2,803			
M-4	Lift	h3	mm	4,300	4,900	5,200	5,800	6,250	6,750	7,450	7,950	8,450			
Ē	Height, mast extended	h4	mm	5,050	5,650	5,950	6,550	7,000	7,500	8,200	8,700	9,200			
	Tilt of mast forward/backward	α/β	0	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.0/1.0	1.0/1.0	1.0/1.0	1.0/1.0			
				Triplex N	/last										
5	Height, mast lowered	h1	mm	2,350	2,450	2,650	2,800	2,967	3,200	3,367	3,533	3,683	3,850	3,967	4,083
W 2	Free lift	h ₂	mm	1,620	1,720	1,920	2,070	2,237	2,470	2,637	2,803	2,953	3,120	3,237	3,353
FM-4W 25	Lift	h ₃	mm	4,450	4,750	5,350	5,800	6,300	7,000	7,500	8,000	8,450	8,950	9,300	9,650
Ē	Height, mast extended	h4	mm	5,200	5,500	6,100	6,550	7,050	7,750	8,250	8,750	9,200	9,700	10,050	10,400
	Tilt of mast forward/backward	α/β	0	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.0/1.0	1.0/1.0	1.0/1.0	1.0/1.0	1.0/1.0	1.0/1.0	1.0/1.0



Aisle Widths

FM-4W 20

Load width B = 800 mm Safety clearance: 400 mm						
Aisle A1 mm*	Main aisle A2 mm*					
	Load length L					
	4 m	6 m	8 m			
2,800	2,650	3,390	4,940			
3,000	2,650	3,180	4,680			
3,200	2,650	2,650	4,440			
3,400	2,650	2,650	4,210			
3,600	2,650	2,650	4,000			
3,800	2,650	2,650	3,790			
4,000	2,650	2,650	3,600			
4,200	2,650	2,650	3,410			
4,400	2,650	2,650	3,240			
4,600	2,650	2,650	3,070			
4,800	2,650	2,650	2,650			
5,000	2,650	2,650	2,650			
5,200	2,650	2,650	2,650			
5,400	2,650	2,650	2,650			

* Depends on battery size

Load width B = 1200 mm Safety clearance: 400 mm								
Aisle A1 mm*	Main aisle A2 m	Main aisle A ₂ mm*						
	Load length L	Load length L						
	4 m	6 m	8 m					
3,200	3,050	3,550	5,070					
3,400	3,050	3,050	4,820					
3,600	3,050	3,050	4,590					
3,800	3,050	3,050	4,370					
4,000	3,050	3,050	4,160					
4,200	3,050	3,050	3,960					
4,400	3,050	3,050	3,770					
4,600	3,050	3,050	3,590					
4,800	3,050	3,050	3,050					
5,000	3,050	3,050	3,050					
5,200	3,050	3,050	3,050					
5,400	3,050	3,050	3,050					

* Depends on battery size

FM-4W 25

Load width B = 800 mm Safety clearance: 400 mm								
Aisle A1 mm*	Main aisle A ₂ mm*							
	Load length L							
	4 m	6 m	8 m					
2,800	2,670	3,390	4,940					
3,000	2,670	3,180	4,680					
3,200	2,670	2,670	4,440					
3,400	2,670	2,670	4,210					
3,600	2,670	2,670	4,000					
3,800	2,670	2,670	3,790					
4,000	2,670	2,670	3,600					
4,200	2,670	2,670	3,410					
4,400	2,670	2,670	3,240					
4,600	2,670	2,670	2,670					
4,800	2,670	2,670	2,670					
5,000	2,670	2,670	2,670					
5,200	2,670	2,670	2,670					
5,400	2,670	2,670	2,670					

* Depends on battery size

Load width B = 1200 mm Safety clearance: 400 mm						
Aisle A1 mm*	Main aisle A ₂ r	nm*				
	Load length L					
	4 m	6 m	8 m			
3,200	3,070	3,550	5,070			
3,400	3,070	3,070	4,820			
3,600	3,070	3,070	4,590			
3,800	3,070	3,070	4,370			
4,000	3,070	3,070	4,160			
4,200	3,070	3,070	3,960			
4,400	3,070	3,070	3,770			
4,600	3,070	3,070	3,590			
4,800	3,070	3,070	3,070			
5,000	3,070	3,070	3,070			
5,200	3,070	3,070	3,070			
5,400	3,070	3,070	3,070			

* Depends on battery size



Adjustable driver's cab with numerous storage compartments



Comfortable tilt seat optimises upward visibility



Ergonomic joystick for precise operation



Load wheel can be smoothly put in position for precise sideways travel



Optimised view through overhead guard



Hydraulic fork-spreading system ensures safe load handling



Aisle widths

FM-4W 4-Way Reach Truck Fully functional in all directions

Optimised view in all situations

Holistic ergonomics concept

Extensive standard equipment

The FM-4W is a powerful and energy-efficient four-way reach truck. It transports loads forwards, backwards and sideways. This makes this universal truck particularly well suited for transporting long items (in addition to normal pallets and containers). The smart four-way design also allows for a highly cost-effective use of warehouse space because the reach truck can itself be safely and quickly manoeuvred down even the narrowest of aisles. And it always puts in a good shift too: the FM-4W can lift loads with a total weight of 2,500 kg and its high residual load capacity means that it can carry loads weighing as much as 1,000 kg to a height of 9.5 m. The integrated weight and height display and the comfortable tilt seat greatly facilitate load handling, while the mast and overhead guard are designed to optimise the driver's view of the transported load. Other benefits that make work easier are the lift height pre-selection system and the lift height assistance system. The optional systems noticeably facilitate the quick and precise depositing and retrieval of goods. The seat, arm rests, steering wheel and foot plate can be adjusted to enhance ease of use. A wide range of settings allow the cabin to be adjusted to suit any driver, ensuring optimised ergonomics.

Extensive Equipment

Power

- Stable mast with high residual load capacity for lift heights of up to 9.5 metres (1,000 kg)
- Powerful acceleration combined with high driving speed (up to 13 km/h)
- Sufficient energy for all applications thanks to battery capacities of 465–930 Ah

Precision

- The mast and overhead guard are designed to optimise visibility of the goods
- The wheels can be instantly turned 90° for precise sideways travel
- The hydraulics are closely controlled by proportional valve technology
- Integrated weight and height display for precise load handling
- Excellent handling performance: easier loading and unloading thanks to height assistance system

Ergonomics

- Can be ergonomically adjusted to suit any driver: adjustable seat, arm rests, steering wheel and foot plate
- All functions can be easily operated using the joystick or fingertip control system, without having to keep changing hands

- Comfortable and practical: the seat can be adjusted to suit the driver's weight and has a narrow backrest to ensure good visibility out the back
- The comfortable tilt seat with its pneumatic lumbar support makes it easy to look up and past the goods (maximum tilt: 18°)

Compactness

- Suitable for use in even the narrowest of aisles thanks to the reach truck concept
- Four-way design allows for long items to be transported down the narrowest of aisles

Safety

- The large step and handle make it safe and easy to get in
- Load and truck protection: the assistance system stops forks from coming into contact with the forklift truck's wheel arms
- Work safety: precise movement control
- A high level of driver safety is ensured by load-dependent speed limits and Curve Speed Control

Environmental Responsibility

- Energy is recovered during the braking process to prolong the use of the truck and optimise its use of resources
- Energy savings: the steering electronics are activated only when the steering wheel is moved





Interface sear with herghesis adjustment Image: If a sear with herghesis adjustment is absorber in the search is absorber in the searc			FM-4W 20	FM-4W 25
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Bester Search Market Search			•	•
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Reduced speed when tork carriage is raised O O Operated by joystick • • Noise-splitted by investick • • Noise-splitted by investick • • Properties of your individual pump • • Properties of your individual pump • • Properties of your individual invest technology for high-precision movements • • Properties of your individual invest technology for high-precision movements • • Drive wheel made of Vikitolan* • • • Drive wheel made of Vikitolan* • • • Drive wheel made of Vikitolan* • • • Electromagnetic disc brake weal as operating brake and parking brake • • • Electromagnetic disc brake weal as operating brakes • • • • Regenerative brake system/energy recovery during brakes • • • • Mast automatcally moves into ungight postion at the touch of a button • • • Mast automatcally moves into ungight postion at the touch	age			
Reduced speed when tork carriage is raised O O Operated by joystick • • Noise-splitted by investick • • Noise-splitted by investick • • Properties of your individual pump • • Properties of your individual pump • • Properties of your individual invest technology for high-precision movements • • Properties of your individual invest technology for high-precision movements • • Drive wheel made of Vikitolan* • • • Drive wheel made of Vikitolan* • • • Drive wheel made of Vikitolan* • • • Electromagnetic disc brake weal as operating brake and parking brake • • • Electromagnetic disc brake weal as operating brakes • • • • Regenerative brake system/energy recovery during brakes • • • • Mast automatcally moves into ungight postion at the touch of a button • • • Mast automatcally moves into ungight postion at the touch	carri			
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Base Other Other Part Noise-optimised hydraulic pump O O Proportional value technology for high-precision movements O O Data wheel made of Vulkollan* O O Proportional value technology for high-precision movements O O Drive wheel made of Vulkollan* O O Partial whee add relise trake O O Responsitive braking system/energy recovery during braking process O O Key switch O O O Access authorisation based on PIN code or card O O O Mast automatically moves in our gript position at the touch of a button O O O Traction control O O O O O Veright measurement ±0 kg O O O O				0
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Price wheel made of Vukulan* • • Drive wheel made of Tractothan* • • Electromagnetic disc brake used as operating brake and parking process • • Electromagnetic disc brake used as operating brake and parking process • • Regenerative braking system/energy recovery during braking process • • Key switch • • • Access authorisation based on PIN code or card • • Mesh grid on overhead guard • • • Mast automatically moves into upright position at the touch of a button • • • Fork protection zone • • • • • Varining light • <td></td> <td></td> <td>٠</td> <td>•</td>			٠	•
Drive wheel made of Tractothan** O O Bectromagnetic disc brake used as operating brake and parking brake • • Bectromagnetic disc brake used as operating brake and parking brake • • Regenerative braking system/energy recovery during braking process • • Key switch • • • Access authorisation based on PIN code or card O O O Mesh grid on overhead guard O O O Mast automatically moves into upright position at the touch of a button O O Traction control O O O Weight measurement ±50 kg • • • Warning light O O O Uff ts bip function O O O Lift ts bip function O O <th< td=""><td>cb</td><td>Rotary current drive</td><td>•</td><td>•</td></th<>	cb	Rotary current drive	•	•
Drive wheel made of Tractothan** O O Bectromagnetic disc brake used as operating brake and parking brake • • Bectromagnetic disc brake used as operating brake and parking brake • • Regenerative braking system/energy recovery during braking process • • Key switch • • • Access authorisation based on PIN code or card O O O Mesh grid on overhead guard O O O Mast automatically moves into upright position at the touch of a button O O Traction control O O O Weight measurement ±50 kg • • • Warning light O O O Uff ts bip function O O O Lift ts bip function O O <th< td=""><td>Driv</td><td></td><td>•</td><td>•</td></th<>	Driv		•	•
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Key switch • • • Access authorisation based on PIN code or card • • • Mesh grid on overhead guard • • • Mesh grid on overhead guard • • • Mast automatically moves into upright position at the touch of a button • • • Crash sensor • • • • Traction control • • • • Weight measurement ±50 kg • • • • Warning light • • • • • • Front headlights •	ake		•	•
Key switch • • • Access authorisation based on PIN code or eard • • • Mesh grid on overhead guard • • • Mesh grid on overhead guard • • • Mast automatically moves into upright position at the touch of a button • • • Fork protection zone • • • • Crash sensor • • • • Traction control • • • • Warning light • • • • • Varing light •<	Bra		•	•
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• Standard O Optional — Not available