

FM-4W Technical Data

4-Way Reach Truck

FM-4W 20

FM-4W 25



first in intralogistics

FM-4W 4-Way Reach Truck

Fully functional in all directions

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.



				STILL	STILL	
Distinguishing marks	1.1	Manufacturer				
	1.2	Manufacturer's type designation		FM-4W 20	FM-4W 25	
	1.3	Drive		Electric	Electric	
	1.4	Operator type		Seated	Seated	
	1.5	Rated capacity/rated load		Q	kg	
	1.6	Load capacity at load centre distance		c	mm	
	1.8	Load distance		x	mm	
	1.9	Wheel base		y	mm	
	Weights	2.1	Service weight incl. battery			kg
2.3		Axle loading, forks in the back, unladen		drive end/load end	kg	
2.4		Axle loading, forks in the front, laden		drive end/load end	kg	
2.5		Axle loading, forks in the back, laden		drive end/load end	kg	
Tyres/chassis		3.1	Tyres			Polyurethane
	3.2	Tyre size		drive end	mm	
	3.3	Tyre size		load end, left	mm	
	3.3	Tyre size		load end, right	mm	
	3.5	Number of wheels (x = driven)		drive end/load end		
	3.7	Tread		load end	mm	
	Dimensions	4.1	Tilt of mast/fork carriage ¹		forward/backward	α/β °
4.2		Height		mast lowered	h ₁ mm	
4.3		Free lift			h ₂ mm	
4.4		Lift			h ₃ mm	
4.5		Height		mast extended	h ₄ mm	
4.7		Height of overhead guard (cabin)			h ₆ mm	
4.8		Seat height			h ₇ mm	
4.10		Height of wheel arms			h ₈ mm	
4.19		Overall length			l ₁ mm	
4.20		Length to face of forks			l ₂ mm	
4.21		Overall width			b ₁ /b ₂ mm	
4.22		Fork dimensions			s/e/l mm	
4.24		Fork carriage width			b ₃ mm	
4.25		Distance between fork arms		min./max.	b ₅ mm	
4.26		Distance between wheel arms			b ₄ mm	
4.28		Reach distance			l ₄ mm	
4.31		Ground clearance, laden, below mast			m ₁ mm	
4.32		Ground clearance, centre of wheel base			m ₂ mm	
Performance data		4.34.1	Aisle width for pallets 1000 x 1200 crossways		A _{st}	mm
		4.34.2	Aisle width for pallets 800 x 1200 lengthways		A _{st}	mm
	4.35	Turning radius		W _s	mm	
	4.37	Length across wheel arms		l ₇	mm	
	5.1	Travel speed		laden/unladen	km/h	
	5.1.1	Travel speed, backwards		laden/unladen	km/h	
	5.2	Lift speed		laden/unladen	m/s	
	5.3	Lowering speed		laden/unladen	m/s	
	5.4	Reaching speed		laden/unladen	m/s	
Electric engine	5.8	Gradeability		laden/unladen	%	
	5.9	Acceleration time over 10 m		laden/unladen	s	
	5.10	Service brake			Electric	
	6.1	Drive motor rating S2 = 60 min			kW	
	6.2	Lift motor rating S3 = 15%			kW	
	6.3	Battery according to DIN 43531/35/36 A, B, C, no				
	6.4	Battery voltage/nominal capacity K _s			V/Ah	
Misc.	6.5	Battery weight (depending on manufacturer ±5%)			kg	
	6.6	Energy consumption according to VDI cycle			kWh/h	
	8.1	Drive control			Electronic	
	8.2	Operating pressure for attachments			bar	
	8.3	Oil volume for attachments			l/min	
	8.4	Sound pressure level at driver's ear			db (A)	

FM-4W 20: l₁ and l₂ 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: l₁ and l₂ 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 (h₃ ≤ 6300 mm: mast tilt up to 1.5°/3.5°; h₃ > 6700 mm: mast tilt up to 1°/1°)

² With battery tray C (up to 465 Ah)

³ With battery tray E (up to 620 Ah)



Aisle Widths

FM-4W 20

Load width B = 800 mm
Safety clearance: 400 mm

Aisle A ₁ mm*	Main aisle A ₂ 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

FM-4W 25

Load width B = 800 mm
Safety clearance: 400 mm

Aisle A ₁ 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 A ₁ mm*	Main aisle A ₂ mm*		
	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

Load width B = 1200 mm
Safety clearance: 400 mm

Aisle A ₁ mm*	Main aisle A ₂ mm*		
	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



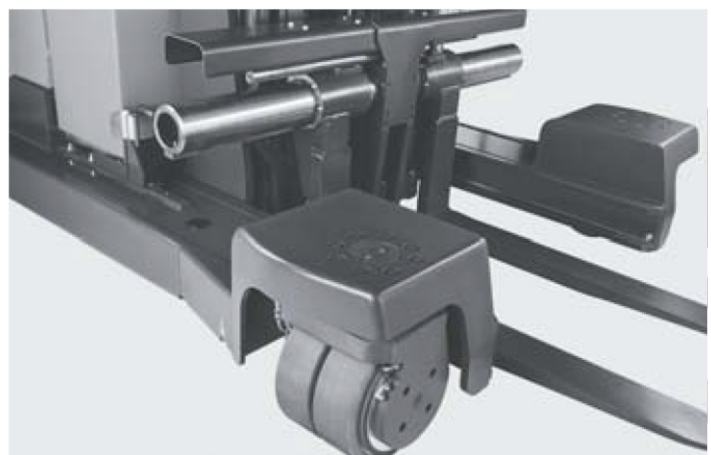
Adjustable driver's cab with numerous storage compartments



Ergonomic joystick for precise operation



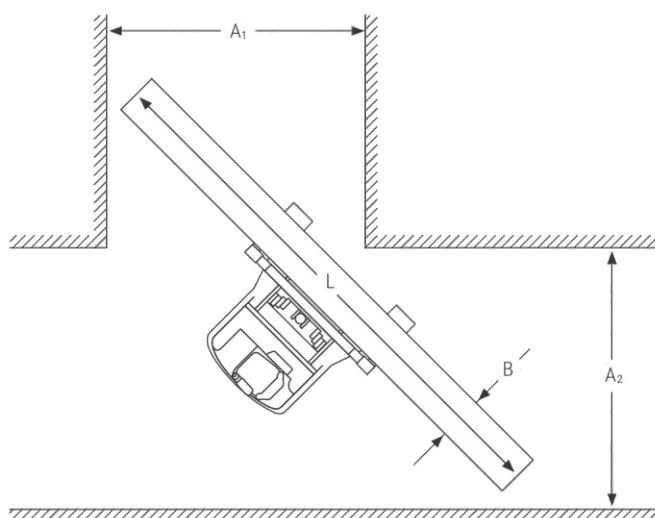
Comfortable tilt seat optimises upward visibility



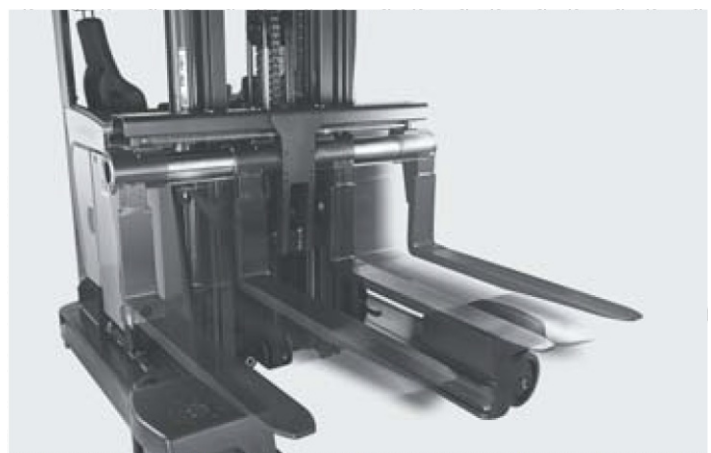
Load wheel can be smoothly put in position for precise sideways travel



Optimised view through overhead guard



Aisle widths



Hydraulic fork-spreading system ensures safe load handling

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



FM-4W 4-Way Reach Truck

Equipment Variants

		FM-4W 20	FM-4W 25
Driver's cab	Driver's seat with lengthwise adjustment	●	●
	Comfortable seat with hydraulic shock absorber	●	●
	Tilt seat, tilt angle: 18°	●	●
	Height-adjustable head rest	○	○
	Driver's seat with heating system	○	○
	Driver's seat with leatherette cover	○	○
	Electrically adjustable floor level	●	●
	Display showing active operating statuses and service information	●	●
	Custom programming of driver profiles	●	●
	Rear mirror for sideways travel	○	○
	Panoramic mirror	●	●
Steering	Free view mast with panoramic overhead guard	●	●
	Fully electric 360° steering	●	●
	Length-adjustable control unit	●	●
	Midi steering wheel, height- and tilt-adjustable	●	●
Mast	Mini steering wheel with armrest with height and length adjustment	○	○
	Triplex free view mast with free lift	●	●
	Mast reach damping system	●	●
	Cushioned lift stop	●	●
Fork carriage	Mast tilt: 1.5° forwards / 3.5° backwards (depending on mast)	○	○
	Manual prong adjustment, adjustment range 560–1,550 mm	○	○
	Manual prong adjustment, adjustment range 560–2,220 mm	○	○
	Hydraulic prong adjustment, adjustment range 560–1,550 mm	●	●
	Hydraulic prong adjustment, adjustment range 560–2,220 mm	○	○
Hydraulics	Reduced speed when fork carriage is raised	○	○
	Operated by four individual levers	○	○
	Operated by joystick	●	●
	Noise-optimised hydraulic pump	●	●
	Extra hydraulics	○	○
Drive	Proportional valve technology for high-precision movements	●	●
	Custom parametrisation of hydraulic functions	●	●
	Rotary current drive	●	●
Brake	Drive wheel made of Vulkollan®	●	●
	Drive wheel made of Tractothan®	○	○
	Electromagnetic disc brake used as operating brake and parking brake	●	●
Safety and performance	Electric load roller brake	●	●
	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	○	○
	Crash sensor	○	○
	Traction control	○	○
	Weight measurement ±50 kg	●	●
	Warning light	○	○
Battery system	Front headlights	○	○
	Lift stop function	○	○
	Lift height display	●	●
	Lift height pre-selection system	○	○
	Height assistance system	○	○
	Service intervals shown in display	○	○
	Roller track for lateral battery change	○	○
	Electric battery replacement system (only available with battery tray F, 775 Ah)	—	○
Additional equipment	Acoustic battery discharge warning	○	○
	Battery tray C for 465 Ah battery	○	—
	Battery tray E for 620 Ah battery	●	○
	Battery tray F for 775 Ah battery	○	●
	Battery tray G for 930 Ah battery	○	○
	Time-controlled deactivation of electrical system after leaving the forklift truck	○	○
	Cabin with heating (only available with battery tray F, 775 Ah, and G, 930 Ah)	○	○
	Intercom system	○	○
	Window opening in cabin door	○	○
	Moisture proofing	○	○
Additional equipment	Writing desk	○	○
	Accessory holder	○	○
	12 V socket	○	○
	Rear-view camera	○	○
	CD/MP3 radio	○	○

● Standard ○ Optional — Not available



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