



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.



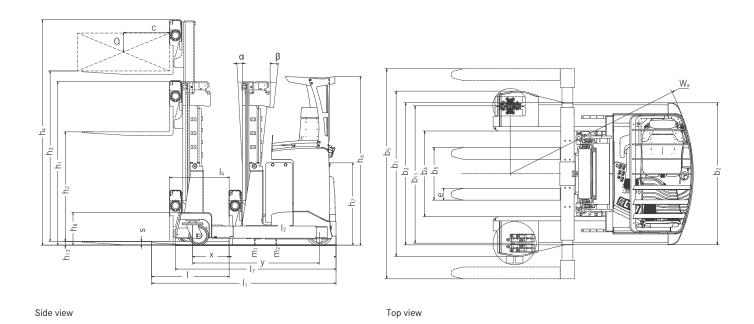
S	1.1	Manufacturer Manufacturer's time designation				STILL FM-4W 20	STILL FM-4W 25
ark	1.2	Manufacturer's type designation					
₽0	1.3	Drive				Electric	Electric
shin	1.4	Operator type		0	l	Seated	Seated
Distinguishing marks	1.5	Rated capacity/rated load		Q	kg	2000	2500
istii	1.6	Load capacity at load centre distance		С	mm	600	600
	1.8	Load distance		X	mm	449 ²	527 ³
	1.9	Wheel base		У	mm	1505	1665
ts	2.1	Service weight incl. battery	division and Association d		kg	4360 ²	4960 ³
Weights	2.3	Axle loading, forks in the back, unladen	drive end/load end		kg	2550/1810	2880/2080
Š	2.4	Axle loading, forks in the front, laden	drive end/load end		kg	800/5560	660/6800
	2.5	Axle loading, forks in the back, laden	drive end/load end		kg	2360/4000	2830/4630
တ	3.1	Tyres	dati a san d			Polyurethane	Polyurethane
assi	3.2	Tyre size	drive end		mm	Ø 355 x 155	Ø 355 x 155
- ch	3.3	Tyre size	load end, left		mm	Ø 320 x 100	Ø 320 x 100
Tyres/chassis	3.3	Tyre size	load end, right drive end/load end		mm	Ø 260 x 85 1x/4	Ø 260 x 85
	3.5	Number of wheels (x = driven) Tread	load end	h	mm	1444	1x/4 1444
	4.1	Tilt of mast/fork carriage ¹	forward/backward	b_{11} α/β	mm °	1.0/1.0	1.0/1.0
			•			3533	4083
	4.2	Height Free lift	mast lowered	h ₁	mm 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)	mast extended	h ₆	mm	2215	2215
	4.8	Seat height		h ₇	mm	1087	1087
	4.10	Height of wheel arms		h ₈	mm	430	430
	4.19	Overall length		I ₁₈	mm	2473 ²	2555 ³
	4.19	Length to face of forks		I ₂	mm	1323 ²	1405 ³
ions	4.21	Overall width		b_1/b_2	mm	1744/1498	1744/1498
Dimensions	4.22	Fork dimensions		s/e/l	mm	45/125/1150	45/125/1150
Dim	4.24	Fork carriage width		b ₃	mm	1500	1500
	4.25	Distance between fork arms	min./max.	b ₅	mm	556/1555	556/1555
	4.26	Distance between wheel arms	min, max.	b ₄	mm	903	903
	4.28	Reach distance		I ₄	mm	704 ²	782 ³
	4.31	Ground clearance, laden, below mast		m ₁	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
<i>-</i>	5.1.1.	Travel speed, backwards	laden/unladen		km/h	8.0/11.3	8.0/11.3
data	5.2	Lift speed	laden/unladen		m/s	0.33/0.55	0.32/0.53
nce	5.3	Lowering speed	laden/unladen		m/s	0.54/0.47	0.53/0.53
ma	5.4	Reaching speed	laden/unladen		m/s	0.20/0.20	0.20/0.20
Performance data	5.8	Gradeability	laden/unladen		%	10/15	9/14
ڇ	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
ine	6.2	Lift motor rating S3 = 15%			kW	15	15
Electric engine	6.3	Battery according to DIN 43531/35/36 A, B, C, no				43531 C	43531 C
tric	6.4	Battery voltage/nominal capacity K₅			V/Ah	48/465	48/620
Elec	6.5	Battery weight (depending on manufacturer ±5%)			kg	712²	892 ³
	6.6	Energy consumption according to VDI cycle			kWh/h	8.50	8.50
	8.1	Drive control				Electronic	Electronic
S.	8.2	Operating pressure for attachments			bar	150	150
Misc.	8.3	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

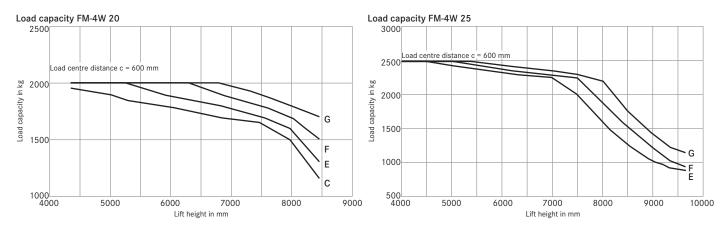
 $^{^1}$ Depends on mast (h₃ \leq 6300 mm: mast tilt up to 1.5°/3.5°; h₃ > 6700 mm: mast tilt up to 1°/1°)

² With battery tray C (up to 465 Ah)

³ With battery tray E (up to 620 Ah)



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							
20	Height, mast lowered	h ₁	mm	2,150	2,350	2,450	3,650	2,800	2,967	3,200	3,367	3,533
4W 2	Free lift	h ₂	mm	1,420	1,620	1,720	1,920	2,070	2,237	2,470	2,637	2,803
FM-4	Lift	h ₃	mm	4,300	4,900	5,200	5,800	6,250	6,750	7,450	7,950	8,450
ш	Height, mast extended	h ₄	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	٥	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										
25	Height, mast lowered	h ₁	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-4	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
ш	Height, mast extended	h ₄	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/ß	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 = 80 Safety clearance:			
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 batt	erv size		

^{*} Depends on battery size

Load width B = 12 Safety clearance:			
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

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Load width B = 800) mm		
Safety clearance: 4	100 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
* Dananda an hatt			

^{*} Depends on battery size

Load width B = 120 Safety clearance: 4									
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						
* Donands on batt	* Depends on bottony size								

^{*} Depends on battery size



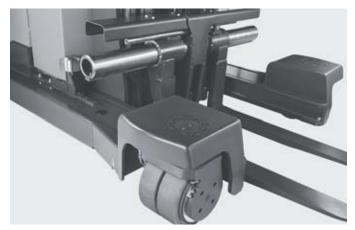
Adjustable driver's cab with numerous storage compartments



Comfortable tilt seat optimises upward visibility



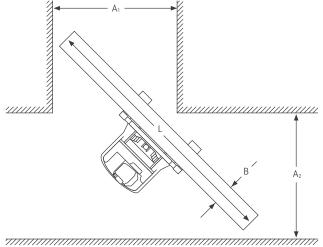
Ergonomic joystick for precise operation



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



Optimised view through overhead guard



Aisle widths

Hydraulic fork-spreading system ensures safe load handling

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

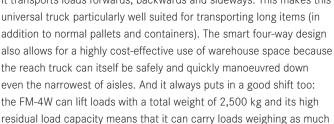
Optimised view in all situations

Holistic ergonomics concept

Extensive standard equipment



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

as 1,000 kg to a height of 9.5 m.

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 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
	iver's seat with lengthwise adjustment	•	•
	omfortable seat with hydraulic shock absorber	•	•
_	t seat, tilt angle: 18°	•	•
	eight-adjustable head rest	0	0
	iver's seat with heating system	0	0
	iver's seat with leatherette cover	0	0
	ectrically adjustable floor level	•	•
	splay showing active operating statuses and service information	•	•
	ustom programming of driver profiles	•	•
	ear mirror for sideways travel	0	0
	noramic mirror	•	•
	ee view mast with panoramic overhead guard	•	•
	Illy electric 360° steering	•	•
	ength-adjustable control unit	•	•
	idi steering wheel, height- and tilt-adjustable	•	•
_	ini steering wheel with armrest with height and length adjustment	0	0
	iplex free view mast with free lift	•	•
	ast reach damping system	•	•
	ushioned lift stop	•	•
	ast tilt: 1.5° forwards / 3.5° backwards (depending on mast)	0	0
	anual prong adjustment, adjustment range 560–1,550 mm	0	0
	anual prong adjustment, adjustment range 560-2,220 mm	0	0
	draulic prong adjustment, adjustment range 560-1,550 mm	•	•
	rdraulic prong adjustment, adjustment range 560-2,220 mm	0	0
	educed speed when fork carriage is raised	0	0
	perated by four individual levers	0	0
	perated by joystick	•	•
No	oise-optimised hydraulic pump	•	•
	tra hydraulics	0	0
Pr	oportional valve technology for high-precision movements	•	•
Cı	ustom parametrisation of hydraulic functions	•	•
Ro	otary current drive	•	•
Dı	ive wheel made of Vulkollan®	•	•
	ive wheel made of Tractothan®	0	0
	ectromagnetic disc brake used as operating brake and parking brake	•	•
El	ectric load roller brake	•	•
Re	generative braking system/energy recovery during braking process	•	•
_	ey switch	•	•
Ad	cess authorisation based on PIN code or card	0	0
М	esh grid on overhead guard	0	0
_	ast automatically moves into upright position at the touch of a button	0	0
Fo	rk protection zone	0	0
Cı	ash sensor	0	0
Tr	action control	0	0
W	eight measurement ±50 kg	•	•
W	arning light	0	0
Fr	ont headlights	0	0
Lif	it stop function	0	0
Lit	it height display	•	•
Lif	t height pre-selection system	0	0
Н	eight assistance system	0	0
Se	ervice intervals shown in display	0	0
Ro	oller track for lateral battery change	0	0
	ectric battery replacement system (only available with battery tray F, 775 Ah)	_	0
Ad	coustic battery discharge warning	0	0
	attery tray C for 465 Ah battery	0	_
	attery tray E for 620 Ah battery	•	0
	attery tray F for 775 Ah battery	0	•
	attery tray G for 930 Ah battery	0	0
	me-controlled deactivation of electrical system after leaving the forklift truck	0	0
	sbin with heating (only available with battery tray F, 775 Ah, and G, 930 Ah)	0	0
	tercom system	0	0
	indow opening in cabin door	0	0
	oisture proofing	0	0
	riting desk	0	0
	ccessory holder	0	0
	2. V socket	0	0
	ear-view camera	0	0
	our view outrierd	0	

[●] Standard ○ Optional — Not available





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