



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.



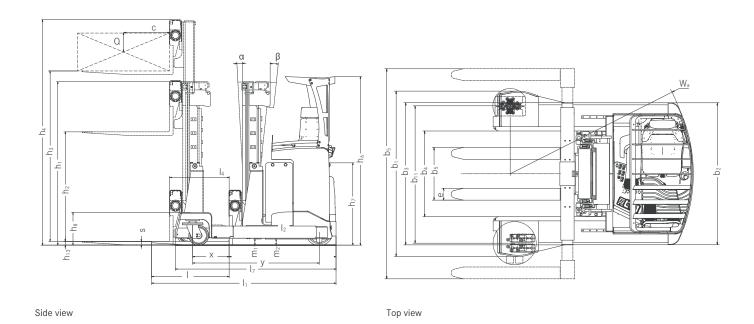
	1.1	Manufacturer				STILL	STILL
r S	1.2	Manufacturer's type designation				FM-4W 20	FM-4W 25
ma	1.3	Drive				Electric	Electric
hing	1.4	Operator type				Seated	Seated
guis	1.5	Rated capacity/rated load		Q	kg	2000	2500
Distinguishing marks	1.6	Load capacity at load centre distance		С	mm	600	600
	1.8	Load distance		Χ	mm	449 ²	527 ³
	1.9	Wheel base		У	mm	1505	1665
S	2.1	Service weight incl. battery			kg	4360 ²	4960 ³
Weights	2.3	<u> </u>	nd/load end		kg	2550/1810	2880/2080
×	2.4	<u> </u>	nd/load end		kg	800/5560	660/6800
	2.5		nd/load end		kg	2360/4000	2830/4630
S	3.1	Tyres	duit to a mad			Polyurethane	Polyurethane
Tyres/chassis	3.2	Tyre size Tyre size lo	drive end		mm mm	Ø 355 x 155 Ø 320 x 100	Ø 355 x 155 Ø 320 x 100
ch /ch	3.3	•	id end, right		mm	Ø 260 x 85	Ø 260 x 85
yres	3.5	•	nd/load end		111111	1x/4	1x/4
-	3.7	Tread	load end	b ₁₁	mm	1444	1444
	4.1		d/backward	α/β	0	1.0/1.0	1.0/1.0
	4.2		ast lowered	h ₁	mm	3533	4083
	4.3	Free lift		h ₂	mm	2803	3353
	4.4	Lift		h ₃	mm	8450	9650
	4.5	Height mas	st extended	h ₄	mm	9200	10400
	4.7	Height of overhead guard (cabin)		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 ₁	mm	2473 ²	2555 ³
ns	4.20	Length to face of forks		I_2	mm	1323 ²	1405³
nsio	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
	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		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 4.34.1	Ground clearance, centre of wheel base		m ₂	mm	80 2787 ²	80 2896 ³
	4.34.1	Aisle width for pallets 1000 x 1200 crossways		A _{st}	mm mm	2823 ²	2915 ³
	4.34.2	Aisle width for pallets 800 x 1200 lengthways Turning radius		W _a	mm	1772	1932
	4.37	Length across wheel arms		I ₇	mm	1942	2102
	5.1		en/unladen	17	km/h	13.0/13.0	13.0/13.0
	5.1.1.	•	en/unladen		km/h	8.0/11.3	8.0/11.3
Performance data	5.2		en/unladen		m/s	0.33/0.55	0.32/0.53
JCe .	5.3	•	en/unladen		m/s	0.54/0.47	0.53/0.53
m ai	5.4		en/unladen		m/s	0.20/0.20	0.20/0.20
erfol	5.8		en/unladen		%	10/15	9/14
مَ	5.9	Acceleration time over 10 m	en/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
gine	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
ctri	6.4	Battery voltage/nominal capacity K₅			V/Ah	48/465	48/620
品	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
Misc.	8.2	Operating pressure for attachments			bar	150	150
2	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

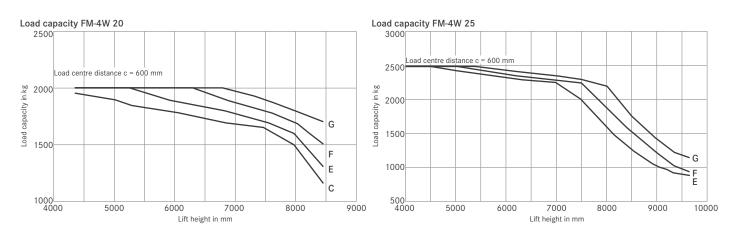
 $^{^1}$ Depends on mast (h₃ \leq 6300 mm: mast tilt up to 1.5°/3.5°; h₃ > 6700 mm: mast tilt up to 1°/1°)

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							
0	Height, mast lowered	h ₁	mm	2,150	2,350	2,450	3,650	2,800	2,967	3,200	3,367	3,533
W 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-4W 20	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	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										
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	15/35	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 Safety clearance: 40			
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

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	3,050	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
*	3,050	,	,

^{*} Depends on battery size

FM-4W 25

Load width B = 80	10 202		
Safety clearance:			
Aisle A ₁ mm*	Main aisle A ₂ mm	1*	
	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
* Donands on hat	ton, oizo		

^{*} Depends on battery size

Load width B = 12 Safety clearance:			
Aisle A ₁ mm*	Main aisle A ₂ n	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 hat	ttony sizo		

Depends on battery size



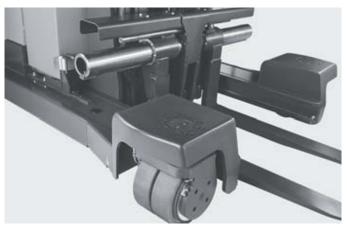
Adjustable driver's cab with numerous storage compartments



Comfortable tilt seat optimises upward visibility



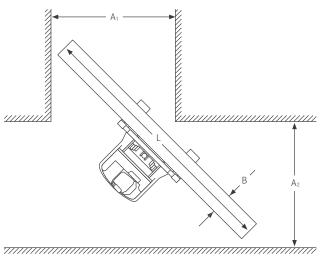
Ergonomic joystick for precise operation



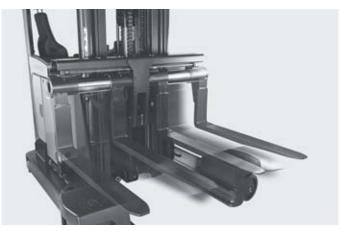
Load wheel can be smoothly put in position for precise sideways travel $% \left(1\right) =\left(1\right) \left(1\right) \left($



Optimised view through overhead guard



Aisle widths



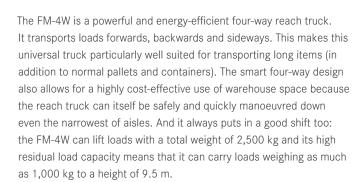
Hydraulic fork-spreading system ensures safe load handling

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

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
	iver's seat with lengthwise adjustment	•	•
	mfortable seat with hydraulic shock absorber	•	•
	seat, tilt angle: 18°	0	0
D.,	ight-adjustable head rest	0	0
	iver's seat with heating system iver's seat with leatherette cover	0	0
FI	ectrically adjustable floor level	•	•
Di	splay showing active operating statuses and service information		
	stom programming of driver profiles	•	•
	ar mirror for sideways travel	0	0
_	noramic mirror	•	•
	ee view mast with panoramic overhead guard	•	•
	lly electric 360° steering	•	•
	ngth-adjustable control unit	•	•
	di steering wheel, height- and tilt-adjustable	•	•
	ni steering wheel with armrest with height and length adjustment	0	0
Tri	plex free view mast with free lift	•	•
Ma	ast reach damping system	•	•
	shioned lift stop	•	•
Ma	ast tilt: 1.5° forwards / 3.5° backwards (depending on mast)	0	0
Ma	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	•	•
	draulic prong adjustment, adjustment range 560-2,220 mm	0	0
	duced speed when fork carriage is raised	0	0
	erated by four individual levers	0	0
	erated by joystick	•	•
	ise-optimised hydraulic pump	•	•
	tra hydraulics	0	0
	pportional valve technology for high-precision movements	•	•
	stom parametrisation of hydraulic functions	•	•
	tary current drive	•	•
_	ive wheel made of Vulkollan®	•	•
	ive wheel made of Tractothan®	0	0
	ectromagnetic disc brake used as operating brake and parking brake	•	•
	ectric load roller brake		
	generative braking system/energy recovery during braking process		
	y switch cess authorisation based on PIN code or card	0	0
	esh grid on overhead guard	0	0
_	ast automatically moves into upright position at the touch of a button	0	0
	rk protection zone	0	0
	ash sensor	0	0
_	action control	0	0
	eight measurement ±50 kg	•	•
	rning light	0	0
	ont headlights	0	0
	t stop function	0	0
	t height display	•	•
	t height pre-selection system	0	0
	ight assistance system	0	0
	rvice intervals shown in display	0	0
Rc	ller track for lateral battery change	0	0
El€	ectric battery replacement system (only available with battery tray F, 775 Ah)	_	0
	oustic battery discharge warning	0	0
	ttery tray C for 465 Ah battery	0	_
	ttery tray E for 620 Ah battery	•	0
	ttery tray F for 775 Ah battery	0	•
	ttery tray G for 930 Ah battery	0	0
	ne-controlled deactivation of electrical system after leaving the forklift truck	0	0
	bin with heating (only available with battery tray F, 775 Ah, and G, 930 Ah)	0	0
	ercom system	0	0
	ndow opening in cabin door	0	0
	pisture proofing	0	0
М			
Mo Wr	iting desk	0	0
Wr Ac	iting desk cessory holder	0	0
Wr Ac	iting desk		

[●] Standard ○ Optional — Not available