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FM-SE 14

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FM-SE 16

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FM-SE 20

## FM-SE Technical Data.

FM-SE Rider-seated reach truck



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

Characteristics	1.1	Manufacturer			STILL	STILL	STILL		
	1.2	Manufacturer's model designation			FM-SE 14	FM-SE 16	FM-SE 20		
	1.3	Drive (electric, diesel, petrol, LPG)			Electric	Electric	Electric		
	1.4	Operation (hand, pedestrian, stand on, rider seated)			Rider seated	Rider seated	Rider seated		
	1.5	Capacity/load	Q	kg	1400	1600	2000		
	1.6	Load centre	c	mm	600/500	600/500	600/500		
	1.8	Load distance <sup>2</sup>	x	mm	326	321	471		
	1.9	Wheel base	y	mm	1380	1380	1530		
	Weights	2.1	Truck weight inc. Battery <sup>4</sup>			kg	3288	3288	3414
2.3		Axle load forks back, unladen <sup>4</sup>	Driver/load end		kg	1962/1326	1962/1326	2216/1198	
2.4		Axle load forks forward, laden <sup>4</sup>	Driver/load end		kg	723/3965	675/4213	450/4964	
2.5		Axle load forks back, laden <sup>4</sup>	Driver/load end		kg	1697/2991	1738/3150	2016/3398	
Wheels/chassis	3.1	Tyres (rubber, Polyurethane, Superelastic)	Driver/load end			C/SE	C/SE	C/SE	
	3.2	Tyre size, driver's end				18 x 8 -121/8	18 x 8 -121/8	18 x 8 -121/8	
	3.3	Tyre size, load end				180/60-10	180/60-10	200/50-10	
	3.5	Number of wheels (x=driven)	Load/driver's end			2/1 x	2/1 x	2/1 x	
	3.6	Track width, driver's end	b <sub>10</sub>	mm		0	0	0	
	3.7	Track width, Load end	b <sub>11</sub>	mm		1245	1245	1265	
	Basic dimensions	4.1	Mast/carriage tilt, forward/back			°	2/4	2/4	2/4
4.2		Height, mast lowered <sup>1</sup>	h <sub>1</sub>	mm		2225	2225	2225	
4.3		Free lift <sup>1</sup>	h <sub>2</sub>	mm		1361	1361	1361	
4.4		Lift <sup>1</sup>	h <sub>3</sub>	mm		4955	4955	4955	
4.5		Height, mast raised <sup>1</sup>	h <sub>4</sub>	mm		5695	5695	5395	
4.7		Height over overhead guard (cab)	h <sub>6</sub>	mm		2246	2246	2246	
4.8		Seat height/platform height	h <sub>7</sub>	mm		1076/1166	1076/1166	1076/1166	
4.10		Height of straddle arms or load wheel casing	h <sub>8</sub>	mm		476	476	476	
4.19		Overall length	l <sub>1</sub>	mm		2506	2511	2511	
4.20		Length including fork backs <sup>2</sup>	l <sub>2</sub>	mm		1356	1361	1361	
4.21		Overall width	b <sub>1/2</sub>	mm		1234/1366	1234/1366	1234/1470	
4.22		Fork dimensions	s/e/l	mm		40 x 80 x 1150	45 x 100 x 1150	45 x 100 x 1150	
4.23		Fork carriage DIN 15173, Class/Form A, B				2/A	2/A	2/A	
4.24		Fork carriage width, top/bottom	b <sub>3</sub>	mm		776	776	776	
4.25		Outside fork width, minimum/maximum	b <sub>5</sub>	mm		216/597	216/597	216/597	
4.26		Width between straddle arms/load surfaces	b <sub>4</sub>	mm		922	922	922	
4.28		Reach <sup>2</sup>	l <sub>4</sub>	mm		594	594	744	
4.31		Floor clearance with load under mast	m <sub>1</sub>	mm		90	90	90	
4.32		Floor clearance, centre of wheel-base	m <sub>2</sub>	mm		145	145	145	
4.33	Working aisle width with 1000 x 1200 pallet crossways <sup>2</sup>	A <sub>st</sub>	mm		2785	2789	2833		
4.34	Working aisle width with Palette 800 x 1200 pallet lengthways <sup>2</sup>	A <sub>st</sub>	mm		2844	2849	2865		
4.35	Turning radius	W <sub>a</sub>	mm		1683	1683	1833		
4.37	Length over straddle arms	l <sub>7</sub>	mm		1912	1912	2062		
Performance data	5.1	Travel speed laden/unladen <sup>4,5</sup>		km/h		12.5/12.5	12.5/12.5	12.5/12.5	
	5.2	Hoist speed laden/unladen <sup>5</sup>		m/s		0.42/0.66	0.40/0.66	0.32/0.51	
	5.3	Lowering speed laden/unladen <sup>4</sup>		m/s		0.56/0.50	0.56/0.50	0.56/0.52	
	5.4	Reach speed laden/unladen <sup>4</sup>		m/s		0.15/0.15	0.15/0.15	0.15/0.15	
	5.7	Gradeability laden/unladen		%		4.5/8.2	4.5/8.2	4.5/8.2	
	5.8	Max. gradeability laden/unladen		%		10/10	10/10	10/10	
	5.9	Acceleration time laden/unladen (over 10 m) <sup>5</sup>		s		5.5/4.8	5.5/4.8	5.8/5.0	
	5.10	Service brake				generator/hyd.	generator/hyd.	generator/hyd.	
	E-Motor	6.1	Drive motor, rating S2 = 60 min		kW		6.5	6.5	6.5
		6.2	Hoist motor, rating at S3 = 15%		kW		14	14	14
6.3		Battery to DIN, IEC, Circuit A, B, C				43531/254-2 C	43531/254-2 C	43531/254-2 C	
6.4		Battery voltage, rated capacity C <sub>s</sub>		V/Ah		48/560	48/560	48/560	
6.5		Battery weight +/- 5% (depends on make)		Kg		939	939	939	
6.6		Energy consumption to VDI cycle		kWh/h					
Misc	8.1	Drive controller				3 phase	3 phase	3 phase	
	8.2	Working pressure for attachments		bar		200	200	200	
	8.3	Oils flow rate for attachments		l/min		6.5	6.5	6.5	
	8.4	Sound level at driver's ear <sup>7</sup>		dB(A)		63	63	63	

<sup>1</sup> For other masts see tables

<sup>2</sup> Other battery sizes change these values

<sup>4</sup> Other masts can change these values

<sup>5</sup> Reduced speeds on request

<sup>7</sup> Figures stated are for trucks without cab

		FM-SE 14	FM-SE 16	FM-SE 20
Driver's compartment	Rated capacity kg	1.4	1.6	2.0
	Adjustable steering wheel position and longitudinal seat adjustment	●	●	●
	Adjustable height luxury seat with lumbar and weight setting	●	●	●
	Adjustable height driver's seat with heater	○	○	○
	Driver's compartment with synthetic leather seat	●	●	●
	Driver's compartment with cloth seat	○	○	○
	Clearview mast with optimised view overhead guard	●	●	●
	Fingertip control (Hydraulic actuation through 4 individual control levers)	●	●	●
	Integral storage facilities	●	●	●
	Display: Clear display of active operating states	●	●	●
Steering	Adjustable steering resistance	●	●	●
	Free moving, full electric steering 180°	●	●	●
	Redundant steering safety system	●	●	●
Mast	Triplex clearview mast with free lift	●	●	●
	Hydraulic sideshifter with fork tilt	●	●	●
	Mast transition damping	●	●	●
	Clearview fork carriage	●	●	●
Hydraulics	Noise optimised hydraulic pump	●	●	●
	Auxiliary hydraulics	○	○	○
	Proportional valve technology for particularly sensitive movements	●	●	●
	Individual parameter setting option for the hydraulic functions	●	●	●
Drives	Load wheel tyres - Superelastic	●	●	●
	Drive wheel tyre - Rubber	●	●	●
	Maintenance-free 3-phase drives for driving and hoisting	●	●	●
	Fully encapsulated components, not susceptible to dirt and dust	●	●	●
	Integral current and temperature sensors for function monitoring	●	●	●
Brake	Generator braking system	●	●	●
	Energy recovery when braking	●	●	●
	Hydraulic load wheel brake as an auxiliary brake	●	●	●
	Electromagnetic disc brake as a parking brake and emergency stop	●	●	●
Battery system	Battery changing using hoist	●	●	●
	Battery roller track for battery changing to side	○	○	○
	Battery compartment for 560 Ah battery	●	●	●
	Battery compartment for 700 Ah battery	○	○	○
	Battery transport and changing frame	○	○	○
Additional equipment	Pin Code access, keyless with button	○	○	○
	Flashing light	○	○	○
	Working spotlight on overhead guard	○	○	○
	Overhead guard cover, with standard sheet steel, optimised visibility	●	●	●
	Overhead guard cover, with polycarbonate	○	○	○
	Overhead guard cover, with mesh	○	○	○
	Raised driver's seat backrest	○	○	○
	Various fork lengths	○	○	○
	Weather protection cab with interior and screen heater and screen wiper	○	○	○
	Chassis width 1,366 mm	●	●	-
	Chassis width 1,470 mm	-	-	●
	Load backrest	○	○	○
	Fork extension	○	○	○
DIN A4 Writing surface	○	○	○	

● Standard      ○ Option







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