

FM Technical Data.



Achieve more.

Rider Reach Truck.



Standard equipment.

Driver's compartment.

Continuous research and development have greatly improved the driver's environment on the FM.

- Adjustable steering wheel with fore and aft seat adjustment allows the driver to create his ideal working position.
- Comfort seat features hydraulic damping adjustable to the driver's body weight. Seat contour shaped to give good support.
 The drive interlock switch must be depressed to allow truck movement.
- Option: Proportional adjustment of driver's seat and foot pedals guarantees an ergonomically correct seating position.
- Handles and an extra step are provided by the overhead guard uprights which facilitate safe entry and exit for the driver.
- Clear view mast and good all round visibility and the optimisedvisibility overhead guard make for optimum safety of operation.
- Control is through a multi-function joystick lever. For safer operation, selection of drive direction and hydraulic functions can be achieved without changing grip.
- Option: Individual control of hydraulics by four levers.
- Upholstered arm rest.
- A display panel for active operating status and service information shows ready state, driving direction, parking brake status, wheelbase indicator, inching, operating hours, battery state, brush monitoring (not on the FMI), service interval. In the event of a malfunction, there is a fault signal.
- On the FMI five (four + inching) driving profiles selectable by the driver make it possible to influence the acceleration, deceleration, plugging and speed.

Power steering.

- Steering wheel operates electrically, thus removing the high-maintenance mechanical link with the steer motor.
- The maintenance-free, directly geared steering motor is controlled electronically from a sensor on the steering column and operates on demand
- Reduced energy consumption by virtue of the steering electronics being activated only when the steering wheel is moved.

Mast.

- Triplex clear view mast with free lift as standard for utilisation of space up to roof level.
- Nested I-beam mast sections and integral hoist cylinders, with the lift chains running behind, provide optimal visibility.
- Option: Integral mast side shift with 100 mm lateral movement reduces time lost manoeuvring when positioning loads in racking.
 Efficient design has removed traditional wear parts such as hose take-ups and hose reels. Hydraulic pipe-work routed within the mast profile eliminates potentially hazardous external hoses.

Hydraulics.

The FM is fitted as standard with a modern MOSFET pulse controller (MOSFET converter regulation on the FMI) for the pump motor. In conjunction with the proportional control valve, this gives particularly sensitive control of hydraulic functions.

- Lifting/lowering, reach, tilt and side shift speeds are all independently adjustable.
- Stepless control of movements improves safety of operation.
- Pump motor speed under pulse controller (converter regulation on the FMI) saves energy and reduces noise.
- Powerful series wound motor (three phase motor on the FMI).

Drive unit.

MOSFET pulse controller (MOSFET converter regulation on the FMI) gives smooth, stepless drive characteristics from rest to maximum speed with economical use of battery power.

 Ventilated shunt wound motor (three phase motor on the FMI) does not rotate when steering hence no cable wear.

On board monitoring of the following items for possible defects makes it possible to control down time:

- Brush monitoring (not on the FMI).
- current and temperature.
- general malfunction monitoring.
- Spur and bevel gear box is of energy efficient design.
- Motor torque compensation ensures accurate steering and prevents reaction at the steering wheel when accelerating and braking.

Brakes.

The braking system consists of a wear-free generator brake plus an additional foot brake which operates the internal shoe brakes on the load wheels. The electro-magnetic disc brake acts on the motor shaft and serves as a parking brake.

 When driving, regenerative braking is triggered automatically when the drive pedal or the drive foot switch is released, thus feeding recovered energy back into the battery (dead man principle).

Central control.

- Compact installation of the circuitry and controller provides high safety standards.
- Speeds can be programmed: Main hoist lift / lower, travel speed forwards / reverse, acceleration and deceleration, inching speed, mast reach, mast tilt and mast side shift as well as the ramp functions when reaching forwards and backwards.
- Diagnostic system activated through an easily accessible central diagnostic plug.

Battery.

- For maintenance, the battery can be moved forward using the mast reach.
- For multi-shift use the battery can be changed with a hoist or optionally using a battery roller track.
- The use of larger batteries and / or increasing the wheel base will give a higher residual capacity.

Safety.

- The trucks are built in compliance with machinery guideline 98 / 37 / EC and carry the "CE" symbol.
- STILL is certified to ISO 9001.

FM-Drive In.

Overhead guard for drive-in racking installations for the FM reach truck.

Drive-in racking installations are used where block stacking is not possible because of fragile loads, or where a small number of different articles have to be stored in very large quantities and it is wished to achieve this without the additional working aisles which would be necessary for a conventionally racked warehouse.

If the installation is used as single entry racking the loading and unloading is carried out from one side on the LIFO (last in, first out) principle. When configured as drive through racking, either side is used and loading and unloading are carried out separately under the FIFO (first in, first out) principle.

Only one transfer aisle is necessary, which the reach truck uses to allow entry into the various channels. The pallets are set down on supports which protrude into the channels.

For this reason the overhead guard of the reach truck is cranked in to a specific width dimension. The height above the floor up to the cropping dimension also has to be taken into account.

For easier and faster entry and exit to and from the channel, it is recommended that guide rails be used where the depth of entry is greater than two pallet lengths.

When filling a drive-in racking warehouse, care should be taken to ensure that the pallets are put into stock in a vertical sequence, starting from the back. They are taken out of stock in reverse order.

FM-TK.

Enclosed Driver's cab, heated (for model FM).

The following are arguments in favour of an enclosed driver's cab:

- enhanced work place
- working in normal clothing
- increase in personal well-being with thermostatically regulated interior temperature
- reduction in health risks caused by temperature differences,
 which can be up to 60° C in certain operating conditions
- fewer days lost through sickness
- higher work output
- the full shift period can be utilised because breaks to recover from the cold are no longer necessary
- safeguards the truck components as no climate change is necessary

The driver's cab is available as a heated cold store cab for continuous use down to -30° C or as a cab for unheated buildings. The insulated cab is constructed so that it also functions as an overhead guard.

Fresh air is supplied through ventilation flaps. Thermostatically regulated interior space heater. Large double glazed screens, heated or unheated depending on the application, provide excellent all round vision.

Non-dazzle cab lighting on the cab roof. Intercom system and switch panel fitted on the cab wall. Drive interlock switch integrated into the door closer mechanism. As an option, spotlights, rotating or flashing beacons can be installed on the cab roof.





MMS data terminal.

Installation of the Lambda*pro radio data terminal and hand scanner on the FM / FMI reach truck.

Where stated on the order, new trucks will be prepared for installation to EHI / DHI standards.

Retro-fitting of old trucks is possible after discussion with STILL.



HA Height indicator.

Saves time.

The height indicator makes it easier for the forklift truck driver to approach different shelf heights in the warehouse. Thanks to the precision of approach, it is no longer necessary repeatedly to actuate the hydraulics to correct the height. This saves time and the lower energy requirement is also measurable.

Well priced.

With the HA height indicator for use with reach trucks and stackers, an economic solution for precise approach to shelf heights is available to the user.

Measures in 3 mm steps.

The height indicator registers the lift height and displays it in 3 mm increments.

Features.

- Visual input and output aid for all lift heights in main lift
- Time saving, precise entry into pallet locations
- Instruments integrated in display (very good view of LED display, even in poor lighting conditions)
- Increased safety through function monitoring



HVW height pre-selection system.

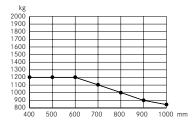
Features.

- Automatic stop at target point
- Display resolution: 1 mm
- Assistant function for the functional stages of the putting into and taking out of stock cycle
- Height pre-selection, height indicator and operating indicators integrated into one display
- Suitable for alternating in and out of cold store use 30° C
- 8 storage locations, 20 shelf heights can be programmed
 160 pre-selectable shelf levels
- Simple fast programming of the shelf levels
- Fast precise positioning of the desired shelf levels
- Increases of the turnaround of loads due to fast positioning without manual height corrections
- Great safety for driver and goods when putting into and taking out of stock, even at high lift heights
- Simple operation even for inexpert drivers
- Individual adjustment to different warehouse conditions
- Sensitive handling of delicate goods
- Ideal even in dark storage areas
- Ergonomic seating position protects the neck
- Good value system inexpensive turnaround of goods



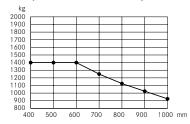
Residual capacity / load centre.

FM 12 / FM 12I Battery 48 V / 420 L · Wheelbase y = 1370 mm



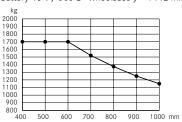
FM 14 / FM 141

Battery 48 V / 420 L \cdot Wheelbase y = 1370 mm

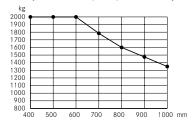


FM 17 / FM 171

Battery 48 V / 560 L \cdot Wheelbase y = 1442 mm

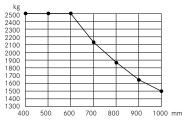


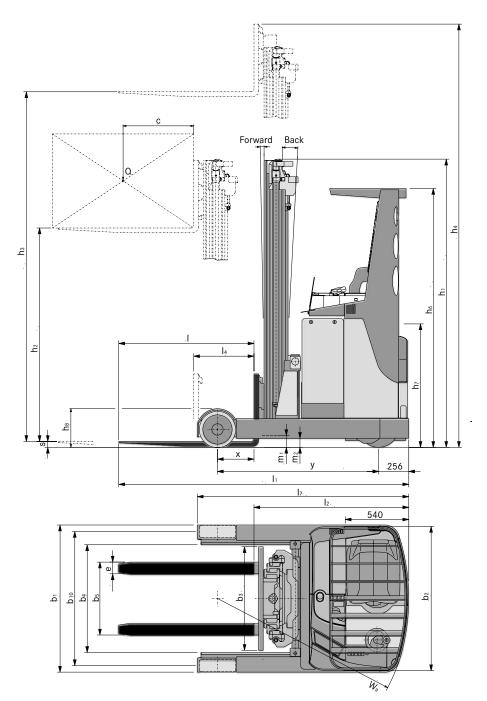
FM 20 / FM 20 H / FM 201 / FM 201 H Battery 48 V / 560 L (700 L) · Wheelbase y = 1514 mm



FM 251

Battery 48 V / 700 Ah \cdot Wheelbase y = 1698 mm





In accordance with VDI guidelines 2198 or 3597, this specification applies to the standard model only. Alternative tyres, mast types, ancillary equipment, etc. could result in different values.

	1.1	Manufacturer			STI	11	ST	II I	STI	11	
	1.2	Manufacturer's model designation			FM 1		FM -		FM 2		
SS	1.3	Power supply (electric, diesel, petrol, gas)			elec		elec		elec		
Characteristics	1.4	Operation (stand-on, rider seated)			rider s		rider s		rider s		
cte	1.5		Q	li m	140		17		20		
hara	1.6	Capacity / load Load centre	c	kg	60		60		60		
O	1.8	Load distance		mm	T	250	403		384	294	
			X	mm	341			312			
-	1.9	Wheelbase	У	mm	135		14		15		
	2.1	Weight (inc. battery) ⁴⁾		kg	3000	3200	3030	3230 1959 / 1271	3260	3450 2050 / 1400	
	2.3	Axle load, forks back, unladen		kg	1667 / 1133	1891 / 1300	1927 / 1103	,	2028 / 1232		
>		Axle load, forks forw., unladen		kg	569 / 3831	669 / 3931	446 / 4284	551 / 4379	460 / 4800	552 / 4898	
_	2.5 3.1	Axle load forks back, laden, drive / load end Tyres (rubber, Vulkollan, pneumatic)		kg	1600 / 2800 Vulko	1530 / 3070	1692 / 3038 Vulki	1616/3314	1740 / 3520 Vulko	1642/3808	
	3.2	Tyre size, drive end		mm	Ø 343		Ø 343		Ø 343		
tyre	3.3	Tyre size, load end			Ø 343		Ø 343		Ø 343		
<u>s</u>				mm							
	3.5	Wheels, number (x = drive wheel) drive end / load end Track width, load end	b ₁₀	mm	2 /		10	1 x	2/		
-	3.7	Track width, drive end	b ₁₁		- 10		10	10	10		
-	4.1	Tilt angle, mast / carriage		mm	1/3 0		1,	/ 2	1/		
	4.1	Closed mast height	h ₁	degrees	2250 / 24		2250 /		2250 /		
	4.2	Free lift	h ₂	mm mm	1620 / 182		1620		1620 /		
	4.4	Lift height	h ₃	mm	5150 / 57	•	5150		4975 /		
	4.4	Height, mast raised	h ₄	mm	5780 / 638		5780		5605 /		
	4.7	Height to top of overhead guard (cabin)	h ₆	mm	220	-	22		22		
	4.8	Seat height / platform height	h ₇	mm		1050		50	10		
	4.10	Height of straddle legs and load wheel	h ₈		330		33		33		
	4.19	Overall length ¹⁾	I18	mm mm					2536 od. 2386		
	4.20	Length to front face of forks ¹⁾	12		1285	1376	1295	1386	1386	1466	
ဋ	4.21	Overall width	b ₁ /b ₂	mm	1120/		11207		1120/		
-75	4.21	Fork dimensions		mm					50/100/11		
in ei	4.23	Fork carriage to DIN 15173, class / form A, B	s/e/	l mm	40/100/11		50/100/11		2/		
	4.24	Fork carriage width	bз	mm	2 / B 1040 / 730				1040		
	4.25	Overall fork width	b ₅	mm			1040 / 730 620		62		
	4.26	Width between straddle legs / load platforms	b ₄	mm	620 784		784		78		
	4.28	Fork reach ³⁾	14	mm	553	462	625 534		606	516	
	4.31	Floor clearance under mast, laden	m ₁	mm	100		100		10		
	4.32	Floor clearance, centre of wheelbase	m ₂	mm	70		76		7		
	4.33	Working aisle width with 1000 x 1200 pallet crosswise ⁵⁾		mm	2492	2583	2499	2590	2586	2676	
	4.34	Working aisle width with 800 x 1200 pallet lengthwise ⁵⁾		mm	2692	2783	2699	2790	2786	2876	
	4.35	Outer turning radius	Wa	mm	160		17		17		
	4.37	Length over straddle legs	l ₇	mm	179		18		19-		
_	5.1	Speed		km/h	10.7	/11	10.6	/11	10.4	/11	
- 1	5.2	Lifting speed		m/s	0.36/		0.32		0.28 /		
e	5.3	Lowering speed		m/s	0.52/		0.54		0.50 /		
formance	5.4	Reach speed		m/s	varia	able	varia	able	varia	able	
	5.7	Gradeability		%	10/	15	10,	15	10/	15	
	5.8	Max. gradeability		%	10/	15	10,	/15	10/	15	
	5.9	Acceleration time (over 10 m)		s	5.5 /		5.6,		5.8 /		
	5.10	Brakes			Generator / hyd	Iro-mechanical	Generator / hyd	dro-mechanical	Generator / hyd	dro-mechanical	
	6.1	Drive motor, rating S2 = 60 min		kW	5.	2	5.	.2	5.	2	
ors	6.2	Hoist motor, rating at S3 = 15 %		kW			9.	.0	9.	0	
Mot	6.3	Battery to IEC 254-2; A, B, C, no			IEC 25	4-2, B	IEC 25	4-2, B	IEC 25	4-2, B	
	6.4	Battery voltage, capacity K5		V/Ah	48 / 420 L	48/560 L	48 / 420 L	48 / 560 L	48 / 560 L	48 / 700 L	
Elec	6.5	Battery weight + / - 5% (dependent on manufacturer)		kg	750	940	750	940	940	1120	
	6.6	Energy consumption according to VDI cycle		kWh/h	4.	6	4.	.8	5.		
	8.1	Drive control			electronic		electronic		electronic / stepless		
je.	8.2	Operating pressure for attachments		bar	14		140		140		
	8.3	Oil flow for attachments		I / min	18		1	8	1	8	
5	0.3	on now for accasimistics		17		<u> </u>		0		0	

¹⁾ Reduced by 40 mm when fitted with integral mast sideshift 2) Reduced by 31 mm when fitted with integral mast sideshift 3) Reduced by 40 mm when fitted with integral mast sideshift

⁴⁾ h₁ = 2250 mm

⁵⁾ VDI 3597, dimensions without mast sideshift

FM, FMI, FM H, FMI H, FM 25I.

In accordance with VDI guidelines 2198 or 3597, this specification applies to the standard model only. Alternative tyres, mast types, ancillary equipment, etc. could result in different values.

	1.1	Manufacturer			STILI			STILL			
	1.2	Manufacturer's model designation			FM 12	FM 12I*	FM 14 FM 141*				
sol	1.3	Power supply (electric, diesel, petrol, gas)			electr			electric			
ts	1.4	Operation (stand-on, rider seated)			rider se			rider seated			
acte	1.5	Capacity / load	Q	kg	1200						
har	1.6	Load centre	С	mm	600			1400 600			
0	1.8	Load distance ²⁾	x	mm	456		414 341		268		
	1.9	Wheelbase	v	mm	1370		414	1370	200		
	2.1	Weight (inc. battery) ⁴⁾	У		2780		3035	3235	3425		
	2.3			kg	1875 /		1995 / 1040	2045 / 1190	2078 / 1347		
. ===	2.4	Axle load, forks back, unladen Axle load, forks forw., unladen		kg	724/3			-			
	2.5	, ,		kg			625 / 2810 1803 / 2632	737 / 3898	832 / 3993		
		Axle load forks back, laden, drive / load end		kg	1748 / 2 Vulkoll		1003 / 2032	1778 / 2857 Vulkollan	1735/3090		
S	3.1	Tyres (rubber, Vulkollan, pneumatic)		mm	Ø 343 x	-		Ø 343 x 135			
_	3.3	Tyre size, drive end		mm							
-s		Tyre size, load end		mm	Ø 310 x			Ø 310 x 100			
hee	3.5	Wheels, number (x = drive wheel) drive end/load end	I-		2/1			2/1x			
>	3.6	Track width, load end	b ₁₀	mm	1140	J		1140			
_	3.7	Track width, drive end	b11	mm	-	- 10					
	4.1	Tilt angle, mast/carriage, forwards / backwards	<u> </u>	grees	1/3 0.			1/3 0.5/2	10.0		
	4.2	Closed mast height	h ₁	mm	2260 / 2460	-		250 / 2450 / 27			
	4.3	Free lift	h ₂	mm	1630 / 1830			1620 / 1820 / 2070 5150 / 5750 / 6500			
	4.4	Lift height	h ₃	mm	5240 / 5840						
	4.5	Height, mast raised	h ₄	mm	5870 / 6280	•	5	780 / 6380 / 71	30		
	4.7	Height to top of overhead guard (cabin)	h ₆	mm	2200			2200			
	4.8	Seat height / platform height	h ₇	mm	1050			1050			
	4.10	Height of straddle legs and load wheel	h ₈	mm	330			330	T		
	4.19	Overall length ¹⁾	l ₁	mm	2320 od.				2508 od. 2385		
S	4.20	Length to front face of forks ¹⁾	12	mm	1170		1212	1285	1358		
	4.21	Overall width	b ₁ /b ₂	mm	1250/1			1250 / 1226			
neu	4.22	Fork dimensions	s/e/l	mm	40/100/115		50/	100 / 1150 od.	1000		
ij	4.23	Fork carriage to DIN 15173, class / form A, B			2 / E			2/B			
	4.24	Fork carriage width	bз	mm	1040 /			1040 / 730 620			
	4.25	Overall fork width	b ₅	mm	620						
	4.26	Width between straddle legs / load platforms	b ₄	mm	914		914				
	4.28	Fork reach ³⁾	14	mm	662		626 553		480		
	4.31	Floor clearance under mast, laden	m ₁	mm	100		100				
	4.32	Floor clearance, centre of wheelbase	m ₂	mm	76		76				
	4.33	Working aisle width with 1000 x 1200 pallet crosswise ⁵⁾		mm	2377		2419	2492	2565		
	4.34	Working aisle width with 800 x 1200 pallet lengthwise ⁵⁾	Ast	mm	2577	7	2619	2692	2765		
	4.35	Outer turning radius	Wa	mm	1633		1633 1633		1633		
	4.37	Length over straddle legs	l ₇	mm	1798			1798			
	5.1	Speed		m/h	10.8/11	12/12*	10.7/1		12/12*		
	5.2	Lifting speed		m/s	0.38/0			0.36 / 0.60			
<u>ي</u>	5.3	Lowering speed		m/s	0.52/0			0.52 / 0.46			
	5.4	Reach speed		m/s	variab			variable			
irfol	5.7	Gradeability		%	10/1			10/15			
P.	5.8	Max. gradeability		%	10/1			10/15			
	5.9	Acceleration time (over 10 m)		S	5.5 / 4.9	4.8 / 4.5*	5.5 / 4.9)	5.0 / 4.6*		
	5.10	Brakes			Generator / hydro			ator / hydro-med			
	6.1	Drive motor, rating S2 = 60 min		kW	5.2	6.0*	5.2		6.0*		
	6.2	Hoist motor, rating at S3 = 15 %		kW	12.0 11.5*		12.0		11.5*		
§	6.3	Battery to IEC 254-2; A, B, C, no			IEC 254-	-2, C		IEC 254-2, C			
tric	6.4	Battery voltage, capacity K5	V	/ Ah	48 / 42	0 L	48 / 420 L	48 / 560 L	48 / 700 L		
Elec	6.5	Battery weight + / - 5% (dependent on manufacturer)		kg	750		750	940	1120		
	6.6	Energy consumption according to VDI cycle	k	Wh/h	4.6	4.6 *	4.6		4.6*		
	8.1	Drive control			electronic/stepless	3-phase current*	electronic/ste	pless 3-p	hase current*		
Ę	8.2	Operating pressure for attachments		bar	140			140			
	8.3	Oil flow for attachments	L.	/ min	18			18			
	8.4	Noise peak at operator's ears		dB(A)	70			70			
_				- (' ')	70			70			

¹⁾ Increased by 31 mm when fitted with integral mast sideshift

²⁾ Reduced by 31 mm when fitted with integral mast sideshift

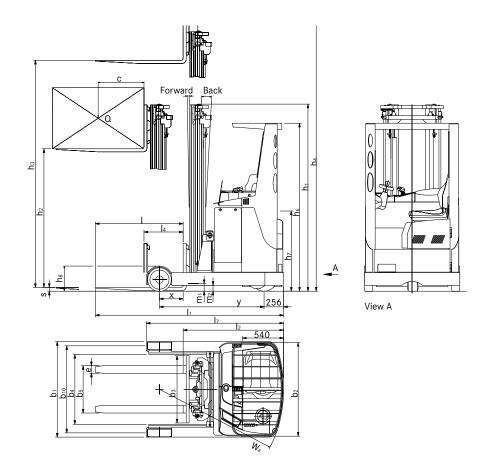
³⁾ Reduced by 40 mm when fitted with integral mast sideshift

⁴⁾ h₁ = 2250 mm 5) VDI 3597, dimensions without mast sideshift

^{*} Details for FMI

	1 1				CTILL			CT.	11.1	0.7	11.1	CTII I
	1.1			EM 17	STILL		M 171*		ILL EM 201*		TLL EM 201 H*	STILL FM 251*
δύ	1.2			FM 17	alc - t		M 17i*	FM 20	FM 201*	FM 20 H	FM 201 H*	
Characteristics					electri						otric	electric
cter	1.4		l		rider sea			rider s			seated	rider seated
hara	1.5	Q	kg		1700			20			000	2500
5	1.6	С	mm	450	600		220	60			00	600
l	1.8	X	mm	458	403		330	475	402		64	540
_	1.9	У	mm	00/5	1442		0.455		14		514	1698
l 😓	2.1		kg	3065	3265		3455	3296	3496		010	4010
	2.3		kg	2037 / 1028	2108/1		2148 / 1307	2178 / 1118	2224 / 1262		/1610	2610 / 1400
>	2.4		kg	500 / 4265	616/43		717 / 4438	527 / 4769	627 / 4859		[′] 5410	690 / 5820
	2.5		kg	1868 / 2897	1873 / 3		1827 / 3328	2011 / 3285	1960 / 3526		/ 3526	2470 / 4040
ပ္သ	3.1				Vulkoll				ollan		ollan 3 x 135	Vulkollan
Wheels tyres	3.2		mm		Ø 343 x			Ø 343				Ø 343 x 135
<u>s</u>	3.5		mm		Ø 310 x			Ø 310			0 x 100	Ø 310 x 122
/hee	3.6	b ₁₀	mm		2/1			11	1 x		1 x 40	2 / 1 x 1164
>	3.7		mm		- 1140)					-	-
\vdash		b11	mm							-		-
ł	4.1		legrees		1/3			1,			/ 4	-2/+4
	4.2	h ₁	mm		2250 / 2 1620 / 1			2250 /			500	2450
1	4.4	h ₂	mm mm		5150/5			1620, 4975,			770 725	1 765 5475
ł	4.4	h ₄	mm		5780 / 6			5605				6160
	4.7	h ₆	mm		2200			22		9355		2200
l	4.8	h ₇	mm	1050				10)50	1050
ł	4.10	h ₈	mm		330			33			30	330
l	4.19	I ₁		2390 od 2240			2518 od 2368	2445 od. 2295			d. 2406	2564 od. 2414
l	4.20	12	mm	1240	1295		1368	1295	1368		106	1414
S	4.21	b ₁ /b ₂	mm	1240	1250/1		1000	1250,			/1226	1294 / 1226
Dimensions	4.22	s/e/I		50 / 100 / 1150 od. 1000			50/100/11			150 od. 1000	50 / 120 / 1150 od. 1000	
ji.	4.23	0,0,.		2/B			2,			/B	2/B	
ľ	4.24	bз	mm	1040 / 730						/ 650	880 / 650	
İ	4.25	b ₅	mm	620			62			20	620	
İ	4.26	b ₄	mm		914			91			14	914
l	4.28	14	mm	680	625		552	697	626	5	86	771
İ	4.31	m ₁	mm		100			10	00	1	00	100
l	4.32	m ₂	mm		76			7	6	7	76	76
	4.33	Ast	mm	2444	2499)	2572	2495	2568	26	506	2614
	4.34	Ast	mm	2644	2699		2772	2695	2768	28	306	2814
	4.35	Wa	mm		1702)		17	70	17	770	1954
	4.37	l ₇	mm		1870)		19		19	42	2126
l	5.1		km/h	10.6 / 11		1	2/12*	10.4 / 11	12/12*	10.2 / 10.8	12/12*	12/12
l	5.2		m/s		0.32/0			0.28,	0.48	0.26	/ 0.46	0.28 / 0.41
ချွ	5.3		m/s		0.54/0	.46		0.50	/ 0.40	0.50	/ 0.40	0.50 / 0.40
ormance	5.4		m/s		variab			varia			able	variable
erfo	5.7		%		10/1			10/15	9.5 / 15*	10/15	9/15*	9/15
۵	5.8		%		10/1			10/15	9.5/15*	10/15	9/15*	9/15
l	5.9		S	5.6 / 4.9			.2 / 4.6*	5.8 / 5.0	5.5 / 4.7*	6 / 5.2	5.7 / 4.9*	5.6 / 4.9
<u> </u>	5.10				rator / hyd	lrmecl			ydrmechan.		nydrmechan.	Generator / hydrmechan.
S	6.1		kW	5.2			6.0*	5.2	6.0*	5.2	6.0*	6.0
oto	6.2		kW	12.0	150.054		11.5*	12.0	11.5*	12.0	11.5*	11.5
ું	6.2 6.3 6.4 6.5		\/ / A I.	40 / 400 1	IEC 254-		40 / 7001	IEC 25			54-2, C	IEC 254-2, C
ectr	0.4		V / Ah	48 / 420 L	48 / 56		48 / 700L	48 / 560 L	48 / 700L		700L	48 / 700
<u> </u>	6.6		kg	750 4.8	940		1120 5.3 *	940	1120 5.9*	5.6	6.3*	1120
\vdash	6.6 8.1		kWh/h	electronic / ste	nless			5.4		electronic / stepless		6.3 3-phase current*
Ļ.			bar	electronic / Ste	140		ise current		10		40	140
)the	8.2		I / min		18			1			8	18
<u> </u>	8.4		dB(A)		70				0		70	70
Ь—	J.T		עט(ה)		70					/		, 0

FM 251/FM 121 - 251.



Triplex masts.

Model FM 12 / FM 12 i.

Mast tilt forward / backward	degrees	1/3	1/3	1/3	1/3	1/3	1/3	0,5/2	0,5/2
h1 Bauhöhe	mm	2210	2260	2310	2360	2460	2510	2610	2710
h2 Freihub (Anbaugeräte berücksichtigen)	mm	1580	1630	1680	1730	1830	1880	1980	2080
h3 Hub	mm	5090	5240	5390	5540	5840	5990	6290	6590
h4 (Anbaugeräte berücksichtigen)	mm	5720	5870	6020	6170	6470	6620	6920	7720

Model FM 14 / FM 14I and Model FM 17 / FM 17I.

Mast tilt forward / backward	degrees	1/3	1/3	0,5/2	0,5/2	0,5/1	0,5/1	0,5/1	0,5/1
h1 Closed heigh	mm	2250	2450	2700	2900	3200	3400	3600	3900
h2 Free lift (consider attachments)	mm	1620	1820	2070	2270	2570	2770	2970	3270
h3 Lift	mm	5150	5750	6500	7100	7825	8225	8825	9625
h4 (Consider attachments)	mm	5780	6380	7130	7730	8455	8855	9455	10255

Model FM 20 / FM 201.

Mast tilt forward / backward	degrees	1/3	1/3	0,5/2	0,5/2	0,5/1	0,5/1	0,5/1	0,5/1
h1 Closed heigh	mm	2250	2450	2700	2950	3200	3400	3600	3900
h2 Free lift (consider attachments)	mm	1620	1820	2070	2320	2570	2770	2970	3270
h3 Lift	mm	4975	5575	6325	7075	7825	8225	8825	9625
h4 (Consider attachments)	mm	5605	6205	6955	7715	8255	8855	9455	10255

Model FM 20 H / FM 201 H.

Mast tilt forward / backward	degrees	-2/+4	-2/+4	-2/+4	-2/+4	-2/+4	-2/+4	-2/+4	-2/+4
h1 Closed heigh	mm	3600	3700	3900	4000	4100	4400	4700	4900
h2 Free lift (consider attachments)	mm	2970	3070	3270	3370	3470	3770	4070	4270
h3 Lift	mm	8725	9025	9225	9525	9825	10325	10925	11525
h4 (Consider attachments)	mm	9355	9655	9855	10155	10455	10955	11555	12155

Model FM 251.

Mast tilt forward / backward	degrees	- 2 / +4	-2/+4	- 2 / +4	- 2 / +4	-2/+4	-2/+4	- 2 / +4	-2/+4
h1 Closed heigh	mm	2250	2450	2700	2950	3200	3400	3600	3900
h2 Free lift (consider attachments)	mm	1565	1765	2015	2265	2515	2715	2915	3215
h3 Lift	mm	4875	5475	6225	6975	7625	8225	8725	9225
h4 (Consider attachments)	mm	5560	6160	6910	7660	8310	8910	9410	9910

Other standard lift heights (intermediate heights on request)

Equipment summary.

Manufacturer's model designation Adjustable steering wheel position and longitudinal seat setting Comfortable seat with hydraulic dampting Head cushion on leg of overlead guard Head cushion on leg of overlead guard Clear view mast with optimized visibility overhead guard Clear view mast with optimized selectable by driver Electric servo steering Full electric steering 180° Directly splined steering motor (maintenance free) Tiplex clear view mast with special free lift Mast transition damping Integral mast side shifts with mast tilt, movement range 2 x 50 mm Notes optimized by draulic guard view for 2 vary UPA Notes optimized by draulic guard view for a particularly sensitive movements Figure (all view mast view for 8 view of 2 vary VIPA Notes optimized by draulic guard view for a particularly sensitive movements Figure (all view mast view of 2 vary VIPA Notes optimized by draulic guard view of 2 vary VIPA Notes optimized by draulic guard view for a particularly sensitive movements Figure (all view of 2 vary VIPA Notes optimized by draulic guard view of 2 vary VIPA Notes optimized by draulic guard view of 2 vary VIPA Notes optimized by draulic guard view of 2 vary VIPA Notes optimized by draulic guard view of 2 vary VIPA Notes optimized by draulic guard view of 2 vary VIPA Notes optimized by draulic guard view of 2 vary VIPA Notes optimized by draulic guard view of 2 vary VIPA Notes optimized view for particularly sensitive movements Selection specified view of 2 vary VIPA Notes optimized by draulic guard view of 2 vary VIPA Notes optimized view of 2 vary VIPA Notes optimized view of 2 vary VIPA Notes optimized view of 2 vary VIPA Notes op		Manufacturer	STILL	STILL	STILL	STILL	STILL	STILL
Comfortable seat with hydraulic damping		Manufacturer's model designation	FM N	FM	FMı	FM H	FM 201 H	FM 251
Head cushion on leg of everhead guard Head cushion on leg of everhead guard Proportional adjustment of driver's seat and foot plate Clear view mast with optimized visibility overhead guard Egronomic Joystick Individual hydraulic acutation through four individual levers Display: active operating states and service instructions Five four inning travely driving profiles selectable by driver Electric servic steering Electric servic steering 360° Full electric steering 180° Directly splined steering motor (maintenance free) Triplex clear view mast with special free lift Mast transition damping Integral mast side shift with mast tilt, movement range 2 x 50 mm Integral side shifter with fork tilt, movement range 2 x 100 mm Noise optimised hydraulic pump Auxiliary hydraulics, I-way or 2-way UPA Proportional valve for particularly sensitive movements Facility for separate setting of the parameters for the hydraulic functions Joil free, stepless acceleration up to maximum speed The drive motor does not move with the steering, so no load on cable links Monitoring devices: Integral current and temperature sensors, mafunction monitoring Best energy utilisation due to spur bevel gearing Motor torque compensation guarantees staying on track and prevents steering wheel reactions when accelerating and braking Wear-free, generator service brake CAN bus technology Programming facilities for the drive, acceleration and retardation figures Type Can be considered and the staying on track and prevents steering wheel reactions when accelerating and braking Battery extracted by mast reach movement Battery changing using noiler track Additional, integral storage facilities O O O O O O O O O O O O O O O O O O O		Adjustable steering wheel position and longitudinal seat setting	•	•	•	•	•	•
Display: active operating states and service instructions Five (four i hinching travel) driving profiles selectable by driver Electric servo steering Fiul electric steering 180° Directly splined steering motor (maintenance free) Triplex clear view mast with special free lift Mast transition damping Integral mast side shift with mast tilt, movement range 2 x 50 mm Integral mast side shift with fork litt, movement range 2 x 100 mm O O O Noise optimised hydraulic pump Noise optimised hydraulic pump Auxiliary hydraulics, 1-way or 2-way UPA Proportional valve for particularly sensitive movements Jolt-free, stepless acceleration up to maximum speed The drive motor does not move with the steering, son oload on cable links Monitoring devices: Integral current and temperature sensors, maffunction monitoring Best energy utilisation due to spur bevel gearing Motor torque compensation guarantees staying on track and prevents steering wheel reactions when accelerating and braking Wear-free, generator service brake Hydraulic load wheel brake Electric servo steering. Battery extracted by mast reach movement Battery changing using hoist Battery changing using noilet Battery changing using rollet rack Additional, integral storage facilities Load Wheel cover UPA Figure 100 O O O O O O O O O O O O O O O O O O	۔ ا	Comfortable seat with hydraulic damping	•	•	•	•	•	•
Display: active operating states and service instructions Five (four i hinching travel) driving profiles selectable by driver Electric servo steering Fiul electric steering 180° Directly splined steering motor (maintenance free) Triplex clear view mast with special free lift Mast transition damping Integral mast side shift with mast tilt, movement range 2 x 50 mm Integral mast side shift with fork litt, movement range 2 x 100 mm O O O Noise optimised hydraulic pump Noise optimised hydraulic pump Auxiliary hydraulics, 1-way or 2-way UPA Proportional valve for particularly sensitive movements Jolt-free, stepless acceleration up to maximum speed The drive motor does not move with the steering, son oload on cable links Monitoring devices: Integral current and temperature sensors, maffunction monitoring Best energy utilisation due to spur bevel gearing Motor torque compensation guarantees staying on track and prevents steering wheel reactions when accelerating and braking Wear-free, generator service brake Hydraulic load wheel brake Electric servo steering. Battery extracted by mast reach movement Battery changing using hoist Battery changing using noilet Battery changing using rollet rack Additional, integral storage facilities Load Wheel cover UPA Figure 100 O O O O O O O O O O O O O O O O O O	men	Head cushion on leg of overhead guard	•	•	•	•	•	•
Display: active operating states and service instructions Five (four i hinching travel) driving profiles selectable by driver Electric servo steering Fiul electric steering 180° Directly splined steering motor (maintenance free) Triplex clear view mast with special free lift Mast transition damping Integral mast side shift with mast tilt, movement range 2 x 50 mm Integral mast side shift with fork litt, movement range 2 x 100 mm O O O Noise optimised hydraulic pump Noise optimised hydraulic pump Auxiliary hydraulics, 1-way or 2-way UPA Proportional valve for particularly sensitive movements Jolt-free, stepless acceleration up to maximum speed The drive motor does not move with the steering, son oload on cable links Monitoring devices: Integral current and temperature sensors, maffunction monitoring Best energy utilisation due to spur bevel gearing Motor torque compensation guarantees staying on track and prevents steering wheel reactions when accelerating and braking Wear-free, generator service brake Hydraulic load wheel brake Electric servo steering. Battery extracted by mast reach movement Battery changing using hoist Battery changing using noilet Battery changing using rollet rack Additional, integral storage facilities Load Wheel cover UPA Figure 100 O O O O O O O O O O O O O O O O O O	part	Proportional adjustment of driver's seat and foot plate		0	0	0	0	0
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FleetManager O O O O	1		0					UPA
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Cold store cab O O O O	l							
	뉱							0
Hoist limits O O O O	bme	Hoist limits					0	0
Load backrest O O O O	equi				0	0	0	0
Overhead guard with Makrolon cover or mesh grid	ary	Overhead guard with Makrolon cover or mesh grid	0	0	0			0
Flashing light on overhead guard	iii							0
working spot light			0	0		0		0
Lift height preselection system O O	1							0
Height indicator O O O O	1							0
Fork camera via cable or radio								0
Material Flow Management systems O O O O	1							
Drive-in overhead guard O O O O		Drive-in overhead guard	0	0	0	0	0	

• Standard O Option



For further information on the FM please visit: www.still.de/FM

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