

MWSF-1R SERIES

1.4 TO 2.0 TON



Proportional fork control



Increased under clearance
(MWS14/20FA-1R)



Fold up platform & side guards



Battery removal
(MWS14/20F-1R) and clipboard



Greater productivity
(MWS14/20FA-1R)

The MWSF-1R series of trucks has been developed to provide the ultimate in terms of reliability to ensure the greatest degree of operator safety and comfort.

This family of trucks consist of the MWS14/20F-1R models with fixed support arms and the MWS14/20FA-1R models with initial lift offering increased under clearance.

The trucks are designed with a 4 point support chassis, which not only provides excellent traction and stability when turning but also maximises the residual load capacities of the wide range of high visibility masts.

Developed for speedy ride-on transportation, the truck can also be easily adapted for operations in compact areas due to the fold-up platform, positioned close to the ground and features a cushioned, anti slip mat and side guards with polyurethane foam padding.

The Tiller is protected to IP54 standards incorporating the following:

- Traction direction butterfly switch
- Proportional fork lift/lower lever
- Pressure sensitive initial lift buttons (MWS14/20FA-1R)
- Horn & Slow speed button

Electric steering as standard offers a high degree of sensitivity and maximum control of the tiller by turning only 75 degrees from standstill.

The powerful 1.2 kW traction motor

enables speeds of up to 8 km/h whilst under control of the logic unit. Depending upon the position of the platform, side guards, forks and steering angle, the speed is reduced to safe levels. On initial lift models the support arms automatically lower to the ground when the forks are raised. The MWS14FA-1R model has a capacity of 2000 kg in pallet truck mode.

Releasing the traction butterfly triggers the counter-current braking system, while the electromagnetic brake is enabled when the tiller is released and the ignition off.

The following options are available:

- Cold Store version -30 degrees C
- Load Backrest
- On Board Battery Charger
- Adjustable Angular Forks
- Twin Battery Cables
- Optional Fork Lengths and Battery Capacities

Do not hesitate to contact your nearest Komatsu Forklift dealer to arrange a visit by one of our expert team who will analyse your requirements and recommend the best solution for you in terms of investment and application.

Our web site www.komatsuforklift.net provides full information of our dealer network and the complete range of Komatsu Forklift products. You can also gain access to the special reserved sections of the web site for inclusion on our mailing lists which provide up to the minute information on our products and local promotions.

KOMATSU

Part Number: PKSW014EN
Form.No MWS14/20F(A)(1R)-S-E-P-12/03

This brochure may contain equipment that are not available in your area. Please consult your Komatsu Forklift distributor for those items you may require. Materials and specifications are subject to change without notice.

Printed in Italy

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Pedestrian Stacker Truck with Folding Platform with/without initial lift

- Electric Steering as standard
- Complete range of Simplex, Duplex & Triplex Masts
- Ability to increase under clearance due to the initial lift function on the MWS14/20FA-1R models
- Proportional fork lift/lower lever incorporated into the ergonomic tiller
- High Speed Travel when un-laden with advanced safety logic
- Fold up operator platform and side guards for operation in compact area's

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CHARACTERISTICS	Model Designation		MWS14F-1R	MWS20F-1R	MWS14FA-1R	MWS20FA-1R		
	1.2	Model Designation						
1.3	Motive Power Type		Electric					
1.4	Operator Position		Tiller with Platform					
1.5	Rated Capacity	Q (Kg)	Kg	1400	2000	1400 (2000 ⁽¹¹⁾)	2000 (2000 ⁽¹¹⁾)	
1.6	Load Centre	c	mm	600				
1.8	Load Distance from load wheel axle	x	mm	711 ⁽²⁾	706 ⁽²⁾	645 ⁽²⁾⁽¹²⁾	640 ⁽²⁾⁽¹²⁾	
1.9	Wheel Base	y	mm	1323		1359 ⁽¹²⁾		
WEIGHTS	2.1	Service Weight (without battery)	kg	971 ⁽³⁾	1013 ⁽³⁾	1062 ⁽³⁾	1105 ⁽³⁾	
	2.2	Axle loading with Load (driver/load side)	kg	1620 / 1011 ⁽³⁾	2208 / 1101 ⁽³⁾	1619 / 1222 ⁽³⁾⁽¹¹⁾	2194 / 1289 ⁽³⁾⁽¹¹⁾	
	2.3	Axle loading without Load (driver/load side)	kg	338 / 893 ⁽³⁾	368 / 940 ⁽³⁾	358 / 1083 ⁽³⁾⁽¹¹⁾	382 / 1101 ⁽¹¹⁾	
TYRES	3.1	Tyre Type (P=pneum; S=solid; C=elast.cushion)		Polyurethan				
	3.2	Tyre Size, driver side (dia. x width)	mm	230 / 140				
	3.3	Tyre Size, load side (dia. x width)	mm	85 <—> 90	85 <—> 70	85 <—> 70		
	3.5	Number of Wheels (x-driven), driver/load side		2 / 1x-1	4 / 1x-1	4 / 1x-1		
	3.6	Tread, driver side	b ₁₀	mm	380			
	3.7	Tread, load side	b ₁₁	mm	578			
DIMENSIONS	4.2	Mast Height, lowered	h ₁	mm	2327		2332	
	4.3	Free Lift	h ₂	mm	140	90	140	90
	4.4	Lift Height	h ₃	mm	3580			
	4.5	Mast Height, height	h ₄	mm	4066 ⁽⁴⁾	4088 ⁽⁴⁾	4070 ⁽⁴⁾	4092 ⁽⁴⁾
	4.6	Initial Lift	h ₅	mm	/		135	
	4.9	Height of Tiller in Drive Position (min./max.)	h ₁₄	mm	1145 / 1342			
	4.15	Height Lowered	h ₁₃	mm	86		91	
	4.19	Overall Length with forks 1150mm ^	l ₁	mm	2049 / 2376	2064 / 2381	2161 / 2485	2168 / 2492
	4.20	Length to front Face of Forks °	l ₂	mm	899 / 1226	914 / 1231	1007 / 1330	1012 / 1335
	4.21	Overall Width	b ₁	mm	860			
	4.22	Fork Dimensions: thickness/width/length		mm	66 / 190 / 1150	61 / 200 / 1150	66 / 190 / 1150	61 / 200 / 1150
	4.24	Carriage Width	b ₃	mm	680			
	4.25	Width over Forks	b ₅	mm	570			
	4.31	Ground Clearance, Chassis, with Load	m ₁	mm	/			
	4.32	Ground Clearance at Centre of Wheelbase	m ₂	mm	30		25 / 160 ⁽¹²⁾	
4.33	Aisle Width with Pallet °	Ast ₃	mm	2499 / 2801	2555 / 2857	2572 / 2870 ⁽¹²⁾	2575 / 2873 ⁽¹²⁾	
4.34	Aisle Width with Pallet °	Ast ₃	mm	2465 / 2769	2554 / 2856	2559 / 2857 ⁽¹²⁾	2563 / 2861 ⁽¹²⁾	
4.35	Outer Turning Radius platform closed/open	Wa	mm	1633 / 1937		1675 / 1973 ⁽¹²⁾		
PERFORMANCES	5.1	Travel Speed (loaded/unloaded)	km/h	6,5 / 8		5 / 8		
	5.2	Lifting Speed (loaded/unloaded)	m/s	0,16 / 0,26 ⁽⁸⁾		0,10 / 0,17		
	5.3	Lowering Speed	m/s	0,40 / 0,36		0,30 / 0,23		
	5.7	Gradeability KB 30' (loaded/unloaded)	%	1,3 / 4,8 ⁽⁹⁾		0,4 / 4,1 ⁽³⁾		
	5.8	Max. Gradeability KB 5' (loaded/unloaded)	%	3,9 / 9,1 ⁽³⁾⁽¹⁰⁾		2,8 / 9,1 ⁽³⁾⁽¹⁰⁾		
	5.10	Brake Type (parking/service)		Electric				
EL. MOTORS	6.1	Drive Motor, output S2 60 min. rating	kW	1,2				
	6.2	Hydraulic Motor, output S3 15 % duty factor	kW	2,2 (5) / 3		3		
	6.3	Battery to DIN 43531/35/36/A,B,C,no		DIN Elements		DIN 43535 B		
	6.4	Battery Voltage, Nom. Capacity K5 (option)	V/Ah	24 / 240 (315-375)		24 / 315 (375)		
	6.5	Battery Weight (min.) +/- 5% (option)	kg	260 (295 - 304)		295 (304)		
OTHERS	8.1	Type of Control		Electronic				
	8.4	Noise Level at Driver's Ear	dB(A)	< 70				

A= platform closed/open
B= platform closed/open

C= (1000x1200mm) (l6 x b12) 1200 side platform closed/open
D= (800x1200mm) (l6 x b12) 800 side platform closed/open

(1) when used as transpallet, without lifting

(2) -20 mm with TFV mast

(3) with FV mast 3580mm and lowest capacity battery (check point 6.5)

(4) + 490 mm with load backrest

(5) for mast with h3 >= 3580

(6) mast not available for MWS14/20FA-1R

(7) + 5 mm for MWS14/20FA-1R

(8) with 3 kW hydraulic motor

(9) max. gradeability unladen allowed by truck design: 18,3%

(10) max. gradeability unladen allowed by truck design: 9,1%

(11) values with lowered straddles

(12) values with lifted straddles

Mast Specifications

Model	Mast type	Battery Capacity	h ₃ mm	h ₁ mm	h ₄ mm	h ₂ mm	Preferred Not Preferred	Residual Capacity (kg) @ LC (mm) (h ₃ -h ₁₃)				
								400	500	600	700	800
MWS14F-1R	SX	≥ 240 Ah	1510	1977	1491	1996	P	1.400	1.400	1.400	KD	KD
		≥ 240 Ah	1660	2132	1646	2146	N.P.	1.400	1.400	1.400	KD	KD
		≥ 240 Ah	1810	2282	1796	2296	N.P.	1.400	1.400	1.400	KD	KD
	FV	≥ 240 Ah	2480	1777	140	2966	N.P.	1.400	1.400	1.400	KD	KD
		≥ 240 Ah	2900	1977	140	3386	P	1.400	1.400	1.400	1.200	1.050
		≥ 240 Ah	3280	2177	140	3766	N.P.	1.400	1.350	1.250	1.100	1.000
		≥ 240 Ah	3580	2327	140	4066	P	1.350	1.250	1.150	1.050	950
		≥ 240 Ah	3980	2527	140	4466	P	1.250	1.150	1.050	950	850
		≥ 240 Ah	4480	2777	140	4966	P	1.050	950	850	750	650
	FFV	≥ 240 Ah	2590	1777	1291	3076	N.P.	1.400	1.400	1.400	KD	KD
		≥ 240 Ah	2990	1977	1491	3476	P	1.400	1.400	1.400	1.200	1.050
		≥ 240 Ah	3300	2177	1660	3786	N.P.	1.400	1.350	1.250	1.100	1.000
		≥ 240 Ah	3600	2327	1810	4086	P	1.350	1.250	1.150	1.050	950
		≥ 240 Ah	3870	1777	1291	4356	N.P.	1.250	1.150	1.050	950	850
		≥ 240 Ah	4170	1877	1391	4656	P	1.150	1.050	950	850	750
	TFV	≥ 240 Ah	4470	1977	1491	4956	P	1.050	950	850	750	650
		≥ 240 Ah	4940	2177	1660	5426	P	900	800	700	600	500
		≥ 240 Ah	5390	2327	1810	5876	P	750	650	600	450	350
≥ 315Ah		2560	1807	90	3068	N.P.	2.000	1.975	1.925	1.700	1.500	
MWS20F-1R	FV	≥ 315Ah	2900	1977	90	3408	P	1.900	1.800	1.700	1.600	1.500
		≥ 315Ah	3280	2177	90	3788	N.P.	1.700	1.600	1.500	1.400	1.300
		≥ 315Ah	3580	2327	90	4088	P	1.550	1.450	1.350	1.250	1.150
	FFV	≥ 315Ah	2590	1807	1299	3098	N.P.	2.000	1.975	1.925	1.700	1.500
		≥ 315Ah	2930	1977	1469	3438	P	1.850	1.750	1.650	1.550	1.450
		≥ 315Ah	3270	2177	1630	3778	N.P.	1.700	1.600	1.500	1.400	1.300
TFV	≥ 315Ah	3570	2327	1780	4078	P	1.550	1.450	1.350	1.250	1.150	
	≥ 315Ah	3870	1807	1299	4378	N.P.	1.400	1.300	1.200	1.100	1.000	
	≥ 315Ah	4170	1907	1399	4678	N.P.	1.250	1.150	1.050	950	850	
MWS14FA-1R	FV	≥ 240Ah	2900	1982	140	3391	P	1.400	1.400	1.400	1.200	1.050
		≥ 240Ah	3280	2182	140	3771	N.P.	1.400	1.350	1.250	1.100	1.000
		≥ 240Ah	3580	2332	140	4071	P	1.350	1.250	1.150	1.050	950
	FFV	≥ 240Ah	3980	2532	140	4471	P	1.250	1.150	1.050	950	850
		≥ 240Ah	4480	2782	140	4971	P	1.050	950	850	750	650
		≥ 240Ah	2990	1982	1491	3481	P	1.400	1.400	1.400	1.200	1.050
		≥ 240Ah	3300	2182	1660	3791	N.P.	1.400	1.350	1.250	1.100	1.000
		≥ 240Ah	3600	2332	1810	4091	P	1.350	1.250	1.150	1.050	950
		≥ 240Ah	4170	1882	1391	4661	P	1.150	1.050	950	850	750
	TFV	≥ 240Ah	4470	1982	1491	4961	P	1.050	950	850	750	650
		≥ 240Ah	4940	2182	1660	5431	P	900	800	700	600	500
		≥ 315Ah	2900	1982	90	3413	P	1.900	1.800	1.700	1.600	1.500
MWS20FA-1R	FV	≥ 315Ah	3280	2182	90	3793	N.P.	1.700	1.600	1.500	1.400	1.300
		≥ 315Ah	3580	2332	90	4093	P	1.550	1.450	1.350	1.250	1.150
		≥ 315Ah	2930	1982	1469	3443	P	1.850	1.750	1.650	1.550	1.450
	FFV	≥ 315Ah	3270	2182	1630	3783	N.P.	1.700	1.600	1.500	1.400	1.300
		≥ 315Ah	3570	2332	1780	4083	P	1.550	1.450	1.350	1.250	1.150
		≥ 315Ah	4380	1982	1469	4893	P	1.150	1.050	950	850	750

