

MWS-1R^{AC} SERIES

Pedestrian Stacker
1.0 – 1.2 ton

Dear Colleagues,

Komatsu Division continues the renewal of key products by introduction of new MWS-1R^{ac} power pedestrian stacker truck available in 1.0 and 1.2 ton.

- **AC traction motor**
- Available with **fixed forks** or **adjustable spread forks**.
- Scheduled **maintenance** after **1000 hours**.





SPEC SHEETS OF TRUCK

CHARACTERISTICS	12 Model Designation			MWS10-1R**	MWS12-1R**	MWS10-1R** ASF	MWS12-1R** ASF	
	13 Motive Power Type				Electric			
	14 Operator Position			Pedestrian with Tiller Arm				
	15 Rated Capacity	Q (t)	t	1,05	1,2	1,05	1,2	
	16 Load Centre	c	mm	600				
	18 Load Distance	x	mm	756 ⁽¹⁾		727 ⁽¹⁾		
	19 Wheel Base	y	mm	1298				
WEIGHTS	21 Service Weight without battery		kg	743		779		
	22 Axle loading with Load (driver/load side) (1)		kg	782 / 1163	832 / 1302	765 / 1216	809 / 1361	
	23 Axle loading without Load (driver/load side)		kg	656 / 239	688 / 246	675 / 255	707 / 263	
TYRES	31 Tyre Type (P=pneum; S=solid; C=select.cushion)			Polyurethane				
	32 Tyre Size, driver side		mm	230 / 120				
	33 Tyre Size, load side		mm	85 ↔ 90				
	35 Number of Wheels (p=driven), driver/load side			1x-1 / 2				
	36 Tread, driver side	b ₁₀	mm	505				
	37 Tread, load side	b ₁₁	mm	397				
DIMENSIONS	42 Mast Height, lowered	h ₁	mm	2350				
	43 Free Lift	h ₂	mm	120				
	44 Mast Lift Height	h ₃	mm	2600				
	45 Mast Raised Height	h ₄	mm	4110 ⁽¹⁾			4220 ⁽¹⁾	
	46 Initial Lift	h ₅	mm	/				
	49 Height of Tiller in drive Position (min./max.)	h ₁₄	mm	762 / 1232				
	415 Height Lowered	h ₁₃	mm	85			90	
	419 Overall Length	l ₁	mm	1869 ⁽¹⁾			1914 ⁽¹⁾	
	420 Length to front Face of Forks	l ₂	mm	719 ⁽¹⁾			764 ⁽¹⁾	
	421 Overall Width	b ₁	mm	790				
	422 Fork Dimensions: thickness/width/length		mm	56 / 175 / 1150		80 / 105 / 1150		
	424 Carriage Width	b ₃	mm	660		700		
	425 Width over Forks	b ₅	mm	570		580 min - 658 max ⁽⁴⁾		
	431 Ground Clearance, Chassis, with Load	m ₁	mm	/				
	432 Ground clearance, chassis, with load	m ₂	mm	29				
433 Aisle Width with Pallet (1000x1200mm) (I6x12)	Ast ₃	mm	2438 ⁽¹⁾⁽⁵⁾			2456 ⁽¹⁾⁽⁵⁾		
434 Aisle Width with Pallet (800x1200mm) (I6x12)	Ast ₃	mm	2338 ⁽¹⁾⁽⁵⁾			2422 ⁽¹⁾⁽⁵⁾		
435 Outer Turning Radius (min.)	W ₃	mm	1590 ⁽¹⁾					
PERFORMANCES	51 Travel Speed (loaded/unloaded)		km/h	5,5 / 5,5				
	52 Lifting Speed (loaded/unloaded)		m/s	0,13 / 0,21	0,17 / 0,3	0,13 / 0,21	0,17 / 0,3	
	53 Lowering Speed		m/s	0,13 / 0,21	0,17 / 0,3	0,13 / 0,21	0,17 / 0,3	
	57 Gradeability (loaded/unloaded)		%	6,7 / 9,0 ⁽⁶⁾	5,8 / 9,0 ⁽⁶⁾	6,1 / 9,0 ⁽⁶⁾	5,3 / 9,0 ⁽⁶⁾	
	58 Max.gradeability (loaded/unloaded)		%	8 / 9 ⁽⁶⁾	7 / 9 ⁽⁶⁾	8 / 9 ⁽⁶⁾	7 / 9 ⁽⁶⁾	
	510 Brake Type (parking/service)			Electric Regenerative when releasing the butterfly				
EL. MOTORS	61 Drive Motor, output 82 60 min		kW	1				
	62 Hydraulic Motor, output 83 15%		kW	2,2 ⁽⁷⁾				
	63 Battery to DIN 43531/35/36/A, B, C, no			British Standard				
	64 Battery Voltage, Nom. capacity K5		V/Ah	24/140 (200-300)	24/200 (300)	24/140 (200-300)	24/200 (300)	
	65 Battery Weight (min.)		kg	152 (191-250)	191 (250)	152 (191-250)	191 (250)	
OTHERS	81 Type of Control, drive/hydraulic			MOSFET				
	84 Noise Level at Driver's Ear		dB(A)	< 70				

(1) with protection for bulkyloads + 502 mm

(2) 1,5 kW for Mono mast

(3) with tiller always active - 45 mm

(4) max gradeability permitted by truck geometry

(5) with Mono mast +21 mm; with TF/mast +21 mm

(6) with Mono mast -21 mm; with TF/mast +21 mm

(7) optional 3kW for FFV/TFV mast

(8) with forks external to the straddle (internal straddle gauge = 270 mm);

with forks internal to the straddle the internal straddle gauge = 210 mm - 134 mm (external straddle gauge = 524 mm)



MAST DATA SHEET

Model	Mast Type	Battery Capacity	h ₂ mm	h ₁ mm	h ₂ mm	h ₄ mm	Residual Capacity (kg) @ LC (mm) (h3-h13)
MWS10-1R ^{ac}	SX	≥ 140 Ah	1600	2269	1789	2310	1050
	FV	≥ 140 Ah	2500	1969	120	3410	1050
		≥ 140 Ah	3600	2349	120	4110	950
	FPV	≥ 140 Ah	2500	1953	1443	3410	1050
		≥ 140 Ah	3600	2303	1793	4110	950
	TPV	≥ 140 Ah	4100	1870	1360	4610	850
		≥ 140 Ah	4305	1939	1428	4815	800
	MWS12-1R ^{ac}	SX	≥ 200 Ah	1600	2269	1789	2310
FV		≥ 200 Ah	2500	1969	120	3410	1200
		≥ 200 Ah	3600	2349	120	4110	1050
FPV		≥ 200 Ah	2500	1953	1443	3410	1200
		≥ 200 Ah	3600	2303	1793	4110	1050
TPV		≥ 200 Ah	4100	1870	1360	4610	900
		≥ 200 Ah	4305	1939	1428	4815	850