

TECHNICAL DATA

LET FIGURES SPEAK FOR THEMSELVES

CHARACTERISTICS AND PERFORMANCE	50.10 S	38.14 38.14 S	38.16 38.16 S	45.19	45.21	50.16 MCSS	45.19 MCSS	45.21 MCSS	60.24 MCSS	40.26 MCSS	40.30 MCSS
Total weight unladen, with forks (kg)	11800	11900 ⁽¹⁾	12100 ⁽¹⁾	14650	15050	14750	14950	15050	18750	16050	19200
Maximum load capacity (kg)	5000	3800	3800	4500	4500	5000	4500	4500 ⁽²⁾	6000	4000	4000
Maximum lift height (m)	10.4	13.9	15.7	18.7	20.8	16.4	18.7	20.8 ⁽²⁾	23.9	26	29.5
Maximum forward reach (m)	7.6	11	13	15.8	18	13.4	15.9	18	20.8	22.9	25.5
Lift height at maximum load capacity (m)	9.1	9.7	9.8	10.9	10.6	10.9	11	10.7	12	13.6	19.4
Forward reach at max. load capacity (m)	4.8	5.5	5.5	7	7.1	6.1	7.6	7.6	7	8.2	10.5
Load capacity at maximum height (kg)	4000	2500	2500	3000	2500	3000	3000	2500	3000	1500	1500
Load capacity at max. forward reach (kg)	2000	1100	700	650	600	1300	900	750	850	150	400
Turret rotation (degrees)	415 ⁽³⁾			600 ⁽³⁾		Continuous					
Engine (make/cylinder)	Perkins/4			Deutz/4		Iveco/6					
Tier 3 engine power (kW/HP)	74.5/101			88/120		107/145			129/175	107/145	129/175
Fuel capacity (l)	150	150	150	150	150	150	150	150	150	150	150
Speed in the 1 st gear (kph)	11	11 ⁽⁴⁾	11 ⁽⁴⁾	7	7	16	16	16	16	16	16
Speed in the 2 nd gear (kph)	40	40 ⁽⁵⁾	40 ⁽⁵⁾	25	25	40	40	40	40	40	40
Load-Sensing hydraulic system (bar/l/min)	210-108			240-115		240-108			240-124	240-108	240-124
Hydraulic oil capacity (l)	130	130	130	160	160	160	160	160	160	160	160
Electrical circuit (V)	12	12	12	12	12	12	12	12	12	12	12
Battery (Ah)	160	160	160	160	160	160	160	160	160	160	160
Hydraulically controlled stabilisers	● ⁽⁶⁾	● ⁽⁶⁾	● ⁽⁶⁾	● ⁽⁶⁾	● ⁽⁶⁾	●	●	●	● ⁽⁶⁾	●	● ⁽⁶⁾
Hydropneumatic suspension	●	● ⁽⁷⁾	● ⁽⁷⁾	-	-	●	●	●	●	●	●
Cab compliant with FOPS standards	●	●	●	●	●	●	●	●	●	●	●
Tilting cab	-	-	-	-	-	-	-	-	●	●	●
Merlin electronic control system	-	-	-	-	-	●	●	●	●	●	●
Electro-mechanical joystick controls	●	●	●	●	●	-	-	-	-	-	-
Electronic joystick controls	-	-	-	-	-	●	●	●	●	●	●
Tac-Lock attachment coupling	● ⁽⁸⁾	● ⁽⁸⁾	● ⁽⁸⁾	● ⁽⁸⁾	● ⁽⁸⁾	● ⁽⁹⁾	● ⁽⁸⁾	● ⁽⁸⁾	● ⁽⁸⁾	● ⁽⁸⁾	● ⁽⁸⁾
Auxiliary boom hydraulic service	●	●	●	●	●	●	●	●	●	●	●
Two floating forks (1,200 mm long)	●	●	●	●	●	●	●	●	●	●	●
Hydrostatic transmission	●	●	●	●	●	●	●	●	●	●	●
Hydrostatic oil capacity (l)	12	12	12	12	12	12	12	12	12	12	12
Finger-Touch direction reversing control	●	●	●	●	●	●	●	●	●	●	●
Permanent four-wheel drive	●	●	●	●	●	●	●	●	●	●	●
Four wheel steering	●	●	●	●	●	●	●	●	●	●	●
Service disk brakes on all wheels	●	●	●	●	●	●	●	●	●	●	●
Automatically locking parking brake	●	●	●	●	●	●	●	●	●	●	●
Tyres	405/70-20			18-22.5			445/65-22.5			18-22.5	445/65-22.5
Radio remote control	○	○	○	○	○	○	○	○	○	○	○
Pneumatic seat	○	○	○	○	○	●	●	●	●	●	●
Rear differential lock	○	○	○	○	○	○	○	○	○	○	○
Four cab working lights (2 f. + 2 r.)	○	○	○	○	○	○	○	○	○	○	○
Manual air conditioning system	○	○	○	○	○	○	○	○	○	○	○
Roof window wiper	○	○	○	○	○	○	○	○	○	○	○
Manual battery isolator	○	○	○	○	○	○	○	○	○	○	○
Front and roof sun shade	○	○	○	○	○	○	○	○	○	○	○

Performance figures refer to the machine equipped with forks, operating on stabilisers.

(1) S version only. The basic model weighs 350 kg less; (2) Tower-Jib version with maximum lift capacity of 800 kg and maximum lift height of 31.7 m;

(3) ±208° / ±300° with reference to the longitudinal axis of the machine; (4) S version only. The basic model features 7 kph maximum speed;

(5) S version only. The basic model features 25 kph maximum speed; (6) Stabilising and levelling can be performed automatically;

(7) S version only. The basic model has no hydropneumatic suspension; (8) ZM2 version front tool holder; (9) ZM3 version front tool holder.

● Standard. ○ Optional.

The Roto telehandlers described in this document may feature optional or special equipments which are not part of the standard equipment and are supplied upon request. Not all models or versions are available in all countries, due to regulatory restrictions. For further information on models and their equipment please contact your Merlo dealer. Information and technical data are those available at the time of printing. Merlo reserves the right to modify and update the contents of this document following technological evolution.