

Medium Capacity Telehandlers

Regulatory area: AU

TF42.7





Comfort: The best workplace



Exclusive comfort

An unprecedented design guarantees maximum functionality and comfort; grouping the information provided to the driver and the controls of the various systems and devices for optimal ergonomics. The reverse shuttle on the steering wheel is also present on the joystick.

Cab entry

To ensure simple and easy access to the cab, the door of Merlo telehandlers can be opened by up to 180°. In addition, the inside of the door is equipped with a large handrail to help the operator when getting inside and outside of the cab.

Air-conditioning

Developed according to automotive standards, cutting the warm-up and cool-down times in half compared to a conventional air conditioning system. The inlet vent is placed on the side of the cab, away from potential sources of dust and dirt, while inside there are 8 vents.

Efficiency: Simpler and smarter



Transmission

In order to ensure a reduction in consumption and operating costs, Merlo telescopic handlers boast full electronic management of the transmission and engine, in order to minimise RPM and, consequently, fuel demand.

Steering Modes

The axles ensure the maximum steering angle to perform manoeuvres in tight spaces. Additionally, the operator can manage the steering of the machine with three different options according to the specific needs of the job.

Visibility

Merlo's improved visibility increases range of movement and safety for operators.

Performance: Everything at your fingertips



Transmission

The Merlo telehandlers have excellent braking capacity when the accelerator pedal is released, guaranteeing high torque to the wheels during material handling and transfers, as well as millimetric precision of movements when positioning the load.

Engines

All models feature a combustion engine in an original Merlo mounting layout, developed by Merlo with the invention of the panoramic visibility models, ensuring maximum accessibility to components in case of programmed and/or extraordinary maintenance.

Axles

The exclusively designed axles are manufactured and developed in-house by Merlo, and can be equipped with differential lock to ensure traction on any terrain, regardless of how unstable.

Safety: Not just feelings



Active safety

In order to remain fully compliant with regulations in frontal tipping prevention, Merlo handlers are equipped with features developed specifically to keep the operator safe from frontal tipping, without sacrificing performance, particularly of boom speed and lifting capacity.

Aerial work platform

The Merlo telehandlers can be configured with aerial work platform. This solution, complying with EN280 standard, assures an increased level of active and passive safety during work at heights, and enhances machine versatility.

Certified cab

All Merlo telehandlers have a metal structure above the glass roof on the outside of the cab to comply fully with FOPS Level II standard, the most stringent certification level in protecting the operator from falling objects.



1 - 180° OPENING

A door that made history! Merlo is the only manufacturer to offer a door with 180° split opening. Standard on the entire range.

2 - EPD ECO POWER DRIVE

Maximum savings and efficiency! The Merlo-patented EPD system electronically controls engine and transmission. It manages engine speed, hydrostatic pump flow rate, and hydrostatic drive displacement, maximising efficiency and reducing RPM, saving up to 18% in fuel consumption.

3 - GROUND CLEARANCE

In the field as in the yard, you can not let obstacles stop you. A ground clearance of up to 460 cm allows maximum agility also on uneven terrain.

	PERFORMANCE AND FEATURES	TF42.7-116EE		
	Performance			
	Unladen weight (kg)	7700		
	Maximum load capacity (kg)	4050		
	Lift height (m)	7		
	Maximum reach (m)	3.9		
	Lift height at max. load capacity (m)	5.7		
	Reach at max. load capacity (m)	1.5		
	Load capacity at max. lift height (kg)	3000		
	Load capacity at max. reach (kg)	1600		
	Boom side-shift (mm)	—		
	Frame levelling (%)	—		
	Boom section	2		
	Powertrain			
	Engine	Perkins 904J		
	Range/Cylinders (cc)	3600/4		
	Engine power (kW/HP)	85,9/116,8		
	Anti-pollution technology	Tier 3		
	Reversible Fan	●		
	Maximum speed (km/h)	40		
	Fuel tank capacity (l)	140		
	AdBlue tank capacity (l)	—		
	Hydrostatic transmission	●		
	EPD	PLUS		
	Electronic joystick	●		
	Axles	Drop portal		
	Reducers	RR 700		
	Brakes	Dry disc		
	Automatic parking brake	●		
	Hydraulic			
	Hydraulic pump	LS+FS		
	Delivery / pressure (bar-l/min)	151-250		
	Hydraulic oil tank capacity (l)	100		
	Auxiliary hydraulic service on boom	●		
	Rear service line	○		
	Cab			
	Cab finishing	Standard		
	ASCS	Light		
	FOPS II Cab	●		
	ROPS Cab	●		
	Controls	Electronic joystick		
	Tilting cab	—		
	Reverse shuttle	Dual reverse		
	Configuration			
	Hydropneumatic Suspension CS Merlo	—		
	Hydropneumatic Suspension BSS Merlo	○		
	Hydropneumatic Suspension EAS Merlo	—		
	Work lights on cab	○		
	Sun-shade in the cab	○		
	Tac-lock	●		
	Pre-arrangement for aerial work platform	○		
	Two floating forks	●		
	Pedal Inching-Control	●		
	Permanent four-wheel drive	●		
	All wheel steering	●		
	Three steering way	●		
	Standard tyres	400/70-24		
	OPT tyres	460/70-R24		
	Hydraulically controlled stabilizers	—		
	Turret rotation	—		
	Tractor type approval	—		
	Pneumatic brakes (ton)	○		
	Hydraulic brakes (ton)	○		
	PTO	—		
	3-point rear linkage	—		

— not available
 ● standard
 ○ optional

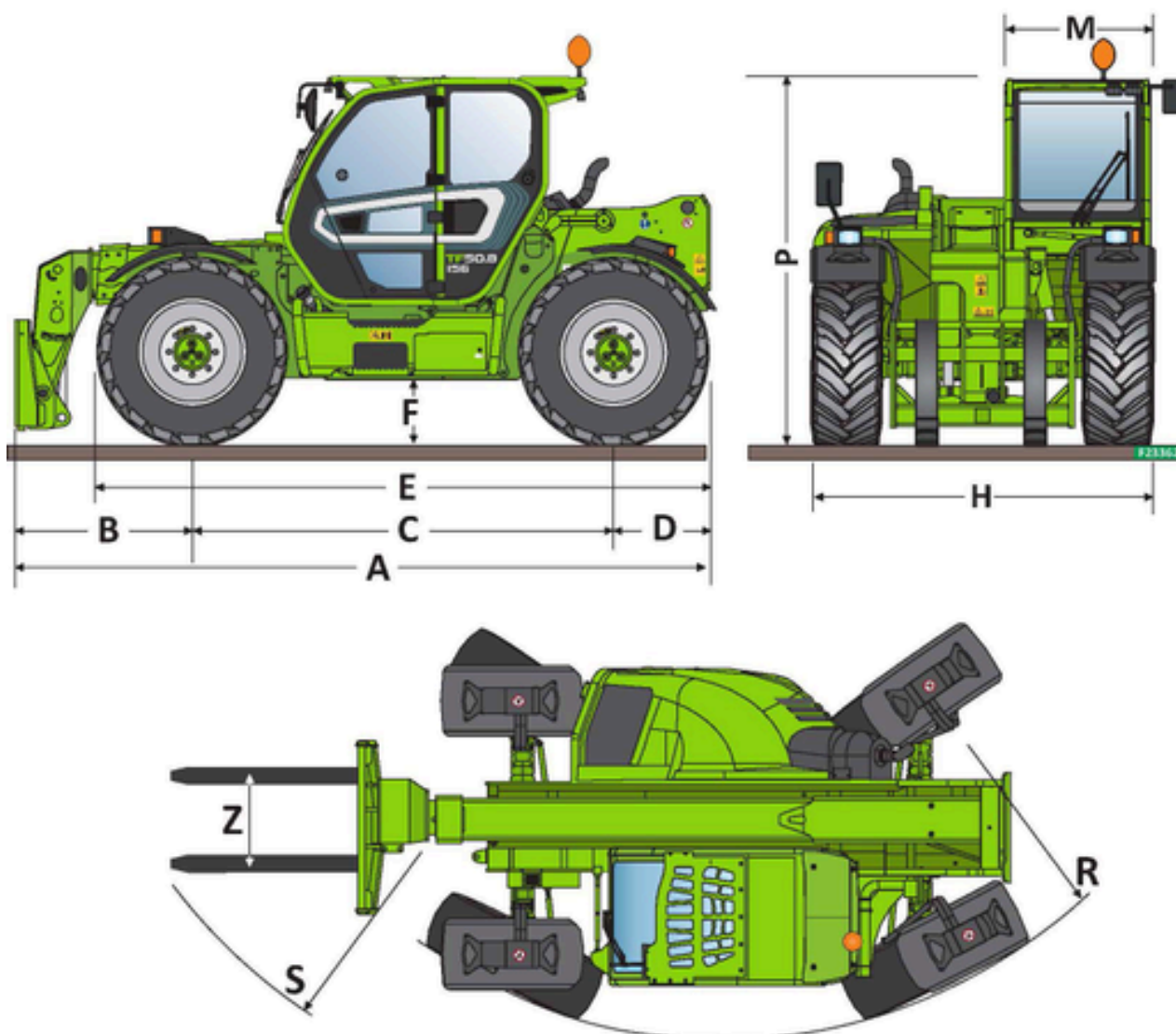
Dimensions



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A - Length	4730
C - Wheelbase	2810
F - Ground clearance	460
H - Width	2310
M - Cabin width	1010
P - Height	2530
R - Turning radius at wheels	3985
S - Turning radius at forks	4800

Technical Details

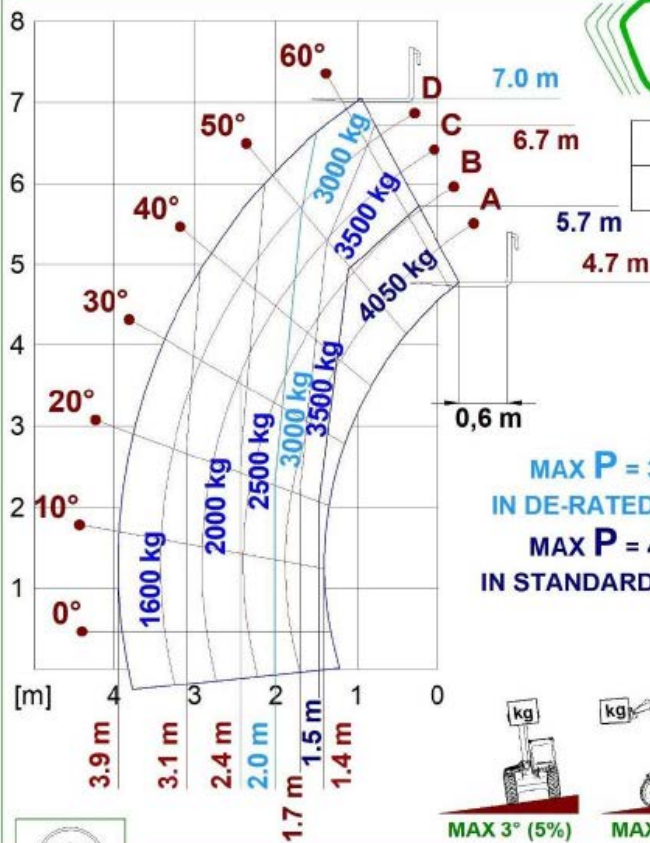


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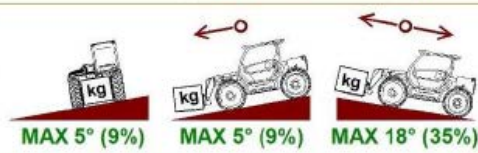
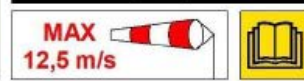


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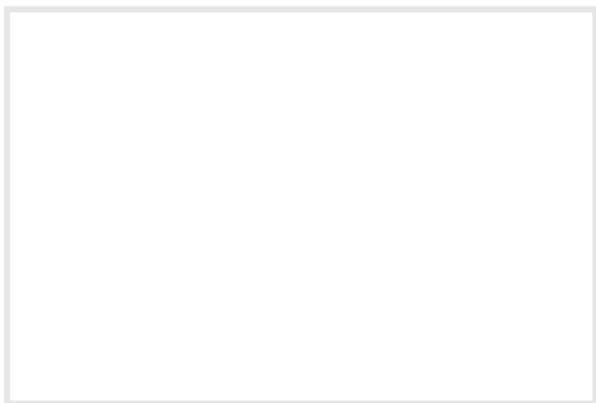


AS 10896.1 + ISO 22915-14



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