# Stabilized telehandlers

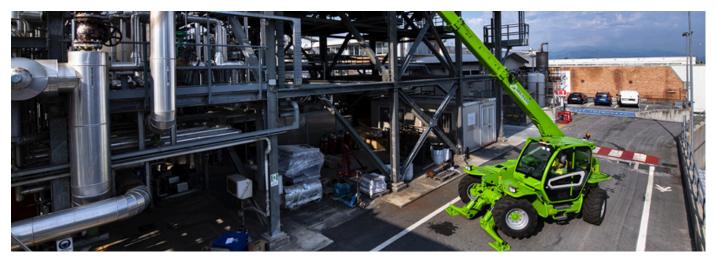
Regulatory area: NA

P40.13















# **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 - ASCS	The ASCS safety system: the ideal assistant! The system adjusts the speed and maximum extent of the movements based on the attachments in use, the load being handled and its position, thus eliminating the risk of overturning. Standard on the entire range with LS hydraulic system.
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 - STABILISERS REMAINING WITHIN MACHINE SIZE	Stabilising the machine is essential for safe working. Stabilisers remaining in the outline of the machine allow stabilisation even in the tightest spaces, while also ensuring excellent visibility when travelling. Standard on the entire range of Stabilised telehandlers.
4 - BOOM SIDE-SHIFT	Having to reposition the machine, especially after it has already been stabilised, can be a waste of time. Thanks to the boom side-shift, you can pick up or place the load precisely, without any further manoeuvring, for maximum productivity. Standard on the Stabilised, Medium Capacity range in the TT and Panoramic High Capacity models.













Performance	PERFORMANCE AND FEATURES	P40.13EE4	P40.13PLUS
Maximum load capacity (ib)	Performance		
Lift height (ft)	Unladen weight (lb)	20503	20503
Maximum reach (ft)	Maximum load capacity (lb)	8800	8800
Lift height at max. load capacity (ft)   35° 0"   35° 0"   11° 0	Lift height (ft)	41' 0''	41' 0''
Reach at max. load capacity (ft)	Maximum reach (ft)	28' 7''	28' 7''
Lead capacity at max. lift height (fr)  load capacity at max. reach (lb)  2100  210	Lift height at max. load capacity (ft)	35' 0''	35' 0''
Ladic capacity at max. reach (b)   2100   2100	Reach at max. load capacity (ft)	11' 0''	11' 0''
Boom side-shift (mm)	Load capacity at max. lift height (ft)	8000	8000
Frame levelling (%)	Load capacity at max. reach (lb)	2100	2100
Boom section   Same   Schief KDI 2504   Perkins 904    Range(Cylinders   2500/4   3600/4	Boom side-shift (mm)	+/- 13,4	+/- 13,4
Powertain   Regime	Frame levelling (%)	+/- 8	+/- 8
Engine (	Boom section	3	3
Range/Cylinders	Powertrain		
Engine power (kWhP) Anti-pollution technology Tier 4 - DOC Tier 4 Anti-pollution technology Tier 4 - DOC Tier 4 Acversible Fan  Amaximum speed (mph) 20.5 25 Fuel tank capacity (gai) 37 37 37 AdBille tank capacity (gai) 4.8 Hydrotalic transmission EPD STD Plus Electronic joystick STD STD STD Acles Aportale Ap	-	Kohler KDI 2504	Perkins 904J
Anti-pollution technology  Reversible Fan  ■	Range/Cylinders	2500/4	3600/4
Reversible Fam	Engine power (kW/HP)	55,4/75,1	85,9/115
Maximum speed (mph)         20.5         25           Fuel tank capacity (gal)         37         37           ABBlue tank capacity (gal)         -         4.8           Hydrostatic transmission         —         —           EPD         STD         Plus           Electronic joystick         STD         STD           Axles         A portale         A portale           Reducers         RR 700         RR 700           Brakes         Dry discs         Dry discs           Automatic parking brake         —         —           Hydraulic         —         —           Hydraulic pump         LS         LS           Hydraulic oil tank capacity (gal)         25.4         26.4           Hydraulic service on boom         —         —           Rear service line         —         —           Cab         —         —           Cab         —         —           Cab finishing         ECO         ECO           ASCS         Light         Completo           COPS II Cab         —         —           RoPS Cab         —         —           Controls         Electronic joystick control         <	Anti-pollution technology	Tier 4 - DOC	Tier 4
Fuel tank capacity (gal)  AdBlue tank capacity (gal)  -	Reversible Fan	•	•
AdBlue tank capacity (gal)  Hydrostatic transmission  EPD  STD  STD  Plus  Electronic joystick  Ales  A portale  BR700  BR700  BR300  BR700  BR300  BR	Maximum speed (mph)		25
Hydrostatic transmission	Fuel tank capacity (gal)	37	37
Electronic joystick	AdBlue tank capacity (gal)	-	4.8
Electronic joystick  Ayles  A portale  A portale  A portale  RR 700  RR700  Brakes  Dry discs  Dry discs  Automatic parking brake  Hydraulic  Hydraulic  Hydraulic pump  LS  Els  LS  Delivery / pressure (bac-l/min)  Rear service line  Cab  Cab  Cab  Cab finishing  ECO  ASCS  Light  Completo  FOPS II Cab  ROPS Cab  Controls  Electronic joystick control  Electronic joystick control  Electronic poystick control  Electronic poystick control  Flydropneumatic Suspension CS 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  Under the real control  Floraging and the scale  Tireter totaltion  Tractor type approval  Froe Hydropneus torus (con)  Floraging to approval  Floraging to approval  Frederic Trype app	Hydrostatic transmission	•	•
Axies	EPD	STD	Plus
Reducers         RR 700         RR700           Brakes         Dry discs         Dry discs           Automatic parking brake         Image: Comparison of the parking brake           Hydraulic pump         LS         <	Electronic joystick	STD	STD
Brakes	Axles	A portale	A portale
Automatic parking brake  Hydraulic pump  LS  L5  Delivery / pressure (bar-l/min)  27,5 - 3626  Hydraulic oil tank capacity (gal)  Auxiliary hydraulic service on boom  Rear service line  Cab  Cab  Cab  Cab  Cab  Cab  Cab  Ca	Reducers	RR 700	RR700
Hydraulic   Hydraulic pump	Brakes	Dry discs	Dry discs
Hydraulic pump	Automatic parking brake		•
Delivery / pressure (bar-l/min)         27,5 - 3626         27,5 - 3626           Hydraulic oil tank capacity (gal)         26.4         26.4           Auxiliary hydraulic service on boom         ■         ■           Rear service line         ○         ○           Cab         Use thinking         ECO         ECO           ASCS         Light         Completo           FOPS II Cab         ■         ■         ●           ROPS Cab         ■         ■         ●         ●           Controls         Electronic joystick control         ■         ●	Hydraulic		
Hydraulic oil tank capacity (gal)  Auxiliary hydraulic service on boom Rear service line Cab  Cab  Cab  Cab  Cab  Cab  Cab  Cab	Hydraulic pump	LS	LS
Auxiliary hydraulic service on boom  Rear service line Cab Cab Cab Finishing Cab Finishing Cab Light Completo Cab Cab Cac	Delivery / pressure (bar-l/min)	27,5 - 3626	27,5 - 3626
Rear service line Cab Cab finishing Cab fini	Hydraulic oil tank capacity (gal)	26.4	26.4
Cab finishing  Cab finishing  ECO  ECO  ASCS  Light  Completo  FOPS II cab  ROPS Cab  Controls  Electronic joystick control  Dual reverse  Dual rever	Auxiliary hydraulic service on boom		•
Cab finishing       ECO       ECO         ASCS       Light       Completo         FOPS II Cab       ■       ■         ROPS Cab       ■       ■         Controls       Electronic joystick control       Electronic joystick control         Tiltling cab       -       -         Reverse shuttle       Dual reverse       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       400/70-20       400/70-20         OPT tyres       400/70-24       400/70-24 <td< td=""><td>Rear service line</td><td>0</td><td>0</td></td<>	Rear service line	0	0
ASCS FOPS II Cab ROPS Cab Controls Electronic joystick control  O OUTHORS OUTH	Cab		
FOPS II Cab  ROPS Cab  Controls  Electronic joystick control  Dual reverse  Dual reverse  Configuration  Hydropneumatic Suspension CS Merlo  Hydropneumatic Suspension CS Merlo  Hydropneumatic Suspension BSS Merlo  Hydropneumatic Suspension EAS Merlo  Hydraulic Brakes (ton)  Hydraulic brakes (ton)  Hydraulic brakes (ton)  Fro	Cab finishing	ECO	ECO
ROPS Cab  Controls  Electronic joystick control  Flydropneumatic Suspension CS Merlo  Hydropneumatic Suspension BSS Merlo  Hydropneumatic Suspension EAS 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  400/70-20  A0/70-24  Hydraulically controlled stabilizers  In sagoma  Turret rotation  Turet rotation  Turet rotation  Tiractor type approval  Proumatic brakes (ton)  Hydraulic brakes (ton)  PTO  Tiractor type approval  PTO  Tiractor ty	ASCS	Light	Completo
Controls     Electronic joystick control     Electronic joystick control       Tilting cab     -     -       Reverse shuttle     Dual reverse     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     400/70-20     400/70-20       OPT tyres     400/70-24     400/70-24       Hydraulically controlled stabilizers     In sagoma     In sagoma       Turret rotation     —     —       Tractor type approval     -     —       Pneumatic brakes (ton)     -     -       Hydraulic brakes (ton)     -     -       Proundatic brakes (ton)     -     -       Proundati	FOPS II Cab	•	•
Tilting cab - Dual reverse Dual reverse Dual reverse  Configuration  Hydropneumatic Suspension CS Merlo	ROPS Cab		•
Reverse shuttle Dual reverse Dual reverse  Configuration Hydropneumatic Suspension CS Merlo Hydropneumatic Suspension BSS Merlo OHydropneumatic Suspension EAS	Controls	Electronic joystick control	Electronic joystick control
Configuration       Hydropneumatic Suspension CS Merlo     —       Hydropneumatic Suspension BSS Merlo     —       Hydropneumatic Suspension EAS 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     400/70-20       OPT tyres     400/70-24       Hydraulically controlled stabilizers     In sagoma       Turret rotation     —       Tractor type approval     -       Pneumatic brakes (ton)     -       Hydraulic brakes (ton)     -       Hydraulic brakes (ton)     -       PTO     -	Tilting cab	-	-
Hydropneumatic Suspension CS Merlo Hydropneumatic Suspension BSS Merlo OHydropneumatic Suspension BSS Merlo Hydropneumatic Suspension EAS Merlo OHydropneumatic EAST EAST EAST EAST EAST EAST EAST EAST	Reverse shuttle	Dual reverse	Dual reverse
Hydropneumatic Suspension BSS Merlo Hydropneumatic Suspension EAS 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  400/70-20  OPT tyres  400/70-24  Hydraulically controlled stabilizers In sagoma Iurret rotation Tractor type approval Pneumatic brakes (ton) Hydraulic brakes (ton) PTO	Configuration		
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  400/70-20  OPT tyres  400/70-24  Hydraulically controlled stabilizers  In sagoma  Turet rotation  Tractor type approval  Pneumatic brakes (ton)  Hydraulic brakes (ton)  FTO  To Company Com	Hydropneumatic Suspension CS 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 400/70-20 OPT tyres 400/70-24 Hydraulically controlled stabilizers In sagoma Turret rotation Tractor type approval Pneumatic brakes (ton) PTO  O  O  O  O  O  O  O  O  O  O  O  O	Hydropneumatic Suspension BSS Merlo	0	0
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  OPT tyres  400/70-20  OPT tyres  400/70-24  Hydraulically controlled stabilizers  In sagoma  Turret rotation  Tractor type approval  Pheumatic brakes (ton)  Hydraulic brakes (ton)  FTO  O  OPT tyres  AU  AU  AU  AU  AU  AU  AU  AU  AU  A	Hydropneumatic Suspension EAS Merlo	_	_
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  OPT tyres  400/70-20  400/70-24  Hydraulically controlled stabilizers  In sagoma  Turret rotation  Tractor type approval  Pheumatic brakes (ton)  Hydraulic brakes (ton)  PTO  OPT tyres  All wheel steering way  All wheel steering  All wheel steerin	Work lights on cab	0	0
Pre-arrangement for aerial work platform  Two floating forks  Pedal Inching-Control  Permanent four-wheel drive  All wheel steering  Three steering way  Standard tyres  OPT tyres  400/70-20  400/70-24  Hydraulically controlled stabilizers  In sagoma  Turret rotation  Tractor type approval  Pneumatic brakes (ton)  Hydraulic brakes (ton)  PTO  -  -  PTO  -  -  -  -  -  -  -  -  -  -  -  -  -	Sun-shade in the cab	0	0
Two floating forks         ●         ●           Pedal Inching-Control         ●         ●           Permanent four-wheel drive         ●         ●           All wheel steering         ●         ●           Three steering way         ●         ●           Standard tyres         400/70-20         400/70-20           OPT tyres         400/70-24         400/70-24           Hydraulically controlled stabilizers         In sagoma         In sagoma           Turret rotation         —         —           Tractor type approval         -         -           Pneumatic brakes (ton)         -         -           Hydraulic brakes (ton)         -         -           PTO         -         -	Tac-lock	•	•
Pedal Inching-Control         Image: Control of the control of t	Pre-arrangement for aerial work platform	0	0
Permanent four-wheel drive	Two floating forks		
All wheel steering Three steering way  Standard tyres 400/70-20  OPT tyres 400/70-24  Hydraulically controlled stabilizers In sagoma  Turret rotation Tractor type approval Pneumatic brakes (ton) Hydraulic brakes (ton)  PTO  -  -  -  -  -  -  -  -  -  -  -  -  -	Pedal Inching-Control	•	•
Three steering way         ●         ●           Standard tyres         400/70-20         400/70-20           OPT tyres         400/70-24         400/70-24           Hydraulically controlled stabilizers         In sagoma         In sagoma           Turret rotation         —         —           Tractor type approval         -         -           Pneumatic brakes (ton)         -         -           Hydraulic brakes (ton)         -         -           PTO         -         -	Permanent four-wheel drive		
Three steering way         ●         ●           Standard tyres         400/70-20         400/70-20           OPT tyres         400/70-24         400/70-24           Hydraulically controlled stabilizers         In sagoma         In sagoma           Turret rotation         —         —           Tractor type approval         -         -           Pneumatic brakes (ton)         -         -           Hydraulic brakes (ton)         -         -           PTO         -         -	All wheel steering		
Standard tyres         400/70-20         400/70-20           OPT tyres         400/70-24         400/70-24           Hydraulically controlled stabilizers         In sagoma         In sagoma           Turret rotation         —         —           Tractor type approval         -         -           Pneumatic brakes (ton)         -         -           Hydraulic brakes (ton)         -         -           PTO         -         -	-		
OPT tyres         400/70-24         400/70-24           Hydraulically controlled stabilizers         In sagoma         In sagoma           Turret rotation         —         —           Tractor type approval         -         -           Pneumatic brakes (ton)         -         -           Hydraulic brakes (ton)         -         -           PTO         -         -		400/70-20	400/70-20
Hydraulically controlled stabilizers  In sagoma  In sagoma  Turret rotation  Tractor type approval  Pneumatic brakes (ton)  Hydraulic brakes (ton)  PTO  In sagoma  I	•		
Turret rotation         —         —           Tractor type approval         -         -           Pneumatic brakes (ton)         -         -           Hydraulic brakes (ton)         -         -           PTO         -         -	•		
Tractor type approval         -         -           Pneumatic brakes (ton)         -         -           Hydraulic brakes (ton)         -         -           PTO         -         -		Jagoma	iii sagoilla
Pneumatic brakes (ton)		_	
Hydraulic brakes (ton) PTO			
PTO		-	_
	•	-	
S-DOIDT TOOT HINVAGO	3-point rear linkage	-	



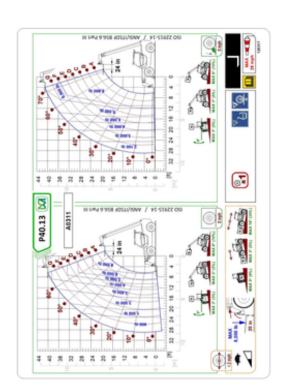
# **Dimensions**

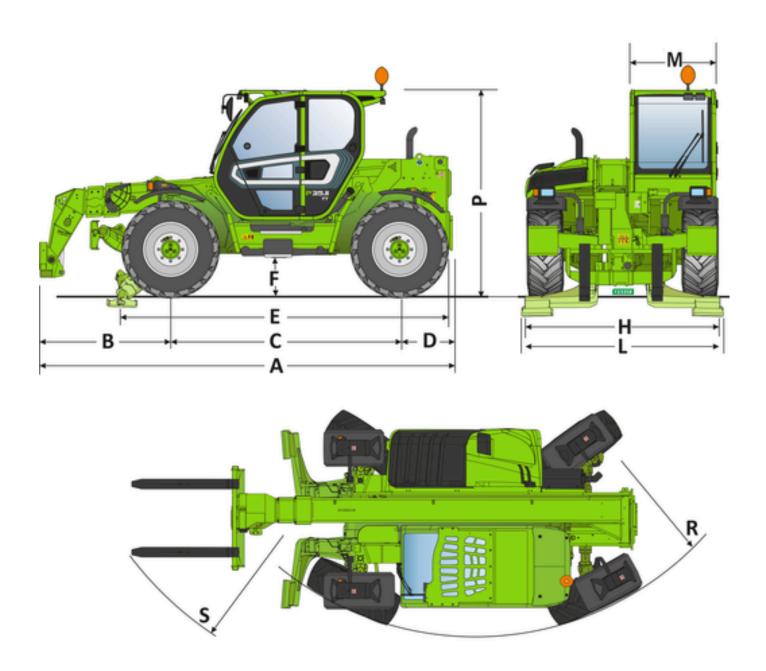


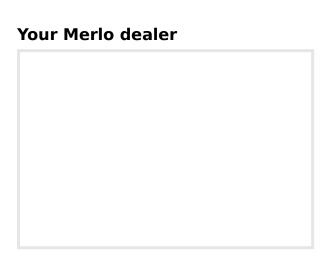
	P40.13EE4	P40.13PLUS
A - Lenght	213	213
C - Wheelbase	111	111
F - Ground clearence	15	15
H - Width	88	88
M - Cabin width	40	40
P - Height	95	95
R - Turning radius at wheels	154	154
S - Turning radius at forks	194	194

# **Technical Details**









# **MERLO S.P.A.**

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