

Technical sheet :

MLT 850-145 V+



 **MANITOU**
HANDLING YOUR WORLD

Capacities		Imperial
Max. capacity	Q	11020 lb
Max. lifting height	h3	24 ft 9 in
Maximum outreach		15 ft 1 in
Reach at max. height		2 ft 11 in
Breakout force with bucket		8670 daN
Weight and dimensions		
Unladen weight (with forks)		23766 lb
Ground clearance	m4	1 ft 6 in
Wheelbase	y	9 ft 8 in
Overall length to carriage (with hitch)	l11	18 ft 3 in
Overall length to carriage (without hitch)	l3	18 ft 2 in
Front overhang		5 ft 1 in
Overall width	b1	8 ft 2 in
Overall cab width	b4	3 ft 3 in
Overall height	h17	8 ft 6 in
Tilt-down angle	a5	132 °
Tilt-up angle	a4	12 °
External turning radius (over tyres)	Wa1	13 ft 3 in
Standard tires		Alliance - A580 - 500/70 R24 164A8
Drive wheels (front / rear)		2 / 2
Steering mode		Manicrab, 2 wheel steer, 4 wheel steer, Crab mode
Performances		
Lifting		6.60 s
Lowering		4.90 s
Extension		6.30 s
Retraction		5.70 s
Crowd		4.20 s
Dump		3.10 s
Engine		
Engine brand		Yanmar
Engine norm		Stage V / Tier 4 Final
Max. fuel sulphur content		1000 ppm
Engine model		4TN107FHT-5SMUF
Number of cylinders - Capacity of cylinders		4 - 279 in³
Engine power (Hp / kW)		141 Hp / 105 kW
Max. torque / Engine rotation		444 ft/lbs @1500 rpm
Drawbar pull (Laden)		9160 daN
Reversible fan		Standard
Engine cooling system		3 radiators water + intercooler + transmission oil
Transmission		
Transmission type		Continuously variable transmission
Gearbox		M-Vario Plus
Max. travel speed (may vary according to applicable regulations)		25 mph
Differential lock		Limited slip differential on front and rear axles
Parking brake		Automatic negative parking brake
Service brake		Oil-immersed multi-discs braking on front & rear axles
Hydraulics		
Hydraulic pump type		Variable displacement pump
Hydraulic flow - Pressure		53 US gpm - 3916 PSI
Flow sharing distributor		Standard
Tank capacities		
Hydraulic tank capacity		37 US gal
Fuel		38 US gal
Diesel Exhaust fluid (AdBlue® type)		6 US gal
Consumption calculated according to EN 16796-4 standard		2 US gph
Noise and vibration		
Noise at driving position (LpA) tested following NF EN 12053 norm		69 dB
Noise to environment (LwA)		105 dB
Vibration on hands/arms		8 ft/s²
Miscellaneous		
Tractor homologation		Tractor homologation
Cab certification		Cabin ROPS - FOPS level 2
Controls		JSM

Optional tires tab

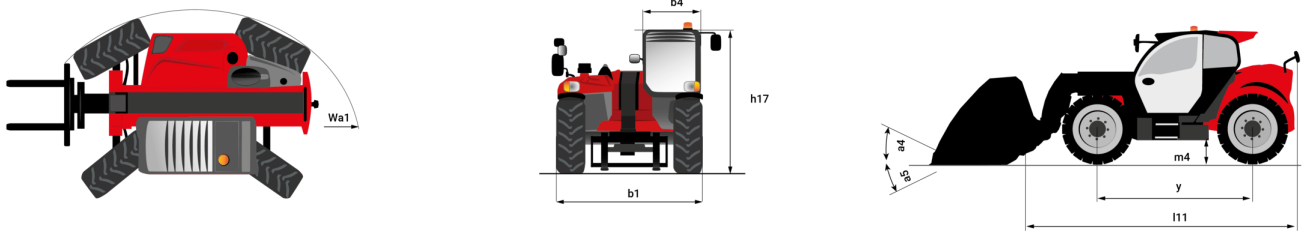
	Overall height	Overall width
ALLIANCE - A585 - 500/70 R24 164A8	-	-
MICHELIN - BIBLOAD - 500/70 R24 164A8	-	-
MICHELIN - XHA - 17.5 R25	-	-
MICHELIN - XMCL - 500/70 R24 164A8	-	-
NOKIAN - TRI STEEL - 500/70 R24 164A8	-	-
SOLIDEAL - SOLIDAIR TLH - 14.00 R24	-	-
TRELLEBORG - TH400 - 500/70 R24 164A8	-	-
VREDESTEIN - ENDURION - 500/70 R24 164A8	-	-
VREDESTEIN - TRAXION - 500/70 R24 164A8	-	-

Options / Finishing

S : Standard / O : Optional / - : Not available

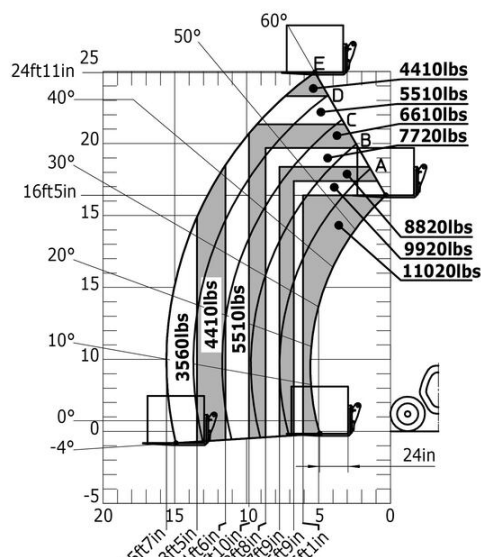
Lifting function	Premium	Platinum
Intelligent hydraulics	-	S
Regenerative Hydraulics	-	S
Operator station		
Adaptive air suspension seat	-	S
Comfort Steering System	-	S
HighView camera on boom head (telescopic part)	-	S
Motorization/Power		
Ecostop	-	S
Stop & Start	S	S
Secondary functions		
Automatic greasing system (AGS) - Chassis + boom	-	S

MLT 850-145 V+ - Dimensional drawing

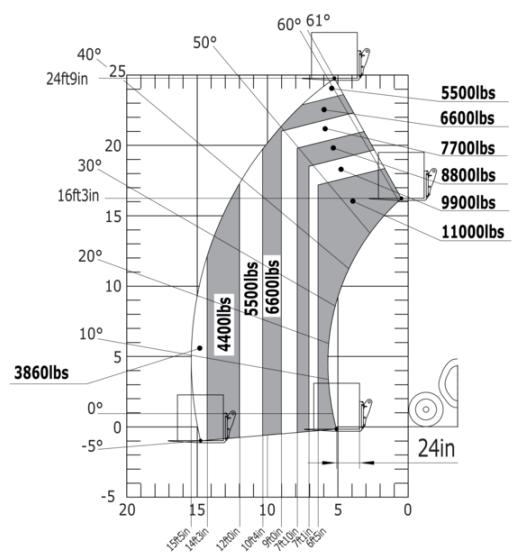


MLT 850-145 V+ - Load chart

Machine on tires with forks Imperial



Machine on tires with forks LC 600 mm (Imperial)





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