

Technical sheet :

# MRT 2470 PRIVILEGE PLUS



 **MANITOU**  
HANDLING YOUR WORLD

Capacities		Metric	Imperial
Max. capacity		7000 kg	15432 lb
Max. lifting height		24.80 m	81 ft 4 in
Maximum outreach		20.50 m	67 ft 3 in
Weight and dimensions			
Overall length (with forks)	l1	8.75 m	28 ft 8 in
Length to face of forks	l2	7.55 m	24 ft 9 in
Overall width	b1	2.49 m	8 ft 2 in
Overall height	h17	3.05 m	10 ft
Overall cab width	b4	0.99 m	3 ft 3 in
Ground clearance	m4	0.35 m	1 ft 2 in
Wheelbase	y	3.25 m	10 ft 8 in
Tilt-up angle	a4	12 °	12 °
Tilt-down angle	a5	108 °	108 °
Turret rotation		360 °	360 °
Overall weight		21760 kg	47973 lb
Forks length / width / section	l / e / s	1200 mm x 60 mm x 130 mm	47 in x 2 in x 5 in
Wheels			
Tires type		Pneumatic	Pneumatic
Standard tires		445/65 R22,5	445/65 R22,5
Drive wheels (front / rear)		2 / 2	2 / 2
Steering mode		2 wheel steer, 4 wheel steer, Crab mode	2 wheel steer, 4 wheel steer, Crab mode
Stabilisers			
Stabilizers Type		Telescopic Duplex	Telescopic Duplex
Controls with stabs		Stabs Commands Individual or Simultaneous	Stabs Commands Individual or Simultaneous
Engine			
Engine brand		Mercedes	Mercedes
Engine norm		Stage IV, Tier 4 final	Stage IV, Tier 4 final
Engine model		OM 934 LA.E4-3	OM 934 LA.E4-3
I.C. Engine power rating / Power / Engine rotation		176 Hp / 129 kW @ 1600 rpm	176 Hp / 129 kW @ 1600 rpm
Max. torque / Engine rotation (min)		750 Nm @ 1200 rpm	553 ft/lbs @ 1200 rpm
Number of cylinders - Capacity of cylinders		4 - 5130 cm³	4 - 313 in³
Injection		engine Injection direct	engine Injection direct
Engine cooling system		Water	Water
Electric circuit			
Number of batteries / Battery voltage		2 x 12 V	2 x 12 V
12V Battery capacity		120 Ah	120 Ah
Transmission			
Transmission type		Hydrostatic	Hydrostatic
Number of gears (forward / reverse)		2 / 2	2 / 2
Max. travel speed		40 km/h	25 mph
Drawbar pull		9500 daN	9500 daN
Parking brake		Automatic Negative Hand-brake	Automatic Negative Hand-brake
Service brake		Hydraulic	Hydraulic
Hydraulics			
Hydraulic pump type		Variable pump	Variable pump
Hydraulic flow		180 l/min	48 US gpm
Hydraulic Pressure		350 bar	5076 PSI
Tank capacities			
Engine oil		21 l	6 US gal
Fuel tank		290 l	77 US gal
Diesel Exhaust fluid (AdBlue® type)		57 l	15 US gal
Noise and vibration			
Noise at driving position (LpA)		79.70 dB	79.70 dB
Noise to environment (LwA)		108 dB	108 dB
Vibration on hands/arms		< 2.50 m/s²	< 2.50 m/s²
Miscellaneous			
Steering wheels (front / rear)		2 / 2	2 / 2
Controls		2 Joysticks	2 Joysticks
Cab certification		Cabin ROPS - FOPS level 2	Cabin ROPS - FOPS level 2
Attachment recognition system (E-Reco)		Standard	Standard

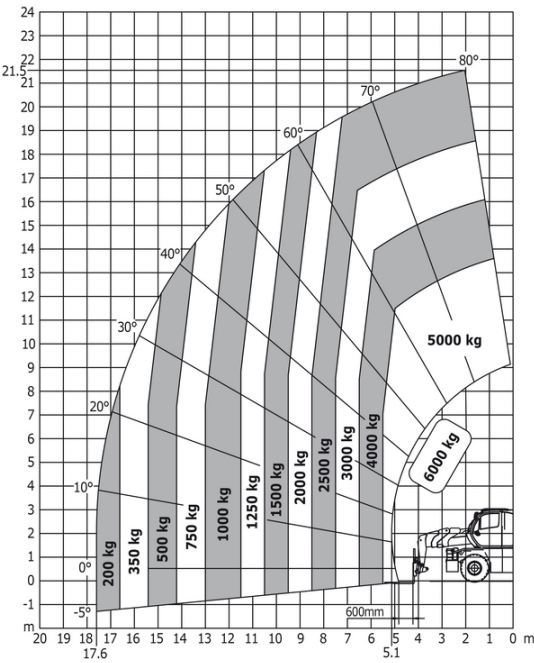
MRT 2470 Privilege Plus - Dimensional drawing



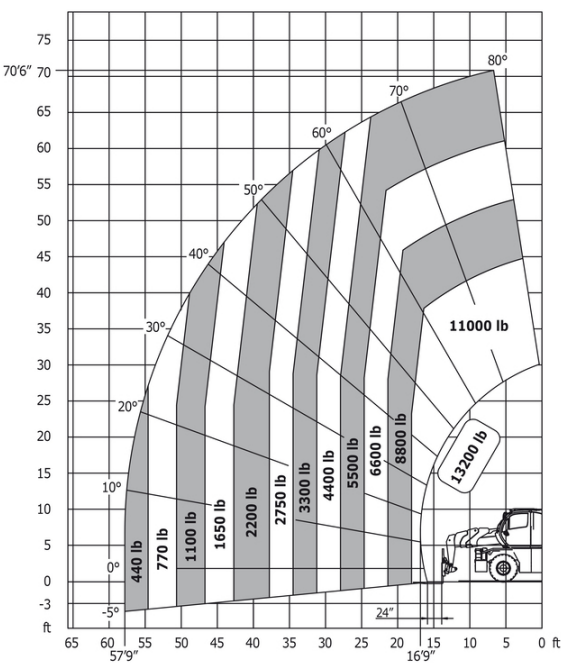
Other data		Metric	Imperial
Length of frame	l14	5.62 m	18 ft 5 in
Wheelbase	y	3.25 m	10 ft 8 in
Ground clearance	m4	0.35 m	1 ft 2 in
Counterweight offset (turret at 90°)	a7	3.42 m	11 ft 3 in
Tilt-up angle	a4	12 °	12 °
Tilt-down angle	a5	108 °	108 °
Overall length at stabilisers	l12	5.62 m	18 ft 5 in
Outer turning radius (with forks)	b15	6.26 m	20 ft 6 in
Overall width with stabilisers extended	b7	6.06 m	19 ft 11 in
Overall height	h17	3.05 m	10 ft
Frame leveling corrector	a9	+/- 7.40 °	+/- 7.40 °
Ground clearance under front tires on stabilizers	m5	0.32 m	1 ft 1 in

MRT 2470 Privilege Plus - Load chart

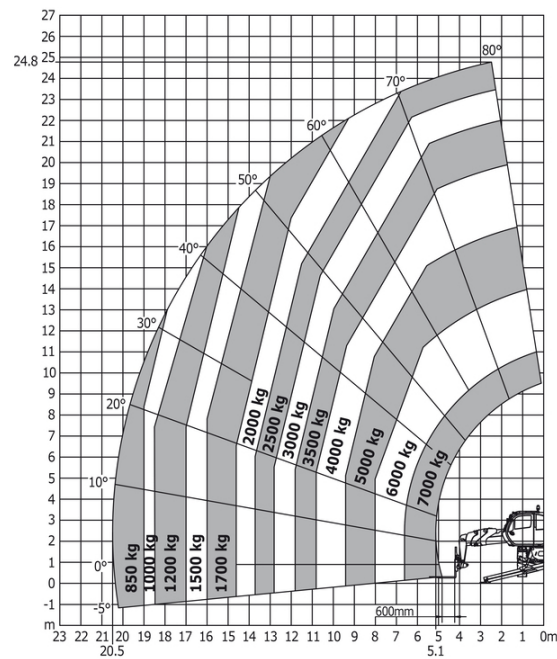
Machine on tires with forks Metric



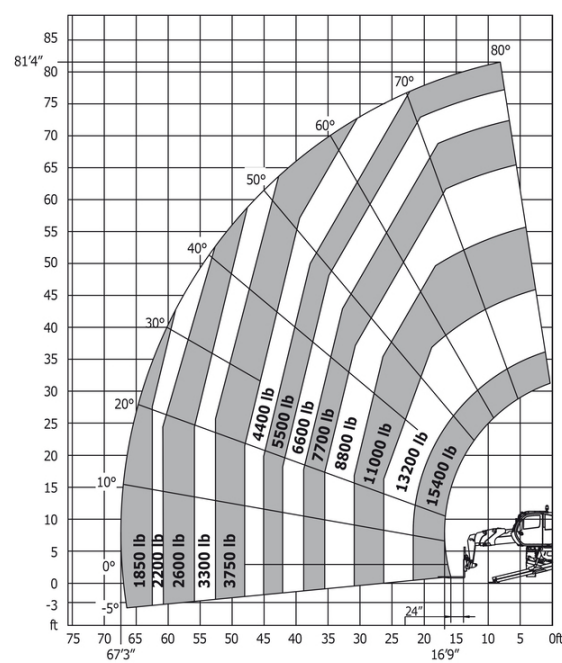
Machine on tires with forks Imperial



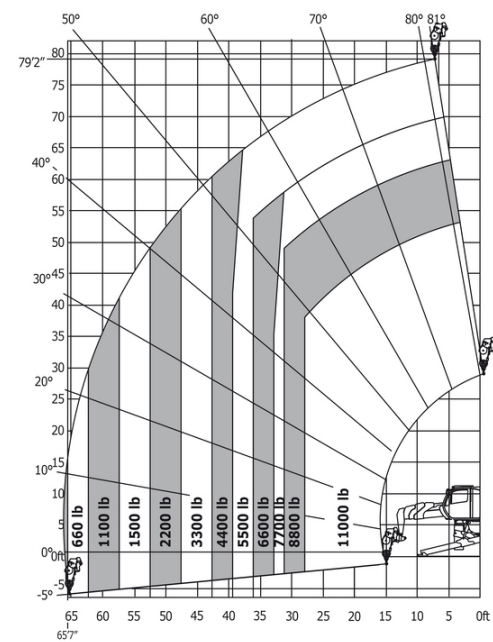
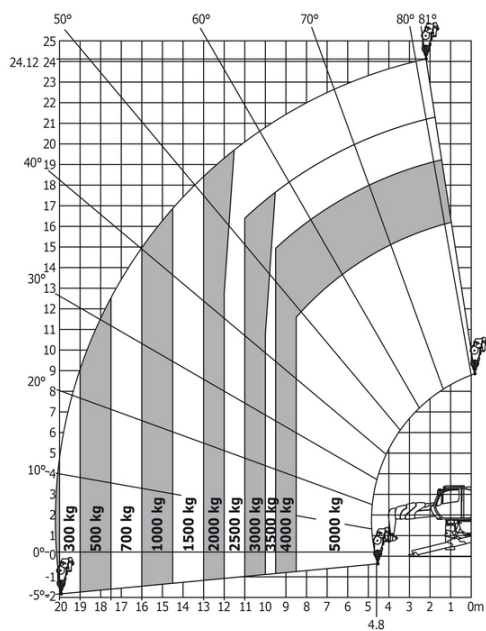
Machine on lowered stabilisers with forks Metric



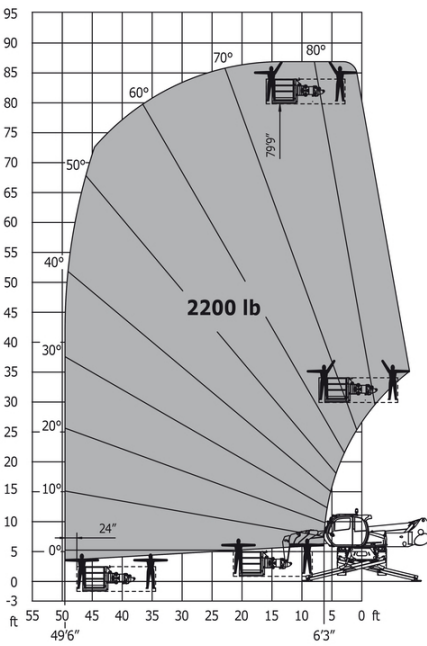
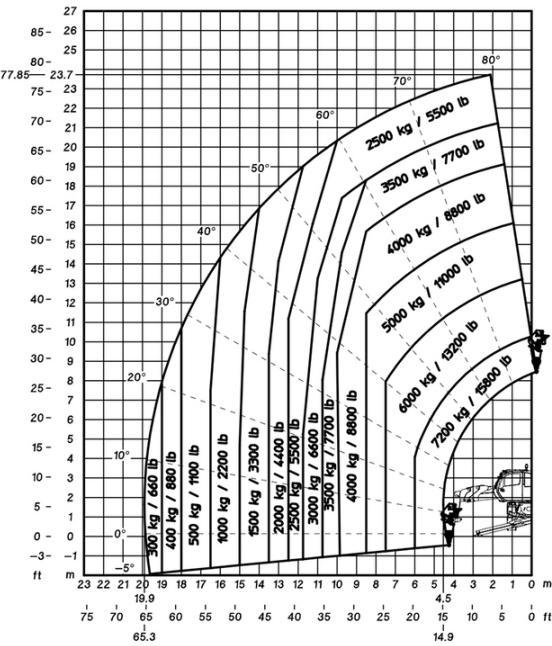
Machine on lowered stabilisers with forks Imperial



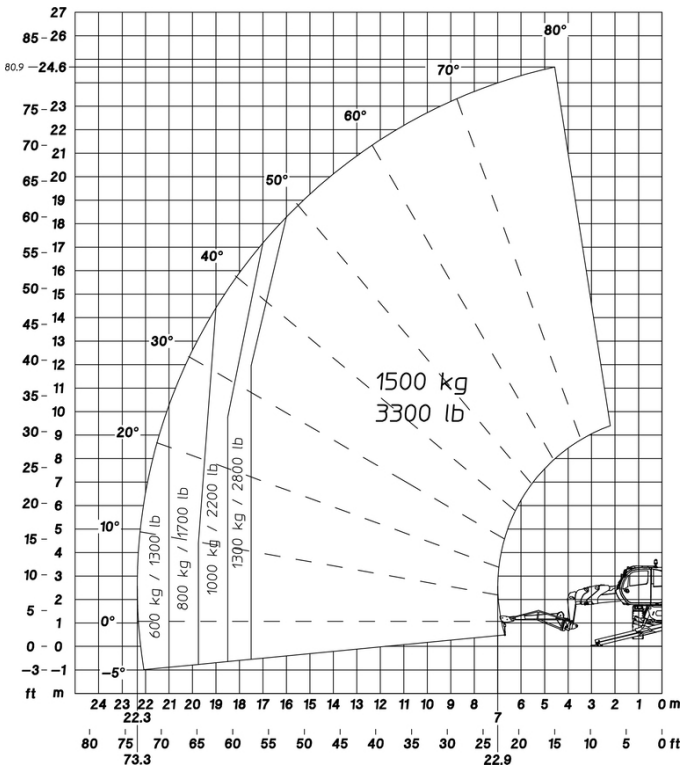
Machine on lowered stabilisers with winch 5000 kg Metric Machine on lowered stabilisers with winch 5000 kg Imperial



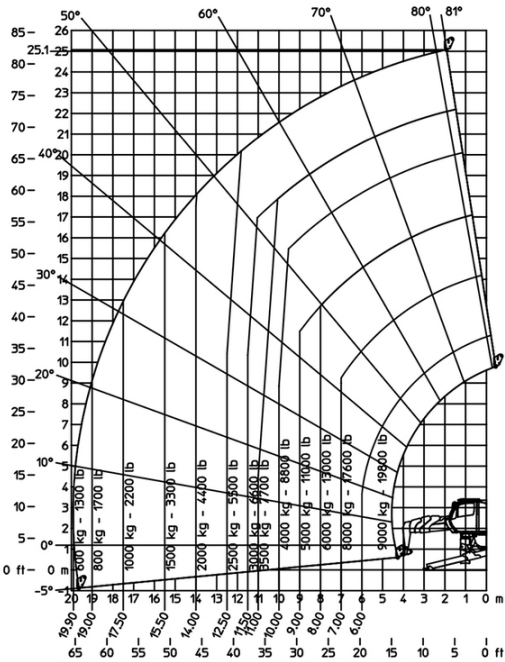
Machine on lowered stabilisers with winch 7200 kg (metric) Machine on lowered stabilisers with 1000 kg platform  
Imperial



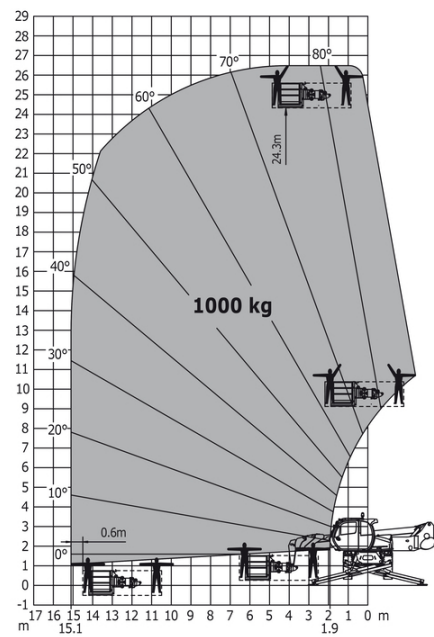
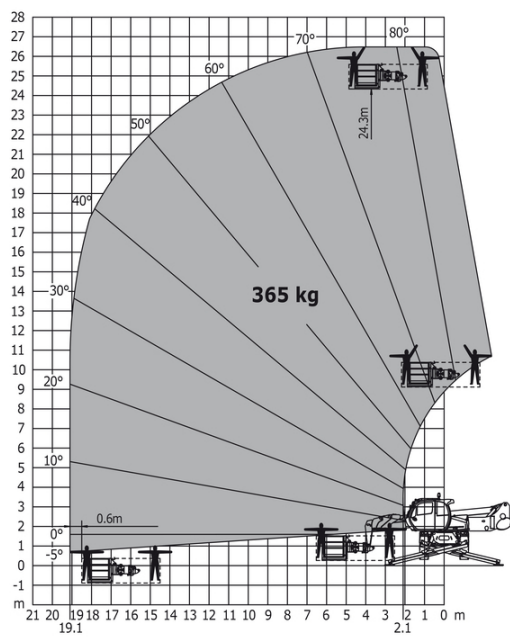
Machine on lowered stabilisers with 1500 kg jib Metric



Machine on lowered stabilisers with hook 9000 kg (Metric)



Machine on lowered stabilisers with 365 kg platform Metric Machine on lowered stabilisers with 1000 kg platform Metric





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