
TECHNICAL DATA SHEET

MHT-X 10230 MINING

Manitou Telescopic



MHT-X 10230

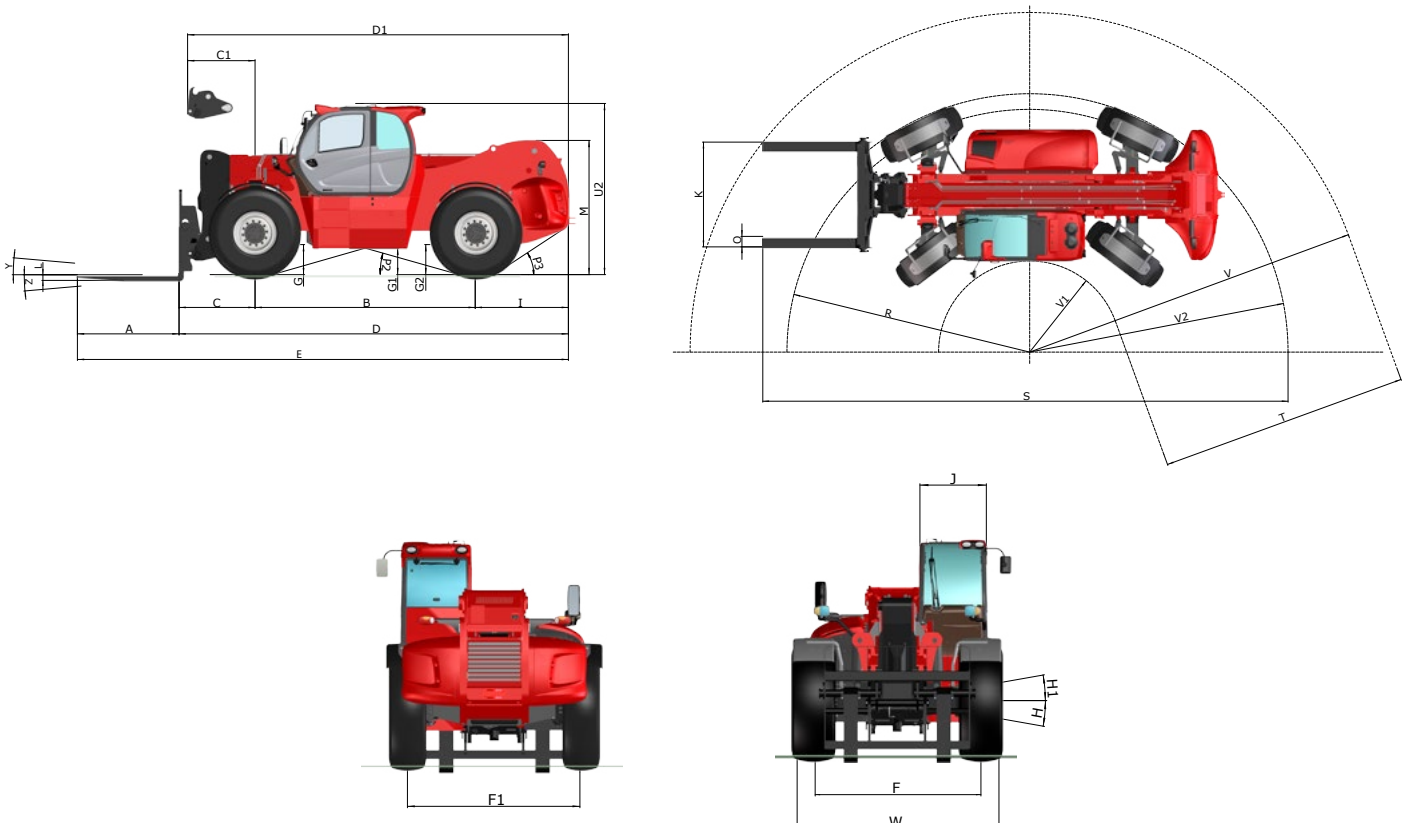
Lifting	
Max. capacity	23000 kg
Max. lifting height	9,65 m
Boom movements speeds (unladen)	
Lifting / Lowering	36,5 / 28,7 secs
Extension / Retraction	15,2 / 12,2 secs
Crowd / Dump	9,5 / 9,6 secs
Engine	
Type	MERCEDES OM 904 LA
Cubic capacity	4 cylinders 4.25 liters
Power	176 HP / 129 kW
Max. torque	675 Nm / 1200-1600 rpm
Injection	Direct
Cooling	Water
Hydraulics	
Pump	Load Sensing 205 l/min - 350 bar
Electrical	
Battery	24 V - 2X12 V - 120 Ah - 850 A
Transmission	
Hydrostatic pump	BOSCH-REXROTH
Type	Hydrostatic with automatic power regulation
Forward/Reverse Selector	Electrohydraulic
Hydrostatic transmission	BOSCH-REXROTH
Number of gears	(forward/reverse) 2/2
Front & Rear axles / Differential	OMCI / Limited slip front rigid - rear oscillating
Drive Wheels	permanent 4 wheel drive
Tyres	18.00 R25 AEOLUS
Max. travel speed (may vary according to applicable regulations)	25 km/h
Steering mode	4 wheel steer - 3 steering modes
Uphill/downhill safe operating grade	34%
Laden drawbar pull	18 500 daN

Braking & Steering	
Type	mining Fail-Safe Braking System
Service brake	Hydraulic power brake
Type	dual acting master cylinder with independent lines to multi-disk brakes in oil bath on front & rear axles.
Control	foot-operated for front & rear axles
Parking/Emergency brake	Hydraulic power brake
Type	spring applied hydraulic release (SAHR) on front & rear axles.
Control	electro-hydraulic. Cabin manual hydraulic lever. automatic application on engine shut-down.
Slope holding performance	25%
Operator test & warning	daily service & park brake test switch procedure warning: Low brake pressure, residual service brake pressure, loss of cabin driver presence.
Standards/Guidelines	based on ISO 3450:2011
Emergency steering	based on ISO 5010:1992
Control systems & Warning	
Stability	Load State Monitoring System with attachment recognition system (E-reco) Bi-axial spirit level indicator
Critical functions monitoring & engine shut down	Manitou Guardian Angel mining system - level 1 engine-steering-hydraulic-speed-tip over
Pre-Start Warning Horn	5s
General protections	
Cabin	ROPS ISO:3471 - FOPS ISO: 3449 Level 1 and 2
Body	boom cylinder rod, lights & cabin guards - metallic self cleaning engine pre-filter Belly guard (plate) - Elevated breathers
Electricals	
Fuse board & main harness	Ultimate Fuse Board protection system
Wiring and other electrical components	Ultimate Wiring protection system (standard in Australia MDG15, option other country)
Fire prevention & control	
Extinguisher(s)	2x 9Kg Powder
Prevention	Engine Compartment Fire Prevention System (standard in Australia MDG15, option other country)

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Ergonomics, access, visibility	
LED Lights & Cameras	360° Visibility Safety System
Work lights	LED 3200 lux (2x front 2x rear 2x boom)
Cameras	blind spots on right hand side and rear
Other	fwd/rev directionnal lights, rear light on when rev
Markings, Signs, Labelling	warning & danger, controls & pre-op, reflective hi-visibility, access & maintenance point
Isolation points & miscellaneous	
Emergency stops	cabin x1 - External x2
Isolation	"dual pole battery + starter isolators, fuel isolation valve, jump start receptacle, all inside engine bay"
Miscellaneous	"radiator safety cap belts & pulleys safety guards wheel chocks x2 boom cylinder lock loose wheel nut indicators"
Capacities	
Hydraulic oil	290 l
Fuel	315 l
Noise and vibration	
Noise at driving position (LpA)	80 dB
Environmental noise (LwA)	107 dB
Vibration to whole hand/arm	<2.5 m/s ²
Vibration on driver's body	<0.5 m/s ²
Weight	29300 kg Unladen (with forks)

A (mm)	1800
B (mm)	3900
C (mm)	1410
C1 (mm)	1210
D (mm)	6950
D1 (mm)	6725
E (mm)	8750
F (mm)	2335
G (mm)	580
G1 (mm)	490
G2 (mm)	590
H (°)	9,7°
H1 (°)	10,3°
I (mm)	1750
J (mm)	927
K (mm)	2000
L (mm)	100
M (mm)	2330
O (mm)	200
P2 (°)	16°
P3 (°)	32°
R (mm)	4945
S (mm)	10200
T (mm)	4400
U2 (mm)	3055
V (mm)	6650
V1 (mm)	2250
V2 (mm)	5400
W (mm)	2850
Y (°)	12,8°
Z (°)	102°



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OPTIONAL EQUIPMENT

Control systems & warnings

External overload light tower indicator for rated capacity limiter (Green, Yellow, Red)

Guardian angel mining system - Level 2

Tyre pressure & temperature monitoring

General protection

Hydraulic Hose Sleeve Burst Protection

Cabin Guard: roof

Guard: A/C condensor

Side bumper - Protector bar

Rear bumper - Protector bar

Steel mudguards

Fuse board & main harness - Ultimate Fuse Board protection system

Ultimate wiring protection system

Nokian 12.00-20 Armor Gard Mine

Fire prevention & control

Engine Compartment Fire Prevention System Fuel lines fire resistant steel braided

Fire resistant Fuel filter

Turbo Sock

Fire Resistant Engine Bonnet

Fire suppression system - Manual & automatic activation

Cabin extinguisher

Ergonomics access visibility

Seat Tractor-Back shape + Autoretracting Seat Belt 75mm wide

Air conditioning

Maintenance

Battery, Starter isolation points + Jump Start Receptacle In External Weatherproof Enclosure

Fast fill dry break point - Fuel

Fast fill dry break point - Hydraulic oil

Central Greasing System

Auxiliary hydraulic-Electric quick multi-coupling plate system

Easy Connect System - Attachment hydraulic hoses

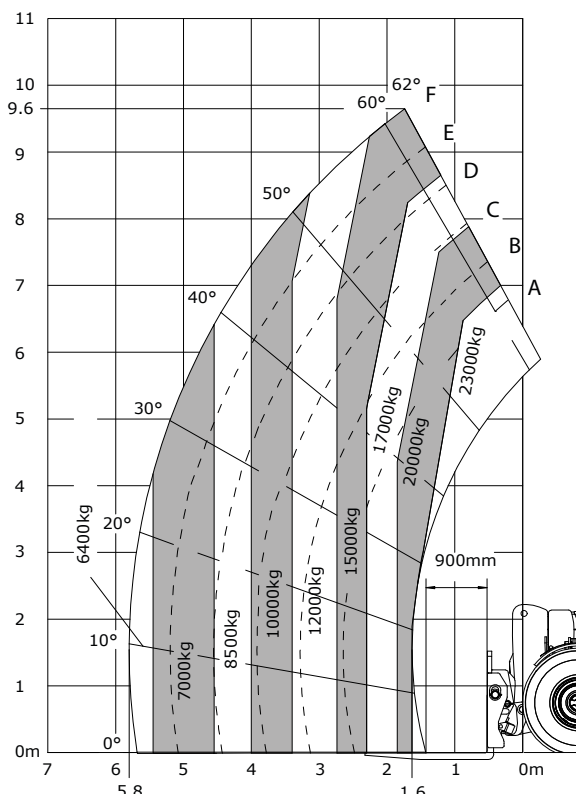
Hydraulic locking of attachment on T.S.

Predisposition

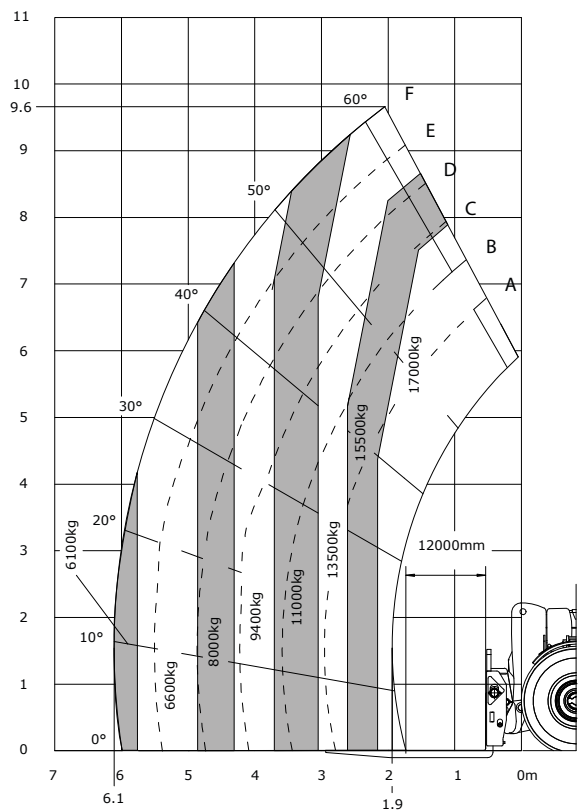
Platform predisposition

Tyre handler predisposition

**Machine on tyres with forks
(Load Centre at 900 mm)
(Norm AS1418.19)**

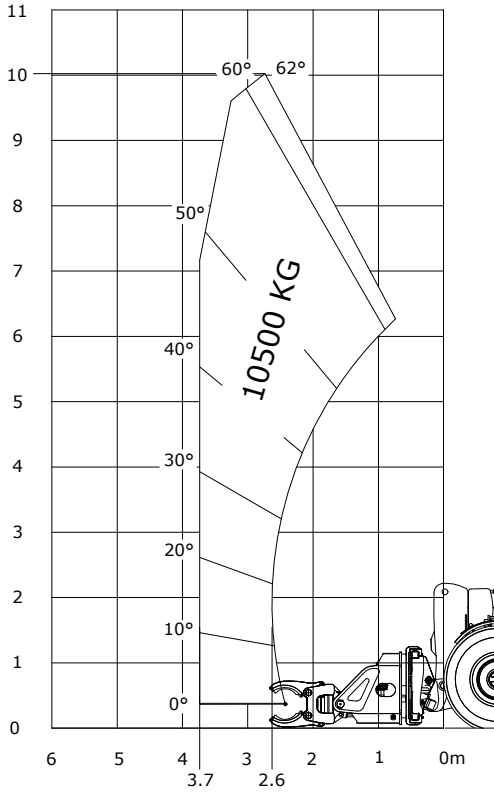


**Machine on tyres with forks
(Load Centre at 1200 mm)
(Norm AS1418.19)**

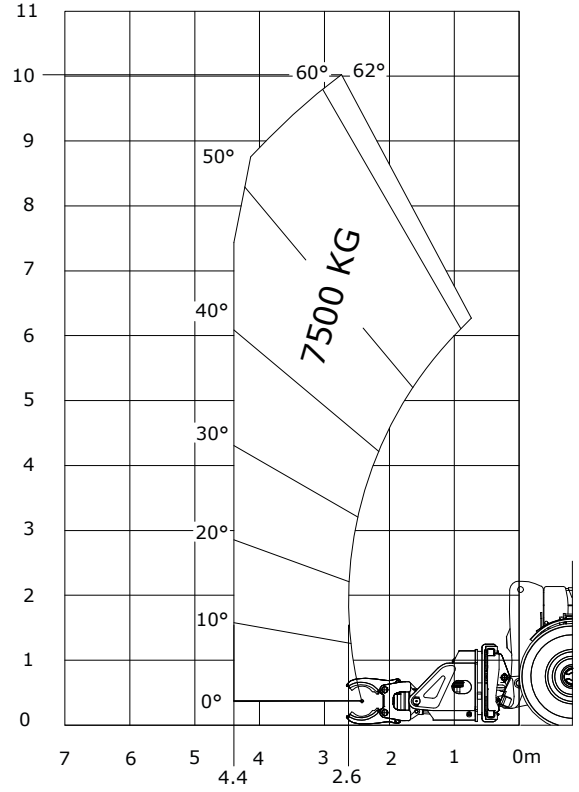


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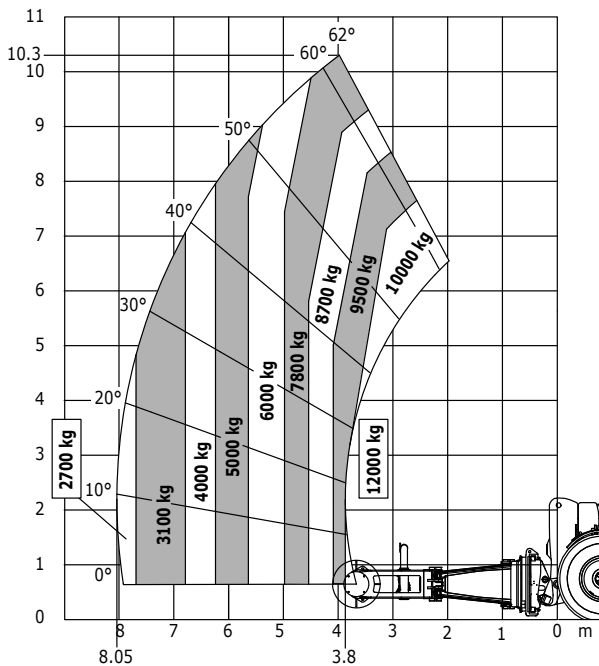
**Machine on tyres with CH10 10,5T
(Norm AS1418.19)**



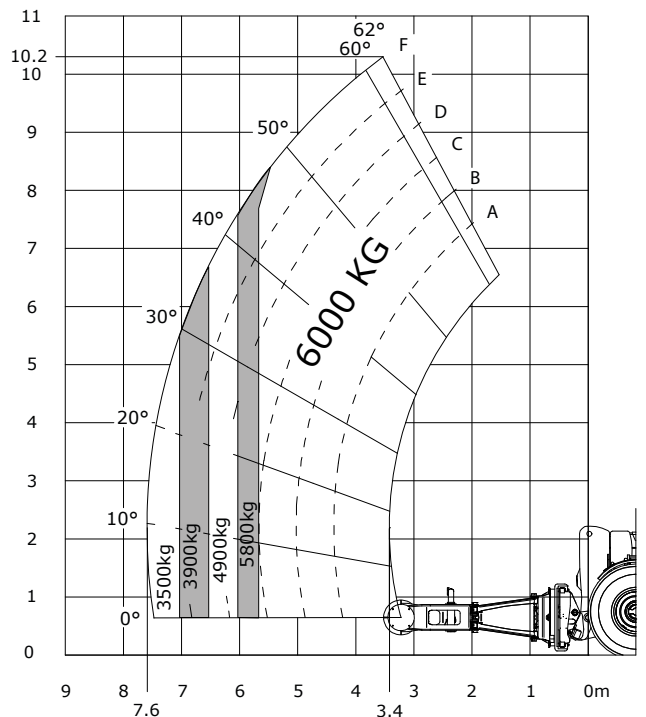
**Machine on tyres with CH10-7,5 tons
(Norm AS1418.19)**



**Machine on tyres with TH63+
(Norm AS1418.19)**

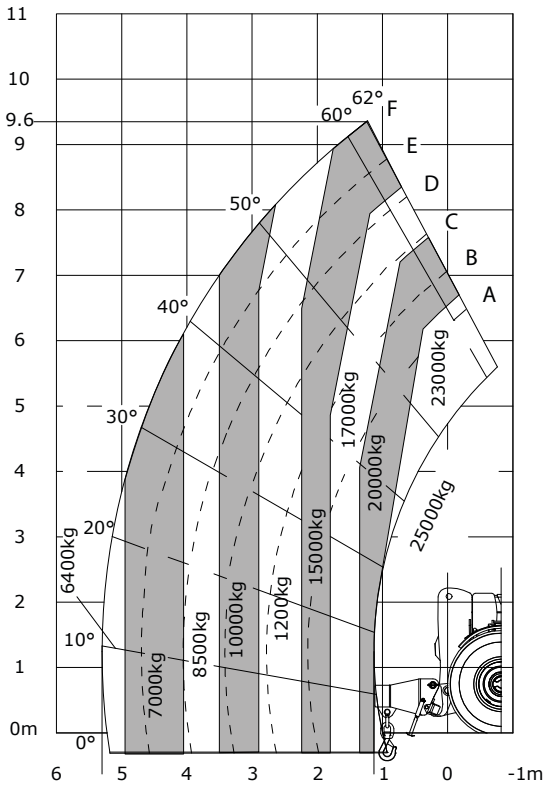


**Machine on tyres with TH57
(Norm AS1418.19)**

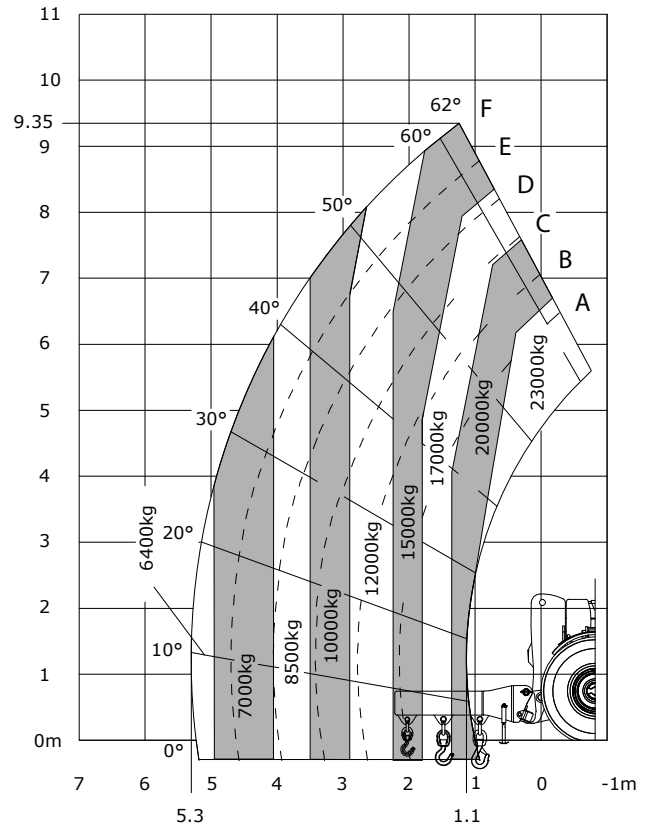


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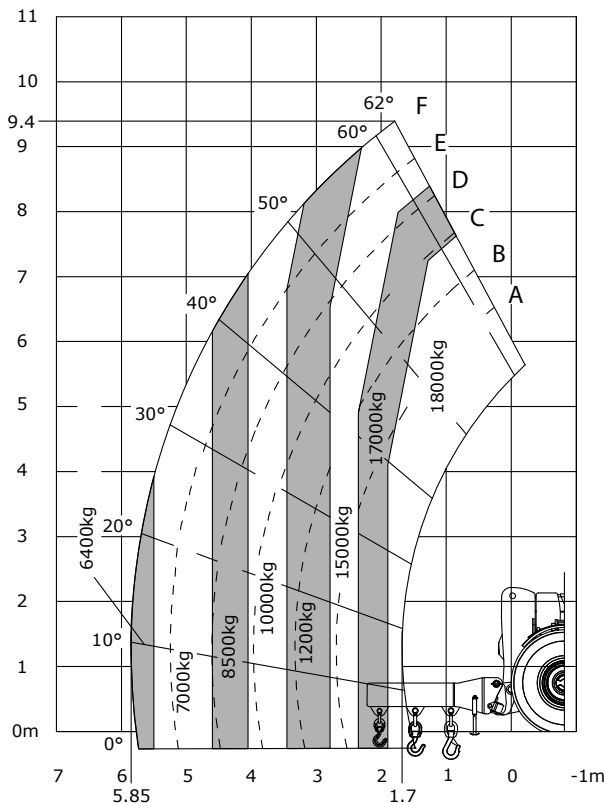
**Machine on tyres with PC25T
(Norm AS1418.19)**



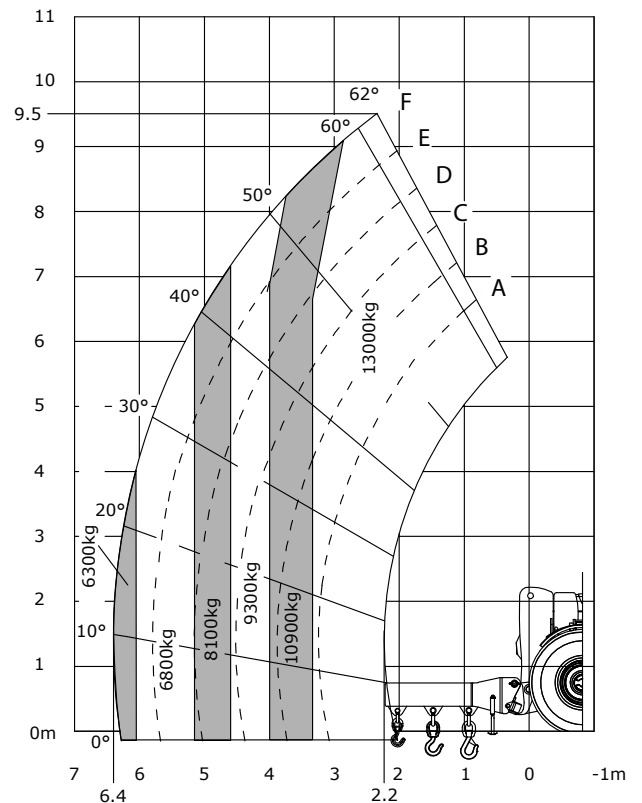
**Machine on tyres with P25000 23t
(Norm AS1418.19)**



**Machine on tyres with P25000 18t
(Norm AS1418.19)**

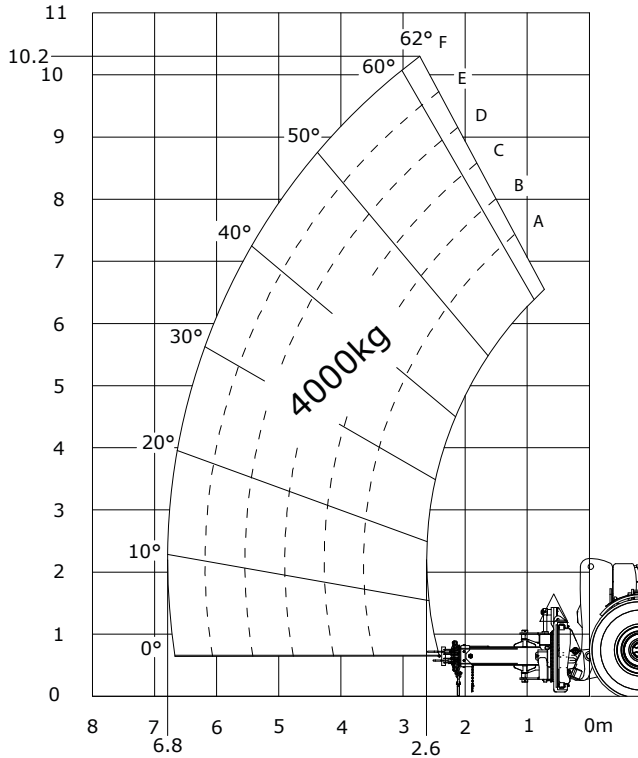


**Machine on tyres with P25000 13t
(Norm AS1418.19)**

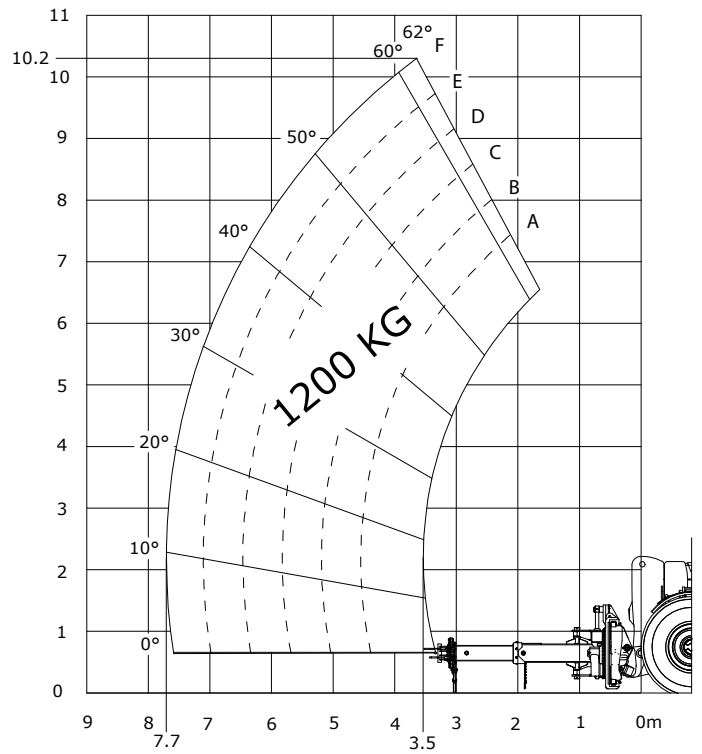


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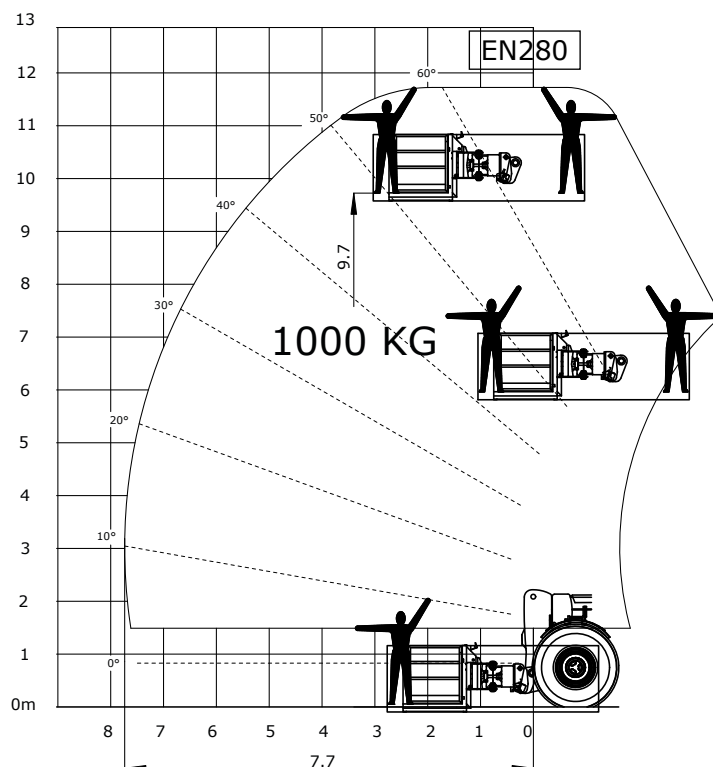
**Machine on tyres with CH4-4 tons
(Norm AS1418.19)**

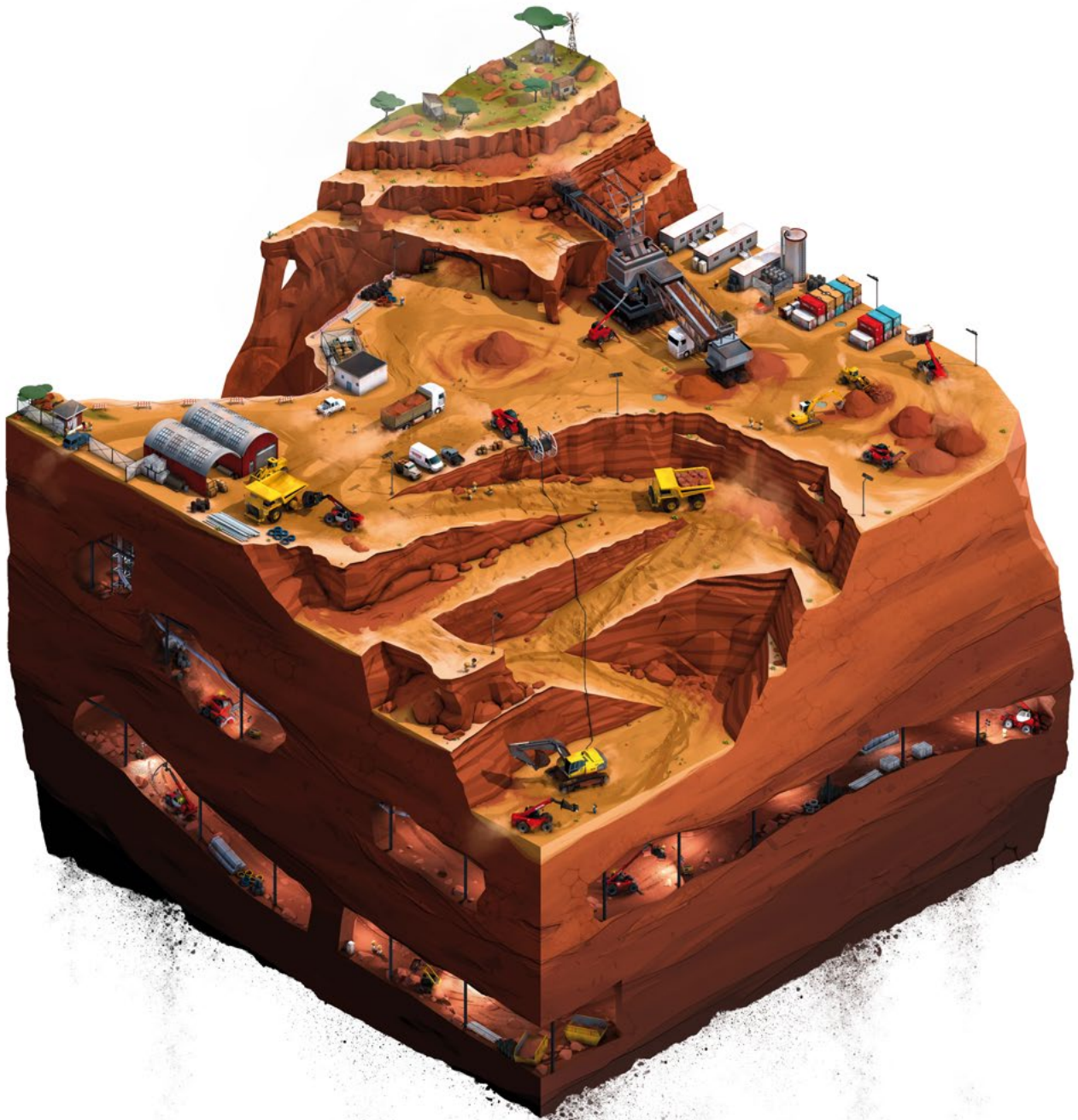


**Machine on tyres with CH4-1,2 tons
(Norm AS1418.19)**



**Machine with Platform
PSE 1000kg**





 **MANITOU**
HANDLING YOUR WORLD

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