

Technical sheet :

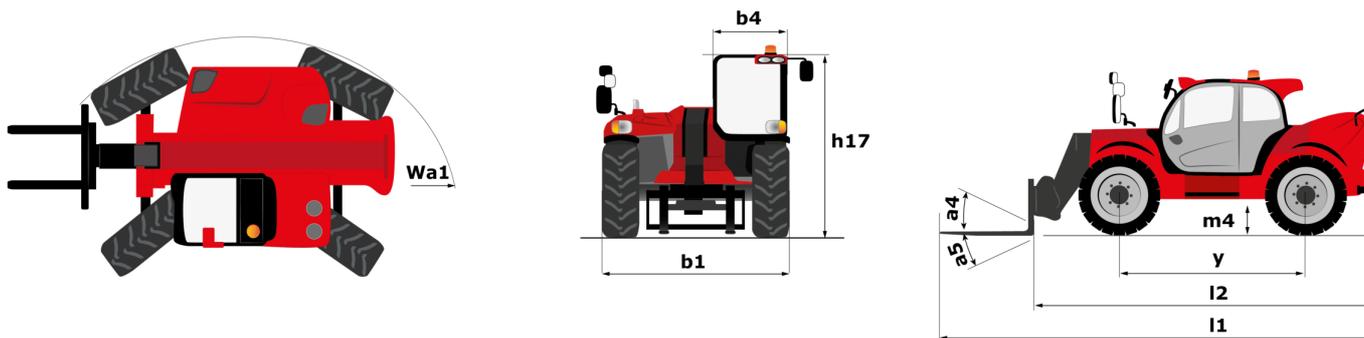
MHT 790 MINING ST5



 **MANITOU**
HANDLING YOUR WORLD

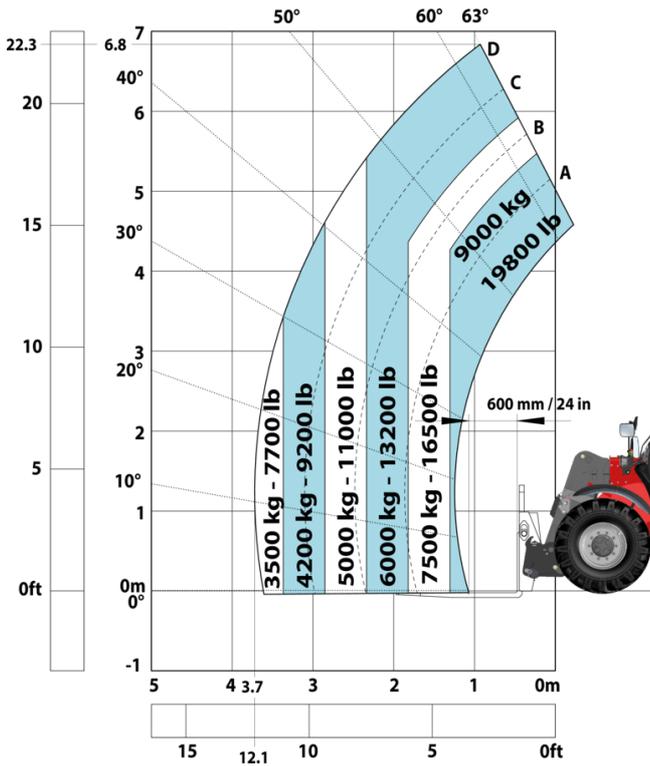
| Capacities | | Imperial |
|---|-----------|--|
| Max. capacity | | 19842 lb |
| Load center of gravity | c | 24 in |
| Max. lifting height | | 22 ft 4 in |
| Max. outreach | | 12 ft 2 in |
| Weight and dimensions | | |
| Overall length | l1 | 21 ft |
| Unladen weight (with forks) | | 29013 lb |
| Ground clearance | m4 | 1 ft 5 in |
| Wheelbase | y | 9 ft 5 in |
| Length to face of forks | l2 | 17 ft 1 in |
| Overall width | b1 | 8 ft 1 in |
| Overall height | h17 | 8 ft 2 in |
| Overall cab width | b4 | 3 ft 1 in |
| Tilt-down angle | a5 | 125 ° |
| Tilt-up angle | a4 | 12 ° |
| External turning radius (over tyres) | Wa1 | 16 ft 1 in |
| Forks length / width / section | l / e / s | 47 in x 8 in / 2 in |
| Wheels | | |
| Standard tires | | 445/65 R22,5 |
| Number of front wheels / rear wheels | | 2 / 2 |
| Steering wheels (front / rear) | | 2 / 2 |
| Drive wheels (front / rear) | | 2 / 2 |
| Steering mode | | 2 wheel steer, 4 wheel steer, Crab mode |
| Engine | | |
| Engine brand | | Yanmar |
| Engine nom | | Stage V / Tier 4 |
| Engine model | | 4TN107HT-5SMUF |
| Number of cylinders / Capacity of cylinders | | 4 - 279 in ³ |
| I.C. Engine power rating / Power | | 143 Hp / 105 kW |
| Max. torque / Engine rotation | | 444 ft/lbs@1500 rpm |
| Engine cooling system | | Water |
| Battery voltage | | 12 V |
| Drawbar pull | | 10905 daN |
| Transmission | | |
| Transmission type | | Hydrostatic |
| Number of gears (forward / reverse) | | 2 / 2 |
| Max. travel speed | | 22 mph |
| 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 | | 49 US gpm - 3916 PSI |
| Tank capacities | | |
| Engine oil | | 3 US gal |
| Hydraulic oil | | 40 US gal |
| Fuel tank | | 44 US gal |
| Noise and vibration | | |
| Noise at driving position (LpA) | | 79.70 dB |
| Noise to environment (LwA) | | 103 dB |
| Vibration on hands/arms | | < 2.50 m/s ² |
| Miscellaneous | | |
| Safety / Safety cab homologation | | Standard EN 15000 - Cabin ROPS - FOPS level 2 |
| Controls | | JSM |

MHT 790 Mining ST5 - Dimensional drawing

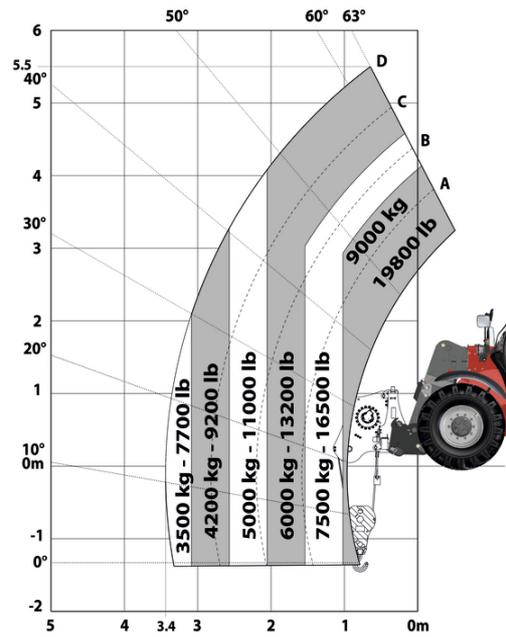


MHT 790 Mining ST5 - Load chart

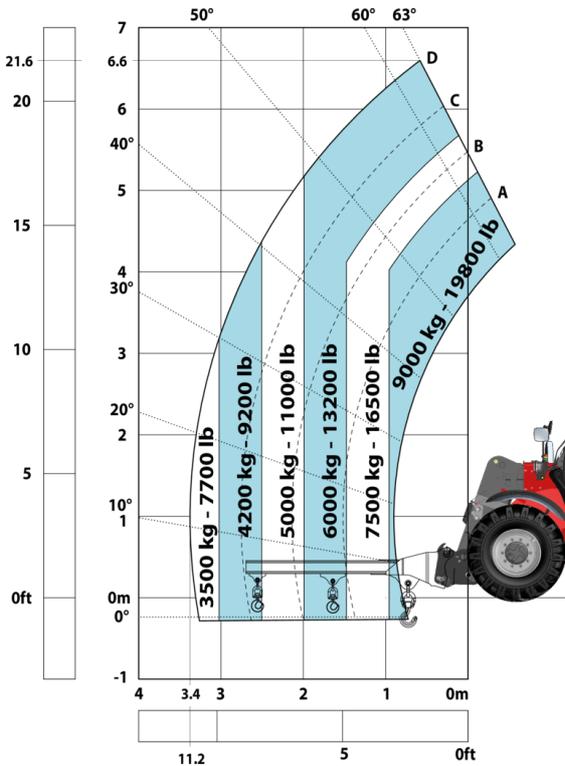
Machine on tyres with forks LC 600 mm (Imperial)



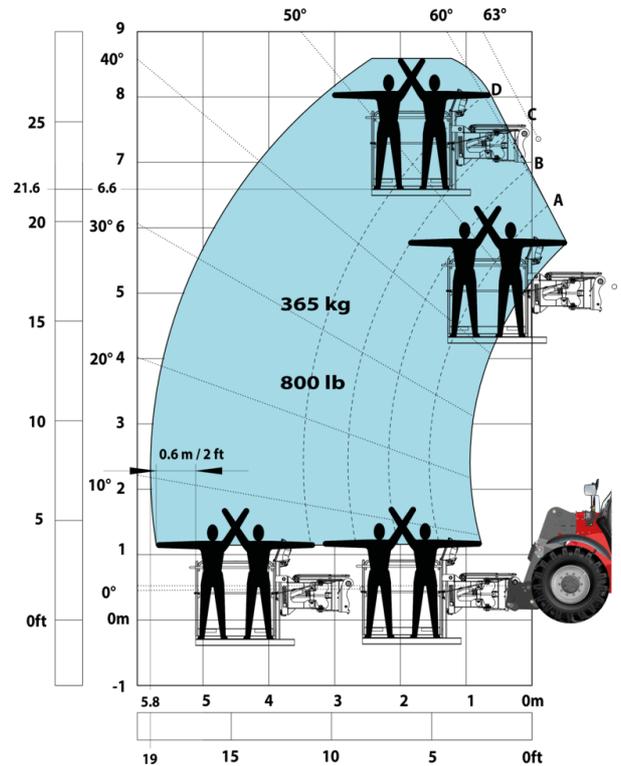
Machine on tyres with winch 9000 kg (Imperial)



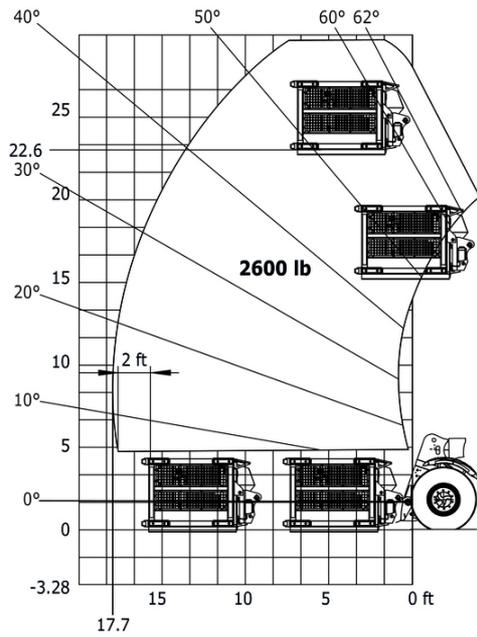
Machine on tyres with 3-hook jib 9000 kg (Imperial)



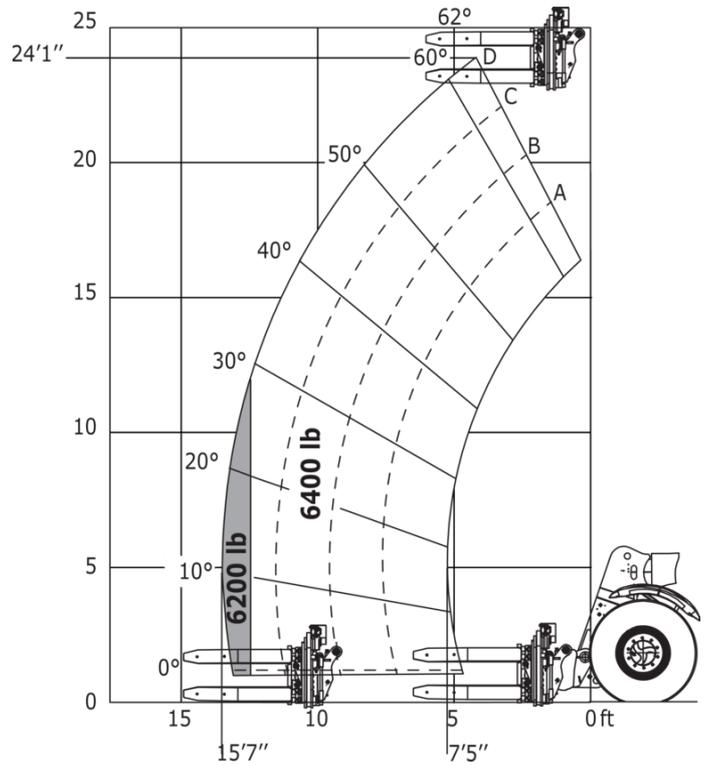
Machine on tyres with platform Imperial



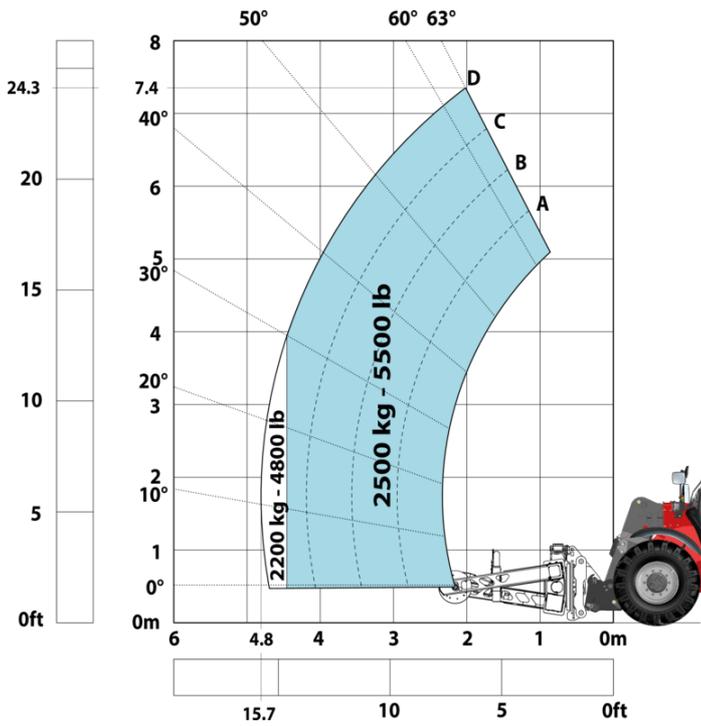
Machine on tyres with underground mining platform (Imperial)



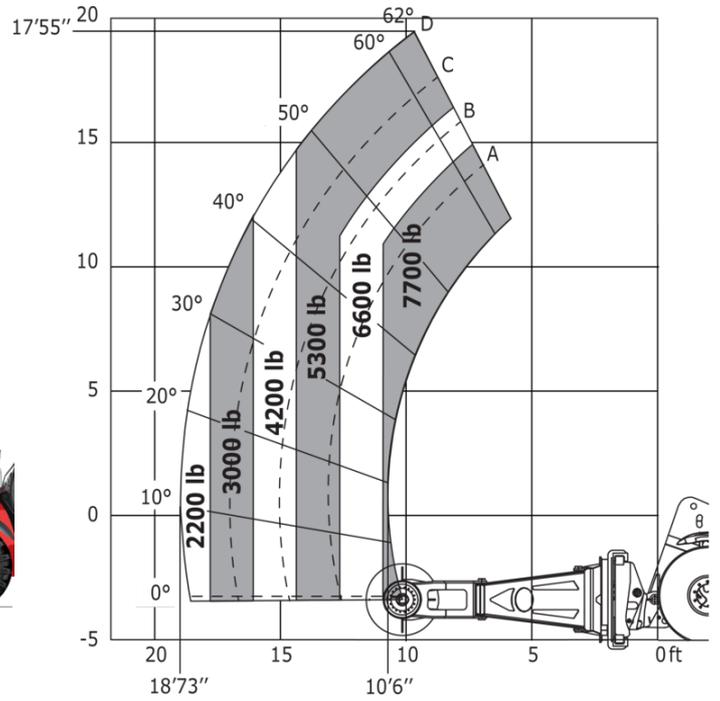
Machine on tyres with tyre handler TH 35 (Imperial)



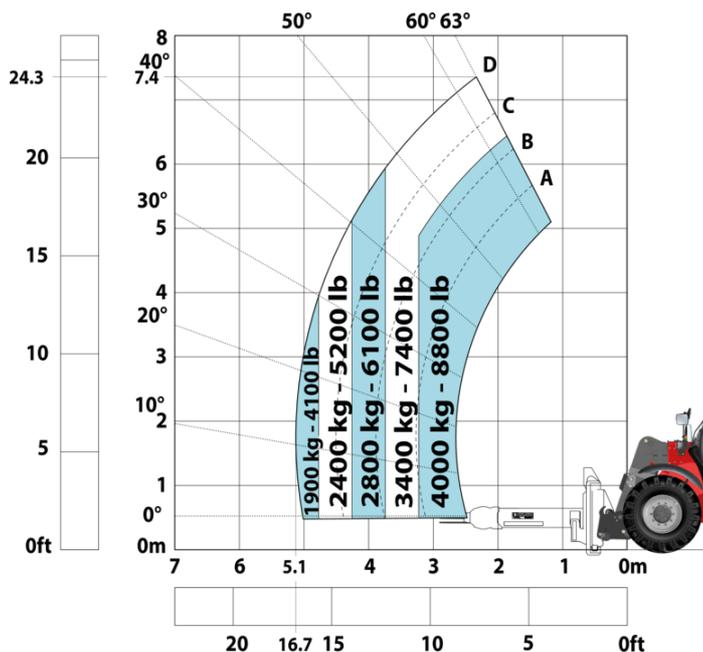
Machine on tyres with tyre handler TH 49 (Imperial)



Machine on tyres with tyre handler TH 51 (Imperial)



Machine on tyres with cylinder handler CH 4 (Imperial)



Mining Specifications

| | MHT 790 Mining ST5 |
|--|--------------------|
| Lifting function | |
| Camera in boom head with screen in cab | 0 |
| Clamp predisposition (controls from cabin) | S |
| Comfort Ride Control (CRC) boom suspension | 0 |
| Working platform predisposition with remote control | S |
| Lighting | |
| Brake Lights ON When Park Brake ON | S |
| Flat Led Rotating Beacon | S |
| LED Flashing Lights On Cabin (Marker Lights) | S |
| LED traming lights | S |
| LED work lights on the boom (x2) | S |
| LED working lights on cab (x4 : 2 front + 2 rear) | S |
| Motorization/Power | |
| Hydraulic hose sleeve burst protection | 0 |
| Radiator safety cap | S |
| Operator station | |
| Roof and Windshield Guard | S |
| Other options | |
| Battery + Starter Isolators + Jump Start Receptacle | S |
| Stainless steel tool box | S |
| Secondary functions | |
| Automatic Greasing System (AGS) - chassis + boom | 0 |
| Security | |
| "Guardian Angel" System Level 1 | S |
| 360° visibility safety system | S |
| Boom cylinder lock | S |
| Emergency steering | S |
| Emergency stop: 1 in cab, 2 on external | S |
| Extinguisher brackets (x3) | S |
| Fire suppression system | 0 |
| Fuse board protection - MHT's | S |
| High visibility reflective strips | S |
| Loose wheel nut indicators | S |
| Marking - Warning & Danger decals | S |
| Mining protection grids: right, left and back windows | S |
| Negative brakes on front & rear axles | S |
| Steel Protection Guards on all working and road lights | S |
| System with attachments recognition (E-reco) | S |
| Wheel chocks | S |

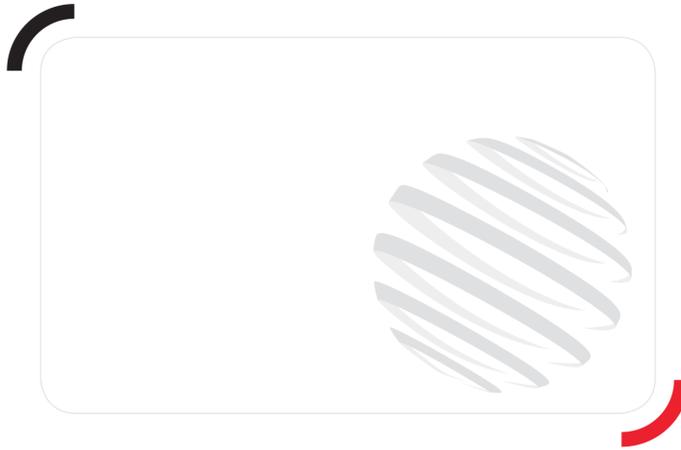
Equipment

Standard

"Guardian Angel" System Level 1
360° visibility safety system
Battery + Starter Isolators + Jump Start Receptacle
Boom cylinder lock
Brake Lights ON When Park Brake ON
Clamp predisposition (controls from cabin)
Emergency steering
Emergency stop: 1 in cab, 2 on external
Extinguisher brackets (x3)
Flat Led Rotating Beacon
Fuse board protection - MHT's
High visibility reflective strips
LED Flashing Lights On Cabin (Marker Lights)
LED tramping lights
LED work lights on the boom (x2)
LED working lights on cab (x4 : 2 front + 2 rear)
Loose wheel nut indicators
Marking - Warning & Danger decals
Mining protection grids: right, left and back windows
Negative brakes on front & rear axles
Radiator safety cap
Roof and Windshield Guard
Stainless steel tool box
Steel Protection Guards on all working and road lights
System with attachments recognition (E-reco)
Wheel chocks
Working platform predisposition with remote control

Optional

Automatic Greasing System (AGS) - chassis + boom
Camera in boom head with screen in cab
Comfort Ride Control (CRC) boom suspension
Fire suppression system
Hydraulic hose sleeve burst protection



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