

Technical sheet :

# MHT 790 MINING ST5

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| Capacities                                  |           | Imperial   |
|---|-----------|--|
| Max. capacity                               | Q         | 19842 lb   |
| Load center of gravity                      | c         | 24 in  |
| Max. lifting height                         |           | 22 ft 4 in   |
| Maximum 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-up angle                               | a4        | 12 °   |
| Tilt-down angle                             | a5        | 125 °  |
| External turning radius (over tyres)        | Wa1       | 16 ft 1 in   |
| Forks length / width / section              | l / e / s | 47 in x 8 in x 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 norm                                 |           | Stage V, Tier 4  |
| Engine model                                |           | 4TN107HT-5SMUF   |
| Number of cylinders / Capacity of cylinders |           | 4 - 279 in <sup>3</sup>                                |
| Engine power (Hp / kW)                      |           | 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  |           | 44 US gal  |
| Noise and vibration                         |           |  |
| Noise to environment (LWA)                  |           | 103 dB   |
| Vibration on hands/arms                     |           | < 8 ft/s <sup>2</sup>                                  |
| Miscellaneous                               |           |  |
| Safety / Cab certification                  |           | Standard EN 15000 - Cabin ROPS - FOPS level 2          |
| Controls                                    |           | JSM  |

## MHT 790 Mining ST5 - Dimensional drawing

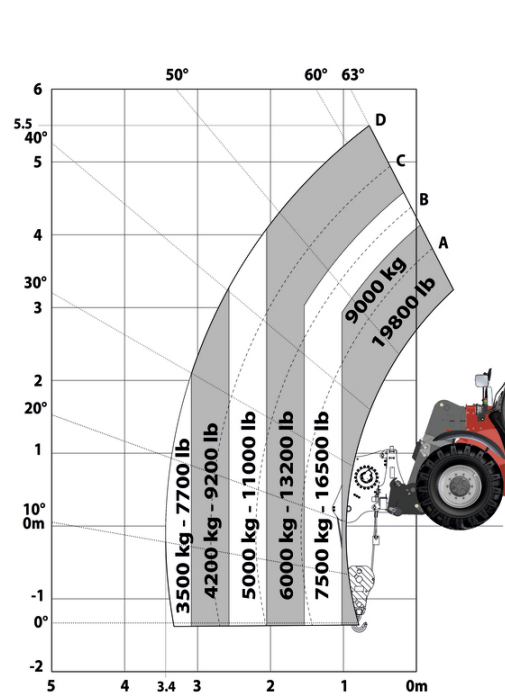


### MHT 790 Mining ST5 - Load chart

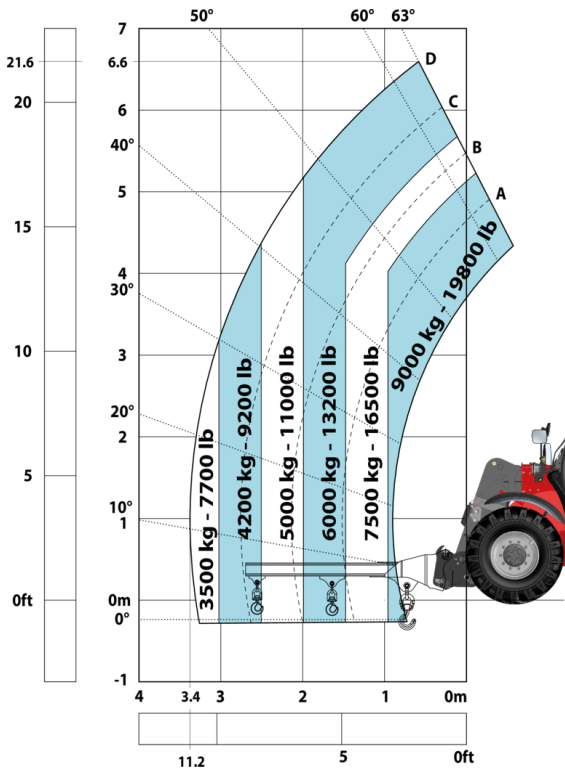
Machine on tires with forks LC 600 mm (Imperial)



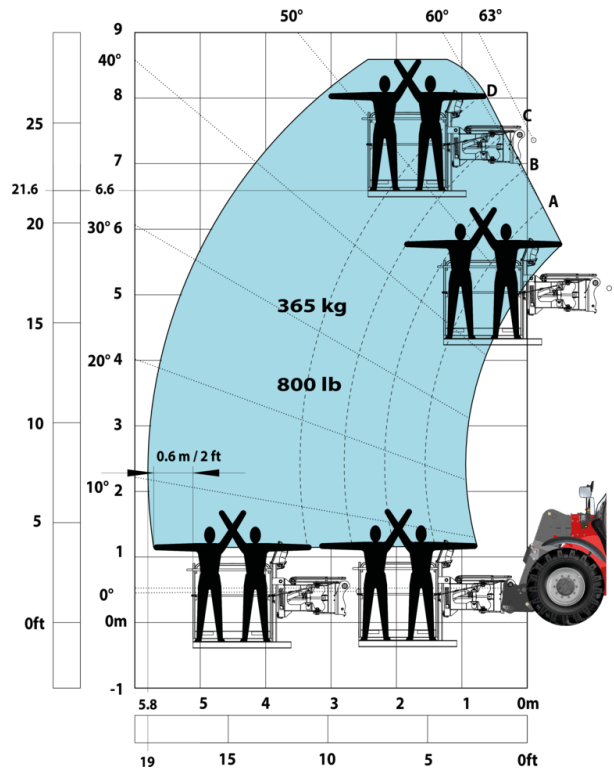
Machine on tires with winch 9000 kg (Imperial)



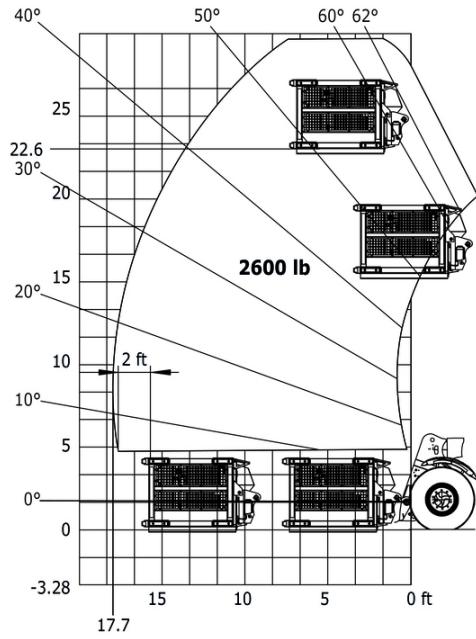
Machine on tires with 3-hook jib 9000 kg (Imperial)



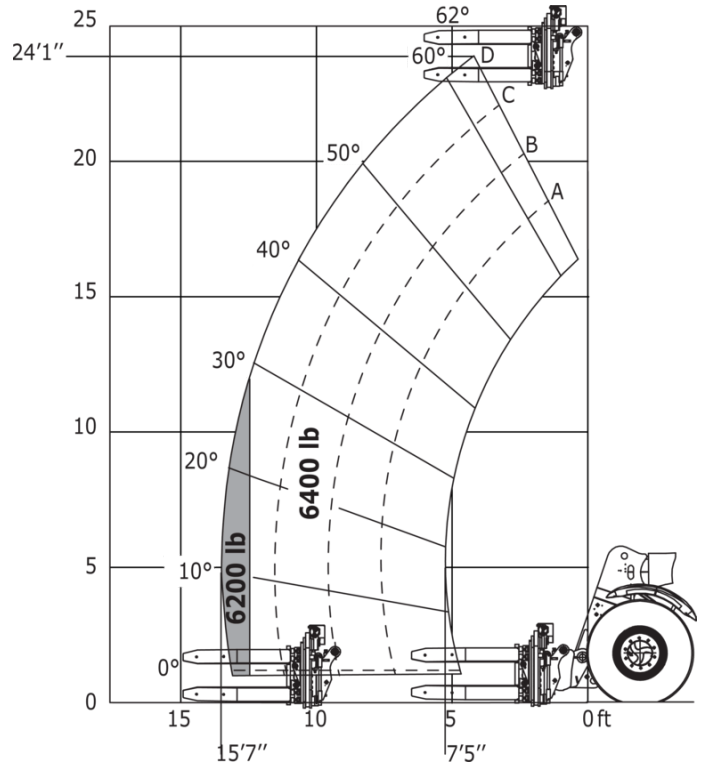
Machine on tires with platform Imperial



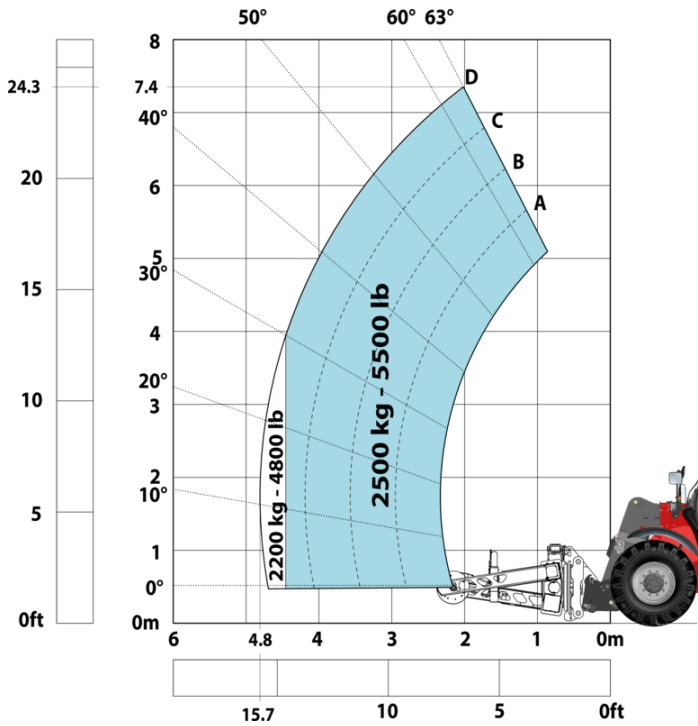
Machine on tires with underground mining platform (Imperial)



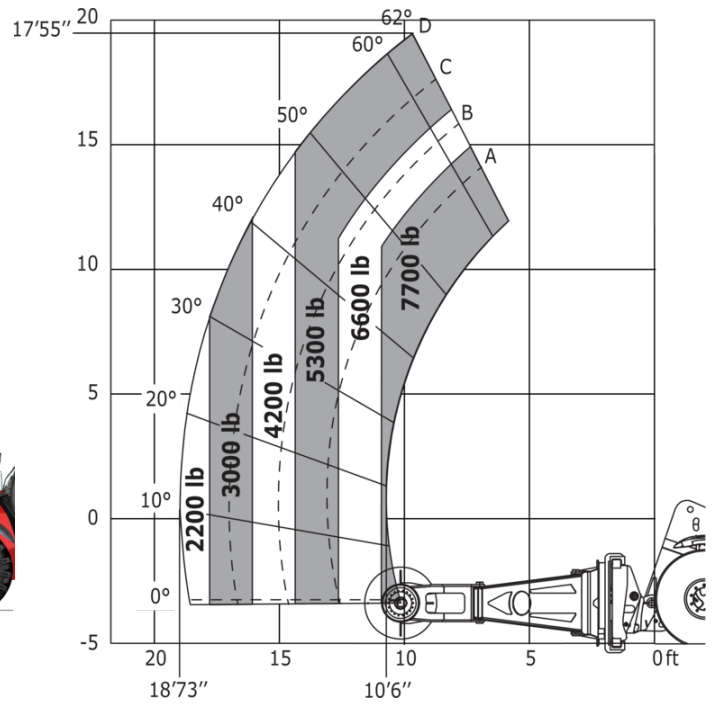
Machine on tires with tire handler TH 35 (Imperial)



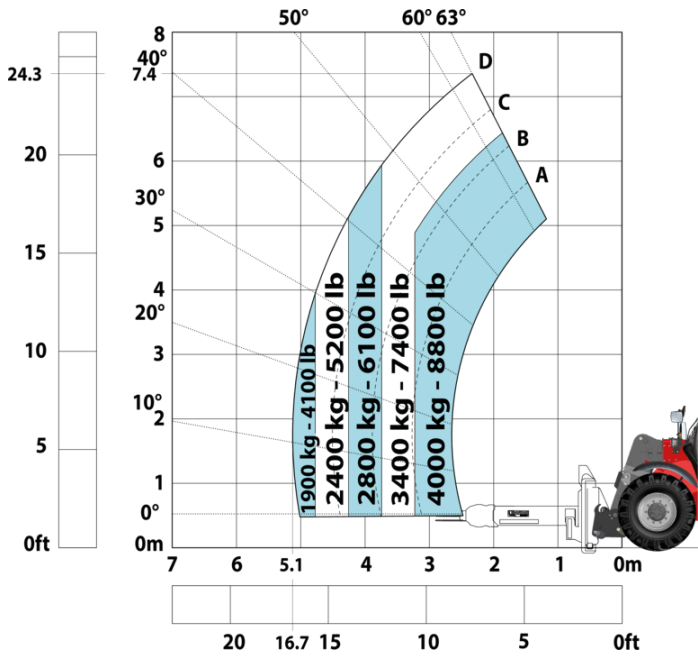
Machine on tires with tire handler TH 49 (Imperial)



Machine on tires with tire handler TH 51 (Imperial)



### Machine on tires with cylinder handler CH 4 (Imperial)



# Mining Specifications

|  | MHT 790 Mining ST5 |
|--|--------------------|
| <b>Lifting function</b>                                      |                    |
| Camera in boom head with screen in cab                       | O                  |
| Clamp predisposition (controls from cabin)                   | S                  |
| Comfort Ride Control (CRC) boom suspension                   | O                  |
| Working platform predisposition with remote control          | S                  |
| <b>Lighting</b>  |                    |
| Brake Lights ON When Park Brake ON                           | S                  |
| Flat Led Rotating Beacon                                     | S                  |
| LED Flashing Lights On Cabin (Marker Lights)                 | S                  |
| LED directional lights                                       | S                  |
| LED work lights - On boom head (Telescopic part)             | S                  |
| LED working lights on cab (x4 : 2 front + 2 rear)            | S                  |
| <b>Motorization/Power</b>                                    |                    |
| Hydraulic hose sleeve burst protection                       | O                  |
| Metal cyclonic prefilter                                     | S                  |
| Radiator safety cap  | S                  |
| <b>Operator station</b>                                      |                    |
| Roof and Windshield Guard                                    | S                  |
| <b>Other options</b>   |                    |
| Lockable battery + starter Isolators + Jump Start Receptacle | S                  |
| Stainless steel tool box                                     | S                  |
| <b>Pneumatics</b>  |                    |
| Steel mudguards  | O                  |
| <b>Secondary functions</b>                                   |                    |
| Automatic greasing system (AGS) - Chassis + boom             | O                  |
| Fast diesel filling system                                   | O                  |
| <b>Security</b>  |                    |
| "Guardian Angel" System                                      | S                  |
| 360° visibility safety system                                | S                  |
| Air intake shut-off valve                                    | O                  |
| Boom cylinder lock   | S                  |
| Emergency steering   | S                  |
| Emergency stop: 1 in cab, 2 on external                      | S                  |
| Engine compartment fire prevention kit                       | O                  |
| Extinguisher brackets (x3)                                   | S                  |
| Fire suppression system                                      | O                  |
| High visibility reflective strips                            | S                  |
| Loose wheel nut indicators                                   | S                  |
| Marking - Warning & Danger decals                            | S                  |
| Mining protection grids: right, left and back windows        | S                  |
| Rear bumper  | O                  |
| Resettable fuses - MHT's                                     | S                  |
| Right side bumper  | O                  |
| SAHR 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  
360° visibility safety system  
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  
High visibility reflective strips  
LED Flashing Lights On Cabin (Marker Lights)  
LED directional lights  
LED work lights - On boom head (Telescopic part)  
LED working lights on cab (x4 : 2 front + 2 rear)  
Lockable battery + starter Isolators + Jump Start Receptacle  
Loose wheel nut indicators  
Marking - Warning & Danger decals  
Metal cyclonic prefilter  
Mining protection grids: right, left and back windows  
Radiator safety cap  
Resettable fuses - MHT's  
Roof and Windshield Guard  
SAHR negative brakes on front & rear axles  
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

Air intake shut-off valve  
Automatic greasing system (AGS) - Chassis + boom  
Camera in boom head with screen in cab  
Comfort Ride Control (CRC) boom suspension  
Engine compartment fire prevention kit  
Fast diesel filling system  
Fire suppression system  
Hydraulic hose sleeve burst protection  
Rear bumper  
Right side bumper  
Steel mudguards



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