

Technical sheet :

# **MHT-X 790 MINING ST3A**

---



 **MANITOU**  
HANDLING YOUR WORLD

Capacities		Metric
Max. capacity	Q	9000 kg
Load center of gravity	c	600 mm
Max. lifting height		6.80 m
Max. outreach		3.70 m
Weight and dimensions		
Unladen weight (with forks)		13160 kg
Ground clearance	m4	0.44 m
Wheelbase	y	2.87 m
Length to face of forks	l2	5.21 m
Overall width	b1	2.47 m
Overall height	h17	2.50 m
Overall cab width	b4	0.93 m
Tilt-up angle	a4	12 °
Tilt-down angle	a5	125 °
External turning radius (over tyres)	Wa1	4.89 m
Forks length / width / section	l / e / s	1200 mm x 200 mm x 60 mm
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 IIIA
Engine model		4TN107HT-5SMUF
Number of cylinders / Capacity of cylinders		4 - 4567 cm³
Engine power (Hp / kW)		143 Hp / 105 kW
Max. torque / Engine rotation		602 Nm@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		35 km/h
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		185 l/min - 270 bar
Tank capacities		
Engine oil		13 l
Hydraulic oil		151 l
Fuel tank capacity		165 l
Noise and vibration		
Noise to environment (LwA)		103 dB
Vibration on hands/arms		< 2.50 m/s²
Miscellaneous		
Safety / Cab certification		Standard EN 15000 - Cabin ROPS - FOPS level 2
Controls		JSM

### MHT-X 790 Mining ST3A - Dimensional drawing



# MHT-X 790 Mining ST3A - Load chart

Machine on tires with forks LC 600 mm Metric



Machine on tires with winch 9000 kg (Metric)



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



Machine on tires with platform Metric



Machine on tires with underground mining platform (Metric)



Machine on tires with tire handler TH 35 (Metric)



Machine on tires with tire handler TH 49 (Metric)



Machine on tires with tire handler TH 51 (Metric)





# Mining Specifications

	MHTFX 790 Mining ST3A
<b>Lifting function</b>	
Clamp predisposition (controls from cabin)	S
Comfort Ride Control (CRC) boom suspension	0
Work platform pre-fitting and 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>	
Exhaust fume purification system	S
Hydraulic hose sleeve burst protection	0
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
<b>Pneumatics</b>	
Steel mudguards	0
<b>Secondary functions</b>	
Automatic greasing system (AGS) - Chassis + boom	0
Fast diesel filling system	0
<b>Security</b>	
"Guardian Angel" System	S
360° visibility safety system	S
Air intake shut-off valve	0
Attachment recognition system - E-reco	S
Boom cylinder lock	S
Emergency steering	S
Emergency stop: 1 in cab, 2 on external	S
Engine compartment fire prevention kit	0
Extinguisher brackets (x3)	S
Fire suppression system	0
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 and lateral camera with cab screen	S
Rear bumper	0
Resettable fuses - MHT's	S
Right side bumper	0
SAHR negative brakes on front & rear axles	S
Steel Protection Guards on all working and road lights	S
Wheel chocks	S

# Equipment

## Standard

"Guardian Angel" System  
360° visibility safety system  
Attachment recognition system - E-reco  
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  
Exhaust fume purification system  
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  
Mining protection grids: right, left and back windows  
Radiator safety cap  
Rear and lateral camera with cab screen  
Resettable fuses - MHT's  
Roof and Windshield Guard  
SAHR negative brakes on front & rear axles  
Steel Protection Guards on all working and road lights  
Wheel chocks  
Work platform pre-fitting and remote control

## Optional

Air intake shut-off valve  
Automatic greasing system (AGS) - Chassis + boom  
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



**Head Office**

B.P. 249 - 430 rue de l'Aubinière  
44150 Ancenis Cedex - France

Tel: +33 (0)2 40 09 10 11 - Fax: +33 (0)2 40 09 10 97

[www.manitou.com](http://www.manitou.com)



This publication provides a description of the configuration versions and options for Manitou products, which may differ for equipment. The equipment presented in this brochure may be part of a series, as an option, or it may not be available, depending on the versions. Manitou reserves the right, at any time and without notice, to amend the specifications described and represented. The specifications provided do not bind the manufacturer. For more details, please contact your Manitou agent. This is not a contractually binding document. The presentation of the products is not contractually binding. List of specifications non-exhaustive. The logos as well as the visual identity of the company are owned by Manitou and cannot be used without authorisation. All rights reserved. The photos and diagrams contained in this brochure are only provided for consultation and information purposes.

MANITOU BF SA - Limited company with board of directors - Share capital: 39,668,399 euros - 857 802 508 RCS Nantes