



Please call me with any questions, we would appreciate the opportunity to provide you with your equipment & service needs!



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DISCOVER THE POWER OF THE FRASTE ML MAX

WITH BORE LOGIC

SAFETY FOCUSED

PERFORMANCE DRIVEN

RELIABILITY PROVEN



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BASE FRAME & STRUCTURE

Manufactured with tubular pipes shaped and welded sheets, suitable for crawler carrier fitting.

Overall width: 7 ft. **Overall Weight:** 19,069-19,481 lbs.

Equipped With:

- Two hydraulic cylinders for the mast rising.
- No. 04 hydraulic stabilizers fixed at the platform corners and provided with independent control.
- All hydraulic cylinders include block valves for enhanced safety and reliability.
- Basic frame equipped with four hooks for drill rig lifting.

POWER UNIT

Engine: Caterpillar C4.4 diesel engine, 4 cylinders turbocharged with after cooler, water cooled. Includes sound proof canopy.

Displacement: 568.5 in³

Power Output: 148 HP @ 2200 RPM.

Emissions Compliance: EPA Tier 4 Final

HYDRAULIC WINCHES

Wireline Winch:

- **Single line pull:** 2,248 lbs. - 1st layer
- **Speed:** 328 ft/min.

HYDRAULIC SYSTEM

No. 01 close loop piston pump – Delivery 41.47 gpm. @ 4341psi.

No. 01 open loop piston pump – Delivery 71.32 gpm. @ 4061 psi. – in “Load Sensing”, for feeding one of the two proportional distributors with 11 and 3 elements;

No. 01 gear pump – Delivery 11 gpm @ 3190 psi. – for all other service operations; No. 01 gear pump for oil cooling;

10-micron absolute filtering system with filters on pressure and discharge lines and oil cooler.

Oil Tank Capacity: 100 gal.

CONTROL SYSTEM

Mounted on swinging arm, grouping all rig controls, adjustment valve and diesel engine controls, allowing the operator to constantly monitor functions.

FEED CONTROL SYSTEM

Adjustable feed speed, pressure and bit load from the control panel.

The **Fraste Multidrill ML Max** drilling rig - flexible, multitasking, powerful, and top productivity rate. Properly designed to be fitted with the well-known and tested FRASTE automatic drill pipes loading system “MANIPULATOR”. This is a quality and dynamic drilling rig, equipped with Stage 4 Final engine of 140 HP and suitable for Water Wells and Geothermal drilling.

MAST & FEED SYSTEM

Dump Stroke: 19.68 in.

Pipe Length Capacity: 10 ft.

Mast Construction: Steel tubular structure with draw steel lateral guides for rotary head carriage sliding. Pull-down system with hydraulic cylinder and Fleyer chain. Feeding system, pull-down pressure and bit load are adjustable from the control panel.

Pulling Mechanism:

- Pull-up force: 13,488 lbf.
- Pull-down force: 10,790 lbf.
- Stroke: 14.76 ft.

Feed Speeds: Up: 144 ft/min / Down: 134 ft/min

DRILL PIPE HANDLING

Double Hydraulic Clamp:

- For Diameters 1.5 in. - 9.8 in.
- Adjustable clamping force up to 31,473 lbf.
- Upper clamp mounted on thrust bearing, with rotation for the breaking with two hydraulic cylinders.
- Breaking Torque: 5,541 lbf.

Automatic Rod Manipulator:

- Hydraulic loading system
- Pliers with block valves and accumulators for safe grip
- Rod storage for 40 rods, 3 in x 10 ft

ROTARY HEAD

Model: R12 D060 2-speed rotary head special with HP 30 EATON motors

Speed/Torque Options:

- 2.616 ft-lbs. at 230 rpm.
- 5.232 ft-lbs. at 115 rpm.
- 3.758 ft-lbs. at 160 rpm.
- 7.810 ft-lbs. at 80 rpm.

WATER INJECTION, MUD PUMP & LUBRICATION SYSTEM

Mud Pump: Centrifugal mud pump MISSION 4x3x13". Capacity 1l/1' 1500 - pression 174 psi (12 bar).

ADDITIONAL SYSTEMS

Slewing ring: For 360° hydraulic rotation for crawler carrier.

Hydraulic Chuck (under rotary head) Jaw system for different pipe diameters (specify upon order).

Lighting: 5 LED lights: 3 on mast, 1 on stabilizer/control panel, 1 ceiling light. 12,400 Lumens total.

Compressor Unit: Integrated with Caterpillar engine with 8 gal. air tank & connectors.

Hydraulic Power Outlet: Proportional prearrangement with quick-connects, max. flow: 11.

CRAWLER CARRIER

Total Width: 7 ft.

Belt Width: 15.75 ft.

Speed: 1st 1.18 mph. / 2nd 2.11 mph.

Includes: Radio remote control with two batteries,

FINISH & PACKAGING

Paint: Bore Logic standard painting unless custom paint is requested.

- Matt Gray
- Orange

Phases of painting:

- Sandblasting of components S.A. 2 – 2.5.
- Application two layers of water-soluble epoxy resins anti-corrosive primer, with a thickness of .002 in -.0023 in.
- Application two layers of water-soluble acrylic resins enamel, with a thickness of .002 in. - .0023 in.

