



# S1500

## CATEGORY

Hydraulic machine

## APPLICATIONS

Water well drilling

## MAIN

## CHARACTERISTICS

Torque: 1600 kgm

Speed: 120 rpm

Traction force: 25000 kg

Power: 225 hp

## DRILLING METHODS

Dth hammer

Odex casing system

Drag bit

Auger

Rotary drilling

## DRILLING CAPACITIES

Depth: 0 to 600 meters (\*)

Diameter: 0 to 610 mm (\*)

## MAST

Foreseen for pipe of 6.00 meters long

Useful length: 6.60 meters

Total length: 11.20 meters

## ROTATION

Hydraulic motor double cubic capacity variable by electric control

Maximum rotation torque: 1600 m/kg

Maximum rotation speed: 120 rpm

Ratio torque - speed:

- 1600 m/kg at 60 rpm

- 800 m/kg at 120 rpm

Air / water swivel with inside passage of 4"

Connection with 3" hose up to the swivel

Rotation head retractable laterally by hydraulic jack

The rotation head is mounted on a sledge sliding on adjustable rollers

The rotation speed is adjustable manually by regulation of the oil flow

Delivered with adaptor 4"1/2 REG

## TRACTION

Hydraulic motors with brake placed at the top of the mast

Pull up capacity: 25.0 tons

Pull down capacity: 10.2 tons

Pull up speed: 40 cm/sec.

The traction speed is adjustable manually by regulation of the oil flow

## CHAIN

By triple chain with pitch of 50.8

Rupture charge: 78 tons

## HAMMER GUIDE

Passage diameter: 660 mm

With guide for rod according to drilling diameter

## DOUBLE HYDRAULIC JAWS

2 independent hydraulic jacks with fixed jaws

2 independent hydraulic jacks with mobile jaws

2 mobile independent hydraulic jacks for the releasing of pipes

Passage diameter: 660 mm

Maximum clamping diameter: 640 mm

Minimum clamping diameter: 114 mm

## HYDRAULIC WINCH OF 3 TONS

Swiveling gallows

Strength: 3 tons

30 meters of anti-tyracting cable with lifting hook

## HYDRAULIC WINCH OF 5 TONS

Fixed gallows

Strength: 5 tons

50 meters of anti-tyracting cable with lifting hook

## LUBRICATION SYSTEM

Supplied with oil lubricator with system of impulse by jack for drilling with dth hammer

Tank capacity: 30 liters



## FIXED CONTROL PANEL

Control of dumping of the mast

Control of up and down hydraulic jack

Control of stabilizers

## MOBILE CONTROL PANEL

Electric control of rotation

Control of rotation speed regulation

Control of rotation speed changes

Electric control of traction

Control of traction regulation

Control of traction speed changes

Control of lateral movement of the rotation head

Control of jack for air hammer valve

Control of the oil lubricator

Control of hydraulic jaws

Electric control of winches

Control of foam pump

Control of the mud pump (option)

Control of the welding generator (option)

Manometers of control

Emergency stops



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(\*) Indicative data without commitment



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### SUB CHASSIS

Link between the mast and the chassis

For the positioning of the mast by:

- 2 dumping hydraulic jacks
- 1 up and down hydraulic jack having a stroke of 1000 mm and allowing the support of the mast on the ground during drilling operations

### HYDRAULIC POWER PACK

Not soundproofed diesel engine CATERPILLAR of 225 HP at 2200 rpm with water cooling.

Hydraulic pumps with variable and fixed flow

Proportional distributors for rotation, traction, winches, foam pump and displacement of the rig.

Hydraulic oil tank of 350 liters

Oil cooler

Fuel tank of 250 liters

Electrical starting up

### FOAM PUMP

Driving by hydraulic system

Maximum flow: 45 l/min

Maximum pressure: 45 bars

Delivered with all accessories

### PIPE RACK

For the arrangement of drill rods

### CHASSIS

Crawler with steel tracks

Length: 3960 mm

Width: 2400 mm

Tracks width: 650 mm

Equipped with 4 hydraulic stabilizers having a stroke of 400 mm and allowing the regulation of the lateral slope of the mast

### REMOTE CONTROL

Remote control for the displacement of the drill rig

### WEIGHT

22000 kg

### COLOR

Orange

### OPTIONS

#### MUD PUMP

Screw pump with hydraulic drive

Maximum pressure: 12 bar

Maximum flow: 60 m3/h

Delivered with all accessories

#### WELDING GENERATOR

Welding power: 200 A

Power generator:

220v: 3 KVa

380v: 5 KVa

#### AIR COMPRESSOR

#### IMPORTANT:

The technical characteristics can be modified without advance notice



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