

# E412T

***Tunnel hydraulic crawler drill***

**on the job site**



# Tunnel hydraulic crawler drill

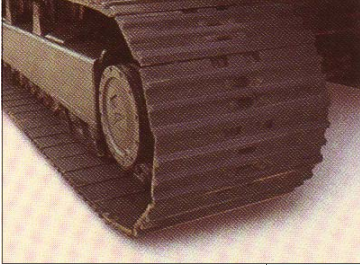
# E412T



Total weight	42.000Kg
Diesel engine	Caterpillar 3116TA
Engine power	260/192 HP/KW
Max. drilling height	8.000 mm
Min. drilling height	900 mm
Max. drilling radius	6.200 mm
Min. drilling radius	3.600 mm
Rotary max. torque	2.500 Kgm
Rotary stroke	14.500 mm
Feed/retract	10.000 Kg



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**Components**

**Undercarriage**

- Heavy duty type, "X" shaped frame
- Track width           mm   2500
- Length                mm   4250
- Pitch                  mm   3400
- Pads                   mm   600
- Slewing ring for upper frame rotation, gear box, brake and motor.


**Diesel engine**

- Type                    Caterpillar C7 ACERT
- Max.power            HP/KW 300/224
- Turbocharged, aftercooled (high performance, fuel economy)
- Exhaust gas suppressing catalitic muffler


**Rotary head (on customer choice)**

- Type	Enteco RM25	Krupp HB60A	Eurodrill HD8021
- Operation	Rotation	Rotopercussion	Rotopercussion
- Torque Kgm	2500	2500	2100
- RPM	0 - 90	0 - 80	0 - 80
- Blows no.	/	2400	2100


**Feed-retract system**

The rotary head carriage is pulled along the mast by wire rope double wound on the winch. The winch is operated by an axial piston motor type Rexroth.

The wire feed-retract system is superior to the chain system because the wire shock absorbing capacity is far greater than the chain. The wire solution lasts longer and requires less maintenance. The cost of replacing the wire is about 20 times less than the cost to replace the chain.


**Rod holder - rod breaker - rod centering**

- Type		ME 220	ME 260	ME 350
- Rod handling	mm	40-220	40-260	60-350
- Clamping force	Kg	11.000	13.500	21.000
- Breakout force	kgm	2.800	3.500	5.500

**Components****Hydraulic system**

- Load sensing type (including load compensator)
- Main variable piston pump Rexroth
- Hydraulic oil tank capacity 460 litres

**Control panel**

- The control panel for drilling and machine positioning is mounted on two swinging arms permitting the panel to be positioned and locked where best desired on the machine deck.
- Rotary head RPM and torque, hammer blows and pressure, feed and feed force can be regulated from "0" to max directly from the control panel.

**Positioning indicators**

- Radial angle indicators in the forward and rear slewing ring, boom vertical slide indicators and boom telescopic indicators.
- All the indicators are clearly visible from the operator control panel on the deck.

**Electric system**

- Electric main panel mounted on a water tight closet includes a diesel engine control and safeties protection.
- The system is equipped with safeties for machine movements: max radial inclination and horizontal diagonal swing of the mast.

**Rod carousel**

- Rod carousel for one or two rods.
- A third carousel can be added to grip the inner rod (drilling with casing)