DBC S 15 Fully hydraulic core drill

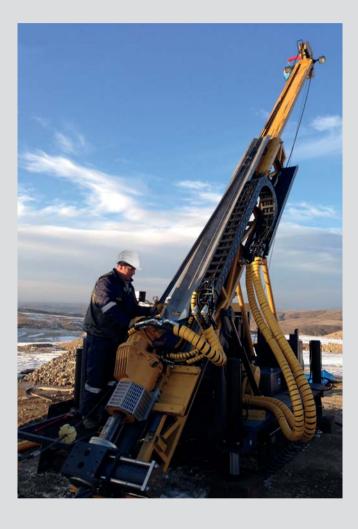




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DBC Drill Rig Product Range

- Surface and underground drill rigs
- Fully hydraulic with rod handling synchronization.
- CE certified
- The most advanced robot arm and rod elevator system









S 15 Benefits to Improve your Drilling Performance

- Safe and fast rod handling Patented rod elevator provides very efficent and safe operation.

- A rotation unit with optimal torque and speed.

Easy to adapt for different diameters geological conditions.

-Simple and reliable chuck. Very few moving parts, widely adjustable gripping force, easy to service.



- Direct acting feed cylinder. For quick rod handling at all depths.

- Crawler carriage. Powered from the same diesel engine with drilling operations.

- Simple, robust power unit with a triple hydraulic pump. Triple pump permits independent regulation of feed and rotation. Equipped with a power take-off for driving a flush pump. Easy access for maintenance.

- Efficent filtration protects the hydraulic circuit and control console from contamination that can enter the circuit when hydraulic hoses are disconnected. Return filters are mounted on the power unit

- Water Flow Meters and RPM gauges (optional equipment) provide additional information for the driller.

- DDP- Digital Drilling Package. Including digital levelling gauge, boom angle display, penetration rate display (cm/min), ultrasonic flush water flow meter, fuel level in tank, all parameters for engine operation



Capacities Drill rod size

Approx.	drilling	depth

B wireline	1540 m
N wireline	1200 m
H wireline	800 m
P wireline	475 m

"The above capacity values only serve as a guideline, and refer to vertical, downward drilling in homogeneous rock

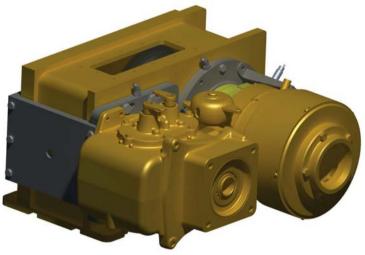
Rotation unit

Rotation unit and spindle speeds

Power: hydraulic motor – variable speed/ reversible Final drive: 6 in chain driven in oil bath – 2,

ratio Spindle (inner diameter): 117 mm Spindle speeds:

Speed,	Max. rpm	Max. torque, Nm
1st	200	5200
2nd	420	2500
3rd	770	1350
4th	1300	780



Range selection: manual control from operator's station Hydraulic off- hole shift

The critical part of S 15 is the strong rotation

unit operating with very low noise level. A special bearing system prevents the entering of the cuttings into the rotation unit and separate cover makes the servicing an easy job.

Chuck assembly

Type: hydraulic open, spring closed Maximum inside diameter: 117 mm Holding capacity: 18000 kg

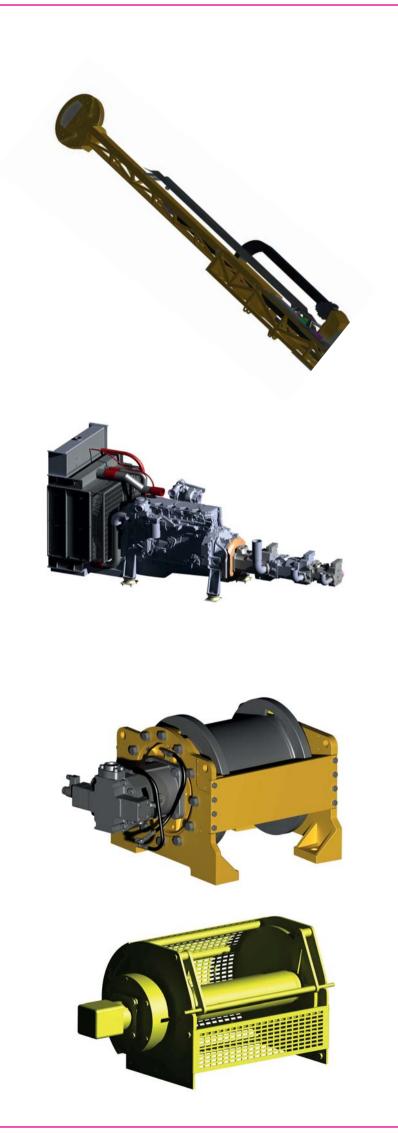
Rod Holder

Type: hydraulic open, gas spring closed Maximum inside diameter: 210 mm Holding capacity: 13 000 kg



Mast and feed system

Telescopic mast Feed travel: 3,5 m Feed speeds: fast and slow with variable control Feed force: 60 kN Retract force : 140 kN Drilling angle: 40 to 90 degrees Rod pull length: 6,10 m



Power unit

Manufacture: Cummins Model: QSB6,7 Tier III Volume: 6,7 liter 6 cyl. Power: 153 kW (208 hp) RPM: 1800 Engine type: Diesel turbocharged/after cooled Cooling: Water

Hydraulic system

Main pump: 310 bar – 250 l/min Service pump: 250 bar – 130 l/min Auxiliary pump: 220 bar – 50 l/min Hydraulic oil cooling: Air

Main hoist

Single line capacity: Bare drum 80 kN Line speed: Bare drum 40 m/min Cable size: 35 m x 16 mm

Wireline Hoist

Capacity: 1800 m of 4,76 mm 950 m of 6,35 mm Line pull: bare drum: 12 kN full drum: 3,0 kN Line speed: bare drum 120 m/min full drum 460 m/min Optional: self levelling system **Drill base supports** Support: 4 hydraulic jacks Pad diameter: 200 / 230 mm Travel length: 550 mm

Weight S15 with crawler : 9500 kg

Dimensions (L – W – H) Transport on drill site (top mast not extended: 6370 mm -2550 mm- 2340 mm



Flush pump

DBC flush pumps are designed for both mud and water flushing. The distribution block is prepared for mounting of accumulator, adjustable steady flow valve and other optional equipment.

DBC 140H

Flow 140 l/min

Pressure 70 bar

Weight 210 kg

Patented rod elevator

The rod elevator has 3 positions; drilling, rod adding and rod lifting and eliminates the need of an additional helper in the mast



All you need for core drilling

- * FASTDRILL drill bits
- * Heat treated wireline rods
- * Friction welded rods
- * Wireline core barrels
- * Adapters, fishing tools
- * Plastic core boxes
- * Full grip wrenches



JAN



TOTAL CORE DRILLING TECHNOLOGY

DBC MAKİNA SANAYİ VE TİCARET LTD. ŞTİ. Mermerciler San. Sitesi. 23.Sk. No:9 PK:41455 Köseler-Dilovası-Kocaeli / TURKEY Phone: +90 (262) 658 26 30 - Fax: +90 (262) 658 20 55 info@dbcmakina.com - www.dbcmakina.com

