



SOLID DRILLING SOLUTIONS

DRILL RIG
C1500

TECHNICAL
OVERVIEW





DRILL RIG C1500



- **MOBILITY** - The C1500 Drilling Rig is equipped with drilling mast capability to unload. Options are available for skid or crawler travel. Also, as an addition to the crawler, it is possible to equip it with a stand-alone diesel engine.
- **RELIABILITY** - Ease of operation and maintenance maximizes plant convenience and efficiency
- **SAFETY** - The C1500 Drilling Rig is designed for long-term operations, taking into account the prevention of possible safety risks.



DRILL RIG C1500



CONTROL PANEL - FUNCTIONAL PANEL DESIGN, PROVIDES EASY OPERATION.

HYDRAULIC DESIGN - LOAD-SENSITIVE HYDRAULIC SYSTEM SUPPORTS ENERGY SAVING.

MAST - 360° DRILLING CAPABILITY IN ANY PART OF THE MINE WORKINGS.

SYNCHRONIZATION - THE PIPE HOLDER AND ROTATOR WORK SYNCHRONOUSLY THANKS TO THE VALVE BLOCK DESIGN. THIS FEATURE ENSURES FAST AND SAFE DRILLING.



ROTATION UNIT - THE FUNCTIONAL DESIGN OF THE ROTATOR ALLOWS WORKING WITH DIAMETERS FROM B TO N

CATERPILLAR BASE - WITH OPTION TO DRIVE INDEPENDENT DIESEL ENGINE TO POWER THE TRACK YOU GET MORE FREEDOM OF MOVEMENT IN UNDERGROUND CONDITIONS.





TECHNICAL INFORMATION C1500

DRILLING RECOMMENDATIONS

BRO/BO	2900M
NRO/NO	2000M
NROV-WALL™	2300M
HRO/HO	1350M
HROV-WALL™	1500M
PHD/PO	800M
PHDV-WALL™	900M

THE VALUES GIVEN IN THESE TABLES ARE CALCULATED BASED ON THE PULLING FORCE OF THE MAIN WINCH IN WELLS WITH FLUSHING FLUID AND A ROCK STRENGTH OF 5 MPa. THE ACTUAL DRILLING RESULTS DEPEND ON THE DOWNHOLE TOOL USED, ITS CONDITION, THE EQUIPMENT USED, THE FLUID LEVEL IN THE WELL AND THE DRILLING TECHNIQUES.

DIESEL ENGINE	CUMMINS, FORD, VOLVO, DEUTZ
POWER (AT 1800RPM)	153-194kW (203 hp.)

RATED TORQUE AND SPEED

1ST GEAR	122-199 RPM	5322-3254 Nm
2ND GEAR	245-410 RPM	2648-1620 Nm
3RD GEAR	439-714 RPM	1486-908 Nm
4TH GEAR	769-1250 RPM	849-519 Nm

ACCORDING TO THE INFORMATION GIVEN, THE SPEED AND TORQUE AT THE OUTPUT OF THE HEAD IS ADJUSTED STEPLESSLY IN EACH GEAR RANGE. THE ACTUAL SPEED IS DETERMINED BY THE ENGINE SPEED AND THE VOLUME SETTING OF THE HYDRAULIC MOTOR.

HYDRAULIC SYSTEM

MAIN PUMP

VARIABLE DISPLACEMENT AXIAL PISTON PUMP WITH
LOAD SENSING, PRESSURE COMPENSATION AND LOW
PRESSURE IDLE.

MAX. FUEL CONSUMPTION	190l/m
MAX. PRESSURE (FACTORY SETTING)	28MPa

SERVICE PUMP

VARIABLE DISPLACEMENT AXIAL PISTON PUMP WITH
LOAD SENSING, PRESSURE COMPENSATION AND LOW
PRESSURE IDLE.

MAX. CONSUMPTION	65l/m
MAX. PRESSURE	20MPa

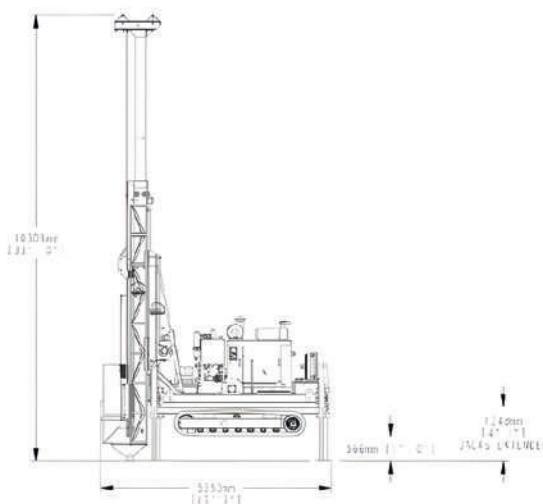
AUXILIARY PUMP

VARIABLE DISPLACEMENT AXIAL PISTON PUMP WITH
LOAD SENSING, PRESSURE COMPENSATION AND LOW
PRESSURE IDLE.

MAX. CONSUMPTION	90l/m
MAX. PRESSURE	18MPa
TANK CAPACITY	400l

DRILLING MAST AND FEED SYSTEM

FEED WAY	3,35m
FEED FORCE (MAX.)	213.7Kn
FEED POINT (MAX.)	108,4Kn
DRILL ROD LENGHT	3m or 6m
DRILLING ANGLE 45° FROM HORIZONTAL TO 90° VERTICAL DOWNWARD	
LOWERING THE MAST (QUICK FEED)	2,34m
TELESCOPIC MAST	RELATED





TECHNICAL INFORMATION C1500

ROTATION UNIT MODULE ROD HOLDER

ROTATION ENGINE REXROTH

TRANSMISSION NUMBERS

1ST GEAR 6.27:1

2ND GEAR 3.12:1

3RD GEAR 1.75:1

4TH GEAR 1.00:1

FINAL GEAR ROLLER
CHAIN DRIVE

NUMBER OF GEARS 02:01

HEAD OPENING LATERAL DISPLACEMENT
METHOD - HYDRAULIC DRIVE

HYDRAULIC CLAMPING HYDRAULIC SPRING-
CHUCK PQ OPERATED OPENING. AXIAL
LOAD CAPACITY 18,143kr

NUMBER OF GEARS 1-2,5

DRILL HEAD HYDRAV. OPENING BY SPRINGS.
224,000N AXIAL LOAD CAPACITY

OIL FILTRATION FOR DRILL HEAD SUCTION OIL FILTER FILTERS
LUBRICATION OUT PARTICLES AS SMALL AS
25micron

MAIN WINCH

FREIGHT WINCH SINGLE-SPEED ENGINE.

HOOK LOAD (ONE-PIECE ROPE)

EMPTY DRUM 35m/sec

MAIN WINCH ROPE 15mm or 18mm

MIN. BREAKING POWER 226.0 kN

NOTE: DO NOT USE MULTI-COMPONENT ROPES ON THE MAIN WINCH, USE
SINGLE-COMPONENT ROPES ONLY

ROTATION UNIT MODULE ROD HOLDER

TYPE HYDRAU. OPENING, CLOSING
WITH GAS SPRINGS

MAX. INNER DIAMETER 210mm (8,3in)

LOAD CAPACITY 13,000kg (28,660lb)

ROPE PULLING FORCE EMPTY DRUM
12 kN

ROPE PULLING FORCE FULL DRUM
2.2 kN

ROPE SPEED EMPTY DRUM
123m/cek

ROPE SPEED FULL DRUM
321m/cek

DRUM 4.8mm (3/16")
STAMPED 1890M

NOTE: THE ROPE LENGTH IS SPECIFIED WHEN ORDERING

ADDITIONAL SKID FRAME,
EQUIPMENT AND WHEELED FRAME, REMOTE
AUXILIARY CONTROL PANEL, HYDRAULIC
EQUIPMENT GENERATOR,
DRILLING MUD MIXER,

DIMENSIONS AND WEIGHT

CRAWLER WEIGHT 12 000kg

OVERALL WIDTH 2350mm

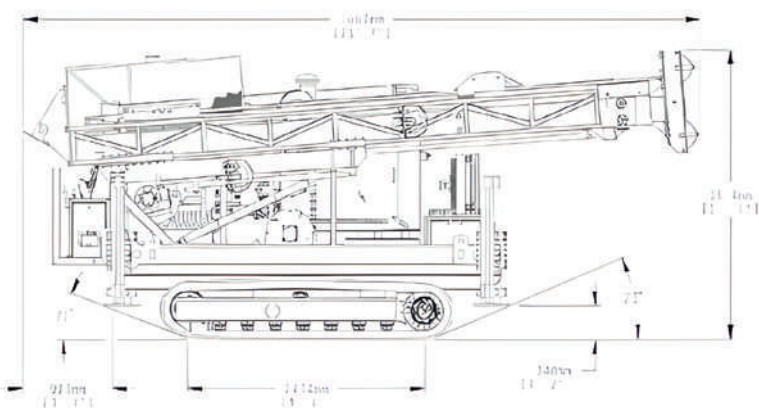
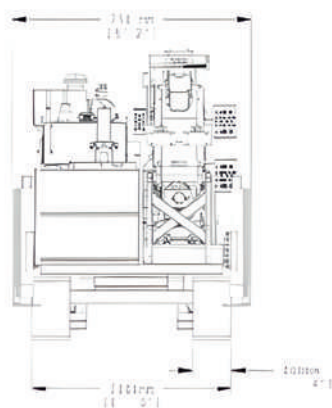
OVERALL LENGTH 6950mm

GENERAL EIGHT 2550mm

TANK CAPACITY 400l

BATTERY 24V

MAX. SPEED 2.4km/h









SDS

SOLID DRILLING SOLUTIONS

OUR BRANCHES

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