

## SOLID DRILLING SOLUTIONS





## **DRILL RIG C1000**



- MOBILITY The C1500 Underground Drilling Rig is equipped with a 360-degree drilling mast. 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 Underground 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	2900м	
NRO/NO	2000м	
NROV-WALL™	2300м	
HRO/HO	1350м	
HR0V-WALL™	1500м	
PHD/P0	800м	
PHDV-WALL™	900м	

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.

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

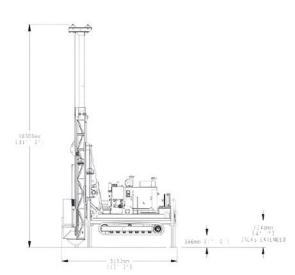
RATED TORQUE AND SPEED			
1ST GEAR	122-199 RPM	5322-3254 Nm	
2ND GEAR	245-410 RPM	2648-1620 Nm	
3RD GEAR	439-714 RPM	1486-908 Nm	
4TH GEAR	769-1250 RPM	849-519 Nm	

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.

#### ГИДРАВЛИЧЕСКАЯ СИСТЕМА

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) 28MP	
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 MAS	T AND FEED SYSTEM
FEED WAY	3,35m
FEED FORCE (MAX.)	213.7Kr
FEED POINT (MAX.)	108,4Kn
DRILL ROD LENGHT	3m or 6m
DRILLING ANGLE 45° FROM HOR	IZONTAL TO 90º VERTICAL DOWNWARD
LOWERING THE MAST (QUI	CK FEED) 2,34m
TELESCOPIC MAST	RELATED







## TECHNICAL INFORMATION C1500

#### **ROTAYION 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 CHUCK PQ	HYDRAULIC SPRING- 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 LUBRICATION	SUCTION OIL FILTER FILTERS OUT PARTICLES AS SMALL AS 25micron	
MAIN WINCH		
FREIGHT WINCH	SINGLE-SPEED ENGINE.	
HOOK LOAD (ONE-PIECE ROPE)		
EMPTY DRUM	35m/sec	

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

15mm or 18mm

226.0 kN

MAIN WINCH ROPE

MIN. BREAKING POWER

#### **ROTAYION UNIT MODULE ROD HOLDER**

TYPE	HYDRAV. OPENING, CLOSING WITH GAS SPRINGS
MAX. INNER DIAMETER	210мм (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 123м/сек
ROPE SPEED	FULL DRUM 321м/сек
DRUM 4.8mm (3/16") STAMPED	1890м

#### NOTE: THE ROPE LENGTH IS SPECIFIED WHEN ORDERING

ADDITIONAL

EQUIPMENT AND

AUXILIARY

EQUIPMENT

BUIPMENT

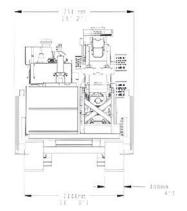
CONTROL PANEL, HYDRAULIC GENERATOR,

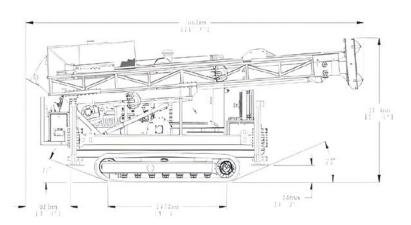
GENERATOR,

DRILLING MUD MIXER,

#### **DIMENSIONS AND WEIGHT**

CRAWLER WEIGHT	12 000kg
OVERALL WIDTH	2350мм
OVERALL LENGTH	6950мм
GENERAL EIGHT	2550мм
TANK CAPACITY	400l
BATTERY	24V
MAX. SPEED	2.4km/h















## **OUR BRANCHES**

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