



**INDEPENDENT
DRILLING SUPPLIES**

IDS GC 45K GRADE CONTROL DRILL RIG

HIGH PRODUCTIVITY
CAPACITY 45,000 LBF
POWERFULL TOP DRIVE HEAD
COMPRESSOR 1350/1150 CFM
FULLY HAND FREE
ROD BIN ON BOARD
SAMPLING SYSTEM
DUST COLLECTOR

INNOVATION DEVELOPMENT SAFETY

GRADE CONTROL DRILL RIG

Diesel Engine

Cummins QSK19 755-800 HP @ 1800 RPM
Optional QSK 23 Tier II, 950HP @ 1800 RPM

Track base

Strickland SS40
Two speed motor
3.2 kph Max tramming Speed.
Remote control tramming

Compressor

Sullair 1150- 1350cfm@350psi – 900-1150cfm@500psi
Optional 1500cfm@350psi – 1350cfm@500psi
With clutch Twin Disk SP214

Booster Onboard (Optional)

Air Research type
Capacity at maximum inlet 1600 cfm
Maximum inlet pressure 350 psi
Maximum discharge pressure 1000 psi

Rotation Head Top Drive

Two motors Char-Lynn type 10K 40.6 in³/rev
Hollow Floating spindle ID: 80 mm, 4½" API IF box thread
Displacement: 12000 lbft (16270 Nm)
Speed range 5 -130 rpm.

Mast

Heavy Duty section mast structure
Capable of angles from vertical to 45°
2000mm (6.6 ft)mast dump

Head Traverse

Driven by one hydraulic cylinder, 2:1 rope system
Traverse Up Speed 830 mm/sec (2.72 ft/s)
Traverse Down Speed 622mm/sec (2.04 ft/s)
7.6m (25 ft)stroke with rotation head

Feed Capacity

Pull Down 100.08 kN (22500 lbf)
Pull Back 200.16 kN (45000 lbf)
Optional 266.89 kN (60000 lbf)

.Jack Legs

Heavy Duty cylinder with pilot check and flow fuse safety valves
Extra large pads for better ground stability

Water Pump

FMC (Bean) W1122BCD
140 LPM (37 GPM) @7000KPa (1000 PSI)
Powered from rig hydraulic system

Rod Spin Guard

Cage off the rotating rods remote control.
Easy open & close Hydraulically from operator panel
Interlocked with rotation
Reduces rotation speed to 0 rpm when cage is opened

Break Out System

Metzke Makorbreak Hydraulic breakout wrench

Make and Break drill rods
Self Adjusting & Supported
Hook with Jaw 90 to 140mm

Metzke MB550 Hydraulic Double breakout wrench

Hands Free operation
Dual function – Breakout and Make Up joints
Gripping range 90 - 140mm

Metzke hydraulic table assembly

Hydraulic centralizer 4-1/2" to 12".
Double U hydraulic spanner.

Sampling system and Dust collector

Metzke Sampling system 1800 cfm
Dust collector
Cyclone with Metzke splitter adjustment 3% to 15%
Can be controlled from the cabin or remote

Cabin Control Panel

FOPS rated enclosed air-conditioned & heated cabin, dust free.
Pivoting cabin off rear right corner of machine
Easy self-explanatory layout
Easy access for basic maintenance and repairs
Fully sealed control panel with all electrical instrumentation
Good visibility at all mast angles and rod handler

Hammer Lubricator

60 Liter (15 .8 Gal) lubrication tank
Air operated pump
On/Off and flow control from control cabinet

Air Circuit

Rig Air circuit with 2 Auxiliary inlets
2" Airline from Inlet to Swivel
Hydraulically actuated 2" Ball valves for air On/Off and Air Vent
100Psi Pressure reducer for service Air
Water injection into Air circuit.

Rod Handler KI style and Rod bin on board

Handle 6m pipe lengths
Remote control
Rod Bin Capacity to carry 192 m of 4-1/2" rods.
Hydraulic Tilt rods right to present rods to rod handler

Jib Boom

Actuated by hydraulic cylinder for raise/lower
Actuated by hydraulic hourglass worm for left/right
Winch with lifting capacity of 680kg (1500 lbs)

RC Drilling Accessories

Bottom side entry air swivel
Top mounted sample Swivel
Head tube

GRADE CONTROL DRILL RIG

Hydraulics

Remote control Rig Setup
Parker variable Flow pumps, Char-lynn type orbit motors,
Danfoss main valve, Danfoss PVG auxiliary valve,, Sun cartridges

Theoretical Rated Depth Capacity

45000LB Pullback 4 ½" RC pipe 450m (1476 ft)

Optional

60000LB Pullback 4 ½" RC pipe 550m (1804 ft)

Dimensions depending on configuration

Platform Width 3,200mm (10.5 ft)

Mast Length 11,200mm (36.7 ft)

Overall Height 4,300mm (14.1 ft)

Weight 50,000 kg

Optional Features

Compressor 1520 / 1350

Carrier options

Pullback 60,000 LBF

Clients color choice.

Automatic Fire suppression system

FOPS rated enclosed air-conditioned & heated cabin, dust free.

Blind spots camera

Safety Features

Guards on all rotating equipment

Anti slip surfaces on all work platforms

Handrails on all work platforms

Emergency stops in control cabinet and on both sides of machine

Heat guards on all exhaust manifolds and piping

Two certified 10kg (22lb) fire extinguishers.

Standard Features

Easy accessible control panel for general maintenance

Clear easy to read and self-explanatory controls.

Warning horn and traffic light to alert drill crew.

Central grease point for wire line and top sheave wheels

Easy accessible oil drain stations for engine, hydraulic tank, FMC pump

Fully sealed electrical panel

Hydraulic test points on all pumps, motors, and spool banks

Lockable Battery isolation switch

Fuel tank gauge

Clearly labeled oil type and grades on all oil fill points

Flashing light, and standard mine site lighting

Mast ladder

Rig platform access ladders and steps

Large fully adjustable offside platform

All product designed with standard imperial materials. All

threads are either UNC or UNF. All hydraulic valves bodies,

pumps, motors use common SAE O-ring boss adaptors



Independent Drilling Supplies S.A.

Hermanos Carrera Pinto 161 Parque Industrial Los Libertadores

Colina – Santiago

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