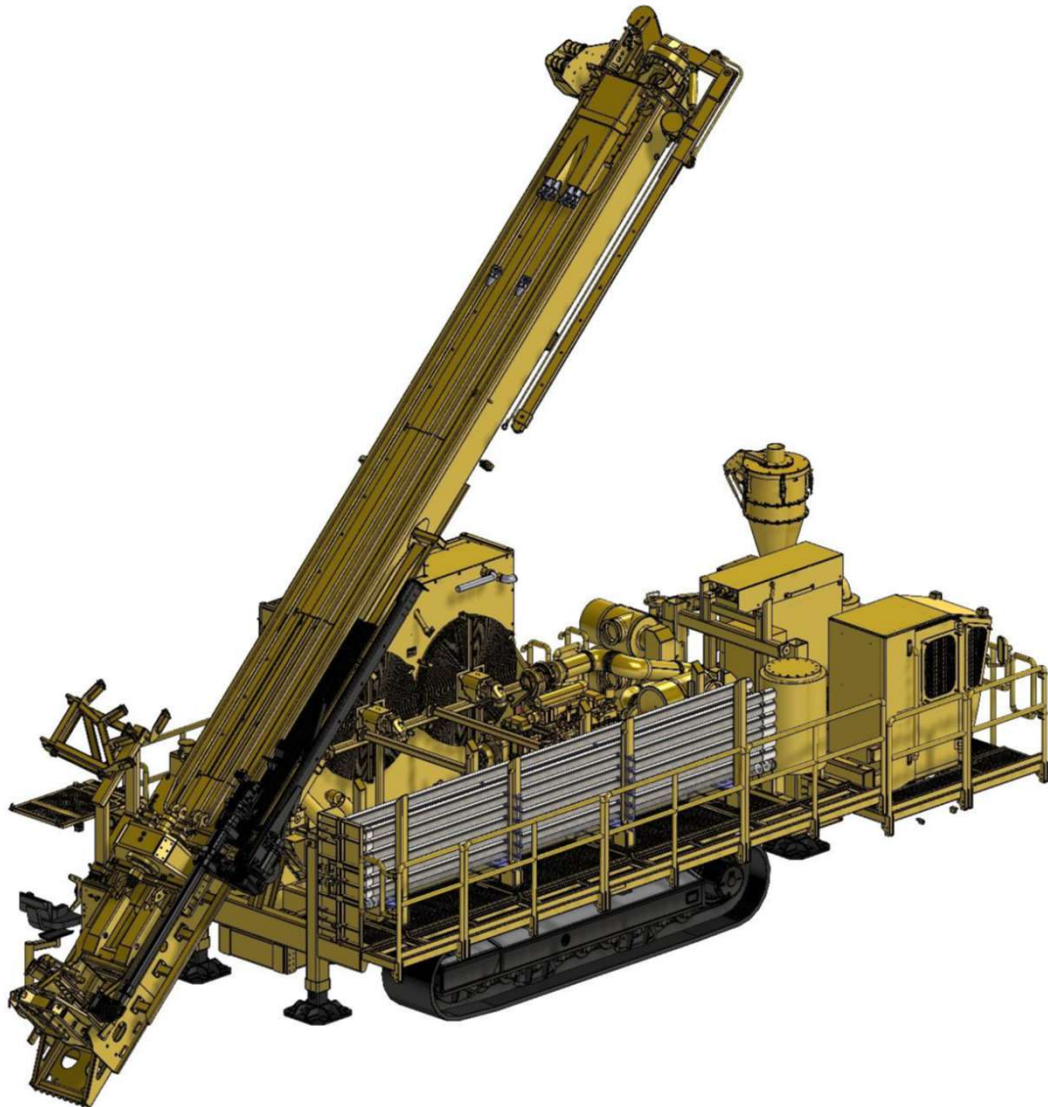


IDS-MP-45K

MULTIPURPOSE DRILL RIG



The IDS multipurpose track mounted drill rig is the best choice for diamond coring and reverse circulation drilling applications. The inclusion of "IDS" (Innovation, Development & Safety) technologies suggests integrated features focused on enhancing drilling performance and ensuring worker safety.

The rig is built with heavy-duty, factory-installed components and accessories to handle demanding operating conditions.

It features a sealed, climatized cabin to protect operators from dust and extreme temperatures, enhancing safety and operational comfort.

IDS rigs are designed and built to provide maximum performance and reliability, even in extreme environments, it's suitable for the most challenging exploration sites.

Diesel Engine

Caterpillar C15 DIT ATTAC 580hp@1800rpm ACERT

Track base

Strickland SS40

Two speed motor 3.2 kph Max tramming Speed.

Remote control tramming

Compressor

Sullair 1050cfm@350psi

With clutch Twin Disk SP214

Rotation Head Top Drive 250cc/rev Motor

Hollow Floating spindle ID 70 mm, 3½" API IF Pin thread

Two speed, Low/High manual gear change

Low Maximum displ. 8124 lbft (11,014Nm) @155rpm

Low Minimum displ. 4062 lbft (5507 Nm) @309 rpm

High Maximum displ. 1948 lbft (2642 Nm) @645 rpm

High Minimum displ. 974 lbft (1321 Nm) @1289 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 kN (22,500lbf)

Pull Back 200kN (45,000lbf)

Main Hoist

Mounted on top of mast (Type Braden RW300)

Max pull 178kN (40,000 lbf)

Max speed 75m/minute (246 ft/min)

Failsafe brake mechanism

Winch limiter to prevent cable overrun

Wire Line Winch Mounted on mast pivot plate

Capacity 6mm (¼") rope: 2000m (6560 ft)

Max pull from full to empty drum 16.4kN (3,680 lbf)

Max speed from full to empty drum 7m/s (23 ft/s)

Automatic rope tracking device

Wire line winch overrun limiter with wiper

Jack Legs

Heavy Duty cylinder w/ pilot check & flow fuse safety valves

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

Rod Clamp and Slip Table

Hydraulic operated, self energising rod clamp

Easy to remove jaws

Common jaws from 44.5mm to 177.8mm (B+, N+, H+ P+ and PWT casing) (1.75" – 7")

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

Rod Break Out

Metzke Makorbreak Hydraulic breakout wrench

Make and Break drill rods

Self Adjusting & Supported

Hook with Jaw 90 to 140mm.

Metzke MB550 Hydraulic breakout wrench

Hands Free operation

Dual function – Breakout and Make Up joints

Gripping range 90 - 140mm

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

Extra large pads for better ground stability

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

Water Pump

FMC (Bean) W1122BCD

140 LPM (37 GPM) @7000KPa (1000 PSI)

Powered from rig hydraulic system.

Hammer Lubricator

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

Air Circuit 1000 psi Rated

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

RC Drilling Accessories

Bottom side entry air swivel
Top mounted sample Swivel
Head tube

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)

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

4 ½" – Dual Wall RC pipe
450 m (1462 ft)

Main Hoist 178 kN (40,000 Lb)

N – 1675m (5359 ft)
H – 1136m (3635 ft)
P – 751m (2402 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 45,000 kg

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.
Automatic fire suppression system.

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

Warranty

1 Year / 5000 hrs

Optional Features

- Clients color choice
- Fire suppression unit

“Welcome to our world”

