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***Design, Manufacture and Supply of Earth Boring Machines and Equipment
Ontwerp en Vervaardiging van Grond-boormasjiene en Toerusting***

TECHNICAL SHEET: SR3000 EX (EXCAVATOR MOUNTED) DRILL RIG

The SR3000 EX Drill Rig is a robust and simple yet reliable and capable machine. This rig has no electronic systems that control any functions, thus eliminating untimely and unforeseen standing time due to dust ingress, thereby increasing machine availability, reliability and of course production.

The derrick is fabricated from hollow drawn steel tubes and hot-rolled sections. Sheave wheels are attached to the top and bottom of the derrick and steel wire rope is passed over them and fixed to a carriage that carries the rotary head. The carriage runs on heavy-duty sliding blocks which almost eliminates wear. A hydraulic cylinder is mounted within the derrick and is used to activate the up and down movement of the rotary head.

The rotary head consists of a single high torque rotary motor coupled to an air swivel with extra heavy-duty bearings which take all forces produced during drilling operations. The bull shaft on the air swivel has a choice of 4.5-inch REMET or 102 ARD or a 3.5" API thread to which the drill string is attached. A Hydraulic two-speed system comes standard on all machines.

All hydraulic controls are fitted into an ergonomic control panel within easy reach of the operator making the operation of the machine very easy and simple. A fingertip down feed valve ensures even pressures during drilling operations.

The working table consists of removable half-moons combined with replaceable guide collars, which when removed, easily allows 305mm diameter tools to pass through.

The drill rig's power pack is powered by the excavator's hydraulic system.

Keeper keys, break-out spanners and a rod guide bush are supplied to suit the drill string.

A hydraulic rod breaker facilitates the breaking and making of stubborn drill rods.



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Export Customs Code: 00653225

Members: GGM JOOSTE (MANAGING), EVA KIRSTEIN



The "SR3000" is a very simple and easy machine to operate and maintain. Being locally designed and manufactured with over two hundred machines running in the mining, exploration, water well and piling industries proves that the "SR3000" range is a very popular and robust choice amongst drilling contractors.



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MAST	ROTARY HEAD
<p>Fabricated from hollow drawn steel tube and hot-rolled sections. Sheave wheels are attached to the top and bottom of the derrick and steel wire rope is passed over them and fixed to a carriage that carries the rotary head.</p> <p>Mast Raising Cylinders - 2</p> <p>Mast Locking - Hydraulic actuated pin</p> <p>Rod Loader Options - Hydraulically operated 7-rod carousel (7 x 6m = 42 meters)</p>	<p>Options</p> <ul style="list-style-type: none"> - Radial piston motor coupled to SRD air box @ 5250nm & 100 RPM - SRD Gearbox from 5250nm to 9000nm & 100 RPM
GENERAL SPECIFICATIONS	FEED SYSTEM
<p>Lighting - LED Lights</p> <p>No of Emergency Stops - 4</p> <p>Protection guards on all hot surfaces</p> <p>Strobe light on cab roof</p> <p>Lock-out protection</p>	<p>Type - Cylinder and 20mm steel wire rope via sheave wheels</p> <p>Pull Back - 12 Ton factoring in wire rope safety factor</p> <p>Down Force - 10 Ton</p> <p>Feed Speed Up Rate - 0.78m/s or 1.285s/m</p> <p>Feed Speed Down Rate - 1.3m/s or 0.76s/m</p> <p>Stroke - 7500mm / 7.5m</p>
DRILLING PARAMETERS	
<p>Hole Diameter - 3" - 12"</p> <p>Maximum Depth @ 6.5" - 300m (factoring in wire rope safety factor)</p> <p>Hydraulic Carousel Capacity - 42m</p> <p>Single Pass - 6m</p>	
COMPRESSOR CAPACITY	UNDERCARRIAGE (EXCAVATOR)
<p>Flow Rate - 1200 CFM</p> <p>Pressure - 23 Bar</p>	<p>Capacity - 20 Ton MINIMUM</p>
HYDRAULIC SYSTEM	DUST SUPPRESSION
<p>System powered by Excavator's hydraulic system;</p> <p>Oil Type - Hydraulic 68</p> <p>Rig Pumps - 3 Stages, Gear Pumps @ 200 Bar</p>	<p>Type - Duplex Piston pump</p> <p>Water Displacement - 21 Litre/Min @ 200 Bar</p> <p>Water Tank Capacity - +- 500 Litre</p>
HAMMER LUBRICATION	
<p>Type - Venturi system</p>	

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