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

TECHNICAL SHEET: SR750 DRILL RIG

The **SR750** water-well/ reverse circulation drill rig is a robust, simple reliable and capable machine. This drill 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 then of course production.

The derrick is fabricated from hollow drawn steel tube and hot-rolled sections. The feed cylinder has a 5.5 meter stroke and is coupled to an inner derrick, which carries the rotary head.

The rotary head is our SRD Gearbox type which was designed by Super Rock Drills and is manufactured in-house. Extra heavy-duty bearings, take all forces produced during drilling operations. The bull shaft on the air swivel has a 4.5" remet / 102 ARD or a 3.5" API thread to which the drill string is attached. A built-in shock absorber on the head minimizes vibration and shock loads to the machine and drill string. A hydraulic two-speed system is fitted as a standard to all machines. The rotary head is fitted to an inner derrick, which runs inside the outer derrick on six heavy-duty sliding blocks which almost eliminates all wear. Apart from reverse circulation drilling the rotary head can do open hole DTH hammer, mud rotary, air rotary, auger, tricone and RAB drilling.

Four hydraulic outriggers are fitted to the outer corners of the rig for easy and accurate levelling of the rig.

Twin hydraulic cylinders are used to raise and lower the derrick. All hydraulic controls are fitted into a single panel in front of the operator, making the operation of the machine very easy and simple even for unskilled operators. A fingertip down feed valve is fitted to ensure 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. Guide bushes are supplied to suit the drill string.



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Members: GGM JOOSTE (MANAGING), EVA KIRSTEIN



The drill rig's power pack consists of a four-cylinder Kirloskar engine close coupled to our tried and tested hydraulic system. All necessary air, fuel and oil filters are included.

A optional hydraulic rod breaker facilitates handsfree rod breaking.

A 10-litre inline oil lubrication for DTH hammer drilling is fitted as a standard.

The **SR750** is a very simple and easy machine to operate and maintain. Being locally designed and manufactured with over 150 machines running in the mining, exploration, water well and piling industries proves that the **SR750** range is a very popular and robust choice amongst drilling contractors.



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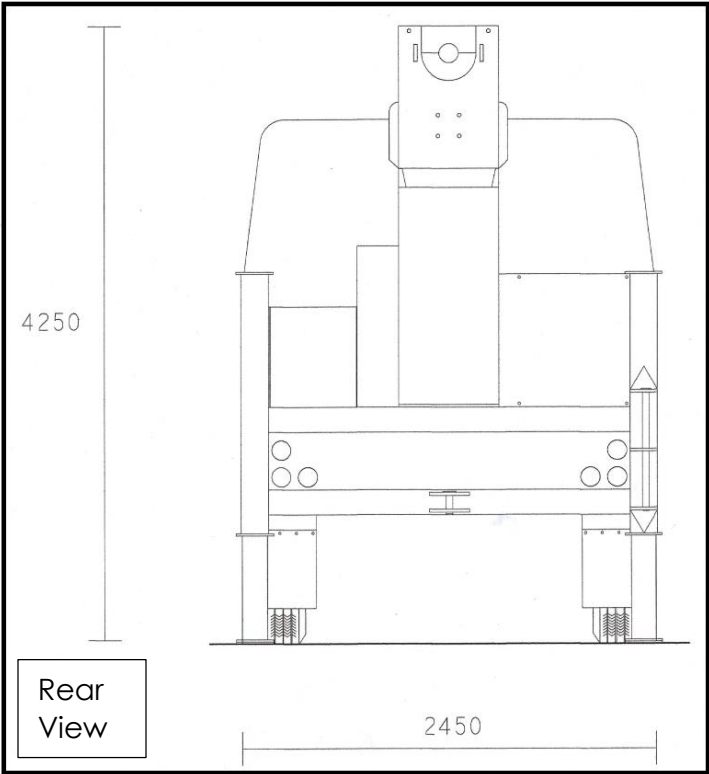
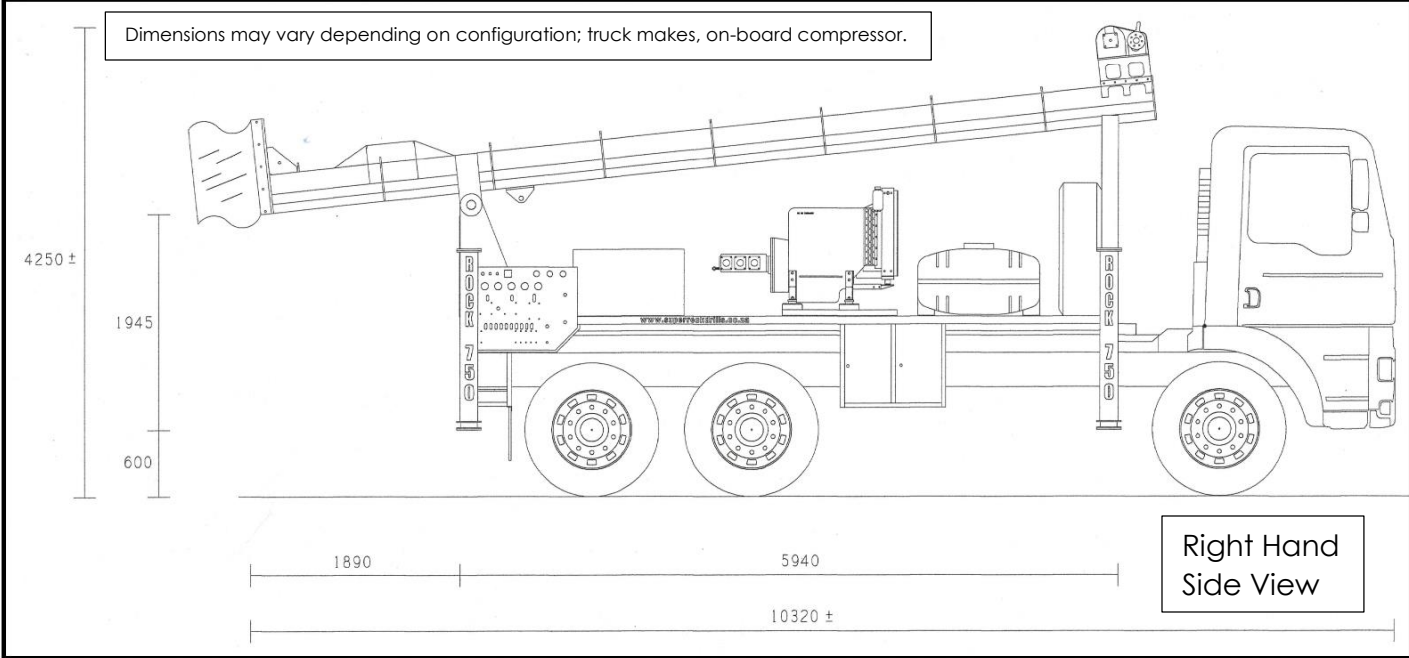


MAST	ROTARY HEAD
<p>Fabricated from hollow drawn steel tube and hot-rolled sections. Telescopic design, direct cylinder couples the inner derrick to the outer derrick. No cables or chains are required.</p> <p>Mast Raising Cylinders - 2</p> <p>Mast Locking Options - For vertical drilling - Dump mast for angle drilling</p> <p>Rod Loader Options - Single: Manually swung 6-rod carousel - Double: Manually swung 6-rod carousel</p>	<p>Options - SRD Gearbox 6000nm & 100 RPM Standard (*Optional 4000nm - 12000nm)</p> <p>- B100 Staffa Motor</p>
DRILLING PARAMETERS	FEED SYSTEM
<p>Hole Diameter - 3" - 18"</p> <p>Depth Calculation(1) - Maximum depth using 25kg/m drill string will be 536m @ 20% safety margin</p> <p>Depth Calculation(2) - Maximum depth using 25kg/m drill string will be 450m @ 43% safety margin</p> <p>Single Pass - 5m</p>	<p>Type - Telescopic direct cylinder</p> <p>Pull Back - 16 Ton</p> <p>Down Force - 5.7 Ton</p> <p>Stroke - 5500mm / 5.5m</p>
RECOMMENDED COMPRESSOR CAPACITY	DECK ENGINE
<p>Flow Rate - 1200 CFM</p> <p>Pressure - 23 Bar</p>	<p>Make - Kirloskar</p> <p>Engine Type - 4R1040</p> <p>Rating kW/HP - 56/76</p> <p>RPM - 1800</p>
HYDRAULIC SYSTEM	DUST SUPPRESSION
<p>Oil Type - Hydraulic 68</p> <p>Rig Pumps - Gear Pumps @ 200 Bar</p>	<p>Piston pump - 21l/min @ 200 Bar</p>
HAMMER LUBRICATION	GENERAL SPECIFICATIONS
<p>Type - Venturi system - 10 Litres</p>	<p>Lighting - LED Lights</p> <p>Emergency Stops</p> <p>Protection guards on all hot surfaces</p> <p>Lock-out protection</p>
DRILLING TYPES	
<p>Types - Reverse Circulation (RC)-Optional - Open Hole DTH - Mud Rotary-Optional - Air Rotary - Auger - RAB Drilling</p>	

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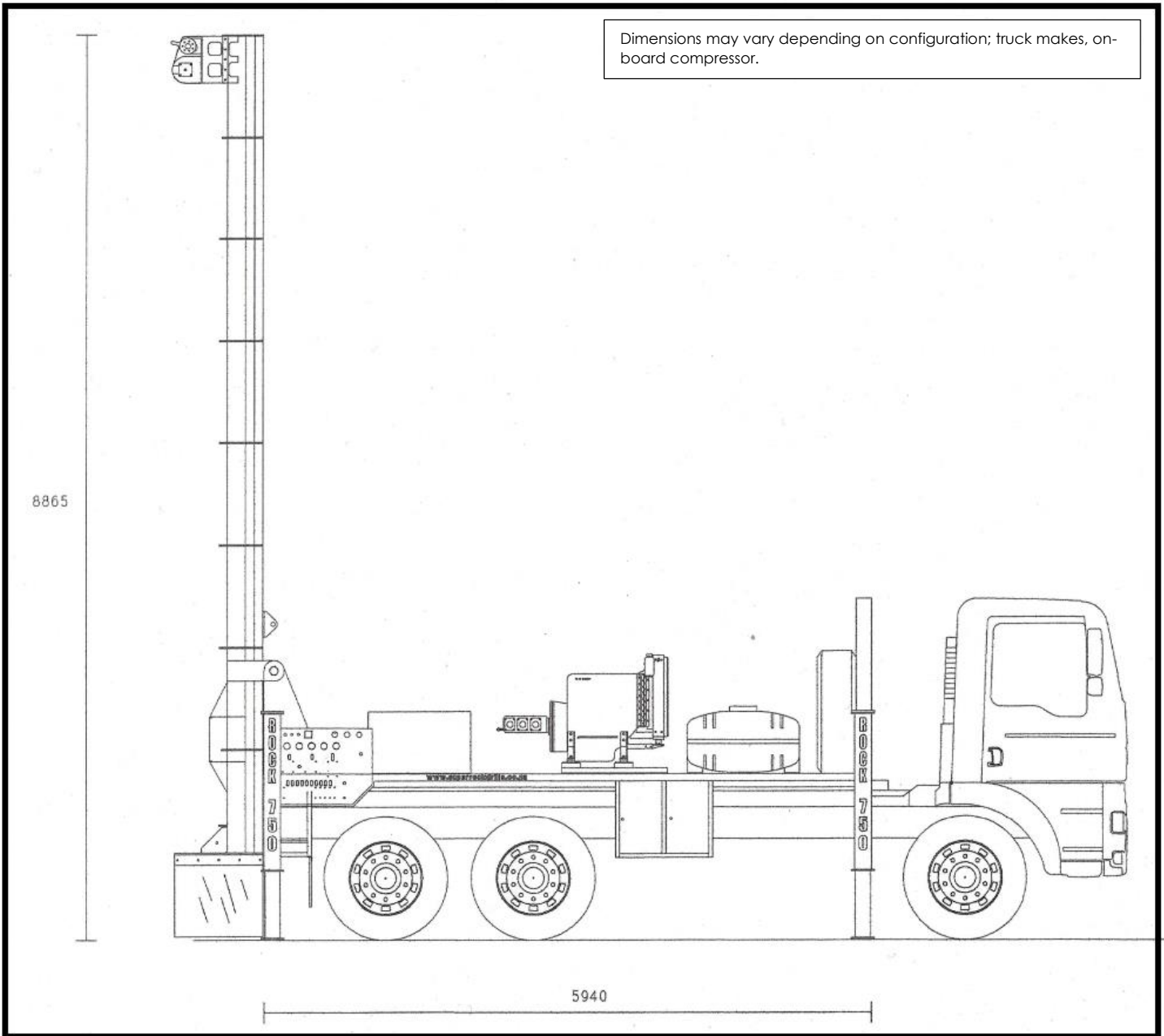


Dimensions may vary depending on configuration; truck makes,

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Right Hand Side View – Mast Vertical

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