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

TECHNICAL SHEET: SR5000 DRILL RIG

The **SR5000** 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 7.5 meter stroke and is coupled to an inner derrick, which carries the rotary head.

The rotary head will be of the reverse circulation multi-motor type with extra heavy-duty bearings, which take all forces produced during drilling operation. 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 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 and to lock it in for angle drilling operations. 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 600mm diameter tools to pass through. Guide bushes are supplied to suit drill string.

The drill rig's power pack consists of a six-cylinder Kirloskar engine close coupled to our tried and tested



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hydraulic system. All necessary air, fuel and oil filters are included.

A hydraulic rod breaker facilitates handsfree rod breaking.

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

The **SR5000** is a very simple and easy machine to operate and maintain. Being locally designed and manufactured with over four hundred machines running in the mining, exploration, water well and piling industries proves that the **SR5000** 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 Mast Locking - For vertical drilling - Dump mast for angle drilling</p> <p>Rod Loader Options - Single: Manually swung 8-rod carousel - Double: Manually swung 8-rod carousel - Hydraulic Rod Loader (Rod feed via crane)</p>	<p>Options - SRD Gearbox (Reduction type) 0-100 RPM Spindle hole 80mm Max torque options 4000-12000nm Spindle thread options: 1. 102 ARD 2. 4 1/2" Remet 3. 3 1/2" Regular API OR B100 Staffa Motor coupled to SRD Air-Box.</p>
DRILLING PARAMETERS	FEED SYSTEM
<p>Hole Diameter - 3" - 24" *Maximum Depth @ 6.5" - 1000m Single Pass - 6m</p> <p>*Maximum drill depth based on calculation of 25Kg/m of the drill string.</p>	<p>Type - Telescopic direct cylinder Pull Back - 25 Ton Down Force - 13 Ton Stroke - 7500mm / 7.5m</p>
COMPRESSOR CAPACITY	DECK ENGINE
<p>Flow Rate - 1200 CFM Pressure - 23 Bar</p>	<p>Make - Kirloskar Engine Type - 6R1080T Rating kW/HP - 94/127 RPM - 1800</p>
HYDRAULIC SYSTEM	DUST SUPPRESSION
<p>Oil Type - Hydraulic 68 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 No of Emergency Stops - 4 Protection guards on all hot surfaces Lock-out protection</p>

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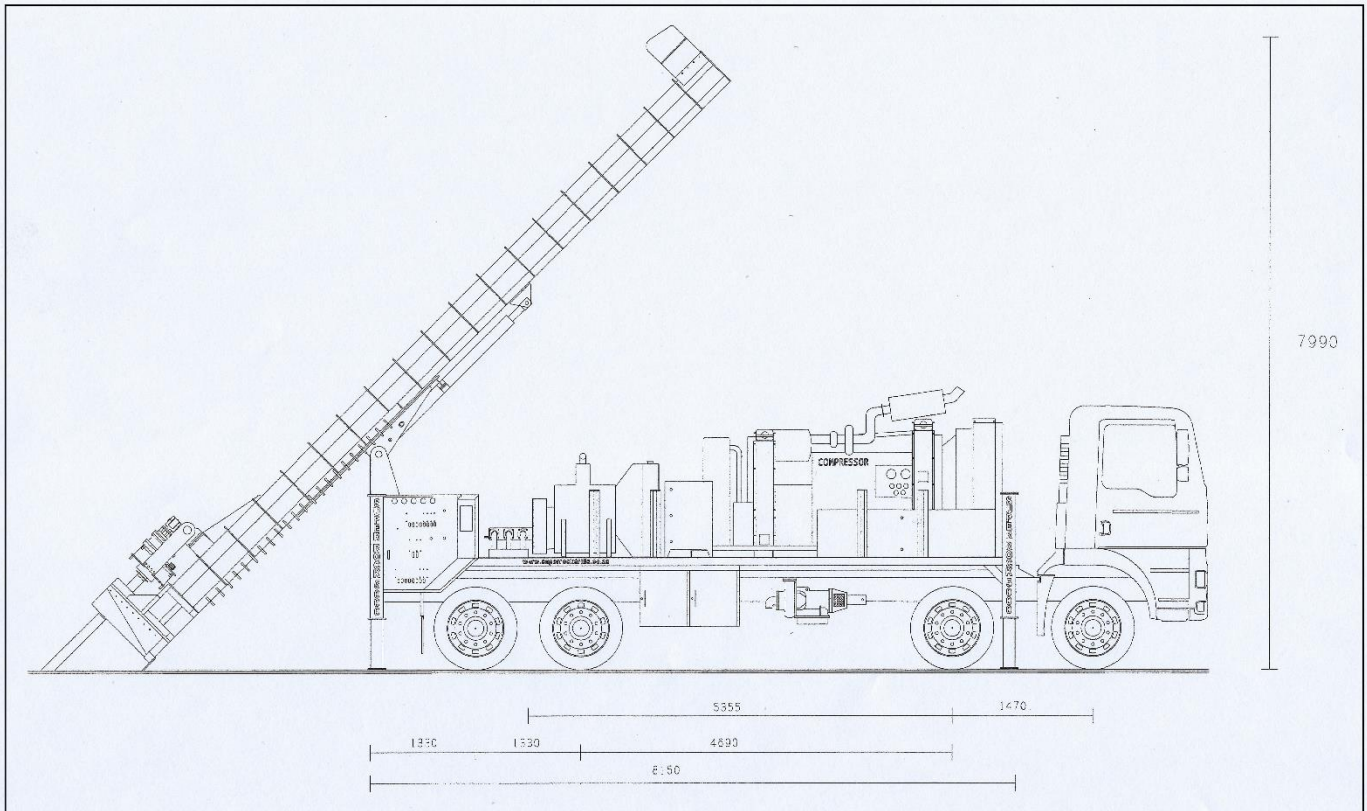
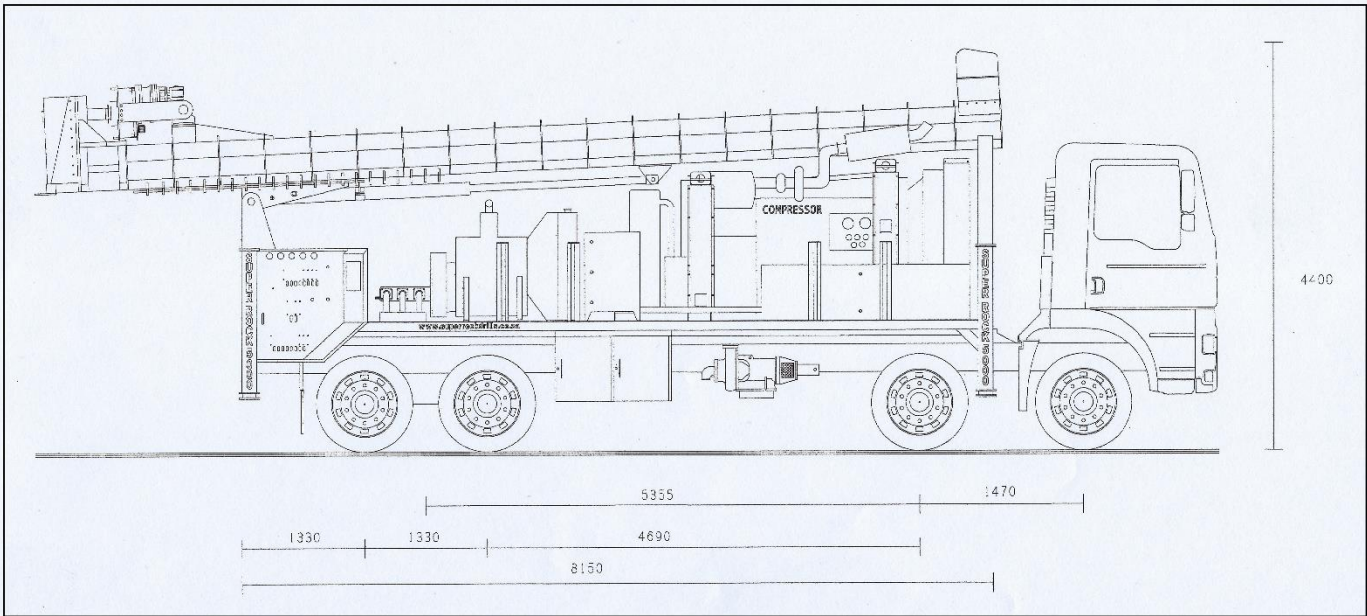


SRD GEARBOX CAPABILITIES	COOLING - HYDRAULICS
Types <ul style="list-style-type: none"> - Reverse Circulation (RC) - Open Hole DTH - Waterwells - Mud Rotary - Air Rotary - Auger - RAB Drilling - Air Core 	Oil cooler fitted <ul style="list-style-type: none"> - 12v Electrical driven fan
RIG STABILIZATION	ROD BREAKING SYSTEM
4 X Hydraulic outriggers <ul style="list-style-type: none"> - Boxed - Bore - 100mm - Stroke - 1300mm 	Options <ul style="list-style-type: none"> - Manual keeper key - Hydraulic keeper key - Break-out cylinder & spanner - Hydraulic rod breaker
WINCH	MUD PUMP (OPTIONAL)
Standard <ul style="list-style-type: none"> - Fixed winch - Hydraulic swing Jib - Optional. 	Standard <ul style="list-style-type: none"> - 4x3x13 Centrifugal *Hydraulic Drive. Optional <ul style="list-style-type: none"> - Duplex, Triplex, Orbit.
AIR LINE SYSTEM	
All 2" steel & 2" rubber hoses rated @ 80 Bar pressure.	

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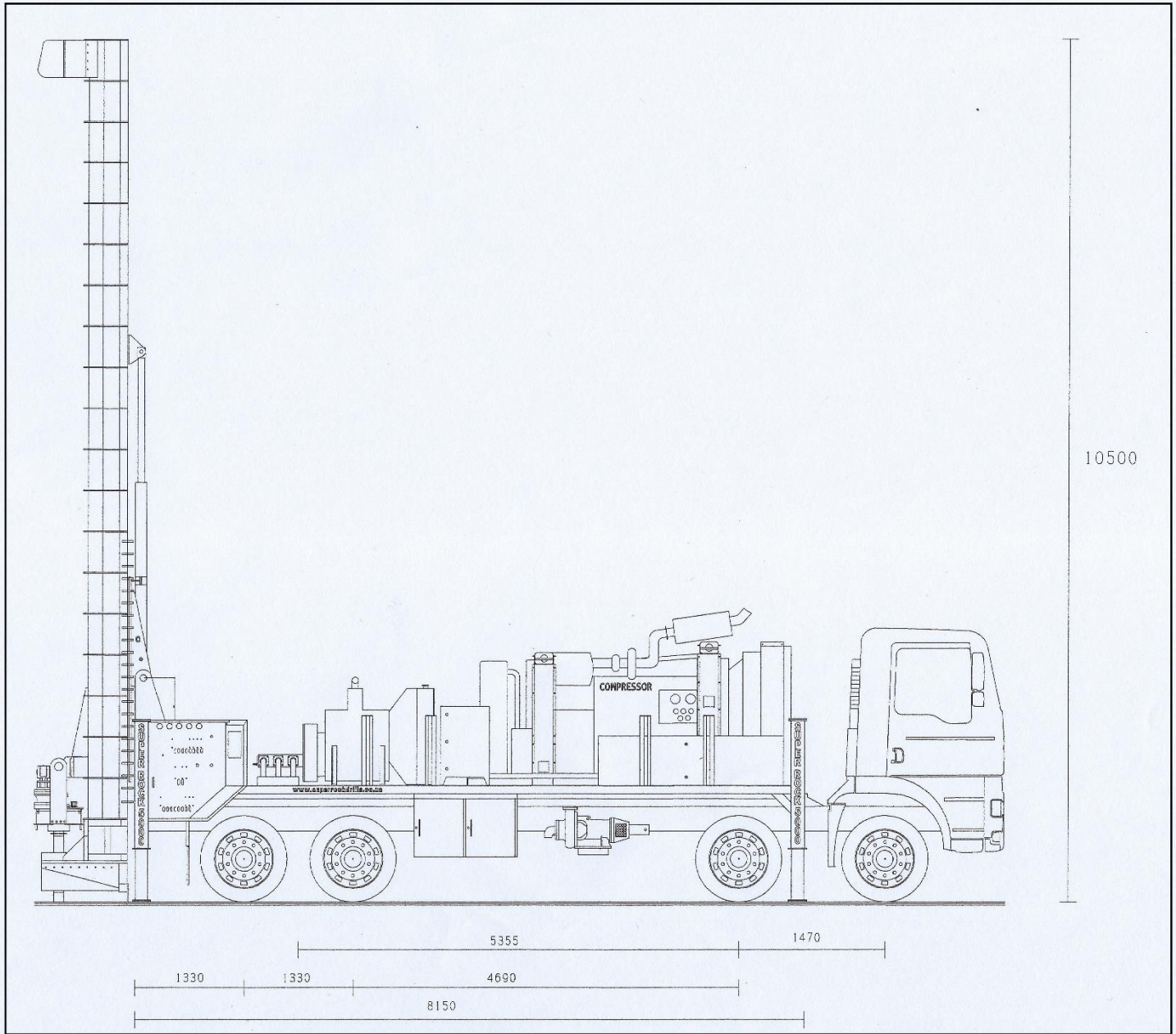




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