

## INNOVATION, PRODUCTIVITY AND SAFETY

Topdrill's Schramm T685 RC drills have the ability to perform deep reverse circulation, grade control and hydro drilling. Topdrill have upgraded their T685 drills to incorporate the latest in drill rod handling solutions. The Sandvik DA554 rod handler fitted to the drills allows true hands free rod handling whilst maintaining a small machine footprint. A dual hydraulic rod breakout tool completes the package and provides a safer and more productive work environment for our employees.

## STANDARD DESIGN FEATURES

Deck Engine	<ul style="list-style-type: none"> <li>• MTU 12V-2000TA DDEC - 850bhp (633kw) @ 1800rpm</li> <li>• Engine Canopy</li> <li>• 950 litre fuel tank mounted underdeck</li> </ul>
Cooling	<ul style="list-style-type: none"> <li>• Aluminium coolers, 55°C ambient design temperature</li> </ul>
Mounting	<ul style="list-style-type: none"> <li>• Mounted on a 8x8 truck, MAN or Mercedes</li> </ul>
Compressor	<ul style="list-style-type: none"> <li>• Sullair 20/12H (1350/500)</li> <li>• Variable inlet valve (Butterfly)</li> <li>• Auxillary air and booster lines</li> </ul>
Top Head Rotation	<ul style="list-style-type: none"> <li>• Schramm Australia rotary head</li> <li>• 2x OMVM 500 motors (OMVW 630 optional)</li> <li>• HD nylon head slides</li> </ul>
Mast & Feed System	<ul style="list-style-type: none"> <li>• Operating Angle: 0-45° from vertical</li> <li>• Mechanically locks in 5° increments</li> <li>• Mast slide travl: 2,440mm</li> <li>• Head travel: 9,100mm</li> <li>• Feed cylinder: (2) 5 1/2" bore x 2 3/4" rod x 180" stroke</li> <li>• Pullback capacity: 73,000 lb (33,280 kg)</li> <li>• Top head driven by hydraulic cylinders through HD roller chain</li> <li>• Pullup speed: Rapid feed 50.9m/min</li> <li>• Pulldown capacity: 35,270 lbs (16,000 kg)</li> <li>• Adjustable mast foot</li> </ul>
Breakout	<ul style="list-style-type: none"> <li>• Schramm Australia Dual Breakout, 2 1/2" - 5 1/2" 16,000 ft.lb torque</li> </ul>
Slips Table	<ul style="list-style-type: none"> <li>• 12" hydraulic slips box</li> </ul>
Rod Handling & Storage	<ul style="list-style-type: none"> <li>• Rod Kicker</li> <li>• KL Rod Loader</li> <li>• Tilting Rod Bin, 5x9 (45 rods)</li> </ul>
Walkways & Safety	<ul style="list-style-type: none"> <li>• Hydraulic walkway on LHS</li> <li>• Access platform to mast</li> <li>• Mast lanyard for use while mast is horizontal</li> <li>• Rotation guard</li> <li>• Fire suppression 105L (Loss in pressure)</li> </ul>

Winch/Jib Boom	<ul style="list-style-type: none"> <li>• Exploration Jib Boom, 500kg capacity (1750kg optional)</li> <li>• 1000m survey winch</li> </ul>
Hydraulic System	<ul style="list-style-type: none"> <li>• 6 hydraulic pumps, 1 fixed displacement and 5 variable volume piston type provide hydraulic power for all rig functions</li> <li>• All hydraulic circuits are fully filtered and protected by relief valves</li> <li>• Oil cooler</li> </ul>
Air & Mud Lines	<ul style="list-style-type: none"> <li>• Rated at 1000 psi</li> <li>• Full length hose socks &amp; shackles</li> </ul>
Water Injection System	<ul style="list-style-type: none"> <li>• CAT 2525 water injection</li> </ul>
Tool Lubricator	<ul style="list-style-type: none"> <li>• Positive displacement, air operated piston type pump</li> <li>• Oil flow: 0 - 9.0 g/hr (0 - 19 L/hr), 68.5 litre capacity</li> <li>• Positioned on deck LHS</li> </ul>
<b>Safety Equipment</b>	<ul style="list-style-type: none"> <li>• Fire suppression system</li> <li>• Rod retention</li> <li>• Remote emergency stop system</li> <li>• Drill is fully risk assessed</li> <li>• Dust suppression (water injection)</li> </ul>