

Return to Rhinotraders

Robbins 4.88m



1.1. CUTTERHEAD

Hard rock cutterhead, high tensile steel structure	
Manufactured in 6 parts	
Excavation diameter	4.880 mm
Direction of rotation	No. 2
Direction of excavation	No. 1
Cutting tools	No. 32 (17" disc cutters)
Maximum disc cutter individual load	267 kN
Maximum over-cut capacity by means of cutter disc housing shimming	30 mm (up to 4.990 mm excavation dia.)
First set of cutting tools	<i>Included</i>
Anti-wear hard plating on cutterhead face/rim side for abrasion protection	
Man hole(s)	
Water spray system	No. 5 spaying nozzles for water (No. 2 independent line)
Rotary fluid joint (RFJ) for fluid transfer to the cutterhead	

1.2. MAIN DRIVE

Variable frequency electric drive	
Electric motors	No. 6 , 315 kW each water cooled individual frequency controlled planetary gearboxes mechanical torque limiter
Total installed power	1.890 kW
Rotation speed	0 –9,0 rpm
Maximum torque @ 6,8 rpm (constant torque limit)	2.500 kNm (95% efficiency)
Minimum torque @ 9,0 rpm (constant power limit)	1.890 kNm (95% efficiency)
Unlocking torque	3.750 kNm
<i>Torque vs speed curve is shown here after</i>	
Bearing	3 row roller (double axial + radial) – oil lubricated bearing life in accordance with DIN ISO281 >10.000 hour
Sealing system	two lips internal and three external lip seals (front labyrinth - oil lubricated)