

DSU 612

Technical Specifications Catalog



TECHNICAL SPECIFICATIONS

Manufacturer	Seli - Robbins	
Type	Hard Rock Double Shield	
Model	DSU612	
Year of Manufacture	2009	
Excavation Mode	Slurry Type	
Shield Outside Diameter (OD)	6080	mm
Length	195	m

MAIN DRIVE

Type of Main Drive	Electric Driven	
Motor	5	
Installed Power	5 * 315 = 1575	kW
Max. Torque @ 6,12 rpm (100% system efficiency)	2.457	kNm
Max. Torque @ 9 rpm (100% system efficiency)	1.671	kNm
Bearing	Double Tapered Roller Type	
Unlocking Torque	5	kNm

CUTTER HEAD

Cutter Head Revolution	0 - 9	rpm
Turn Direction	Right	
No. of Cutting Disc	38 (17 inch - 432 mm)	
Excavation Diameter	6.120	mm
Max. Capacity Per Disk	267	kN

THRUST SYSTEM

No. of Main Cylinder	10	Nos.
Max. Thrust of Main Cylinder	26.039 kN @ 345	Bar
No. of Auxiliary Cylinder	10	Nos.
Max. Thrust of Auxiliary Cylinder	27.746 kN @ 345	Bar

SHIELD

Outer Diameter of Front Shield	6080	mm
Outer Diameter Telescopic Shield	6080	mm
Inner Diameter Telescopic Shield	5990	mm
Outer Diameter Gripper Shield	5990	mm

MUCK TRANSPORTATION

Tunnel Conveyor	Included	
Muck Conveyor	Included	
Type	Electric Drive, Variable speed, Reversible	
Belt Width of Muck Conveyor	800	mm
Capacity Muck Conveyor	400	ton / h
Length of Muck Conveyor	88	m
Electrical Power of Muck Conveyor:	35	kW

ELECTRICAL SYSTEM

No. of Transformers	2	Nos.
Total Installed power	2200	kW
Primary Voltage	20	V

PRE FABRICATED CONCRETE SEGMENT

Segment Type	Hexagonal	
Ring Erection Time	20	min
Boring Stroke	0.75	min
Maximum Advance Rates	3	Meters Per Hour
Gas Detection System	Included	
Guidance System	Included	
Compressed Air System	Included	
Ventilation System	Included	
Industrial Water System	Included	
Dewatering System	Included	
Grout Injection Pump	Included	