

Wide Tunnel Drilling Rig - Specifications



Description	Unit
Drill rig size (transport mode)	Height 1.6 m Length 4.5 m Width 1.1 m
Number of booms	2
Boom articulation – angle of boom to footwall – angle of boom vertical plane	-15° to 90° 240° (60° to -60°)
Length of wheel base	1.2 m
Mass	3900 kg
Power source – high pressure water (hydropower)	140 to 180 bar
Hole diameter	34 – 42 mm
Hole length (max)	3.0 m
Loco Rig version available	3 ton – battery locomotive
On board pump rating	45 kW
Capacity	3 ℓ/sec
Drill water consumption per 7 kW drifter	1.4 ℓ/sec
Closed loop circuit – water recirculation	65% of consumption 35% balance used for flushing of hole
Drill steel diameter	25 of 32 mm hex
Rate of penetration – 180 MPa rock strength (quartzite, norite, granite)	Nominally 50 sec for 1 m (7kW Drifter)
Haulage/tunnel/excavation size	Height 2.9 m min – 4.2 m max Width 3.2 m min – 4 m max

Wide Tunnel Drilling Rig - Features



- Water powered – clean technology
- Hydropower drifters
- Closed loop water hydraulic system i.e. water powering the drifters is recirculated
- Self-driven over short distances (with loco)
- Hanging wall clamping post for safety and stability
- Capable of drilling face holes, roof bolt holes and sidewall holes
- Outriggers to level and stabilize rig