

Bazooka Air-Powered Underground Diamond Drill

THE BAZOOKA – Designed to be quickly and easily setup on ledges, raises, slopes and in other places where it is difficult to use conventional drills. Incorporating an eyebolt anchor and bipod, adjustable bipod or bar mounting, the Bazooka can be used to drill wherever a man can find a footing. The bazooka is suitable for either blast hole or core drilling and can be easily moved, setup and operated by one man.

Rated Capacity: Rod string weight – 136kg (300lbs)

RW Rods: 45.7m (150ft) of 2.9kg/m rods (2lbs/ft)

EW Rods: 30.5m (100ft) of 4.5kg/m rods (3lbs/ft)

BVB-6 AIR MOTOR – The Bazooka is powered by a BVB-6 vane type air motor. This motor produces 12kW (16hp) at 3000rpm and weighs only 20.5kg (45lbs). A standard waterswivel is built into the back end of the air motor.

Features

FEED – The feed on the Bazooka is provided by a double acting air cylinder and a stainless-steel piston rod. Three feed length options include 381mm (15in) change 609mm (24in) change and 762mm (30in) change. Feed cylinder thrust is 1112daN (2500lb) with 690kPa (100psi) air pressure.

MOUNTINGS – For maximum versatility, the Bazooka may be mounted in either of three different ways:

1. **Eyebolt Anchor & Bipod Mounting** – Eliminates mining bars and sprags and allows the drill to be quickly unhooked from the eyebolt anchor to make way for tramming and other mining operations. The Bazooka is used to drill a hole for a removeable eyebolt. The anchor bar safety hook is snapped onto the eyebolt, firmly securing the drill mounting assembly in position.
2. **Bar Mounting Assembly (3½ in or 4½ in)** – Normally used in conventional underground workings. The mine bar mounting allows a 360-degree angle range in either the horizontal or vertical plane.
3. **Adjustable Bipod Mounting** – In up-hole drilling, the bipod mounting is used in conjunction with the air cylinder which acts as a backleg. The cylinder sprag can be extended using RW rods when a back support is available.

Weight of Bazooka, with optional mountings described above, ranges from 50.3kg to 77.1kg (111lbs to 170lbs).

Specifications

DEPTH RATING			
<i>Drill Rod</i>	<i>Weight of Rod</i>	<i>Maximum Depth</i>	<i>Core Size</i>
EW Steel	3lb/ft (4.4 kg/m)	100ft (30m)	0.875" (21.2mm)
EW Alum	1.1lb/ft (1.6kg/m)	300 ft (90m)	1.125" (30mm)
AW Steel	3.8lb/ft (5.6kg/m)	80ft (25m)	1.125" (30mm)
AW Alum	1.5lb/ft (2.1kg/m)	200ft (60m)	1.125" (30mm)

POWER UNIT	
<i>Make & Type</i>	<i>BVB-6 Vane Type Motor</i>
Horsepower	12kW (16hp) @ 3000
Air Consumption	5.7 to 8.5m ³ /min (200 to 300 cfm)
Weight	20.4kg (45lbs)
Horsepower	12kW (16hp) @ 3000

*FEED CYLINDER		
<i>Type</i>	<i>Air</i>	
Diameter	152mm (6in)	
Feed length	381mm, 609mm or 762 mm (15in, 24in or 30in)	
Piston Rod Diameter	64mm (2½in)	
Weight:	15in feed	15.9kg (35lbs)
	24in feed	19.9kg (44lbs)
	30in feed	22.2kg (49lbs)

*MOUNTINGS	
<i>Type</i>	<i>Weight</i>
Eye bolt anchor and bipod mounting	29.5kg (65lbs)
Bar mounting assembly to fit	24kg (53lbs)
89mm (3½in) mine bar	
Bar mounting assembly to fit	34.5kg (76lbs)
114mm (4½in) mine bar	
Adjustable bipod mounting	14.1kg (31lbs)
Muffler Kit	Optional

**Indicates options - when ordering please specify.*

WEIGHTS & DIMENSIONS OF COMPLETE DRILL ASSEMBLY

Mounting Option	381mm (15in) Feed
Eye bolt anchor & bipod	65.8kg (145lbs)
89mm (3½in) bar mounting assembly	60.3kg (133lbs)
114mm (4½in) bar mounting assembly	70.8kg (156 lbs)
Adjustable bipod mounting	50.3kg (111lbs)
Overall length **	1702mm (67in)
Mounting Option	609mm (24in) Feed
Eye bolt anchor & bipod	69.9kg (154lbs)
89mm (3½in) bar mounting assembly	64.6kg (142lbs)
114mm (4½in) bar mounting assembly	74.8kg (165 lbs)
Adjustable bipod mounting	54.4kg (120lbs)
Overall length **	2184mm (86in)
Mounting Option	762mm (30in) Feed
Eye bolt anchor & bipod	72.1kg (159lbs)
89mm (3½in) bar mounting assembly	66.7kg (147lbs)
114mm (4½in) bar mounting assembly	77.1kg (170 lbs)
Adjustable bipod mounting	56.7kg (125lbs)
Overall length **	2464mm (97in)

***Overall length of complete drill assembly with motor in full forward positions.*

