

## **Auger Boring Machine (ABM)**

### **Technical Description**

The Robbins Auger Boring Machine (ABM) is used to bore horizontally through soil or rock with a cutting head and auger. ABMs are used to install steel casing on road, river, and rail crossings.

A starting pit is used to launch the ABM on a predetermined length of track. The machine excavates with the cutting head, while jacking force is provided by hydraulic thrust cylinders. Steel casing pipe and auger sections are added as the machine advances. Spoil is removed from the auger through the casing to a door located on the side of the master pusher.

### **A Versatile Solution**

The Robbins ABM can be used in a variety of ground conditions, from soil to hard rock. The machine is made for use with SBU Products in hard rock, as well as with soft and hard soil cutterheads. The ABM is capable of excavating soil, sand, clay, cobble, glacial till, soft shale, and some sandstone. Both the SBU-A and the SBU-M are the ideal attachments to be used with the Robbins ABM in hard rock and mixed ground.



### **ABM APPLICATIONS:**

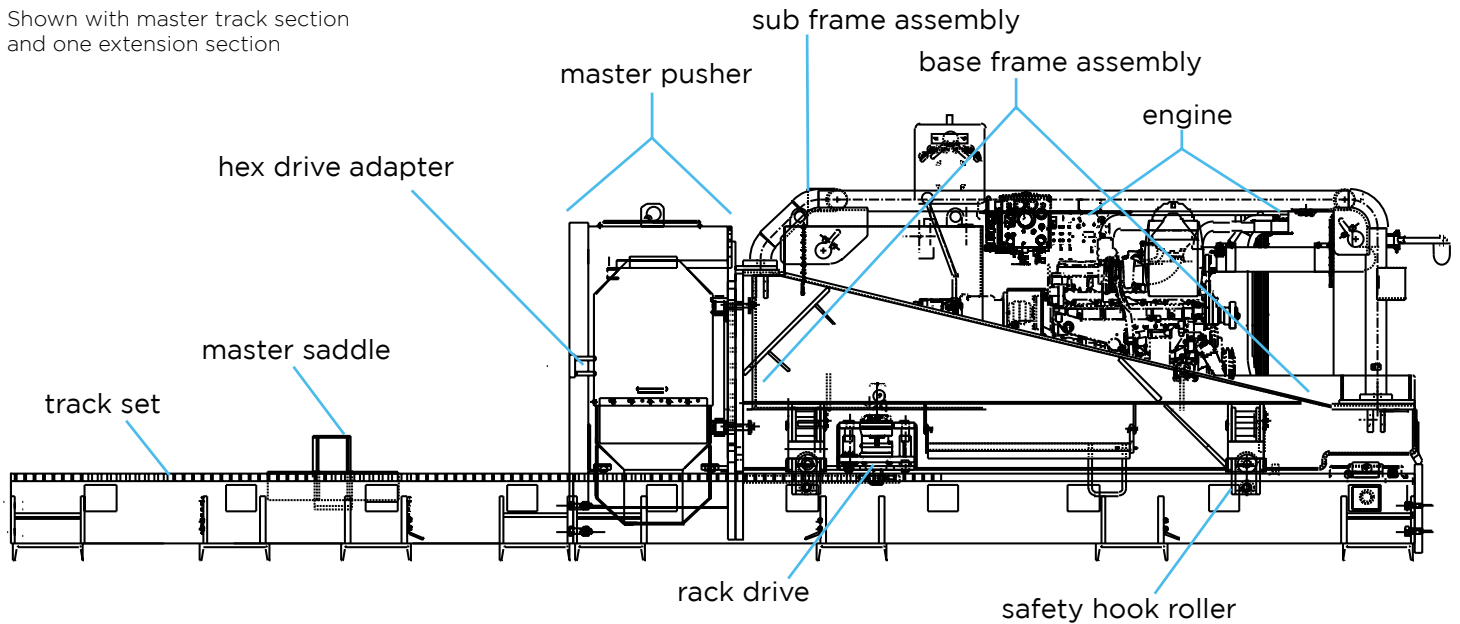
- Soft ground utility installations
- Hard rock utility installations (with SBU products)

AVAILABLE FOR PURCHASE OR LEASE



## Side View

Shown with master track section and one extension section



## SPECIFICATIONS

**MACHINE DIAMETERS** 0.9 to 2.0 m

**GROUND CONDITIONS** Soil, sand, clay, cobble, glacial till, soft shale, and sandstone. ABM can also be used with SBU products to excavate hard rock and mixed ground from 25 to over 175 MPa UCS.

### ABM 36-630

Bore Capacity	300 to 910 mm
Optional Lift Kit	1,070 mm
Engine	DEUTZ F6L914
Net Power	85 kW
Peak Engine Torque	400 N-m at 2300 rpm
Gearbox Ratio	54:1
Transmission	Spicer 5 speed
Hex Drive	102 mm
Cylinders	2 x 230 mm
Max. Thrust	2,800 kN
Min. Pit Size	3.7 m x 10.7 m
Total Weight	9 metric tons
Centerline	600 mm

### ABM 48-950

Bore Capacity	300 to 1,220 mm
Optional Lift Kit	1,370 mm
Engine	DEUTZ BF6L914C
Net Power	130 kW
Peak Engine Torque	700 N-m at 2300 rpm
Gearbox Ratio	54:1
Transmission	Spicer 5 speed
Hex Drive	127 mm (102 mm adapter optional)
Cylinders	3 x 230 mm
Max. Thrust	4,240 kN
Min. Pit Size	3.7 m x 10.7 m
Total Weight	10 metric tons
Centerline	720 mm

### ABM 60-1270

Bore Capacity	610 to 1,520 mm
Optional Lift Kit	1,680 mm
Engine	Cat C-7
Net Power	187 kW
Peak Engine Torque	800 N-m at 2300 rpm
Gearbox Ratio	40:1
Transmission	Eaton 6 speed
Hex Drive	127 mm
Cylinders	4 x 230 mm
Max. Thrust	5,650 kN
Min. Pit Size	4.9 m x 11.6 m
Total Weight	16 metric tons
Centerline	1,060 mm

### ABM 72-1500

Bore Capacity	610 to 1,830 mm
Optional Lift Kit	1,980 mm
Engine	Cat C-9
Net Power	224 kW
Peak Engine Torque	1,070 N-m at 2300 rpm
Gearbox Ratio	36:1
Transmission	Eaton 9 speed
Hex Drive	127 mm (152 mm adapter optional)
Cylinders	4 x 250 mm
Max. Thrust	6,670 kN
Min. Pit Size	4.9 m x 11.6 m
Total Weight	20 metric tons
Centerline	1,060 mm

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