

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:

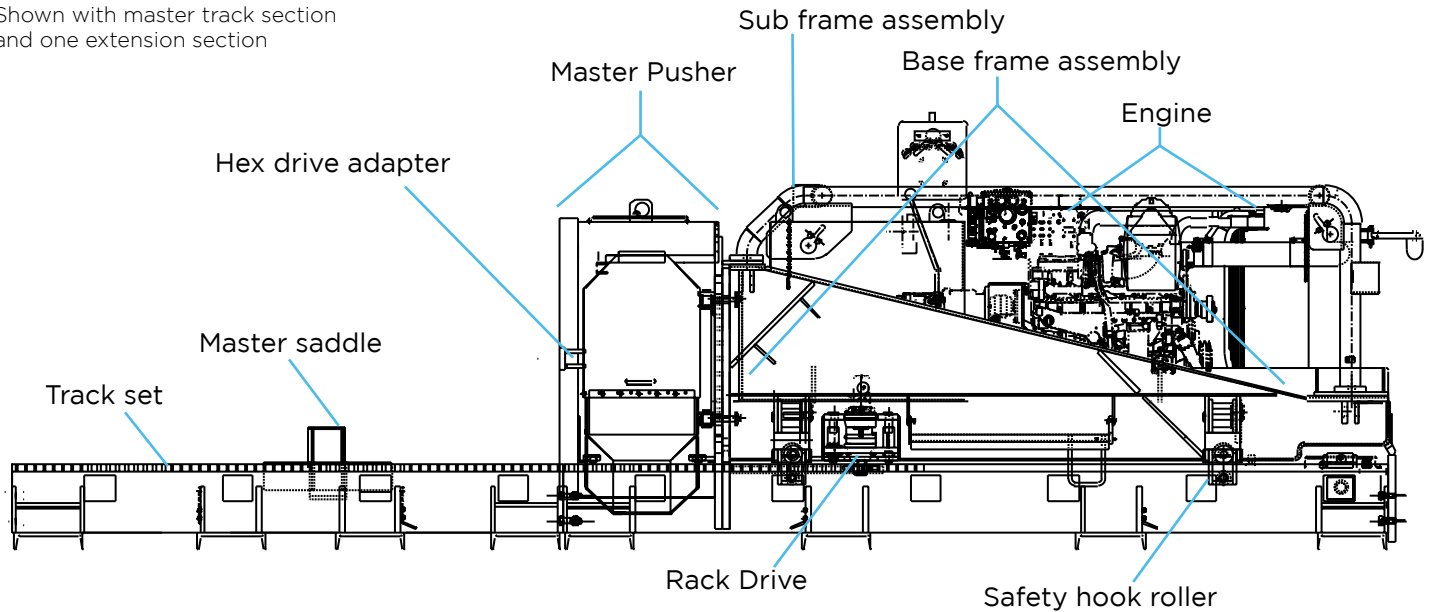
- Soft ground utility installations
- Hard rock utility installations (with SBU products)

AVAILABLE FOR PURCHASE OR LEASE



Side View

Shown with master track section and one extension section



SPECIFICATIONS

MACHINE DIAMETERS 36 to 78 inches

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 4,000 to over 25,000 psi UCS.

ABM 36-630

Bore Capacity	12 in to 36 in
Optional Lift Kit	42 in
Engine	DEUTZ F6L914
Net Power	114 hp
Peak Engine Torque	295 ft-lb at 2300 rpm
Gearbox Ratio	54:1
Transmission	Spicer 5 speed
Hex Drive	4 in
Cylinders	2 x 9 in
Max. Thrust	630,000 lb
Min. Pit Size	12 ft x 35 ft
Total Weight	20,000 lb
Centerline	23.5 in

ABM 48-950

Bore Capacity	12 in to 48 in
Optional Lift Kit	54 in
Engine	DEUTZ BF6L914C
Net Power	174 hp
Peak Engine Torque	516 ft-lb at 2300 rpm
Gearbox Ratio	54:1
Transmission	Spicer 5 speed
Hex Drive	5 in (4 in adapter optional)
Cylinders	3 x 9 in
Max. Thrust	954,000 lb
Min. Pit Size	12 ft x 35 ft
Total Weight	23,000 lb
Centerline	28.3 in

ABM 60-1270

Bore Capacity	24 in to 60 in
Optional Lift Kit	66 in
Engine	Cat C-7
Net Power	250 hp
Peak Engine Torque	597 ft-lb at 2300 rpm
Gearbox Ratio	40:1
Transmission	Eaton 6 speed
Hex Drive	5 in
Cylinders	4 x 9 in
Max. Thrust	1,270,000 lb
Min. Pit Size	16 ft x 38 ft
Total Weight	35,000 lb
Centerline	41.6 in

ABM 72-1500

Bore Capacity	24 in to 72 in
Optional Lift Kit	78 in
Engine	Cat C-9
Net Power	300 hp at 2300 rpm
Peak Engine Torque	789 ft-lb at 2300 rpm
Gearbox Ratio	36:1
Transmission	Eaton 9 speed
Hex Drive	5 in (6 in adapter optional)
Cylinders	4 x 10 in
Max. Thrust	1,500,000 lb
Min. Pit Size	16 ft x 38 ft
Total Weight	45,000 lb
Centerline	41.6 in

CORPORATE HEADQUARTERS

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