

ROBBINS SBU DIVISION



AUGER BORING MACHINE (ABM)

The Robbins Auger Boring Machine 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.

ABM APPLICATIONS

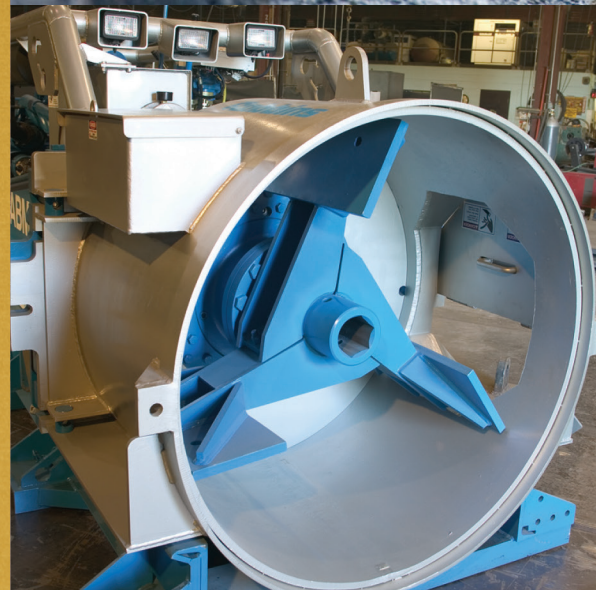
- Soft ground utility installations
- Hard rock utility installations (with SBU products)

A starting pit is used to launch the ABM on a predetermined length of track. The machine rotates the auger and 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.

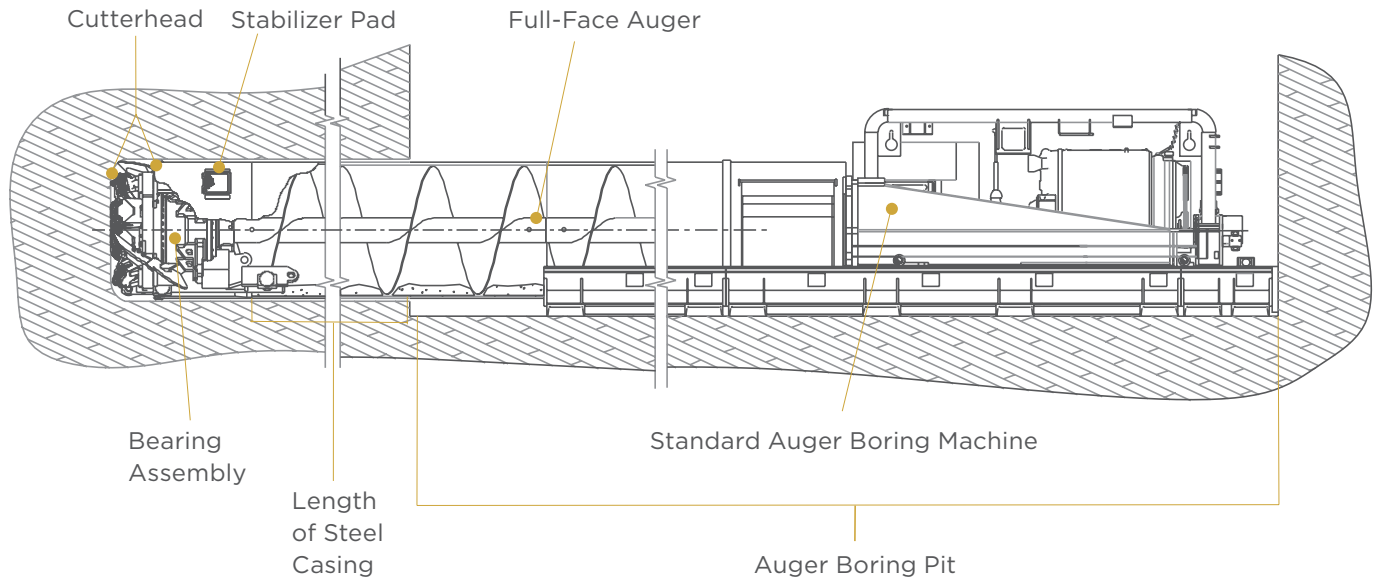
A VERSATILE SOLUTION

The Robbins ABM can be used in a variety of ground conditions, from soil to hard rock. The machine is made for use with standard auger boring tools, as well as SBU products such as the SBU-A and SBU-M. Excavation with the ABM is the most common method for installation of steel casing above the water table due to its low overall cost. The Robbins ABM is a robust solution that exemplifies the rugged nature of auger boring.

**AVAILABLE FOR
PURCHASE OR LEASE**



AUGER BORING MACHINE (ABM)



SPECIFICATIONS

MACHINE DIAMETERS

36 - 78 inches

GROUND CONDITIONS

Soil, sand, clay, cobble, glacial till, soft shale, and sandstone. ABM can also be used with SBU products to excavate mixed ground and hard rock 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
Net Power - 114 hp
Peak Engine Torque - 295 ft-lb at 1500 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
Net Power - 174 hp
Peak Engine Torque - 516 ft-lb at 1600 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 or similar
Net Power - 250 hp
Peak Engine Torque - 597 ft-lb at 2200 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 or similar
Net Power - 300 hp
Peak Engine Torque - 789 ft-lb at 2000 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