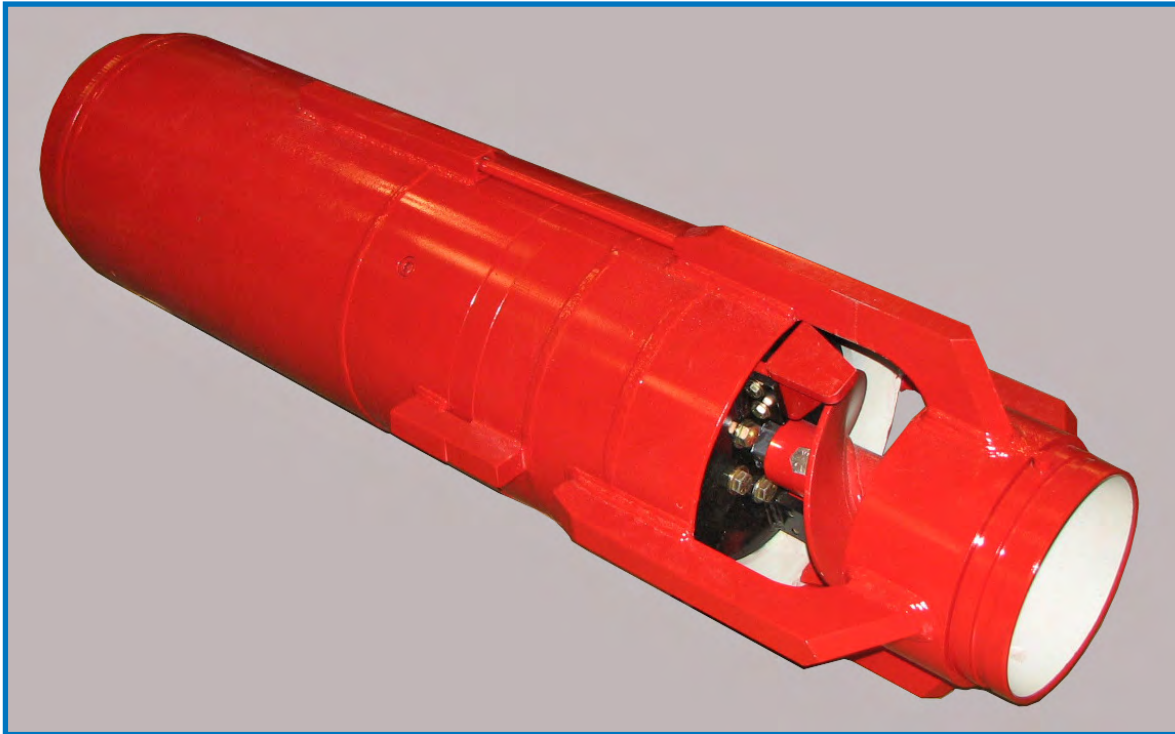


Upsize Tooling - Powered Reaming Head



Part No. FA45200F

- **Designed To Work in 96” Minimum ID or Trenchbox Shafts •**
- **Auger Drive For Spoil Removal To Reception Shaft•**
- **Controlled By GBM Operator In Launch Shaft •**



FEATURES

- The Powered Reaming Head (PRH) is an upsizing kit that can be configured to 14”, 16” and 20” OD.
- Separate jetting lines on reaming head arms to lubricate spoils and separate lubrication lines on rear section to reduce jacking forces on pipe.
- Operates with standard jacking frame and P100Q and P150Q power units.
- Spoils are discharged to reception shaft.
- Product pipe length dependent only on shaft size.
- Product pipe length does not change tooling.
- Uses standard GBM 11” OD thrust casings.

SPECIFICATIONS

Assembly Length

PRH 14	62 in. (1,575 mm)
PRH 16	63 in. (1,600 mm)
PRH 20	64 in. (1,626 mm)

Two sections may be launched separately

Diameter

Powered Reaming Head Body

PRH 14	15 in. (381 mm)
PRH 16	17 in. (432 mm)
PRH 20	21 in. (533 mm)

Drive System

Auger Drive

Max. Torque	10,500 ft/lbs (14,238 N•m)
Max. Speed	50 rpm

Weight (approximate)

Front Section

PRH 14	700 lbs. (318 kg)
PRH 16	750 lbs. (340 kg)
PRH 20	900 lbs. (408 kg)

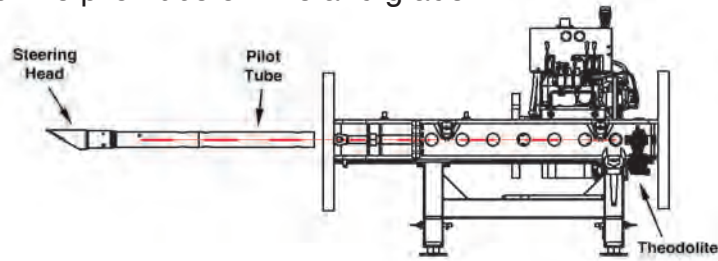
Rear Section

PRH 14	600 lbs. (272 kg)
PRH 16	850 lbs. (386 kg)
PRH 20	900 lbs. (408 kg)

GUIDED BORING METHOD WITH POWERED REAMING HEAD

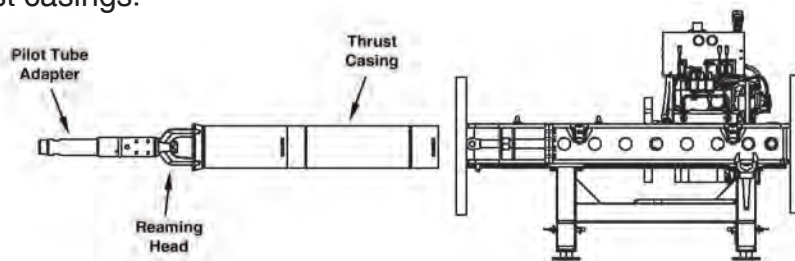
Step 1: PRECISE INSTALLATION OF PILOT TUBES

The first step is the installation of the pilot tube on line and grade.



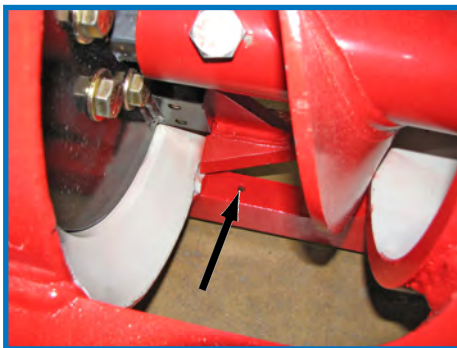
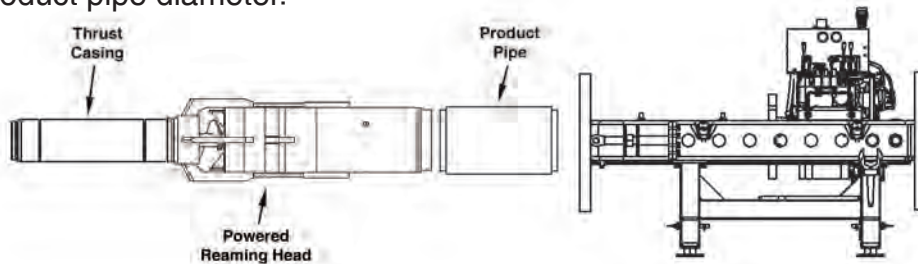
Step 2: ADVANCING THRUST CASINGS ALONG PILOT TUBE PATH

The second step is to follow the pilot tube with a reaming head or other upsizing tool and standard 11" OD thrust casings.



Step 3: INSTALLATION OF PRODUCT PIPE WITH POWERED REAMING HEAD

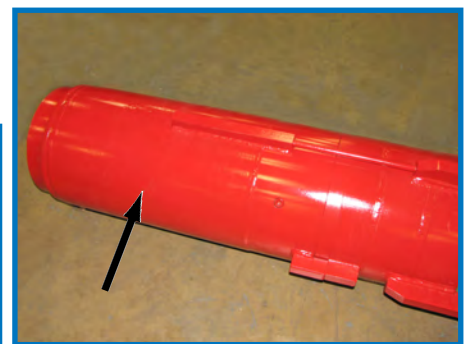
In the third step, the powered reaming head follows the thrust casings to increase the bore to match the product pipe diameter.



Jetting Ports (2) On Reaming Head Arms



Auger Chamber Shears Spoils Away From Cutting Ring To Reduce Jacking Forces



Lubrication Ports (3) On Rear Section