

Upsize Tooling - Powered Reaming Head Series II



Part No. FA46720F (14" - 16" - 20" OD), FA48030F (20" - 30" OD),
FA47301F (30" - 48" OD)

- **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) Series II is an upsizing kit that can be configured from 14" to 48" OD. For custom sized PRH to match your specific product pipe requirements, contact Akkerman.
- Separate jetting lines at overcut ring to lubricate spoils and separate lubrication lines on rear section to reduce jacking forces on pipe.
- Operates with standard jacking frame and P100Q/P150Q/P250D power units.
- Spoils are discharged to reception shaft.
- Product pipe length does not change tooling.
- Product pipe length dependent only on shaft size.
- Replaceable teeth.
- Uses standard GBM 11" OD or 16"HD OD thrust casings.

SPECIFICATIONS

Assembly Length*

Thrust Casing

- (from transition casing end to rear of PRH housing)
All Models 68 in. (1,727 mm)
- (from auger end to rear of PRH housing)
All Models 72 in. (1,829 mm)

Diameter

Powered Reaming Head Body

- 10.5k Drive14 - 20 in. (356 - 508 mm)
- 20k Drive20 - 30 in. (508 - 762 mm)
- 26k Drive30 - 48 in. (762 - 1,219 mm)

Drive System

- Auger Drive 10.5k (PRH 14 - 20)
Max. Torque ..10,500 ft/lbs (14,236 N·m)
Hydraulics 34 gpm @ 5,000 psi
Max. Speed 40 rpm

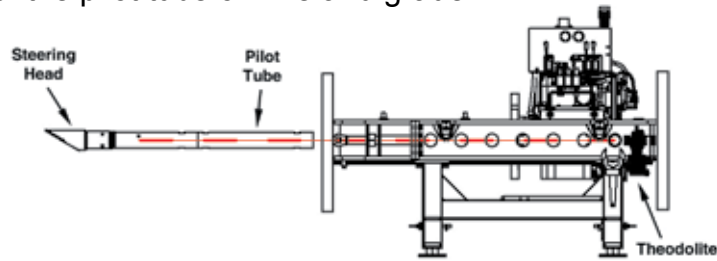
- Auger Drive 20k (PRH 20 - 30)
Max. Torque .. 20,000 ft/lbs (27,116 N·m)
Hydraulics 60 gpm @ 5,000 psi
Max. Speed 38 rpm

- Auger Drive 26k (PRH 30 - 48)
Max. Torque .. 26,000 ft/lbs (35,251 N·m)
Hydraulics 60 gpm @ 5,000 psi
Max. Speed 26 rpm

GUIDED BORING METHOD WITH POWERED REAMING HEAD

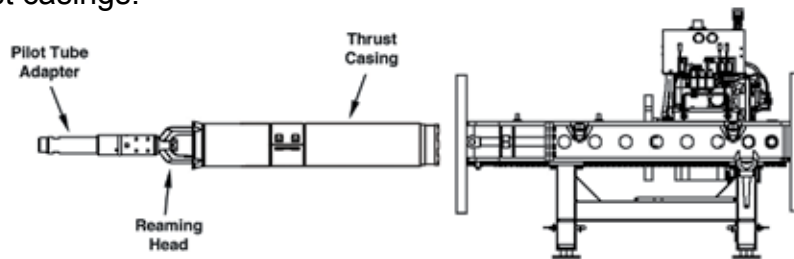
Step 1: PRECISE INSTALLATION OF PILOT TUBES

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



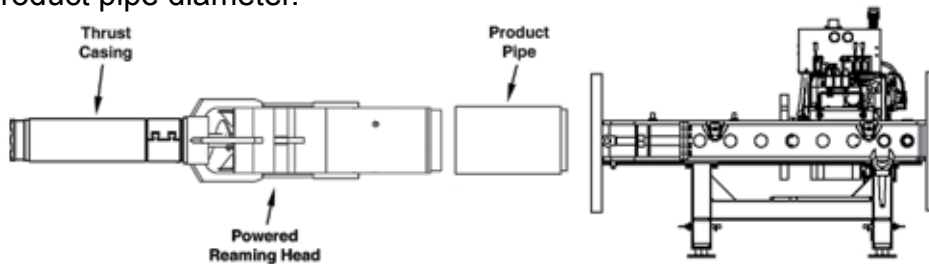
Step 2: ADVANCING THRUST CASINGS ALONG PILOT TUBE PATH

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