

# Upsize Tooling - Powered Cutter Head



Part No. FA44400F (Model PCH 36), Part No. FA43400F (Model PCH 44)

- **Designed To Work in 144" Minimum ID or Trenchbox Shafts •**
- **Independent Drives For Rotation & Spoil Removal •**
- **Controlled By GBM Operator In Launch Shaft •**



## FEATURES

- The PCH 36 is an upsizing tool to match 36" OD product pipe (30" VCP). Increaser kits available to 44" OD.
- The PCH 44 is an upsizing tool to match 44" OD product pipe (36" VCP). Increaser kits available to 48" OD.
- Independent ports for pipe lubrication reduces jacking forces on pipe.
- Four jetting nozzles to the cutter face increases cutting performance and ease of spoil removal.
- Operates with the 4812A jacking frame and P275T power pack.
- Spoils are discharged to reception shaft.
- Designed to work with up to two meter pipe.

- PCH equipped with hydraulic dirt wing to prevent rolling.
- Uses 16" OD heavy duty thrust casings.

## SPECIFICATIONS

Assembly Length ..... 91 in. (2,311 mm)  
Two sections may be launched separately

### Diameter

Powered Cutter Head Body  
PCH 36 .....36 in. (914 mm) OD  
PCH 44 .....44 in. (1,118 mm) OD  
Overcut ..... 1.5 in. (38 mm)

### Drive System

Auger Drive  
Max. Torque..20,000 ft-lbs (27,120 N•m)  
Max. Speed ..... 38 rpm

### Cutterface Power

PCH 36 ..... 79 HP (59 kW)  
PCH 44 ..... 93 HP (69 kW)

### Weight (approximate)

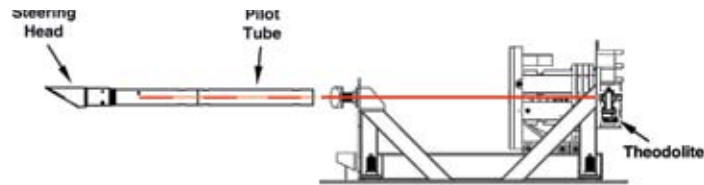
Front Section  
PCH 36 .....4,300 lbs. (1,955 kg)  
PCH 44 .....6,500 lbs. (2,955 kg)  
Rear Section  
PCH 36 .....3,000 lbs. (1,364 kg)  
PCH 44 .....4,500 lbs. (2,045 kg)



# GUIDED BORING METHOD WITH POWERED CUTTER HEAD

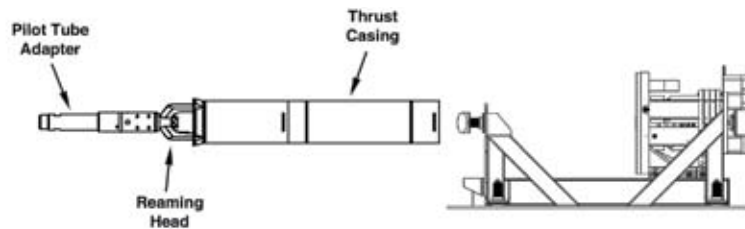
## Step 1: PRECISE INSTALLATION OF PILOT TUBES

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 thrust casings.



## Step 3: INSTALLATION OF PRODUCT PIPE WITH POWERED CUTTER HEAD

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

