

# Guided Boring - 240A System



One of the most common applications for the single stage 240A jacking frame is its use in conjunction with a standard auger boring rig. Combined, the GBM offers auger boring rig contractors the ability to provide reduced casing diameters and longer drives with extreme accuracy that are unobtainable with an independent auger boring rig.

When using the 240A jacking frame with an auger boring rig, the pilot tubes establish the desired path on line and grade. The jacking frame is mounted on the auger bore rig rails with a universal adapter. The theodolite and camera is mounted between the jacking frame and auger bore rig to sight-down the center of the pilot tubes. Once the pilot tubes have been installed, the weld-on reaming head is connected to the last pilot tube section and welded to the first steel casing section. As the pipe string advances, pilot tube sections are removed from the reception area.

When used as a stand alone unit, the 240A jacking frame gives operators the ability to install up to 24-inch (610 mm) OD, one-meter pipe from a 10-foot (3 m) shaft. Our distinctive dual-walled pilot tube design provides a means to lubricate throughout the drive, thus minimizing jacking force and rotational torque. Operators view the illuminated LED target on a computer monitor in the launch area to ensure line and grade. The 240A jacking frame can be used with the PCH

22.5-inch (572 mm). The 240A jacking frame is hydraulically powered with any of our Power Packs and controlled with an in-shaft remote pendant.

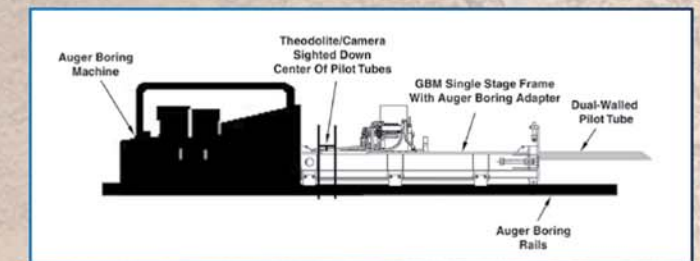
## Specifications

Product	Minimum Shaft Size	Pipe OD	Maximum Torque	Tonage
240A	10' (3 m)	24" (610 mm)	10,500 lbf-ft (14,238 N-m)	100 ton (91 mt)

Product	HP	Fuel Tank Capacity	Hydraulic Reservoir	Weight
P100Q	99 HP (74 kW)	100 gal (378 L)	40 gal (151 L)	6,220 lbs (2,821 kg)

Product	Length	OD	Thrust/Torque	Assembly Weight
11" Thrust Casings	41.85" (1.06 m)	11" OD (279 mm)	100 ton (91 mt)	258 lbs (109 kg)
30" Pilot Tubes	30" (762 mm)	4.1" (104 mm)	12,000 lbf-ft (16,272 N-m)	1,050 lbs (476 kg)

\*Note: Akkerman standard sizes can be customized to suit project needs.



Operators of the 240A jacking frame have independent control of pipe jacking and rotation for smooth and continuous advancement.

The universal auger bore rig adapter and mounting hardware for the 240A jacking frame fits 30-72 inch (762-1,829 mm) track.

Weld-on reaming heads are available 12-72 inch (305-1,829 mm) OD to match steel casing pipe diameter.

The guidance system provides line and grade accuracy up to 487-feet (150 m) and beyond. The LED target is placed in the first pilot tube and monitored on the tablet computer monitor and mounted to the jacking frame. (Photo cross hairs have been enhanced).

The 240A frame, when operated as a stand alone unit, can be used to expertly install up to 24-inch (610 mm) OD pipe.

The Akkerman needle swivel is used in place of a weld-on reaming head to reduce thrust at the face of the bore.