



Michael Byrne Manufacturing Co, Inc.

MODEL D48-1M-B13 MICHAEL BYRNE EXTREME HEAVY COMBINATION BORING AND JACKING MACHINE

Michael Byrne Manufacturing is now offering the most powerful 48" horizontal-boring machine in the industry. The D48-1MB13 like all of our machines is designed for severe duty environments.

This 48" machine is also designed to do 54" bores with an optional spacer that raises the centerline while still keeping a low centerline profile. This machine puts out 1,000,000 Lbs. of thrust and 154,764 Ft-Lbs. of torque making it the most powerful 48" machine on the market.

Our machine uses a 173 HP Caterpillar/John Deere 6 cylinder water cooled 6.6 L Tier III or Tier IV engine coupled to a 5-speed transmission and the exclusive Michael Byrne Manufacturing planetary gearbox. Our planetary gearbox is specifically designed for boring machines. Handling the severest shock loads, surpassing any of our competitor models.

The axial piston pump supplies 38 Gpm to three hydraulic cylinders with a max pressure of 6,000 psi. This pump also supplies the oil for the push block and optional winch.

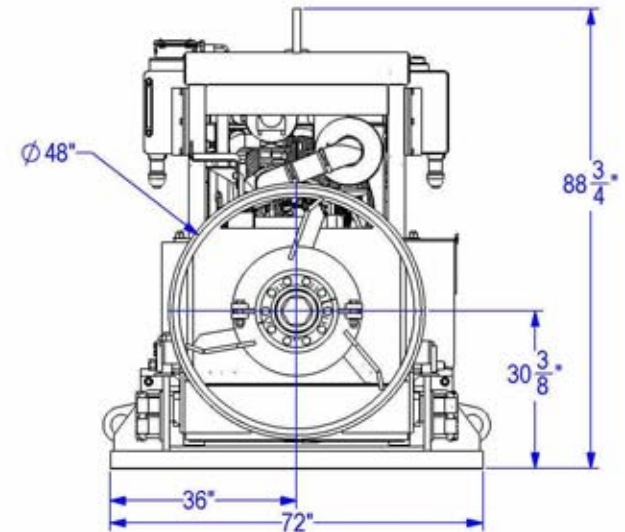
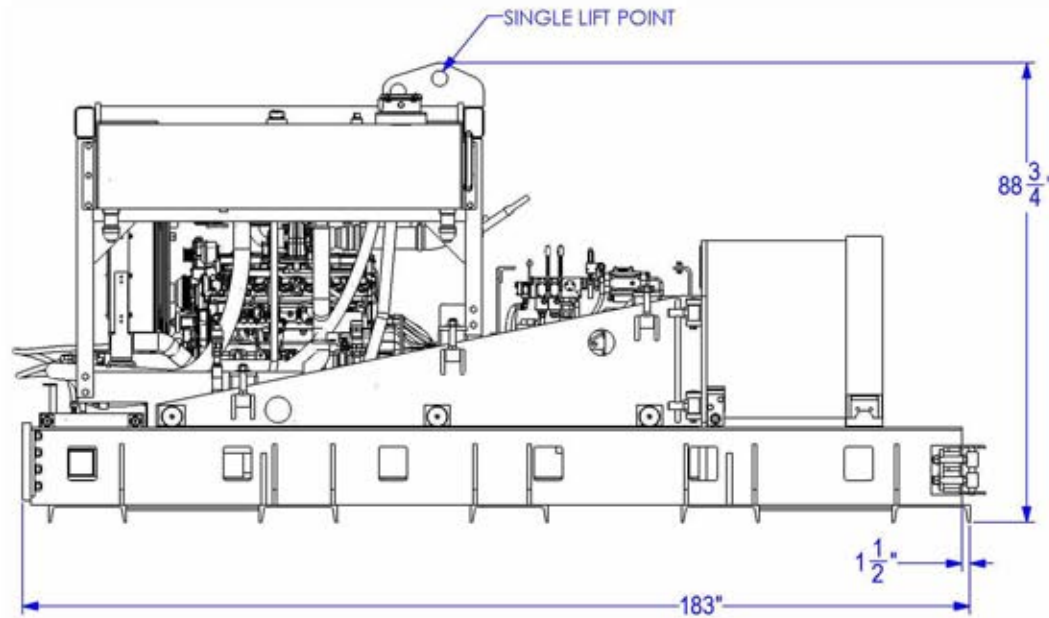
Our tracks are connected together by heavy duty quick-disconnect track connectors. Michael Byrne designed heavy box constructed frames, for severe conditions to keep proper alignment for successful bores. This machine is a split base design for easy lifting in and out of pits.

All machine gauges and warning lights are in operator's view of sight for easy operation. Also included is an operator lanyard emergency switch for total machine shut down.



International Model Shown

MODEL D48-1M-B13 MICHAEL BYRNE EXTREME HEAVY DUTY COMBINATION BORING AND JACKING MACHINE



Power Train System

Engine: CAT or John Deere 173 HP @ 2200 Rpm, Tier III (Tier IV available)

Fuel Capacity: 49 U.S. Gallons

TRANSMISSION: Eaton Fuller

RATIOS

1st Gear	8.05:1
2nd Gear	4.35:1
3rd Gear	2.45:1
4th Gear	1.48:1
5th Gear	1.00:1
Reverse	8.05:1

Planetary Gearbox Ratio 48 : 1 Model B13 B13

Auger Drive: 4" & 5" Hex

Working Range: 24" to 48" Earth Boring ; Pipe Jacking (lift kits to 54" or 60" available)

Machine Torque and Speed Max

1st Gear	154,764 Ft-Lbs (1,857,168 In-Lbs),	5.57 RPM
2nd Gear	83,631 Ft-Lbs (1,003,572 In-Lbs),	10.32 RPM
3rd Gear	47,102 Ft-Lbs (565,224 In-Lbs),	18.33 RPM
4th Gear	28,453 Ft-Lbs (341,436 In-Lbs),	30.33 RPM
5th Gear	19,225 Ft-Lbs (230,700 In-Lbs),	44.89 RPM
Reverse	154,764 Ft-Lbs (1,857,168 In-Lbs),	5.57 RPM

Fast Track: Optional for International Models only

Hydraulic System

Pressure	5,800 PSI
Pump Type	Axial Piston with Load Sensing
Gallon per Minute	38 GPM
Cylinders	Three 8" Bore x 36" Stroke. 3 Cylinder Max Thrust 1,000,000 Lbs
Suction Strainer	100 Mesh Screen
Pressure Filter	10 Micron Replaceable Element
Return Filter	10 Micron Replaceable Element Heavy-Duty Hydraulic Oil Cooler

Weights (Approx.)

Bottom Base Assembly	7,000 Lbs.
Top Base Assembly	8,000 Lbs.
Master Ring Assembly	1,700 Lbs.
Master Track	3,900 Lbs.

Dimensions

Centerline of Bore to Bottom of Track	: 30 1/2"
Machine Height	: 90"
Machine Width	: 72"
Base Track Length	: 14'
Extra Track Length	: 20'
Centerline of Bore to Bottom of Track	: 36 1/2"
54" Adapter kit	