



Michael Byrne Manufacturing Co, Inc.

## MODEL D36-750 MICHAEL BYRNE EXTREME HEAVY DUTY COMBINATION BORING AND JACKING MACHINE



Michael Byrne Manufacturing is now offering the most powerful 36" horizontal-boring machine in its class. The D36-750 like all of our machines is designed for the severest duty imaginable.

This 36" machine is also designed to do 42" & 48" bores with an optional jacking spacer that raises the centerline while still keeping a low centerline profile. This machine puts out 770,000 Lbs. of thrust and 116,788 Ft-Lbs. of torque making it the most powerful 36" machine on the market.

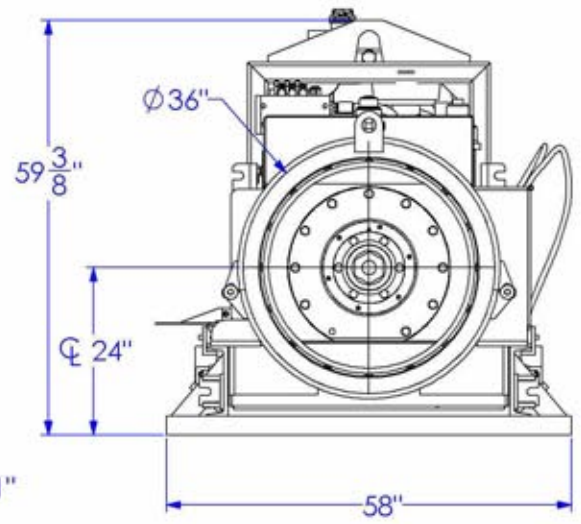
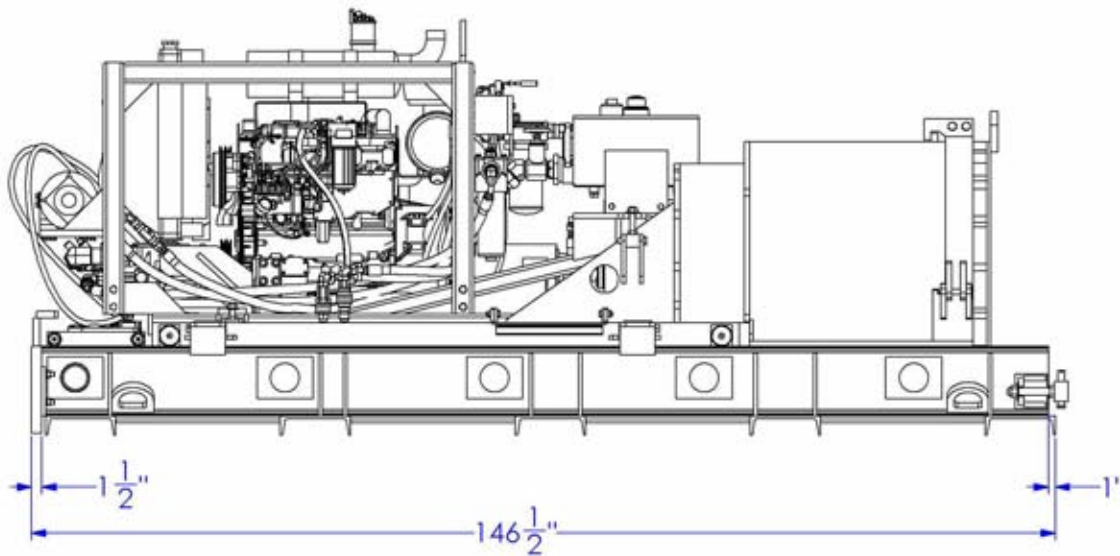
Our machine uses a 97 HP 4 cylinder engine coupled to a 4-speed transmission and the exclusive Michael Byrne Manufacturing high ratio triple planetary gearbox. Our planetary gearbox is specifically designed for boring machines. Handling the severest shock loads, surpassing any of our competitor models. Also included is a thrust package protecting the complete drive train.

The gear pump supplies 38 GPM to four (or two for increased speed) hydraulic cylinders with a max pressure of 5,000 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 emergency switch for total machine shut down.

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### Power Train System

Engine: Cat/John Deere 97Hp @ 2200 Rpm Water cooled.

**Fuel Capacity:** 11 U.S. Gallons

### TRANSMISSION: T-18

1st Gear	6.32:1
2nd Gear	3.09:1
3rd Gear	1.69:1
4th Gear	1.00:1
Reverse	7.44:1

**Planetary Gearbox Ratio** B10-B10 Extreme Heavy Duty Double Planetary 48 : 1 Ratio  
With Push Pull Thrust Bearing Package.

**Auger Drive:** 3" or 4" Hex

**Working Range:** 12" to 36" Earth Boring ; Pipe Jacking

**Optional:** Lift Package to do 48" Bores and rack and pinion drive system (fast track)

### Machine Torque and Speed Max

1st Gear	116,788 Ft-Lbs (1,401,464 In-Lbs),	4.14 RPM
2nd Gear	57,100 Ft-Lbs (685,209 In-Lbs),	8.47 RPM
3rd Gear	31,230 Ft-Lbs (374,759 In-Lbs),	15.49 RPM
4th Gear	18,479 Ft-Lbs (221,751 In-Lbs),	26.19 RPM
Reverse	137,485 Ft-Lbs (1,649,724 In-Lbs),	3.52 RPM

### Hydraulic System

Pressure	5,000 PSI
Pump Type	Piston Pump with Load Sensing
Gallon per Minute	38 GPM
Cylinders	Four 7" Bore x 36" Stroke
	Ball valve provided to shut-off 2 cylinders for faster operation.
	4 Cylinder Thrust 770,000 Lbs 2 Cylinder Max Thrust 385,000 Lbs
Pressure Filter	10 Micron Replaceable Element
Return Filter	10 Micron Replaceable Element

Heavy Duty Hydraulic Oil Cooler : Oil cooling provided to allow optimize performance of machine in Extreme Conditions.

### Weights (Approx.)

Bottom Base Assembly	4,300 Lbs.
Top Base Assembly	4,150 Lbs.
Master Ring Assembly	1,024 Lbs.
Master Track	1,808 Lbs.

### Dimensions

Centerline of Bore to Bottom of Track	: 24"
Machine Height	: 69"
Machine Width	: 58"
Base Track Length	: 12' 1 1/2"