



**HORIZONTAL DIRECTIONAL DRILLING  
AUGER BORING MACHINE  
GUIDED BORING MACHINE**

SPECIFICATIONS	30	36	48
OPERATOR CONTROLS	WIRELESS REMOTE DOCKABLE	WIRELESS REMOTE DOCKABLE	WIRELESS REMOTE DOCKABLE
OPERATING SYSTEM TYPE	TOTAL MACHINE MICRO PROCESSOR CONTROL	TOTAL MACHINE MICRO PROCESSOR CONTROL	TOTAL MACHINE MICRO PROCESSOR CONTROL
ELECTRICAL SYSTEM	12VDC WITH CAN COMMUNICATION	12VDC WITH CAN COMMUNICATION	12VDC WITH CAN COMMUNICATION
HORSE POWER	200 HP	250 HP	400 HP
ROTARY HYDRAULIC PUMP	HYDROSTATIC-90 SER/130CC, 6000 PSI	HYDROSTATIC-(X2) 90 SER/130CC, 5750 PSI	HYDROSTATIC-SER/130CC, X2
MAX ROTARY TORQUE	33,741 FT/LBS	60,056 FT/LBS	80,620 FT/LBS
MAX ROTARY SPEED	100 RPM, 3 SPEED	84 RPM, 3 SPEED	84 RPM, 3 SPEED
THRUST HYDRAULIC PUMP	OPEN LOOP-45 SER/100CC, 5000PSI	OPEN LOOP-45 SER/130CC, 5000 PSI	OPEN LOOP-45 SER/130CC, X2
CYLINDER THRUST FORCE (FWD)	282,743 LBS	500,142 LBS	737,961 LBS
CYLINDER PULL BACK FORCE (REV)	186,532 LBS	375,107 LBS	592,191 LBS
MAX CYLINDER THRUST SPEED	FWD 20.3 FPM REV 30 FPM	FWD 14.2 FPM REV 18.9 FPM	FWD 11.2 FPM REV 14 FPM
RACK AND PINION THRUST FORCE	31,104 LBS	60,209 LBS	122,262 LBS
MAX RACK AND PINION THRUST SPEED	90 FPM INFINITELY VARIABLE	67 FPM INFINITELY VARIABLE	60 FPM INFINITELY VARIABLE
BREAKOUT GRIP RANGE	3" TO 7"	4" TO 8"	5" TO 14"
BREAKOUT TORQUE	70,000 FT/LBS	114,733 FT/LBS	160,000 FT/LBS
DRILLING FLUID GPM	9 GPM	20 GPM	20 GPM
DRILLING FLUID PSI	750 PSI	1000 PSI	1300 PSI
MIXING TANK CAPACITY	300 GALLON	300 OR 500 GALLON	300 OR 500 GALLON
MIXER TYPE	9" PROP	9" PROP	9" PROP
SPINDLE INFO	6-1/4" MALE SPLINE WITH 3-1/2" IF API	7-7/8" MALE SPLINE WITH 4-1/2" IF API	7-7/8" MALE SPLINE WITH 6-5/8" FH API
SPINDLE ID	2.25"	3.25"	3.25"
FUEL TANK CAPACITY	100 GALLON	150 GALLON	200 GALLON
HYDRAULIC TANK CAPACITY	175 GALLON	250 GALLON	300 GALLON



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**THE TRIPLE THREAT  
HORIZONTAL DIRECTIONAL DRILLING  
AUGER BORING MACHINE  
GUIDED BORING MACHINE**



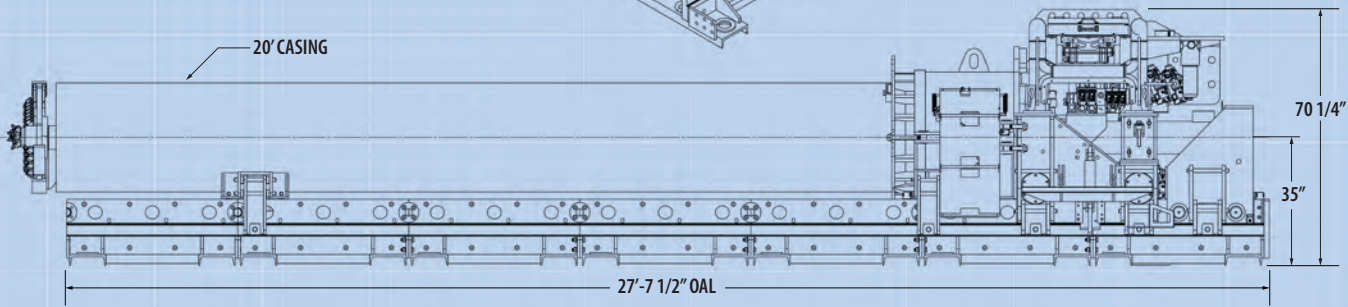
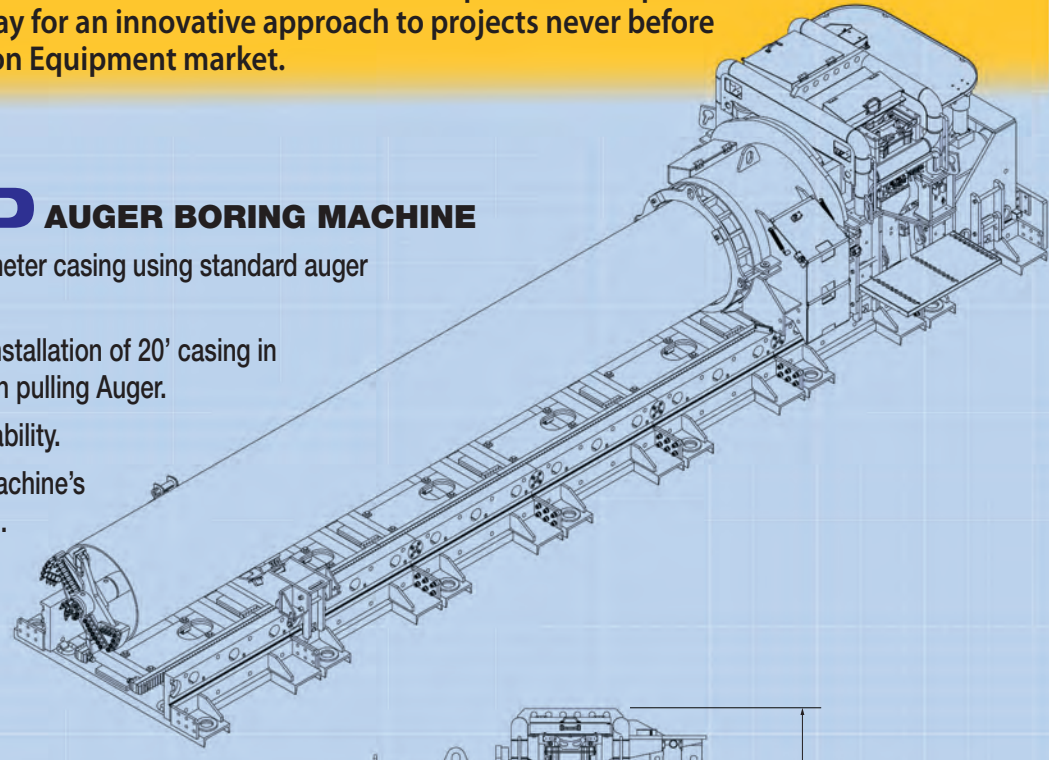
**WE'RE YOUR UNDERGROUND MANUFACTURING SPECIALIST**

**MADE IN USA**

**T**ribor is a hybrid of three types of machinery common to Trenchless Technology; Guided Boring, Auger Boring and Directional drilling machines. These three modes of operation complimented with a robust mud circuit pave the way for an innovative approach to projects never before seen in the Underground Construction Equipment market.

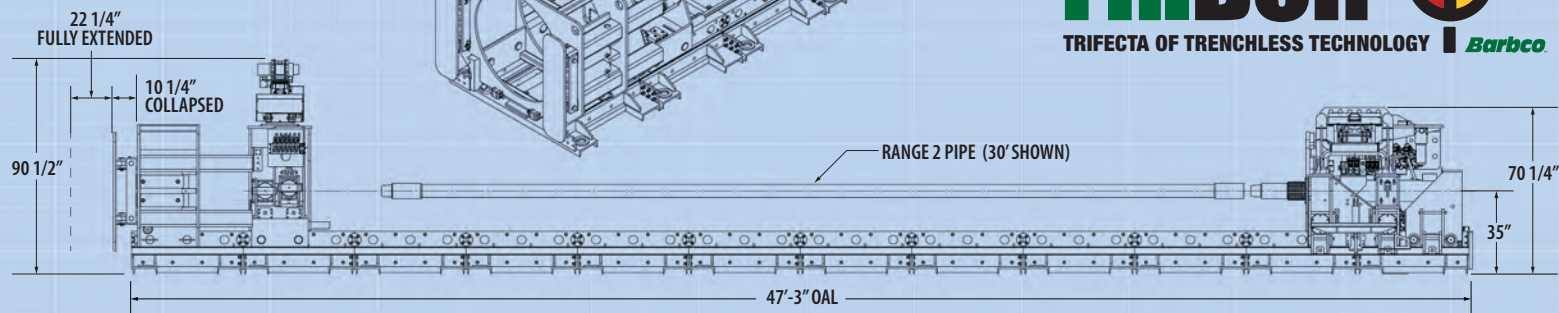
## ABM METHOD AUGER BORING MACHINE

- Capable of installing 48" and smaller diameter casing using standard auger boring accessories.
- Rack and pinion thrust system provides installation of 20' casing in one continuous push and saves time when pulling Auger.
- Locking front saddle with hold-down capability.
- Powerful jacking cylinders mounted on machine's spring line for installing all types of casing.
- High Torque – High Speed rotary.
- Three paddles spoil ejecting.



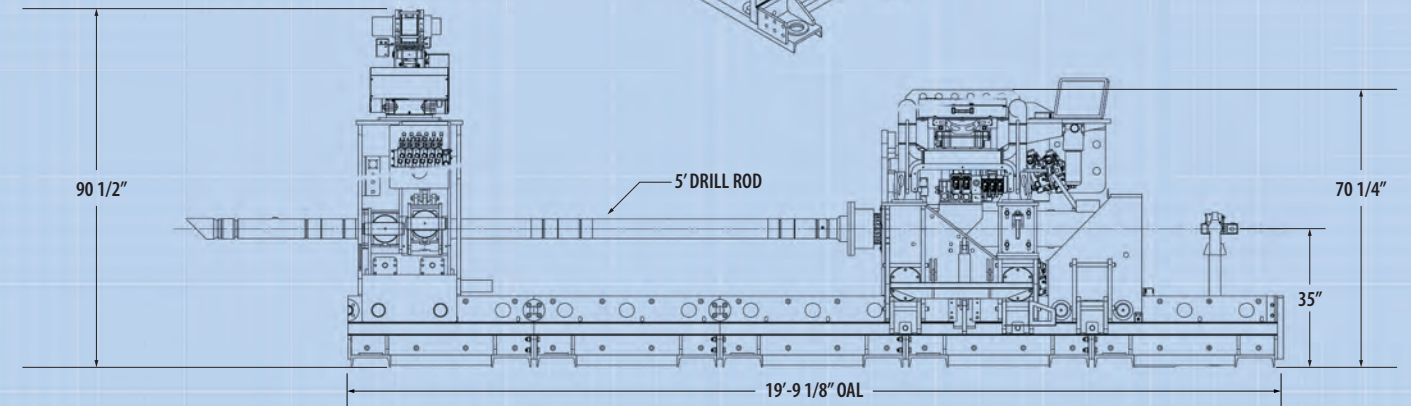
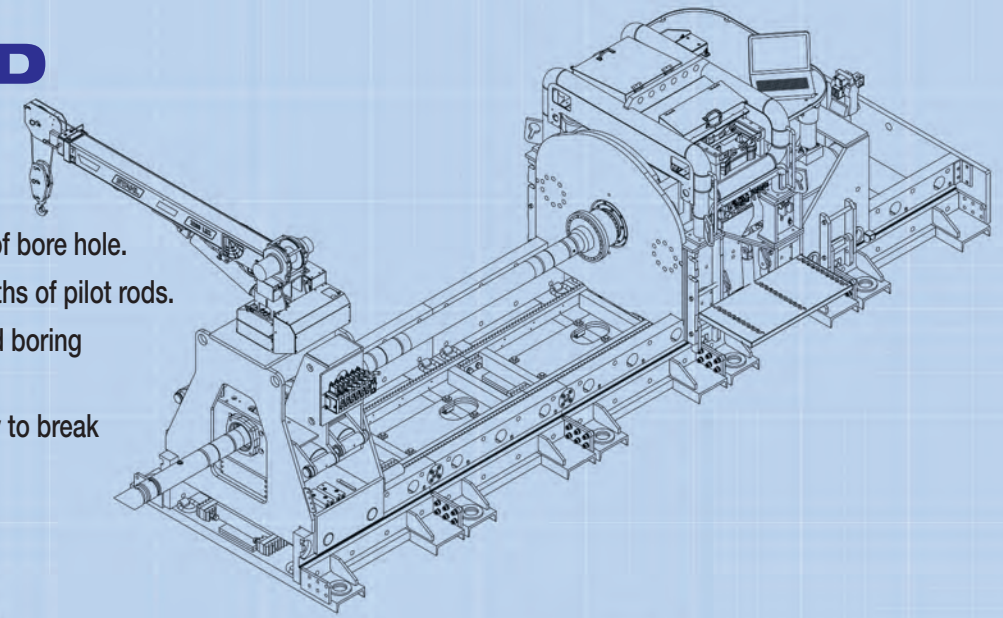
## HDD METHOD HORIZONTAL DIRECTIONAL DRILLING

- Multi-speed high torque rotary gearbox with strong pulling force to bring back large diameter product line
- Removable dual wrenches are heavy duty to break the toughest joints
- Mud motor or air hammer ready for hard rock drilling conditions
- Compatible with walk over or wire line ready locating systems.
- Rear spindle fluid swivel for high volume mud pumping.
- Can be adapted to use all types and lengths of drill pipe.
- Auto-Drill modes for optimal efficiency.



## GBM METHOD GUIDED BORING MACHINE

- Utilizes highly accurate theodolite pilot tube steering technology
- Side entry fluid swivel allows lubrication of bore hole.
- Can be adapted to use all types and lengths of pilot rods.
- Engineered to use air hammers for guided boring through rock.
- Removable dual wrenches are heavy duty to break the toughest joints
- Adjustable torque settings.



Quick Attach Adapters and High Volume Spindle



3 Modes of Operation



Dockable, Wireless Remote



Robust Adjustable Hold Downs



Extensible, Quick Alignment Precision Track



Centerline Jacking System

