

# TAPMATE™ DRILLING MACHINE

## SUBMITTAL INFORMATION

The Transmate TapMate™ drilling machine is designed for making 3"-12" lateral taps into both pressurized and non-pressurized mainlines of any pipe commonly used in underground water distribution. It is of heavy duty construction with a lightweight design for durability, as well as easy handling and operation. The TapMate is fast and precise, using its quick travel for speed and its manual feed and an integral travel scale for precise cuts.



## TAPMATE™

The Shaft is constructed of ASTM 4140 turned, ground, and polished steel alloy. It is also case hardened and corrosion protected. A 1" square is provided at the rear of the Shaft for power drive connection. The tip of the Shaft is threaded with 1¼" – 7 threads to allow attachment of Shell Cutters. A Jam Nut is provided to position the Shell Cutter onto the threaded end of the Shaft. Additionally, the tip of the Shaft is drilled and tapped with a 5/8" – 11 hole for attachment of either of the two Pilot Drills or the Pilot Drill Extension. Travel into and out of the cut uses both a quick travel and a

precision travel method. Quick travel is provided by a sliding square tube mechanism and allows 14" of fast travel. A ductile iron feed nut traveling on a threaded tube provides the precision travel. The threaded tube is case hardened and corrosion protected. The threaded travel is 13 ½". A travel scale, marked in inches is cut into the threaded tube. The total machine travel is 27 ½".

The TapMate comes in a reinforced wooden storage box and includes an Operation Manual and storage space for accessories.

## PILOT DRILLS

The Pilot Drills thread into the end of the Shaft. The Shaft Nose pilot drill incorporates a Spade bit and is to be used for ductile iron, cast iron, steel, and asbestos cement pipe. The

PVC Pilot is to be used for PVC and HDPE pipe. A Pilot Drill Extension is provided for 10" and 12" cuts to extend the Pilots beyond the end of the Shell Cutter.

## ADAPTER BELLS

Adapter Bells are available for mechanical joint and flanged connections. Custom Adapter Bells can be made upon request. All Adapter Bells are constructed of ductile iron, steel, or aluminum and thread onto the end of the threaded

tube. A set screw is provided to lock the adapters onto the threaded tube. An O-ring is provided to seal the Adapter Bell to the end of the threaded tube.

## SHELL CUTTERS

Shell Cutters are available for ductile iron, cast iron, steel, PVC, HDPE, and A/C pipe materials. The Shell Cutter bodies are steel construction with a threaded attachment nut on the back.

Shell cutters are provided with carbide teeth. The Shell Cutters thread onto the Shaft. The number of teeth on each Shell Cutter is a minimum of 3 times the nominal OD of the cutter.

## POWER OPTIONS

A self-contained Hydraulic Power Drive system is available as an option. The Hydraulic Drive pump provides 2000 psi and 4 gallons per minute (GPM) to power the Shell Cutters. A metal frame protects the drive pump and has rubber skid pads on the bottom. The Hydraulic Drive motor attaches to the back of the TapMate machine with snap lock mechanisms. The Hydraulic Drive motor has an on-off valve. All hoses and connectors are provided.

Other optional power units are an Air Drive and an Electric

Drive. The Air Drive connects to the back of the TapMate™ in the same fashion as the Hydraulic Drive. The Air Drive motor, coupling and adapter are provided. The pneumatic power source will need to be provided by the end user. The Electric Drive will only connect to the Shaft to provide rotation to the holesaw, but no mechanism is provided to restrain the counter-rotational forces of the holesaw. An electric power source will need to be provided by the end user.

*This information is based on the best data available at the date printed above. Please check with Romac for any updates or changes.*

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