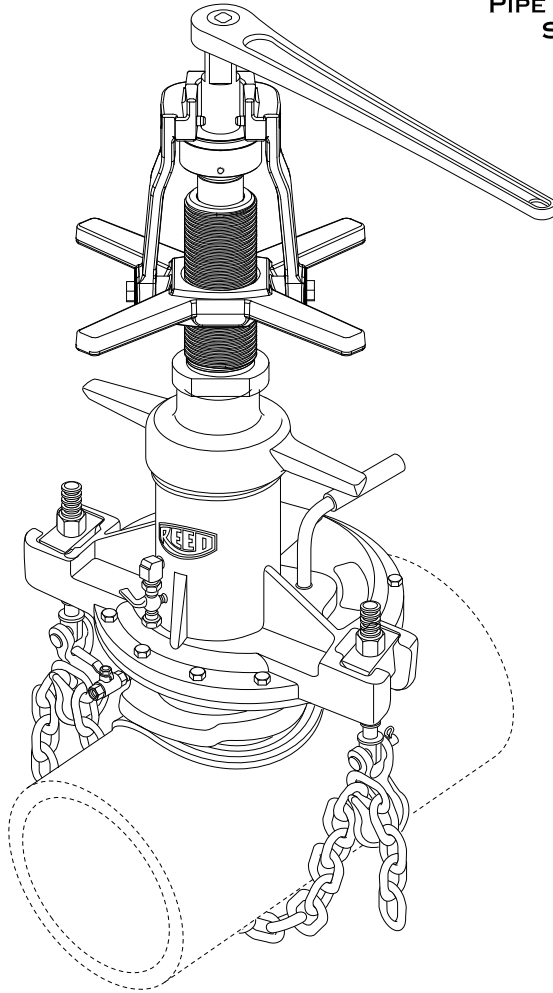
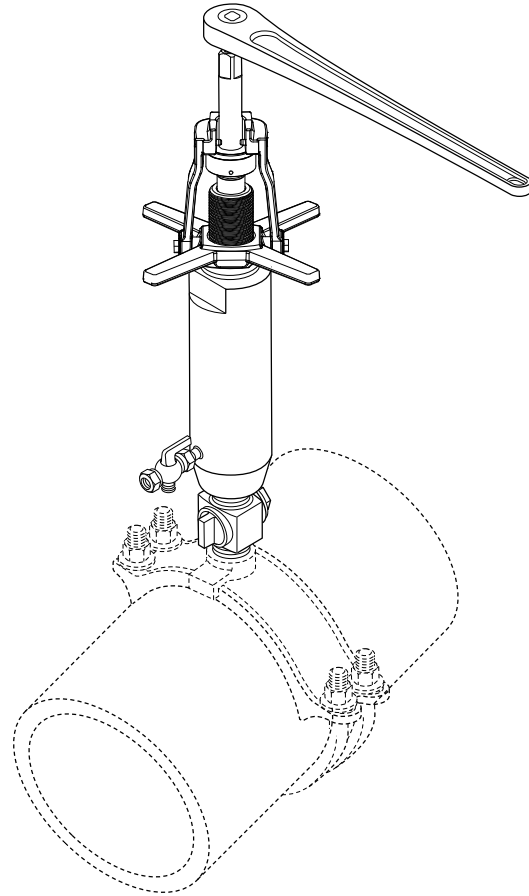




PIPE TOOLS & VISES
SINCE 1896



TM1100



DM1100 / DM2100

Tapping & Drilling Instructions Instrucciones para aterrajar y perforar

COMBINATION TAPPING & DRILLING MACHINE - CDTM1100, CDTM2100

TAPPING MACHINE - TM1100

DRILLING MACHINE - DM1100, DM2100

MÁQUINA COMBINADA PARA PERFORAR Y ATERRAJAR - CDTM1100, CDTM2100

MÁQUINA PARA ATERRAJAR - TM1100

MÁQUINA PARA PERFORAR - DM1100, DM2100

WARNING:

Read and fully understand all instructions before operating any of Reed's tapping or drilling machines. Failure to follow all instructions listed inside, may result in serious personnel injury and / or property damage.

ADVERTENCIA:

Lea y comprenda perfectamente todas las instrucciones antes de operar cualquier máquina para aterrajar o perforar de Reed. El incumplimiento de cualquiera de las instrucciones que aparecen en este documento puede resultar en graves lesiones personales o daños materiales.

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REED MANUFACTURING COMPANY

COMBINATION TAPPING & DRILLING MACHINE - CDTM1100, CDTM2100 TAPPING MACHINE - TM1100. DRILLING MACHINE - DM1100, DM2100

Basic Product Information:

The TM1100 tapping machine drills and taps pressurized water mains. The tool additionally installs a 3/4" or 1" corporation stops. The tool can drill and tap 4"-48" cast or ductile iron and C-900 PVC. The base tool requires saddles for specific sizes and chain extensions above 16". The tool uses Reed DT series drill taps.

The DM1100 and DM2100 drilling machines drill through the wall of pressurized pipe via the corporation stop and saddle. These tools use Reed D series drills and hole saws. The CDTM1100 and CDTM2100 combination machines use common components to assemble either the drilling machine or the tapping machine.

Catalog No.	Item Code	Size	Pipe Dia.	Net Shipping Weight
CDTM1100	09304	3/4" - 1" TAP & DRILL	4"-48" TAP	114 lbs/52 kg
CDTM2100	09314	3/4" - 1" TAP/ 2" DRILL	4"-48" TAP	116 lbs/53 kg
DM1100	09302	3/4" - 1"	N/A	58.2 lbs/26.5 kg
DM2100	09312	3/4" - 2"	N/A	60.9 lbs/27.7 kg
DMBASE	09301	N/A	N/A	35 lbs/15.9 kg
TM1100	09300	3/4" - 1"	4"-48" TAP	102 lbs/46 kg

Additional Specifications

- Tool Box overall outside dimensions:
TM1100 27 5/8 x 13 3/4 x 14
DM1100 23 x 10 1/2 x 11 3/8
See sketch for overall machine dimensions.
- Machine Clearance radius:
TM1100 = 32"
DM1100 = 26"
- Pressure Rating: Design pressure rating for valve and chamber = 250 psi.
- Operating Pressure Rating - 90 psi - ie - Drilling or Tapping into pressurized mains.

Warning:

Drilling or Tapping into highly pressurized mains is not recommended. However, it is permissible at pressure up to 250 psi, if utilizing special precautions and incorporating high pressure attachments such as the Mueller® Power Clevis #H-10800. (See operations and maintenance manual.) DO NOT USE on natural gas or petroleum piping.

- Flushing/blow by port: 1/2-14 NPT plugged port is provided in bottom chamber for flushing chips while tapping into pressurized mains.
- Swing check valve resists clogging and is easy to clean out.
- Manual pressure balancing and top chamber pressure relief valves are accessible and easy to use.
- Manual or power drive operation through 13/16" square shaft (Adapter sold separately).

Materials and Finish:

- Hard anodized and powder epoxy painted aluminum frames.
- Alloy steel boring bar.
- Heavy duty steel chain and forged steel chain hooks.
- Bronze and zinc aluminum parts.
- EPR rubber gaskets and "O" rings.
- Plated steel parts.

CDTM1100 and CDTM2100

Operating Instructions:

1. Drilling

- Convert direct tapping set up to drilling set up.
 - Remove 99307 Bearing Assembly by backing out the single set screw.
 - Remove the tapping boring bar from the 99300 Threaded Body
 - Insert the drilling machine boring bar into the threaded body.
 - 3/4" and 1" branch taps - reinstall bearing assembly. Line the set screw up with the lower hole in the boring bar. Drive the screw in until recessing the screw slightly. (See figures 2 & 3)
 - 1-1/2" and 2" branch taps -
 - Install 99301 Sleeve.
 - Reinstall bearing assembly. Line the set screw up with the lower hole in the boring bar. Drive the screw in until recessing the screw slightly. (See figures 2 & 3)
 - Follow DM1100/DM2100 operating instructions to tap branch lines.

2. Tapping

- Convert drilling set up to tapping set up.
 - Remove 99307 Bearing Assembly. Back the single set screw out past the sleeve then remove the bearing assembly and sleeve.
 - Remove the drilling boring bar from the 99300 Threaded Body
 - Insert the tapping machine boring bar into the threaded body.
 - Reinstall the bearing assembly on the tapping bar.
 - Line the set screw up with the lower hole in the boring bar. Drive the screw in until recessing the screw slightly.
- Follow TM1100 to tap branch lines.

TM1100 Operating Instructions:

Warning:

The maximum operating pressure for this tool is 90 psig (621kPa). When using a power clevis, the maximum operating pressure is 250 psig (1724 kPa). DO NOT USE this tool on pipes containing natural gas or petroleum products.

Warning: Dry tap a piece of pipe to acquaint personnel with the machine and to preset groove depth for tapping.

1. Select proper tools necessary to perform tap.

- Corporation stop.
- Drill tap size to match corporation stop threads.
- Proper size saddle.
- Proper size corp insertion tool.
- Any other necessary accessories to meet operating requirements.

2. Assemble chamber to the pipe.

- Clean area of pipe where tap will occur. Use a REED DS12 or DS36 Descaler.
- Place saddle gasket on the pipe with hub up.
- Place the saddle over the gasket. Fit hub into center hole.
- Place the disc gasket in the top recess.
- Unscrew the top cap (assembled with Boring Bar).
- Place the machine chamber onto the disc gasket recess. Position the machine so the swing valve is on the same side as the operator.