

Hot Tap Tool

for High Pressure (HP™ and MH™) Access Systems

The Metal Samples hot tap tool provides a safe and reliable method of hot tapping high pressure access fittings on pressurized pipelines or vessels.

Operation

A special cutter assembly is installed in the access fitting, previously welded onto the pipe. To tap a hole through the pipe wall, a service valve is installed on the fitting. This allows the cutter fitting to be isolated, if necessary. The hot tap tool is mounted on the service valve and mated to the cutter. The drive screw on the hot tap tool puts pressure on the cutter as the tool shaft is rotated to cut through the pipe wall.

After the hole is cut through the pipe wall, the tool is removed from the valve and the retrieval tool is then used to pull the cutter assembly and pipe plug from the fitting. Shavings and cuttings are removed using swabs or brushes.

The hot tap procedure may be expedited by use of an air operated drill motor to turn the cutter shaft.

Safety is enhanced in the Metal Samples assembly because the cutter is isolated from the atmosphere by a service valve. At any time in the procedure, the cutter drive shaft may be retracted and the fitting and its contents isolated from the atmosphere by closing the service valve.

The HP™ hot tap tool is designed to be used with 5.25" HP™ Flareweld or Buttweld access fitting systems. The MH™ hot tap tool is designed to be used with 5.5" MH™ Flareweld or Buttweld access fitting systems.



MH™ and HP™ are trademarks of Metal Samples.



Metal Samples Company

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**Hot Tap Tool (HA102102)
for HP High Pressure Access Systems**

Description	Part #
Bore Reamer Assembly	HA102004
HP Thread Chaser w/ Adapter	HA102016
Seat Reaming Assembly	HA102018
Weld and Seal Test Asy	HA102017
Cutter Assembly - HP 5 1/4"	
Nipple	HA102015
HP Cutter Test Assembly	HA102020
Bushing Insertion Tool	PR6483
Hot Tap and Extraction	
Tool Test Assembly	HA102013
Hot Tap Turning Handle Asy	HA102007
Over Shot for Cutter	HA102014
Adapter for Tools	HA102001158
Magnetic Swab Assembly	HA102003
3/16" Allen Wrench	PR6352
Spanner Wrench	PR6356
1 3/8" Hex Socket	PR6433
Snap Ring Pliers (Internal)	PR6479
Seal Insertion Ring	PR6480
Brass Hammer	PR6358
3/32" Allen Wrench	PR6478
Snap Ring Pliers (External)	PR6484
Quick Coupling (Female)	PR6477
1/2" Drive, Socket "T" Handle	PR6357
Case	PS5604A69
Seal Repair Kit	KR1007

The above tools are furnished as standard equipment with each complete Hot Tap Tool Kit. In addition, a 3/16" punch, large crescent wrench, large screw driver, etc., are necessary.

**Hot Tap Tool (HA102101)
for MH High Pressure Access Systems**

Description	Part #
Bore Reamer Assembly	HA102004
MH Thread Chaser Asy	HA102009
Seat Reaming Assembly	HA102008
Weld and Seal Test Asy	HA102019
Cutter Assembly - MH 5 1/2"	
Nipple or as specified	HA102010
MH Cutter Test Assembly	HA102012
Bushing Insertion Tool	PR6483
Hot Tap and Extraction	
Tool Test Assembly	HA102013
Hot Tap Turning Handle	HA102007
Over Shot for Cutter	HA102014
Adapter for Tools	HA102001158
Magnetic Swab Assembly	HA102003
3/16" Allen Wrench	PR6352
Spanner Wrench	PR6356
1 3/8" Hex Socket	PR6433
Snap Ring Pliers (Internal)	PR6479
Seal Insertion Ring	PR6480
Brass Hammer	PR6358
3/32" Allen Wrench	PR6478
Snap Ring Pliers (External)	PR6484
Quick Coupling (Female)	PR6477
1/2" Drive, Socket "T" Handle	PR6357
Case	PS5604A69
Seal Repair Kit	KR1007

The above tools are furnished as standard equipment with each complete Hot Tap Tool Kit. In addition, a 3/16" punch, large crescent wrench, large screw driver, etc., are necessary.