

MicroDrill

Specialized machine for precise plug removal

The MicroDrill is a compact tool for drilling, reaming, boring, and removing taper plugs—welded or non-welded—from heat exchangers. Its low-profile design allows mounting just 24 mm from the shell or partition plate, ensuring high accessibility in tight spaces. Built for operator safety and reliable performance.

KEY FEATURES

60 MM (2.4") TOOL TRAVEL

Covers most heat exchanger tube sheets; suitable for various equipment types.

STABLE AND ACCURATE

Firm clamping ensures precise, repeatable machining.

TORQUE-REACTIVE PLATFORM

Absorbs machining forces, improving safety and control.

INDEPENDENT CLAMPING SHAFTS

Two standard shafts (optional third) accommodate different tube pitch layouts.

OPERATOR SAFETY

Designed for quick, safe plug removal with minimal risk.



WORKING RANGE		LOCKING RANGE		POWER		TORQUE	
12,5– 38,0 mm		According to the drawing		0,98 Hp		18 Nm / 300 RPM (55 Nm / 100 RPM*)	
0,492 – 1,496"						13,28 Ft-lbs / 300 RPM (40,57 Ft-lbs / 100 RPM*)	
AIR USE		BODY WIDTH		BODY HEIGHT		BODY LENGTH	
17 cfm	0,48 m³/min	1,73"	44 mm	10,82"	275 mm	12,2"	310 mm

*with 3x Speed Reducer



RIGID LOCKING

On standard heat exchangers, MicroDrill machine secures itself in the tube sheet using a locking plate and two (optionally three) clamping shafts. The locking plate is specifically manufactured to match the tube hole pitch, ensuring perfect alignment for accurate and stable machining.



UNIVERSAL REACTION PLATE

The MicroDrill includes a locking plate and three shafts. The universal plate design allows the use of two shafts on one side for access to the last row of holes. The plate can also rotate 180 degrees to fit partition plates, channel heads, and other components.

AVAILABLE TOOLS



STWRPH

Weld removal head for tube plugs



WELDON 25

Drill bit holder for ER-25 collets



MPP-381

Manual tube plug puller up to 1-1/2" plugs