

# WATER

## RAISE & LOWER

For submerged cutting

## Benefits

- ☑ Reduces noise drastically
- ☑ Reduces splashing
- ☑ Easy and fast to adjust
- ☑ Keeps work environment safer

### Adjust the water level in seconds for a quiet, clean work environment

Submerged cutting is the best solution for abrasive waterjet applications such as: steel, stainless, aluminum, copper, bronze, inconel, titanium, and other metals, as well as materials like glass, stone, marble, granite, and many others. *Get the best of your machine with submerged cutting.*



#### How it works

At the push of a button, Techni Waterjet offers automatic "Water Raise/Lower for Submerged Cutting" by designing our tanks to include air-tight welds of an air chamber which uses regular shop air pressure (80 psi, 18 cfm) to raise/lower the air pressure level, forcing the raise/lower of the water level.

No moving parts are required and no parts will wear out. An on/off solenoid valve controls the air intake/exhaust.



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### 1 QUIET WORK ENVIRONMENT

A typical abrasive waterjet stream travels over three times the speed of sound and as it travels through the air, the turbulent passing air generates noise levels over 100 dB, even as high as 120 dB.

By raising the water level and submerging the material, "the operating noise level" is reduced well below safety limits.

Because the high pressure water stream is underwater and not exposed to the air, minimal noise is created and it is "trapped" underwater.

Submerged cutting noise levels typically remain below 78 dB while normal conversation can take place standing right next to the waterjet.

### 2 CLEAN WORK ENVIRONMENT

The typical high pressure waterjet piercing process results in an abrasive jet stream that "rooster tails" back into the environment for the duration of the pierce.

When the material is not submerged, as the abrasive stream shoots upward, an abrasive mist is created and rises, which consequently settles on your work piece.

Customers with submerged cutting will benefit a clean working area.

**To Raise or Lower Water** Simply click or touch the icon on the Techni Docking Bar

