

PRECISION
SURFACES.
GREATER
POSSIBILITIES.

AquaTexture

Advanced high-pressure surface finishing system designed to ensure precision, reliability, and versatility in the most demanding industrial applications.

Key Components

Pneumatic Motor

Belt-driven motor powered through a dedicated air inlet. Designed to ensure reliability and long service life in demanding industrial environments. The belt transmission reduces vibrations transferred to the rotary joint, extending component lifespan and improving jet stability during operation.

High-Pressure Rotary Joint

Rotary joint designed to operate safely at high pressures.
Maximum pressure: 3,000 bar.
Standard operating pressure: 1,500–2,500 bar.
The high-pressure connection is made through a 3/8" gland fitting, ensuring maximum sealing performance and safety even under the most demanding operating conditions.

Technical Specifications



2,500
rpm max

Maximum motor rotational speed at 6.3 bar



0.3
m³/min

Maximum air consumption at 6.3 bar



3,000
bar max

Maximum rotary joint pressure



3/8"
Gland fitting

High-pressure gland connection

AquaTexture 2.5 4 Orifice Rotating Nozzle

The 4-orifice rotating nozzle is the core operating component of the AquaTexture 2.5 system. It enables consistent and controlled surface finishing results, reducing the risk of streaking and ensuring repeatable results over time.

Standard Equipment Included

- Stainless steel protective guard for operator safety
- 4 × 0.25 mm orifices — 100 HP configuration
- 2 × 0.25 mm orifices + 2 blind plugs — 50 HP configuration
- 4 × 0.15 mm orifices — 50 HP configuration
- 2 blind plugs included

Available Configurations

100 HP: 4 × 0.25 mm orifices for maximum flow rate and jet power.
50 HP (Option A): 2 × 0.25 mm orifices + 2 blind plugs for intermediate flow rates.
50 HP (Option B): 4 × 0.15 mm orifices for more concentrated and precise jets.



CREATE
DISTINCTIVE
SURFACES
IN STONE.

AquaLines

Configurable waterjet head with 1 to 5 orifices for producing decorative grooves on marble, granite, quartz and natural stone. Machining paths can follow straight, curved or geometric patterns according to the programmed toolpath.

Multi-Orifice Configuration

The modular configuration allows the simultaneous use of one or more jets to increase productivity and achieve different surface effects. When all available orifices are not required, unused positions can be closed using dedicated plugs without modifying the head configuration.



Technical Specifications



1-5
Configurable orifices

Number of jets available according to the pump power.



0.15-0.35
mm

Standard orifice diameter.



1-2
mm

Groove width with standard sapphire orifices.



3-6
mm

Groove width with diamond FanJet nozzles.

Available Configurations

Fine Grooves

Configuration with sapphire orifices from 0.15 mm to 0.35 mm.

Final groove width depends on:

- standoff distance from the surface
- operating pressure
- feed rate
- material being processed

Applications

- decorative linear textures
- architectural surfaces
- anti-slip finishes
- high-definition surface processing

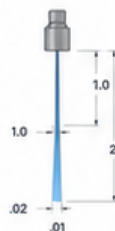
Wide FanJet Grooves

Configuration with diamond FanJet nozzles.

The groove width can vary from approximately 3 mm to 6 mm depending on operating parameters and standoff distance from the surface.

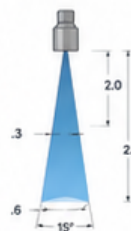
Applications

- architectural cladding
- ventilated façades
- anti-slip flooring
- design elements
- deeper decorative textures



Standard Orifice

Straight jet creates a 1–2 mm groove, depending on the nozzle height.



FanJet Orifice

Wide jet creates a 3–6 mm groove, depending on the nozzle height.