MAXIEM ABRASIVE NOZZLE ASSEMBLY

The MAXIEM Abrasive Nozzle Assembly can include either a MAXJET®5 Nozzle or MAXJET 5 MiniJet Nozzle. The high-density jet is tightly defined to produce a small kerf with minimal frosting, surface striation, and taper on the material. Other MAXIEM nozzle options are available and all feature an orifice with a robust design.

MAXJET 5 NOZZLE

Durable and accurate nozzle features a robust orifice and a low cost design. Easily interchangeable with the optional MAXJET 5 Minijet, MAXJET 5i, or MAXJET 5i MiniJet Nozzle.

MAXJET 5 STANDARD FEATURE

- 4" long mixing tube offers enhanced precision and superior quality cutting compared to a shorter mixing tube

MAXJET 5 NOZZLE BENEFITS

- Orifice and mixing tube are self-aligning to assure reliable operation
- Nozzle inlet tube features high-fatigue strength and resistance to wear
- Nozzle body has no contact with abrasives or high-pressure water resulting in longer life
- All parts are sized for easy handling and maintenance

MAXJET 5 MINIJET NOZZLE

Designed for cutting applications requiring a narrower or more exact cut width. It is ideal for producing parts with detailed shapes or minimal taper on the material.

MAXJET 5 MINIJET STANDARD FEATURES

- Extremely coherent jet stream cuts narrow widths between 0.020" to 0.025"
- Very low cutting forces for machining thin delicate material, but still suitable for cutting thicker parts and traditional metals
- Easily interchangeable with standard MAXJET 5 Nozzle
- The entire nozzle can be easily disassembled for maintenance

MAXJET 5 MINIJET NOZZLE BENEFITS

- Cut intricate, delicate parts with no distortion or secondary machining
- Cut precise parts with minimum taper from the top to the bottom of the cut
- Reduce wasted material when cutting precious metals

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A DIVISION OF OMAX CORPORATION

SPECIFICATIONS SUBJECT TO CHANGE

5-003M DECEMBER 2017
MAXJET 5i NOZZLE

A factory-aligned, long-life diamond integrated nozzle designed for rugged durability and convenience.

**MAXJET 5i STANDARD FEATURE**
- High quality nozzle components include mixing chamber, carbide disc, and diamond orifice integrated and aligned within the nozzle body

**MAXJET 5i NOZZLE BENEFITS**
- Complete assembly comes ready to install
- Reduce downtime; no need to rebuild the nozzle body when it comes time for a replacement
- Lower overall operating cost than traditional nozzles
- Increased mixing tube life by having a more accurate stream and jet alignment to reduce internal contact from abrasives
- Expected life 500 hours or more (limited warranty*)

MAXJET 5i MINIJET NOZZLE

A factory-aligned, long-life diamond integrated nozzle designed for rugged durability, convenience, and exact cutting at a narrower width.

**MAXJET 5i MINIJET FEATURES**
- High quality nozzle components include mixing chamber, carbide disc, and diamond orifice integrated and aligned within the nozzle body
- Cuts at a narrower width (between 0.020” and 0.025”)

**MAXJET 5i MINIJET BENEFITS**
- Complete assembly comes ready to install
- Reduce downtime; no need to rebuild the nozzle body when it comes time for a replacement
- Lower overall operating cost than traditional nozzles
- Cut intricate, delicate parts with no distortion or secondary machining
- Reduce wasted material when cutting precious metals
- Expected life 500 hours or more (limited warranty*)

MAXJET 5 WATER ONLY NOZZLE

Designed for basic cutting applications such as rubber, wood, cloth, and other soft materials which do not require abrasive in the jet stream.

**MAXJET 5 WATER ONLY FEATURES**
- Since there is no mixing tube in the assembly, the kerf width is based on the diameter of the orifice (available orifice sizes range from 0.010” to 0.014”)
- Jewel orifice is positioned lower in the nozzle assembly, therefore closer to the work piece
- With Intelli-MAX® Software, you can select the “water only” cutting quality to deactivate the abrasive valve

**MAXJET 5 WATER ONLY BENEFITS**
- Effectively cut material without abrasive
- Save on consumable costs by not using wear components such a mixing tube, mixing chamber, or chamber disc