

WATERJET MWX3-612

The Versatility of Waterjet

The Precision And Expertise of Mitsubishi

Mitsubishi Waterjet: Next Generation

Mitsubishi is excited to introduce the next generation of it's newest product line. The first two generations helped broaden Mitsubishi's Supply Chain, delivering more manufacturing solutions to our customers. Building on the current level of expertise, the next generation will deliver a more cost effective technology base.



Features and benefits of this new model include:

- **Simple 3-Axis Cutting System:** Utilizes a Cantilever Design mounted to a wide solid thick tubular frame.
- **X-Axis Rack & Pinion Drive:** Provides a solid cost effective drive system for the long axis.
- **Y-Axis 32mm Ball Screw Drive:** Provides a lighter yet very accurate means of driving the cutting head.
- **Auto Grease System:** provides lubrication to both linear ways and axes drive systems.
- **Pump Control:** is completely incorporated into the CNC cabinet.
- **Work Table Design:** slats are located by slots, but height is set by a solid indicated flat bar.
- **New HMI(Human Machine Interface):** allows for easier use of the control graphics.

Cut Virtually Any Material

Aluminum, Ceramic,
Composites, Alloys, Titanium,
Tool Steel, Plastic, Rubber,
Foam, Food, Stainless Steel,
and Other Highly Reflective
Materials

THE **MITSUBISHI EXPERIENCE**



ABRASIVE WATERJET

MC Machinery Systems, Inc.

a subsidiary of Mitsubishi Corporation



Mitsubishi M700 Series Control - Metamation

Metamation is the software used on the control or off line. The software will allow the creation of geometry or the importing of a DXF, DWG, or 2D IGS file format. A simple click will auto tool your part with lead-in's and escapes included. Simple shape layout or nesting is just one of the many features the software will allow with some simple key strokes.

With Metamation it is possible to select type and quantities of stored pieces to be laid on one or more plates, optimizing the production and reducing wastes by the automatic "true shape" nesting.

In the technology tables it is possible to select material, thickness and finishing for the relevant work; NC Code is automatically generated ready to be transferred to the CNC by Ethernet, or USB memory stick. The software also allows the generating of an automatic estimation of the work, before the actual production showing cut time and cutting lengths.



Pressurized Abrasive Bulk Transfer system

The abrasive pressurized bulk transfer continuously feeds the cutting head through a small mini-hopper.

This system is composed of:

- 1 Steel pressurized tank - 670 lb. capacity
- 1 Mini-hopper next to the cutting head

KMT High Pressure Pumps and Parts

KMT NEO-Line 40i: intensifier with booster pump (Standard) provides 55,000 psi using a .012" orifice @ .72 gpm or 52,000 psi using a .013" orifice @ .82 gpm.

Optional Streamline Pro 60: ultra high pressure intensifier pump provides 90,000 psi using a .010" orifice @ .70 gpm.

Pump Features

Faster, Easier Maintenance: The plungers have quick release. This design simplifies removal and allows instant removal of the plunger.

Lower Cost, Longer Life: This pump utilizes a larger ceramic plunger. The longer, slower strokes of the plunger move more water with each stroke, providing more uptime and longer seal life.

Faster Cut, Thicker Material: Continuous production of 55,000 psi allows for faster cutting and running thicker materials.

Most Intelligently Designed System: End caps, high pressure cylinder and hydraulic cylinder are all threaded together, simplifying access to the seals.



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