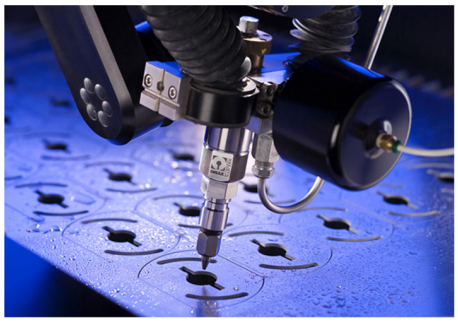
Proposal # 31580

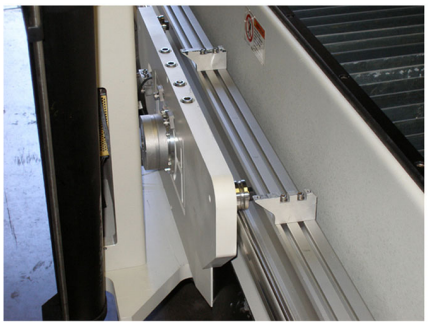
OMAX JetMachining® Center Proposal

HTF Manufacturing
495 Caboose Pl.
Mulberry, Florida 33860
February 28, 2019

Attention: **Tony Cruz**

Equipment Proposed: OMAX 80X JetMachining® Center





Omax
21409 72nd Ave. South
Kent, WA 98032

Scott Grogan
Phone: 206-790-2728
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scott.grogan@omax.com

MADE IN THE USA

Some images show optional equipment not included in this proposal

Salesman Info	Customer Info	Proposal # 31580
Scott Grogan Omax 21409 72nd Ave. South Kent, WA 98032 Phone: 206-790-2728	HTF Manufacturing 495 Caboose Pl. Mulberry, Florida 33860 863-869-8511 Attn: Tony Cruz	February 28, 2019

Machine Summary

OMAX 80X JetMachining® Center

The OMAX 80X JetMachining® Center is the standard-size model in our family of 80X bridge-style waterjet machines. All 80X models are delivered with the durable, factory-aligned OMAX MAXJET®5i Nozzle and a Bulk Abrasive Delivery System. They also feature Intelli-TRAX®, the high-precision, traction drive technology designed exclusively for the abrasive waterjet environment. This robust and reliable system requires little maintenance and maximizes both machine time and profit margins. The OMAX 80X is ideal for cutting larger or multiple part projects. Capable of handling larger stock, but featuring a slightly smaller table and work envelope than our next largest 80X offering, the OMAX 80X-1, the 80X rapidly and precisely gets the job done.

» Table size of 180" x 89" (4572 mm x 2261 mm)
» An innovative, highly precise linear encoder positioning system which allows for faster traverse speeds
» A work envelope offering an X-Y cutting travel of 165" x 80" (4191 mm x 2032 mm)

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Drive Description: Traction Drive

Featuring a patent pending drive system with closed loop, high pole vector drives, the OMAX achieves accurate and precise movement. The innovative Intelli-TRAX® traction drive further ensures higher accuracy. The traction drive system makes the OMAX a robust and reliable system that is well suited to the harsh environments and requires little maintenance. The work table comes standard with submersible cutting capability..

Accuracy of Motion

Authenticated by Dynamic Renishaw Ballbar Test*

Over one foot travel	+/-0.003"	0.076 mm
Squareness	0.002" per foot	0.17 mm/m
Straightness	0.003" per foot	0.25 mm/m
Backlash	0.0007" max	0.018 mm

(Specs per National Machine Tool Builders Association Standard)

Authenticated by Dynamic Renishaw Ballbar Test

Machine Dimensions

Weight (tank empty)	9,000 lbs	4050 kg
Height	144"	3658 mm
Operating Weight	34,000 lbs	15,300 kg

Work Envelope/Cutting Table

Cutting X-Axis Travel*	165"	4191 mm
Cutting Y-Axis Travel*	80"	2032 mm
X-Axis Table Size	180"	4572 mm
Y-Axis Table Size	89"	2261 mm
Material Supports Slats Size	4" x 1/8" Galvanized Steel	100 mm x 3 mm
Linear Axis Accuracy*	±0.001"	(±0.025 mm)
Linear Axis Repeatability*	±0.001"	(±0.025 mm)
Ballbar Circularity*	±0.003"	(±0.076 mm)

*Optional accessories such as our A-Jet, Tilt-a-Jet, Terrain Follower, Rotary Axis, Drill and other may reduce cutting envelope. Measurements at 72° F (22° C). Photos may show optional accessories. Please consult your OMAX regional manager for details.

Standard Slat Configuration: 60 slats
Maximum Slat Configuration (optional): 99 slats
Slat Bed Maximum Support Material Load: 400 lbs / Square Foot (1950 kg / Square Meter)
Floor Requirements: 4 inch minimum slab thickness
(3000 PSI concrete with steel reinforcement capable of supporting 1000 pounds per square foot)

Speed

180 inches per minute standard (higher speeds obtainable)

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Customer Info

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863-869-8511

Attn: Tony Cruz

Proposal # 31580

February 28, 2019

Proposal Summary

Description	Model Number	Qty	Price (ea.)	Price
OMAX JetMachining Center	80X	1		
P5060V	EnduroMAX P5060V	1		
MAXJET 5i Nozzle .016"	306895-16	1		
Bulk Abrasive Hopper 600 lb.	303093	1		
		Subtotal		$254,000.00
Motorized Z-Axis	306137	1	Included	$0.00
Air and Water Conditioning Kit	303923	1	$1,400.00	$1,400.00
3 Ton Chiller 36,000 BTU (460V)	316257	1	$12,600.00	$12,600.00
Pull-To-Open Valve Single Nozzle	314005-1	1	$1,400.00	$1,400.00
PTO Control Box	312794	1	$4,000.00	$4,000.00
Unlimited Seats of Software		1	$5,000.00	Included
Free Software Upgrades for the Life of Machine		1	$5,000.00	Included
3 Days Onsite Training		1	$4,000.00	Included
1 Day Follow Up Training (Pump rebuild and applications)		1	$1,000.00	Included
1 Year Extended Warranty Extention (2 Year Total)		1	$2,500.00	Included
5 Day Training in Kent, Washington (airfare, room and board, not included) FREE for life		1	$8,000.00	Included
Total Value Added			$25,500.00	Included
		Grand Total (USD)		$273,400.00

Special Houston Show Discount for HTF Manufacturing:
$236,468

Above Pricing Does Not Include Freight/Rigging or Any Applicable Sales Tax.

Price Includes 2200Lbs. of Barton Abrasive.

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Delivery point:
F.O.B., origin; freight collect, Kent, Washington, USA. All freight, delivery, sales, use, occupation, license, excise, property and similar taxes shall be the responsibility of the purchaser. All insurance, freight, and rigging expenses are the customer's responsibility.

Terms:
10% down, 70% 1 week prior to shipment, 20% net 30. Contact factory for delivery. The prices quoted in this proposal are valid for thirty (30) days from the date listed above. The prices do not include any excise, sales, use or transportation tax imposed by any taxing authority.

Prices are USD - United States Dollars ($)

Note:
To attain both optimum safety and efficiency when using OMAX manufactured equipment, the buyer/user is urged to have its personnel follow all OMAX Documentation. OMAX Documentation encompasses the relevant aspects of operation, service or maintenance of any OMAX Corporation equipment, to permit safe and efficient operations of the subject OMAX equipment. Failure to follow such OMAX Documentation may, most importantly, result in unsafe operating conditions, and also less than optimal operation, from which OMAX Corporation and its authorized distributors and agents do disclaim liability.

Proposed By	Accepted By
Scott Grogan	Company: HTF Manufacturing
Title: _____	Name/Title: _____
Date: _____	Date: _____

All illustrations and specifications contained in this proposal are based on the latest product information available at the time of publication. OMAX Corporation reserves the right to make changes at any time, without notice, to equipment, specifications, options and accessories. Some images may be shown with optional equipment not included in this proposal.

Proposed Accessories

Proposed Accessories - Primary Bridge

Motorized Z-Axis
Model # 306137

The electrically operated OMAX Motorized Z-axis provides precise nozzle positioning. The powerful Motorized Z-Axis provides precision jet machining of pre-machined parts, such as die-stripper plates.

MAXJET 5i Nozzle .016"
Model # 306895-16

Warranted to last 500 hours (prorated for use), the MAXJET 5i combines OMAX precision with rugged durability and convenience. This one-piece integrated nozzle eliminates the need for rebuilding the nozzle assembly simply replace the whole assembly when needed.

Air and Water Conditioning Kit
Model # 303923

Developed to pre-filter and regulate the air and water entering a waterjet and it's accessories. Conditioned air and water provides the machine with the required quality and pressure necessary for consistent, reliable operation.

3 Ton Chiller 36,000 BTU (460V)
Model # 316257

For utmost efficiency and high performance constancy in your abrasive waterjet system, delivering uniform cool water to your pump is critical. The OMAX Chiller optimally supplies inlet water at a consistent temperature, which extends pump seal life for

Some images show optional equipment not included in this proposal

longer, more sustainable production. OMAX is keenly aware of the impact its systems have on the environment, so the OMAX Chiller uses R407c, an environmentally friendly refrigerant with zero ozone depletion potential. Using the 5 Ton Chiller or larger also allows for seamless interaction with the OMAX Water Recycling System to significantly reduce overall water consumption.

Bulk Abrasive Hopper 600 lb.
Model # 303093

Automatic pressurized bulk garnet feed system that eliminates the need for manually filling the smaller garnet feed hopper mounted above the cutting head. This comes standard with 55100 machines and larger, but you can add an additional unit if proposing a dual bridge, or multiple cutting head.

Pull-To-Open Valve Single Nozzle
Model # 314005-1

The Pull to Open Valve is designed for cutting and piercing brittle materials such as glass, quartz, graphite and more. This kit is used on a single nozzle set-up.

PTO Control Box
Model # 312794

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2. EnduroMAX® Direct Drive Pump Advantage

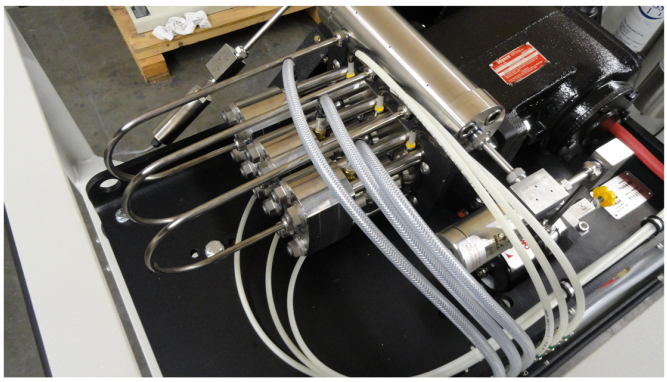
OMAX Corporation furthers its standing as the industry leader in direct drive waterjet pump technology with the development of its EnduroMAX Pump. The EnduroMAX Pump for OMAX JetMachining® Centers provides double the operating life and makes for faster part processing, lower operating costs, and easier maintenance.

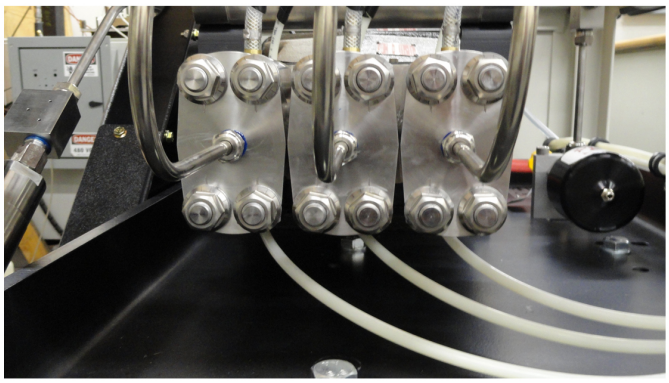
The EnduroMAX pump maximizes machine uptime with its 1,000-hour operating range between required pump rebuilds when run at 55,000 psi (3,800 bar). However, the new pump can also effortlessly run continuously at 60,000 psi (4,100 bar).

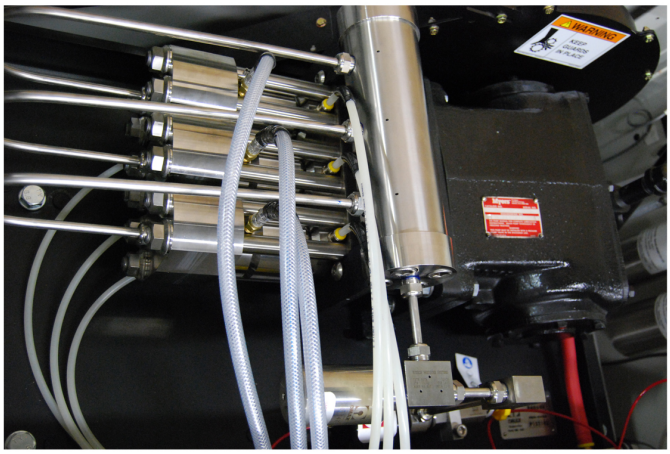
The EnduroMAX operates at 85% efficiency as opposed to the 60% to 70% range of intensifier pumps. The EnduroMAX also delivers more horsepower to the nozzle while using less electricity than intensifier pumps.

The combination of continuous 60,000 psi operation and 85% efficiency allows OMAX machines using the EnduroMAX to process parts faster. All models of EnduroMAX pumps deliver 60,000 psi and are offered in various horsepower ratings. The available models are the 3060 (30 hp), 4060 (40 hp), and 5060 (50 hp).

For ease of maintenance, the EnduroMAX design consists of independent pump cylinders, instead of a manifold-style wet-end assembly, allowing the individual cylinders to be rebuilt as opposed to the entire assembly. With the EnduroMAX, OMAX improved pump operating life through the design of critical ultra high-pressure (UHP) components.







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3. OMAX Intelli-MAX® Software - Free for life!

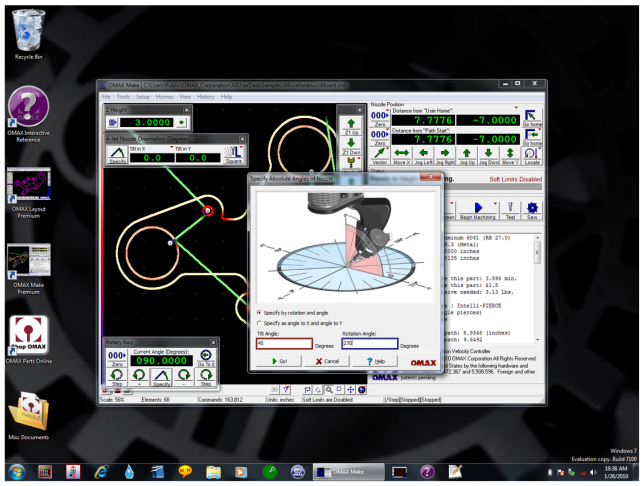
OMAX Intelli-MAX Software Suite makes it easy to create precision parts faster and at a lower cost. It speeds up cutting, increases precision, and lowers operating cost by automatically optimizing the tool path better than any other abrasive system.

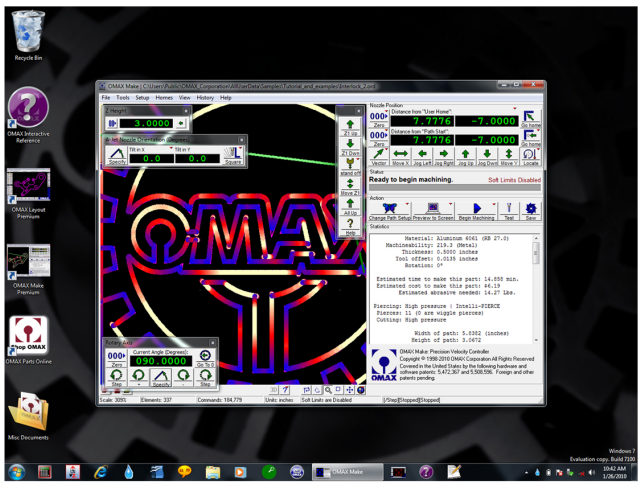
OMAX Intelli-MAX Software Suite includes Layout, a full-featured CAD package; Make, the state-of-the art controller software with various utilities for the advanced user; and the OIR (OMAX Interactive Reference), which contains everything you need to know about your OMAX Software.

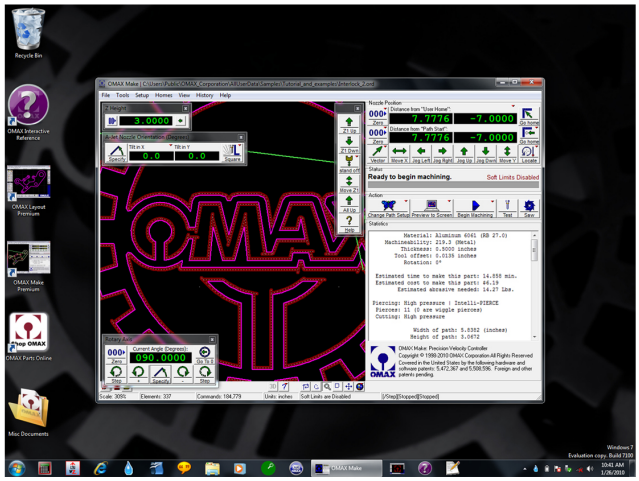
OMAX is constantly adding new features to its software and refining the complex models that predict the abrasivejet's behavior under different conditions.

All OMAX customers are entitled to free software upgrades that include these improvements, for as long as you they own their machine.

Our Guarantee: The OMAX Technology Guarantee entitles you, as the original owner, free OMAX software for the life of the machine. You can have as many seats of software as needed for off-line programming.







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4. Training Programs

Abrasive Waterjet training can lead to a higher return on your investment in the OMAX JetMachining Center. OMAX believes in and is committed to providing its owners and operators training opportunities through a variety of courses and tools to assure successful operations and lower operating costs. There are a variety of optional technical waterjet training programs that provide instruction on how to operate, maintain, and optimize your OMAX JetMachining Center.

Here is the overview of the types of training available:

Operator Training - Free for life*

The 5-day Operator Training program is designed to lead you step by step through the process of making parts from drawing to cutting. It gives you practical, hands-on experience in how to maintain your equipment following best practices that have been tried and true in the lab and in the field. OMAX provides you the information, practice, and resources to assist you in effectively operating and maintaining your equipment, and with tools to assist in communicating with OMAX on ordering parts or working with Customer Service. OMAX also offers this course with the A-Jet. Participants will learn how to use the OMAX Layout software to draw basic parts that contain bevels or counter- sinks; understand pathing best practices for parts containing tilt; use the OMAX 3D Path Editor utility to add tilt to the machine tool path; understand how to setup and square the A-Jet on the machine; and learn how to properly operate the A-Jet per best practices. Participants will also learn how to maintain the components of the A-Jet including how to rebuild the swivel assembly, replace the A-Jet nipple; rebuild the on/off valve; and replace the abrasive line.

Training courses are offered each month at the OMAX headquarters facility in Kent, Washington, located in close proximity to Seattle Tacoma airport. State of the art equipment and lab facilities are used for the training. Additional customer training classes may be offered based on customer demand. Each course is facilitated by an OMAX Technical Trainer using OMAX equipment and software.

Customer training classes are filled on a first-come, first-served basis. There is no fee for the training at OMAX and all training materials and supplies are included. OMAX provides a complimentary lunch each day of the training. Participants are responsible for other travel-related expenses including travel, lodging, and meals.

Operator Startup Training

This six-hour online webinar training program is designed to give your operators basic information to help get them up and running on the OMAX. During these three, 2-hour sessions, operators will receive information about the following:

» A brief overview of the OMAX equipment
» Terminology used in the abrasive jetmachining process
» How the machine works to cut a part
» The steps in making a part on the OMAX equipment
» How to get started with using the software
» Where to find and how to use the help files
» Best practices in tool pathing
» A review of the equipment start-up and shut-down procedures

Customized Training

OMAX also offers on site and online training sessions customized to meet customer needs. On site courses and online instruction over 2 hours are fee-based.

* Free for qualified OMAX customers. OMAX equipment owners that purchased a used machine must have an OMAX Gold Membership to qualify for the free training for life.

5. Installation Support

OMAX will provide the following services during and after installation of the JetMachining Center:

» An OMAX Field Technician will review the installation as necessary to make sure all electrical, plumbing, and other connections are correctly and securely made
» Customer must provide helper for complete installation
» The Field Technician will level and align the machining table
» The Field Technician will do the initial startup of the OMAX and make sure it is working properly
» OMAX will provide three days of on-site installation assistance and training to customer personnel in machine operation and maintenance. Training will include instruction on using the software and proper operation of the JetMachining Center
» Additional training may be required for advanced software & hardware features and functionality. This training can be conducted on-site or at the OMAX factory (see Section 5 for additional training services).

The Basic Operator Training requires operators must have the following fundamental skills prior to OMAX training:

» Basic knowledge of Windows Operating System
» Directories and folders
» Copying and transferring files
» Minimizing screens
» Basic mechanical skills
» Basic CAD operation
» Ability to lift 75 lbs

6. Two Year Limited Warranty

OMAX Corporation ("OMAX") warrants its OMAX® JetMachining Center and all components of its manufacture (the "Products"), to be free of defects in workmanship and material for a period of two years from the date of shipment or 4,000 operational hours, whichever comes first. This warranty covers all machinery and electronics equally, however, it does not include wear parts and consumable parts such as seals, valves, abrasive-jet nozzles, mixing tubes, orifices, high-pressure hoses or high-pressure pump components. Further, Buyer is strongly cautioned that poor water quality and high inlet water temperature will significantly affect operational life of Products. This warranty specifically excludes coverage of any claims for the effects of corrosion, erosion, adverse water conditions and temperature, normal wear and tear, or component failures caused by (i) accident, (ii) negligence, misuse, improper installation or abuse, or (iii) unauthorized repair or alteration, or failure to maintain the OMAX JetMachining Center that contains the affected components in accordance with the technical bulletins and specifications provided by the OMAX. All labor is the responsibility and expense of the Buyer. The liability of OMAX under this warranty is limited, at OMAX's exclusive option, solely to repair or replacement with equivalent items or refund of the purchase price upon return of the subject nonconforming Product. Replacement parts may be either new or reconditioned, at OMAX's option. Freight charges, brokerage charges, duties and taxes for return of parts and for parts or components provided by OMAX under this warranty, will be the responsibility of the Buyer. This warranty is conditioned upon (a) OMAX being notified in writing by Buyer within 30 days after discovery of defects; (b) the return of presumed defective components to OMAX within 30 days of notification, transportation charges, brokerage charges, duties and taxes prepaid by Buyer, and (c) OMAX's examination of such components disclosing to its satisfaction that such defects were not caused by negligence, misuse, improper maintenance, abuse, improper installation, accident, or unauthorized repair or alteration. Unauthorized repair or alteration shall specifically include any use of third party replacement parts which are not OMAX manufactured or supplied Products. Buyer is strongly cautioned that use of such unauthorized third party components will not be covered by any warranty whatsoever from OMAX and that further, OMAX may deny all other warranty coverage, if OMAX concludes, at its sole discretion, that failure of a Product claimed under this warranty had as a proximate cause the Buyer's use of other unauthorized replacement components which had the effect of causing the failure in the Product claimed under warranty. Accessories or equipment manufactured by others but furnished by OMAX shall carry the warranty conveyed by the manufacturer to OMAX, which may be passed on to the Buyer. The original warranty period of any component that has been repaired or replaced by OMAX shall not thereby be extended.

OMAX will indemnify Buyer for any damages and costs finally awarded against Buyer on the grounds that a Product, (but not any items manufactured by third parties), infringe any valid United States patents or copyrights of any third party, provided that Buyer notifies OMAX in writing of any such claim within ten days after learning thereof and that Buyer gives OMAX full control over the defense and settlement of the claim, and fully cooperates with OMAX with respect thereto. If any such claim is brought or appears to OMAX likely to be brought, OMAX may at its option replace or modify the Products to make them non-infringing, or refund to Buyer, upon return of the Products at issue, the price paid therefore, less twenty percent for each year which has passed since the date of delivery hereunder. Buyer shall discontinue all use of any portion of the Products that has been replaced or modified or for which a refund has been tendered. OMAX's obligations hereunder shall not apply to any claim based on: i) OMAX having followed Buyer's specification or requests; ii) the use of Products to practice a process not recommended by OMAX, or iii) in conjunction with items or modifications not supplied by OMAX, and the Buyer shall similarly indemnify OMAX with respect to such claims.

THE FOREGOING STATES OMAX'S SOLE RESPONSIBILITY AND BUYER'S SOLE REMEDY FOR ANY INFRINGEMENTS OF PROPRIETARY RIGHTS.

OMAX MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, OF ANY KIND, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR USE OR THOSE ARISING FROM COURSE OF PERFORMANCE, COURSE OF DEALING OR USAGE OF TRADE. IN NO EVENT SHALL OMAX BE LIABLE TO BUYER OR TO ANY THIRD PARTY FOR INDIRECT, SPECIAL, INCIDENTAL, CONSEQUENTIAL OR PUNITIVE DAMAGES INCLUDING WITHOUT LIMITATION, LOSS OF USE, DELAYS OR LOST PROFITS OR SAVINGS RELATED TO THE PRODUCTS, THE USE OR LOSS OF USE THEREOF, THE PERFORMANCE OR BREACH OF THIS AGREEMENT BY OMAX, OR OTHERWISE, EVEN IF OMAX IS AWARE OF THE POSSIBILITY OF SUCH DAMAGES, AND EVEN IF THE EXCLUSIVE REMEDIES STATED HEREIN FAIL OF THEIR ESSENTIAL PURPOSE. BUYER'S RIGHTS AS STATED HEREIN ARE ITS EXCLUSIVE REMEDIES.

Buyer agrees that regardless of the form or action, whether in contract or tort, including negligence, OMAX's liability for damages hereunder or otherwise with respect to the Products or their use shall not exceed the total sum paid by Buyer to OMAX for the Products causing such damages.

(R/09/21/10)

7. Requirements & Recommendations

7.1 Water Quality is Important

The quality and temperature of the water used by our OMAX® JetMachining Centers plays a very important role in the life of certain UHP components, such as: the orifice, on/off valves, seals, check valves & plungers. In order to perform high quality cutting, the orifice needs to be able to create a high quality jet that is directed through the center of the mixing tube. In the orifice of the nozzle, water is accelerated to speeds between Mach 2 and 3. Solids in the water can create a multitude of problems for the orifice. These solids can be classified into two groups, dissolved solids and suspended solids. Particles suspended in the water impact the edge of the orifice and can chip it. This results in poor jet quality and subsequently poor cutting capability and lowered mixing tube life. Solids that are dissolved can precipitate out of solution onto the entrance of the orifice. Over time a ring of the precipitate builds up around the orifice. Eventually, a portion of this ring breaks and damages the orifice or disrupts jet quality. The time it takes for this to occur can vary between a few hours to hundreds of hours. Maintaining a constant cool water flow into your pump helps you to achieve optimal performance and highest seal life. We recommend to keep the incoming water temperature from the reservoir between 45 and 65 degree Fahrenheit (8 to 18 degree Celsius). If the incoming water temperature exceeds 70 degree Fahrenheit (21 degree Celsius) at any given time a sufficiently sized chiller will be required. As part of the installation planning, OMAX will arrange for a water sample analysis. This will be done by an independent commercial water testing company, who can determine the suitability of the water for meeting the recommended maximum mineral levels. If the water quality falls outside these levels, we can recommend appropriate solutions. Water temperature considerations will also be discussed.

7.2 Recommended Water Quality Indicator Levels

- » Calcium 17 ppm
- » Chloride 100 ppm
- » Iron 0.3 ppm
- » Magnesium 6 ppm
- » Manganese 0.05
- » Sulfate (mg/l) 200 ppm
- » pH 6.5 to 8.5
- » Total Silicon (Silica) 10 ppm
- » Total Dissolved Solids 250 ppm

The user is responsible for providing suitable water to the OMAX System, as specifications may be modified from time-to-time, to keep the OMAX Limited Warranty in affect.

- » Supply Water Drinking quality water or treated as required must maintain 30 psi in line while flowing 2 GPM (7.6 l/m) at 60 degree F(16 degree C) or lower
- » Drain Max. height 24" above the floor. Sized for five GPM
- » Fittings All low pressure fittings are standard garden hose
- » High Pressure Uses Std. 3/8" coned tubing (supplied)

Chiller Guidelines

» Inlet Water Supply Temperature to OMAX Pump Chiller Required
» Less than 65 degree F (18 degree C)
» Between 65 degree F and 75 degree F (18 degree C and 24 degree C) 12,000 BTU/HR
» Over 75 degree F (24 degree C) 24,000 BTU/HR
» All Closed Loop Systems 24,000 BTU/HR
» Note: It is the inlet water supply temperature that determines which chiller is required.
» Chillers are 460V, 3 PH

7.3 Performance Requirements

The OMAX JetMachining Center will provide capability and ease of use at very high levels of productivity and quality. To assure the high productivity and quality levels are maintained, OMAX recommends the following to all customers:

» Perform specified preventative maintenance as scheduled
» Maintain an adequate inventory of spare nozzle and pump parts
» Use only high quality garnet, sifted through 80 mesh screens or finer with no grit particles larger than .020"in size
» Equipment is operated by a trained and competent operator