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TECHNI Waterjet[™]

Waterjet Cutting Systems

RELIABLE VERSATILE RELIABLE TYPERSATILE PROJECTION OF THE PROJECTI

Techni Waterjet is committed to manufacturing waterjet cutting machines that are easy to operate, reliable, accurate and will last beyond our customers' expectations.

Our machines incorporate unique features that have been developed and implemented through our commitment to Research & Development.

Features such as:

We were the first company to incorporate a Crash Sensing Break Away Head to a production abrasive waterjet cutting machine, (some competitors now offer it as an option)

we incorporate a unique drive
system which utilizes a highly-tensioned, precision
stainless steel band, which allows us to achieve
very fast cutting and air speeds (more than twice
as fast as other major brands), while maintaining
extremely high tolerances, and being able to
withstand the very harsh waterjet environment in
the case of water and abrasive coming into contact
with the drive system.

We developed the patented Tech-Sense™
monitoring system that notifies an operator if
the cutting head isn't working efficiently. When
connected with the latest mobile phone technology,
you can remotely communicate with your machine
- ideal for "lights out" operation.

We incorporate a linear scale feedback on our premium product range "Techjet-X2®". The linear scales give positional feedback to .001mm (0.00004"), making them the most accurate waterjet machines within their price range by far.

The patented EZY-Load series of material handling has revolutionized the Glass and Stone industries.

The EZY-Loader allows for rapid loading/unloading of these brittle materials with almost no breakage.

Techni Waterjet is the only waterjet manufacturer to offer the patented "MPG" technology which allows the

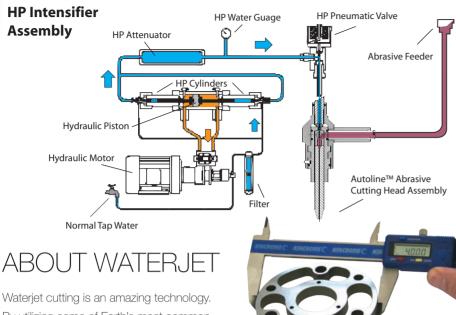
operator to automatically step through the program

- forwards and reverse.

Techni Waterjet is committed to the continuing development of our waterjet cutting machines to ensure that we remain on the leading edge of this remarkable technology and dynamic industry.

Says Darren Reukers, Marketing Director

POWER



Waterjet cutting is an amazing technology. By utilizing some of Earth's most common resources, water and stone, we are able to cut almost any material in thicknesses up to

8" (200mm). Modern developments in waterjet cutting technology, software, and the machines that drive them has made waterjet cutting the fastest growing machine tool industry on Earth. This is largely due to the fact that waterjet is by far the most versatile cutting process, and with the latest developments has now become very economical. Add to this its simplicity, reliability, and environmental credentials, it's no wonder waterjet is rapidly becoming the cutting process of choice throughout most industries.

BENEFITS OF WATERJET

Versatile – Waterjet is capable of cutting "any" material including; Stainless Steel, Aluminum, Glass, Marble, Plastic, Rubber, Cork and Wood, just to name a few.

Powerful – Capable of cutting up to 200mm (8") thick titanium or at least 6" thick stainless steel.

Accurate - Finished parts to 0.05mm (.002") tolerances.

No Heat Affected Zone – Resulting in less warping of components, increased cutter life on secondary operations and no grinding for weld preparation.

Flexible – Any two-dimensional shape can be cut by a simple program done on the machine CAD system or from any DXF file either networked, downloaded through the inbuilt modem, or from a USB disk or CD.

Clean – Waterjet produces no smoke or toxic gases because there is no burning process.

Fast – Rapid set up times, no tooling and reduced need for secondary operations due to its accuracy and quality of the cut edge.

mission statement

To be a world leader in the manufacture and development of Waterjet Cutting Technology.

To be a team of dedicated people working in a safe and friendly environment, always trying to improve ourselves and be dedicated to total customer satisfaction.

Introduction

Waterjet is a "Cold Cutting" process that produces no heat affected areas or burnt edges.

GLASS

Glass cutting is an ideal application for waterjet. Without any tooling or set up changes you can go from cutting the most delicate lead light glass, through to the strongest 100mm (4") thick laminated bullet resistant glass. The very fine cutting stream (approx. 1mm or 0.040") enables cutting of almost any shape, no matter how fine or intricate, with almost no load from the cutting process being applied to the glass. As long as you can handle it, wateriet can cut it.

Waterjet cutting has revolutionized how we process our flat glass. No longer do we tie up our expensive, and slow CNC machines with work that can be done much faster on the waterjet.

Says Dennis Loudoun of Bevellite Glass in Sydney.

STONE

Waterjet Cutting of all natural and man-made stones is simple, fast and highly effective. The very small stream size (approximately 0.040" or 1mm) allows for intricate patterns, while the extremely high pressure (up to 60,000 psi) ensures thick materials (up to 6" thick) can be cut. Softec™ Software enables you to go from design to finished part in minutes with very little training and experience.

Since installing our Waterjet Cutting Machine we have dramatically improved our processing time, while reducing our rejects and making the workshop so much cleaner and quieter. I don't know how we got by without it.

Says Stewart Macciolli of Scelta Marble in Melbourne.

GASKETS

The versatility of Waterjet Cutting makes it ideal for the manufacture of gaskets. Capable of cutting anything from hardened spring steels, to non-ferrous materials such as brass and copper to delicate graphite composites and softer materials like rubber and paper. It is ideal for low volume, "one-offs" and prototypes.

Our waterjets have enabled us to significantly reduce our production and delivery time, while also making savings on materials and producing gaskets of the highest quality.

Says David Nordeen, Pipeline Seal and Insulators, Texas and London UK.





Waterjet is Verstile,
Powerful & Accurate.

Due to its very small stream size (approximately 1mm or 0.040") even the most intricate patterns can be cut out. With its extremely high pressure (up to 60,000 psi) materials up to 6" thick are easily cut.

Aluminium
Glass
Marble
Plastic
Rubber
Cork
Wood
Exotic Metals
Foam
Granite
Copper
Stone
and more...

Stainless Steel

Applications

Techjet-X2® "Premium Series"

The Techjet-X2® series is the latest in our evolution of innovative products to create a precision, easy-to-operate, safe and highly reliable Waterjet Cutting Machine. The Techjet-X2® is built to the highest tolerances and incorporates Linear Scale Feedback to ensure the highest accuracy of motion in the industry. By mapping the entire

cutting area with a laser-calibrated digital encoder, the motion system can deliver positional accuracy of 0.0005" (0.01mm). Combining this accuracy with high cutting speeds (up to 1000ipm or 25m/min) and exclusive design features like:



TJ3000-X2



- 360° fully enclosed bellows
- Precision Stainless Steel Band Drive
- Crash Sensing Breakaway Cutting Head
- Water level raise/lower for submerged cutting
- Tech-Sense™ cutting head monitoring system



Intec® "Value Series"

The Intec® series offers the greatest value for money of any waterjet cutting machine in the industry. It incorporates many of the innovative and practical

designs of the Techjet® series, while offering a system that will meet the requirements of most applications, and stay within a budget. This series of machines are particularly well-suited for industries with slightly lower tolerances such as metal fabricating; marble and granite and glass.

Intec® "Light Series"

The Intec light series was developed to suit industries with lighter cutting needs. The machine is simple to load and operate, making it ideal in a production or semi-production environment. It is perfect for industries such as Gaskets, Sheet Metal, Tile & Stone, Sign Makers, Plastics, Foam & Rubber, Insulation, and Ducted Pipe System manufacturers.







Customized Machines

Techni Waterjet's roots were founded in the design and development of customized machinery. So if your waterjet application doesn't suit a standard "off the shelf" solution, we can customize a solution for you. Through our experience in automation, robotics and material handling we are able to design you a machine that will meet your exact demands and is designed to be suitable in the harsh waterjet environment.

SOFTEC™ Software

Softec™ Waterjet Cutting Software was developed with two very clear goals mind:

- To produce waterjet cut parts at the minimum cost with the greatest accuracy
- To have a simple and intuitive interface with the operator

The result is a comprehensive "All-In-One" Windows based software that is specifically designed for waterjet cutting, which maximizes productivity and anyone with basic PC experience can learn to operate quickly and easily. Softec™ incorporates many unique features, including: DXF Importation, Focusing Tube Wear Compensation, Off-site Notification, Multiple Origin Points, Maintenance Counters, Auto Mating Part Clearance, Standard Object Library, Re-start Cutting from Anywhere, and many, many more.

At the heart of Softec™ is "Tru-Cut Technology", a highly sophisticated algorithms database that determines the optimum cutting speeds and machine ramping characteristics for any material, thickness or profile. This ensures the fastest overall cutting speeds while achieving the greatest accuracy for a desired surface finish.



Techni Waterjet
invests heavily in
Research and
Development to
produce a range of
products which is
unique in its ability
to deliver Practical
and Affordable
Solutions, to
everyday
problems
encountered
by Waterjet
customers.

SoftecTM software runs on the very latest in controller technology, the AT2010. Developed by ANCA, one of the pioneers in servo control technology, and a leader in the very demanding "CNC Tool and Cutter Grinder" market, the AT2010 delivers maximum acceleration with ultra high speed feedback to ensure minimum processing time with maximum accuracy and best surface finish. It also incorporates "patented" technology such as the MPG wheel which allows the operator to take



the machine along the cutting path, forwards or backwards to any point, simply by winding the hand wheel.

Product Range

