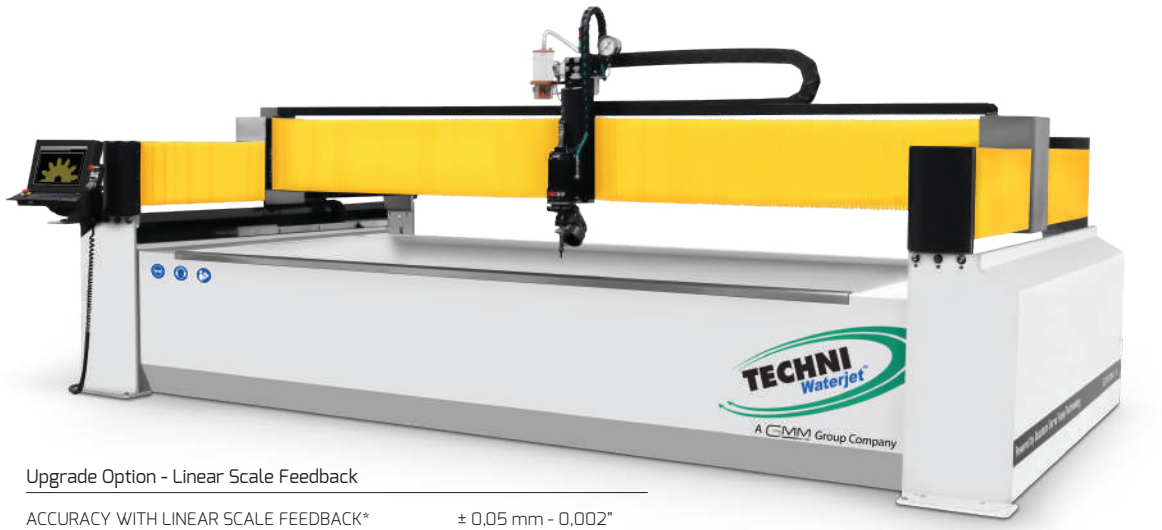
TECHNI Waterjet™

A GMM Group Company

CNC TECHNOLOGY



Upgrade Option - Linear Scale Feedback

ACCURACY WITH LINEAR SCALE FEEDBACK*	± 0,05 mm - 0,002"
REPEATAB. WITH LINEAR SCALE FEEDBACK*	± 0,025 mm - 0,001"

TECHNICAL DATA

MODULE	i1020-G2
MACHINE SIZE (L x W x H) Does not include pumps or control cabinet	8000 x 4200 x 2000 mm 315" x 165,3" x 78,7"
MACHINE WEIGHT	7170 kg - 15800 lb
MACHINE WEIGHT (with water)	21920 kg - 48330 lb
CUTTING TABLE DIMENSION	3200 x 6250 mm 126" x 246"
CUTTING AREA (without PAC60)	3050 x 6100 mm 120" x 240"
BEVEL CUTTING AREA (with PAC60)	2730 x 5800 mm 107,5" x 228,3"
CUTTING AREA MAXIMIZED (with PAC60)	3030 x 6100 mm 119,2" x 240"
ACCURACY OF MOTION*	± 0,15 mm/m - 0,006"
REPEATABILITY OF MOTION*	± 0,05 mm - 0,002"
MAX. AIR SPEED	17,5 m/min - 700 in/min
MAX. CUTTING SPEED	17,5 m/min - 700 in/min
MAX. MATERIAL THICKNESS (with PAC60)	200 mm - 8" (200 mm - 8")

IMPORTANT NOTICE: the technical data is not binding and may be changed by Techni Waterjet without prior notice. All the above accuracy tolerances are correct at the calibration temperature of 20° ± 1° C.

*Linear/Axis/Meter

Machines displayed in the present catalogue are without safety barriers in order to ensure the perfect vision of all the details of the machine.

Intec-G2® 1020

HIGH-PRESSURE WATERJET SYSTEMS

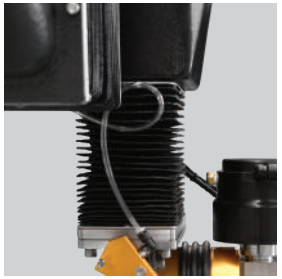
STANDARD FEATURES

BREAK AWAY HEAD

When the cutting head inadvertently crashes into a clamp or fixture, or hits the edge of a work piece or an upturned part, the Break Away Head will detect the crash and automatically stop the machine.

Not available with PAC60.

SERVO Z AXIS

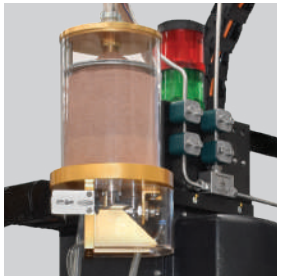


Programmable Z axis with auto height position recall, laser terrain mapping and edge location optics.

WATER RAISE AND LOWER

Automatic water Raise/Lower at the push of a button for Submerged Cutting; our tanks include air-tight welds of an air chamber which uses regular shop air pressure.

TECH-SENSE



Tech-Sense Monitoring System provides the ability to run a night shift without the need for an attending operator. Should the cutting be disrupted, e.g. blocked nozzle, the machine will pause the program and send a text message to your cell phone.

ABRASIVE PUMP AND HOPPER

Clear pump chamber to ensure abrasive is present and flowing correctly. Here is where the abrasive is pressurized, allowing the lid to be opened at any time.

REMOTE CONTROL PENDANT

The MPG allows to manually wind forward or backward through a cutting path. This enables the operator to find the exact point along a cutting path from which to re-start cutting after a stoppage, or to accurately locate a pre-cut part.

ELECTRIC SERVO PUMP - Patented

Quantum NXT ™

The Quantum NXT ™ pump incorporates core "direct servo" technology that was first applied by NASA for the Space Shuttle Program.

BENEFITS

- 60% more efficient than hydraulic intensifier
- Designed for quick seal service
- Virtually silent with noise level of 70 dbA

VP 15/52

MAX OUTPUT PRESSURE	3585 bar (52,000 psi)
MAX OUTPUT VOLUME	1.9 l/min (0.5 gpm)

Output Volume Based on 480 VAC Electrical Supply

ESP 37/66

MAX OUTPUT PRESSURE	4550 bar (66,000 psi)
MAX OUTPUT VOLUME	3.8 l/min (1.0 gpm)

Output Volume Based on 480 VAC Electrical Supply

PAC60 - Patented

The PAC 60™ operating software incorporates the True Cut® algorithms data base, developed to determine the predicted taper at a given surface finish. This taper is then compensated for when cutting the part, anywhere from 0 to 60 degrees, giving you "Precision Angle Control" of any part that can be produced on an X-Y abrasive waterjet cutting machine.

- Cutting parts with a true angle up to +/- 60 degrees with continuous rotation.
- Patented Technology to reduce cutting time significantly.
- Complex 5-Axis Programming made easy and quick to learn.
- Surface Scanner to maintain constant distance between nozzle and workpiece when cutting uneven slabs.
- Positioning accuracy to ± 0.1 degrees.
- Multi-pass cutting for edges with different angle.
- Taper cutting automatic compensation.