

Intec-G2® Series



POWER & CONTROL



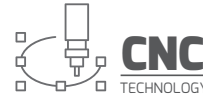
EXPERIENCE & QUALITY



TECHNOLOGY & INNOVATION



A GMM Group Company



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	i510-G2
MACHINE SIZE (L x W x H) Does not include pumps or control cabinet	4200 x 2350 x 2050 mm 165" x 92" x 80,7"
MACHINE WEIGHT	2010 kg - 4431 lb
MACHINE WEIGHT (with water)	6800 kg - 15000 lb
CUTTING TABLE DIMENSION	1550 x 3125 mm 61" x 123"
CUTTING AREA (without PAC60)	1525 x 3050 mm 60" x 120"
BEVEL CUTTING AREA (with PAC60)	1120 x 2700 mm 44" x 106"
CUTTING AREA MAXIMIZED (with PAC60)	1460 x 3005 mm 57,4" x 118"
ACCURACY OF MOTION*	± 0,12 mm - 0,005"
REPEATABILITY OF MOTION*	± 0,025 mm - 0,001"
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" (115 mm - 4,5")

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® 510

HIGH-PRESSURE WATERJET SYSTEMS

## STANDARD FEATURES

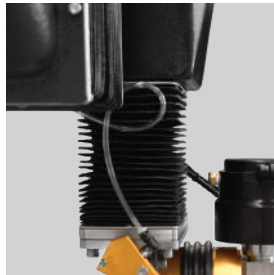
### BREAK AWAY HEAD



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.



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

### BENEFITS

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



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.