TECHNICAL DATA

**MODULE**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>i510-G2</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MACHINE SIZE (L x W x H)</strong></td>
<td>4200 x 2350 x 2050 mm</td>
</tr>
<tr>
<td>Does not include pumps or control cabinet</td>
<td></td>
</tr>
<tr>
<td><strong>MAX. AIR SPEED</strong></td>
<td>17.5 m/min - 700 in/min</td>
</tr>
<tr>
<td><strong>MAX. CUTTING SPEED</strong></td>
<td>17.5 m/min - 700 in/min</td>
</tr>
<tr>
<td><strong>MAX. MATERIAL THICKNESS</strong></td>
<td>200 mm - 8&quot; (115 mm - 4.5&quot;)</td>
</tr>
<tr>
<td><strong>MACHINE WEIGHT</strong></td>
<td>2010 kg - 4431 lb</td>
</tr>
<tr>
<td><strong>MACHINE WEIGHT (with water)</strong></td>
<td>6800 kg - 15000 lb</td>
</tr>
<tr>
<td><strong>CUTTING TABLE DIMENSION</strong></td>
<td>1550 x 3125 mm, 61&quot; x 121&quot;</td>
</tr>
<tr>
<td><strong>CUTTING AREA (without PAC60)</strong></td>
<td>1525 x 3050 mm, 60&quot; x 120&quot;</td>
</tr>
<tr>
<td><strong>BEVEL CUTTING AREA (with PAC60)</strong></td>
<td>1120 x 2700 mm, 44&quot; x 106&quot;</td>
</tr>
<tr>
<td><strong>CUTTING AREA MAXIMIZED (with PAC60)</strong></td>
<td>1460 x 3005 mm, 57.4&quot; x 118&quot;</td>
</tr>
<tr>
<td><strong>ACCURACY OF MOTION</strong></td>
<td>± 0.12 mm - 0.005&quot;</td>
</tr>
<tr>
<td><strong>REPEATABILITY OF MOTION</strong></td>
<td>± 0.025 mm - 0.001&quot;</td>
</tr>
</tbody>
</table>

Upgrade Option - Linear Scale Feedback

- **ACCUACT WITH LINEAR SCALE FEEDBACK** ± 0.05 mm - 0.002"
- **REPEATABL. WITH LINEAR SCALE FEEDBACK** ± 0.025 mm - 0.001"

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

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

BREAK AWAY HEAD
Should the cutting head inadvertently crash into a clamp/fixture, hit 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
Servo Z axis with auto height position recall, laser terrain mapping (optional) and edge location optics.

WATER RAISE AND LOWER
Automatic water Raise/Lower at the push of a button for quieter, cleaner and safer submerged cutting; our tanks include air-tight welds of an air chamber which uses regular shop air pressure.

VAF AND TECH-SENSE™
Tech-Sense™ Monitoring System enables true unattended operations. Should the cutting be disrupted the machine will pause the program which can be easily resumed. With our variable feeder, garnet supply is adjusted by the software.

ABRASIVE PUMP AND HOPPER
The hopper includes a 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. Standard 500 Kg / Optional 2000 Kg

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 simply locate a pre-cut part.

ELECTRIC SERVO PUMP - Patented

VP 15/52
- MAX OUTPUT PRESSURE: 3585 bar (52,000 psi)
- MAX OUTPUT VOLUME: 1.9 U/min (0.5 gpm)
Output Volume Based on 480 VAC Electrical Supply

ESP 37/66
- MAX OUTPUT PRESSURE: 4950 bar (66,000 psi)
- MAX OUTPUT VOLUME: 3.8 U/min (1.0 gpm)
Output Volume Based on 480 VAC Electrical Supply

PAC60™ – Patented
The PAC60™ operating software incorporates the True Cut algorithms database, 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 angles.
- Taper cutting automatic compensation.

Full range of options available on the website

www.techniwaterjet.com - sales@techniwaterjet.com