
# PAC60

**PATENTED DIRECT DRIVE TECHNOLOGY**

## *60 Degree Bevelling cutting head with Continuous Rotation*

*By incorporating patented technology, the PAC60™ is capable of producing parts with a true angle up to ±60 degree with continuous rotation. That means, regardless of the geometry of the part to be cut, the PAC 60 will reproduce it without having to reposition the cutting head, saving time and elevating quality.*


### DIRECT DRIVE TECHNOLOGY

Direct Drive DC Servo Motor Technology for the 4th & 5th axis, allows the PAC60™ for positioning accuracy to ± 0.1 degrees with rapid acceleration and positioning speeds.

This makes **PAC 60™ the fastest, most accurate 5 axis waterjet cutting head available in abrasive waterjet cutting.**

### *Benefits*

- ☑ Continuous Rotation
- ☑ True angle up to ±60 degree
- ☑ Multi-Pass Cutting
- ☑ Terrain Mapping
- ☑ Extremely Accurate

### CONSTANT STAND OFF

**The PAC60™ can be paired with optional Touch Probe height detection to set a precise stand-off** before piercing, or to predetermine the flatness of the material and make compensations in the "Z" height, to maintain an accurate stand-off while cutting.

**An optional Laser Sensor is also available to perform Precision Terrain Mapping on the surface of the material.** This information is used to maintain an accurate stand-off distance between the nozzle and the work piece, resulting in more accurate parts than any other 5 axis head on the market.

### REDUCED TAPER

The PAC60™ operating software incorporates TruCut™ algorithms data base, developed to determine the correct cutting speed to produce a given surface finish in any material of any thickness automatically.
When TruCut® is combined with the Precision Angle Control feature on the PAC60™ bevel cutting head, a finished part will be produced with the desired edge angle from +60 to -60 degrees.

This means that the taper typically produced when waterjet cutting is effectively eliminated, giving you "Precision Angle Control" of any part that can be produced on an abrasive X-Y waterjet cutting machine.

# Specifications

The PAC option can be added to any of the products in our Intec™G2 series.
The addition of the PAC will change the specifications as noted below.

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TECHNI Waterjet™
A GMM Group Company

| Intec™G2 | | WATERJET MODULE | | | | | |
|---|---|---|---|---|---|---|---|
| | | i35-G2 | i510-G2 | i613-G2 | i713-G2 | i815-G2 | i1020-G2 |
| SPECIFICATIONS | **Cutting Area X, Y (PAC Locked)** | 735 x 1465mm<br>28,9" x 57,6" | 1460 x 3005mm<br>57,4" x 118,3" | 1700 x 3700mm<br>66,9" x 145,7" | 1900 x 4000mm<br>74,8" x 157,4" | 2350 x 4750mm<br>92,5" x 187" | 3030 x 6100mm<br>119,25" x 240" |
| | **Cutting Area X, Y (PAC Active)** | 560 x 1170mm<br>22" x 46" | 1120 x 2700mm<br>44" x 106" | 1700 x 3700mm<br>66,9" x 145,7" | 1600 x 3650mm<br>63" x 143,7" | 2050 x 4450mm<br>80,7" x 175,2" | 2730 x 5800mm<br>107,5" x 228,3" |
| | **Accuracy of Motion (linear X, Y, Z)**<br>*w/ Linear Scale Feedback* | 0,15mm - 0,006"<br>0,075mm - 0,003" | 0,15mm - 0,006"<br>0,075mm - 0,003" | 0,15mm - 0,006"<br>0.075mm - 0.003" | 0,15mm - 0,006"<br>0.075mm - 0.003" | 0,15mm - 0,006"<br>0.075mm - 0.003" | 0,15mm - 0,006"<br>0.075mm - 0.003" |
| | **Accuracy of Motion (Rotary B or C)** | ±0.1deg | ±0.1deg | ±0.1deg | ±0.1deg | ±0.1deg | ±0.1deg |
| | **Max. Rotational Speed (C axis)** | 540º/sec | 540º/sec | 360º/sec | 360º/sec | 360º/sec | 360º/sec |
| | **Max. Cutting Speed***<br>*w/ Linear Scale Feedback* | 17.5m/min - 700"/min<br>12.5m/min - 500"/min | 17.5m/min - 700"/min<br>12.5m/min - 500"/min | 17.5m/min - 700"/min<br>12.5m/min - 500"/min | 17.5m/min - 700"/min<br>12.5m/min - 500"/min | 17.5m/min - 700"/min<br>12.5m/min - 500"/min | 17.5m/min - 700"/min<br>12.5m/min - 500"/min |
| | **Max. Rapid Speed**<br>*w/ Linear Scale Feedback* | 17.5m/min - 700"/min<br>17.5m/min - 700"/min | 17.5m/min - 700"/min<br>17.5m/min - 700"/min | 17.5m/min - 700"/min<br>17.5m/min - 700"/min | 17.5m/min - 700"/min<br>17.5m/min - 700"/min | 17.5m/min - 700"/min<br>12.5m/min - 500"/min | 17.5m/min - 700"/min<br>12.5m/min - 500"/min |
| | **Acceleration Rate**<br>*w/ Linear Scale Feedback* | 400mm/sec² - 16"/sec²<br>250mm/sec² - 10"/sec² | 400mm/sec² - 16"/sec²<br>250mm/sec² - 10"/sec² | 300mm/sec² - 12"/sec²<br>150mm/sec² - 6"/sec² | 300mm/sec² - 12"/sec²<br>150mm/sec² - 6"/sec² | 300mm/sec² - 12"/sec²<br>150mm/sec² - 6"/sec² | 300mm/sec² - 12"/sec²<br>150mm/sec² - 6"/sec² |

* Max. cutting speeds around tight radii and small circles will dynamically alter as required to produce high quality parts within specified tolerances.

Specifications are subject to change.