



PAC60

PATENTED DIRECT DRIVE TECHNOLOGY

60 Degree Beveling cutting head with Continuous Rotation

By incorporating patented technology, the PAC 60™ 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 PAC 60™ 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.

CONSTANT STAND OFF

The PAC 60™ 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 PAC 60™ 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.



Benefits

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

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.



Intec-G2®		WATERJET MODULE					
		i35	i510	i613	i713	i1015	i1020
SPECIFICATIONS	Cutting Area X, Y (PAC Locked)	735 x 1465mm 28,9" x 57,6"	1435 x 3005mm 56,5" x 118"	1700 x 3700mm 66,9" x 145,7"	1900 x 4000mm 74,8" x 157,4"	3030 x 4635mm 119,25" x 182,4"	3030 x 6100mm 119,25" x 240"
	Cutting Area X, Y (PAC Active)	560 x 1170mm 22" x 46"	1160 x 2720mm 45,5" x 107"	1700 x 3700mm 66,9" x 145,7"	1600 x 3650mm 63" x 143,7"	2730 x 4325mm 107,5" x 170,2"	2730 x 5800mm 107,5" x 228,3"
	Accuracy of Motion (linear X, Y, Z)	0,15mm - 0,006"	0,15mm - 0,006"	0,15mm - 0,006"	0,15mm - 0,006"	0,15mm - 0,006"	0,15mm - 0,006"
	<i>w/ Techjet upgrade</i>	0,075mm - 0,003"	0,075mm - 0,003"	0,075mm - 0,003"	0,075mm - 0,003"	0,075mm - 0,003"	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)	540°/sec	540°/sec	360°/sec	360°/sec	360°/sec	360°/sec
	Max. Cutting Speed*	17.5m/min - 700"/min	17.5m/min - 700"/min	17.5m/min - 700"/min	17.5m/min - 700"/min	17.5m/min - 700"/min	17.5m/min - 700"/min
	<i>w/ Techjet upgrade</i>	12.5m/min - 500"/min	12.5m/min - 500"/min	12.5m/min - 500"/min	12.5m/min - 500"/min	12.5m/min - 500"/min	12.5m/min - 500"/min
Max. Rapid Speed	17.5m/min - 700"/min	17.5m/min - 700"/min	17.5m/min - 700"/min	17.5m/min - 700"/min	17.5m/min - 700"/min	17.5m/min - 700"/min	
<i>w/ Techjet upgrade</i>	17.5m/min - 700"/min	17.5m/min - 700"/min	17.5m/min - 700"/min	17.5m/min - 700"/min	12.5m/min - 500"/min	12.5m/min - 500"/min	
Acceleration Rate	400mm/sec ² - 16"/sec ²	400mm/sec ² - 16"/sec ²	300mm/sec ² - 12"/sec ²	300mm/sec ² - 12"/sec ²	300mm/sec ² - 12"/sec ²	300mm/sec ² - 12"/sec ²	
<i>w/ Techjet upgrade</i>	250mm/sec ² - 10"/sec ²	250mm/sec ² - 10"/sec ²	150mm/sec ² - 6"/sec ²	150mm/sec ² - 6"/sec ²	150mm/sec ² - 6"/sec ²	150mm/sec ² - 6"/sec ²	

* 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.

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