

Multi Axis, Single or Multi Hole High Speed EDM Drilling System for Aero Combustor Parts and Large IGT Vanes and Blades

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HSD6 GT High Speed EDM Drilling System

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HSD6 GT EDM



The HSD6 GT has been developed from the original and highly successful HSD6 system to take advantage of the latest design, control and process concepts employed in High Speed EDM for large annular parts such as Aero combustor components and also the larger IGT Blades and Vanes with a weight capacity up to 500kg.



Features	Performance	8
Signature analysis	Strokes	
Monitors real time drilling performance	Linear X	1050mm (41.34 inches)
Reduces the requirement for manual inspection	Linear Y	540mm (21.25 inches)
	Linear Z	720mm (28.35 inches)
Advanced shaped hole generation	Rotary A	+ 210° - 60°
Generation of complex 2D and 3D diffuser holes	Rotary B	+100° - 200°
	Rotary C	Continuous
High production rates	EDM axis	100mm (3.94 inches)
Up to 5 times faster than conventional EDM		
	Accuracy	
Hole geometry	Linear	0.015mm (0.00059 inches)
From 0.3mm to 25.0mm diameter and up to ~ 100mm in depth	Rotary	0.007°
Patented 6 point probing system	Repeatability	
Allows positioning using simple fixturing	Linear	0.010mm (0.00039 inches)
Ensures accurate positioning of drilled holes	Rotary	0.003°
Optical on machine inspection		
Hole true position measurement using a laser opticator		
Tooling		
Single point rotating or static electrode		
Single point AEC (Automatic Electrode Change, holds 12 electrodes)		

Multi-tool with up to 45 individually sensed

Applications

The HSD6 machine in its latest GT incarnation has been specially developed for machining cooling holes and slots in aero combustor components and larger IGT Blades and Vanes. Round holes/Shaped holes (oval)

- Seal slots

- 2D & 3D diffusers

1. Renishaw Probe

Renistraw Probe
Combustor Liner
Signature Analysis
Rotary Table
Single point AEC tool



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