



Multi Axis, Single or Multi Hole High Speed EDM Drilling System

# HSD6-III High Speed EDM Drilling System



## winbrogroup.com

In addition to our UK headquarters and USA facilities, Winbro Group Technologies has a number of partner companies strategically located to provide local sales and service support.

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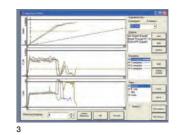












The HSD6 III High Speed EDM System offers industry leading performance whilst maintaining stringent aero and IGT metallurgical requirements. It can accommodate components dimensions of 225mm x 225mm x 225mm (8.85 x 8.85 x 8.85 inches) and with a payload of 10kg (22lbs).

#### Features

#### Signature analysis

Monitors real time drilling performance

Reduces the requirement for manual inspection

#### Advanced shaped hole generation

Generation of complex 2D and 3D diffuser holes

#### High production rates

Up to 5 times faster than conventional EDM

## Hole geometry

From 0.3mm to 3.0mm diameter and up to ~ 100mm in depth

#### Patented 6 point Probing System

Allows positioning using simple fixturing

Ensures accurate positioning of drilled holes

#### Optional on machine inspection

Hole true position measurement using a laser opticator

Single point rotating or static electrode

Single AEC (12 electrode automatic changing tool)

Multi-tool with up to 45 individually sensed electrodes

#### Performance

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Linear X	200mm (7.87 inches)
Linear Y	200mm (7.87 inches)
Linear Z	250mm (9.84 inches)
Rotary A	+/- 185°
Rotary B	135° + 100°
Rotary C	+/- 8°
EDM axis:	100mm (3.94 inches)

#### Accuracy

Linear	0.010mm (0.00039 inches)
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#### Repeatability

Linear	0.008mm (0.00032 inches)
Rotary	+/- 15 arc sec

### **Applications**

The acclaimed HSD6 machine in its latest MK-III incarnation, has been specially developed for machining cooling holes and slots on Aero and IGT turbine blades, vanes, segments and other components of a similar size.

- Round holes/Shaped holes (oval)
- Seal slots
- 2D & 3D diffusers

