

# Campbell Grinder Company



930E1000 Pictured with  
100Hp Spindle and Tool & Nozzle Changer

## *MODEL 930E SERIES*

The 930E Series is a traveling column 5 axis machine with 4 or 5 axes controlled simultaneously during the grind. (Depending on the CNC control model)

This series of machine is especially well suited for grinding turbine engine vanes, buckets, shrouds, hangers, panels and fairings. Depending on the size selected this machine can be used to manufacture anything from small jet engine vanes to large land based turbine parts.

# Standard Features For 930E Series

- Fanuc CNC Control
- Precision Roller Ways – All Axes
- Ability To Use Any Abrasive
- Through the Table Hydraulics
- Direct Motorized Liquid Cooled Grinding Spindle
- Direct Feedback – All Scales
- Full Machine Enclosure
- Traveling Column
- Large Box Section Frame For Extreme Stiffness And Superior Machine Geometry

## Accuracy

**X Axis:** Accuracy 5 Microns (0.0002 inch)

**Y Axis:** Accuracy 5 Microns (0.0002 inch)

**Z Axis:** Accuracy 5 Microns (0.0002 inch)

**B Axis Spindle Swivel:** Accuracy 10 arc seconds

**C Axis (Table):** Accuracy 10 arc seconds

## Available Sizes

### 250mm Cube Part Capacity

Table Top – 250mm Dia.  
– 10 inches Dia.



### 500mm Cube Part Capacity

Table Top – 500mm Dia.  
– 20 inches Dia.



### 750mm Cube Part Capacity

Table Top – 750mm Dia.  
– 30 inches Dia.



### 1000mm Width & Depth 750mm - Height Part Capacity

Table Top – 1000mm Dia.  
– 40 inches Dia.



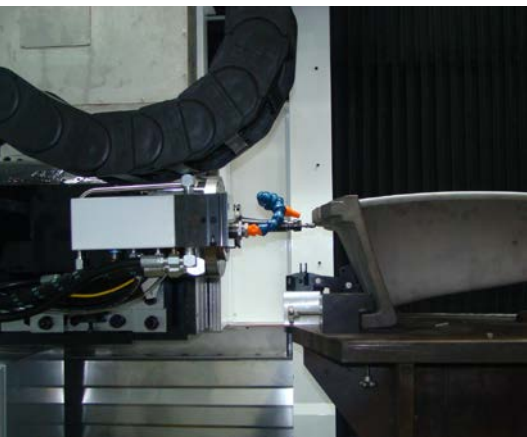
# Axis Movement



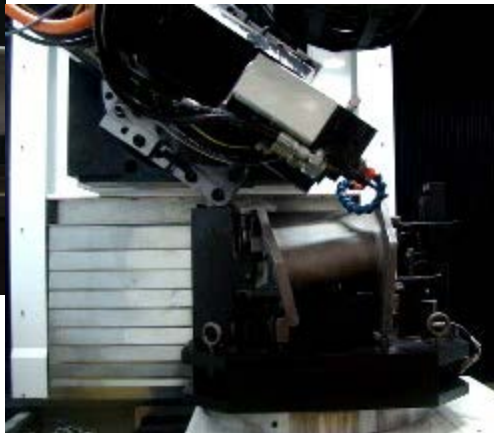
930E250 Pictured

## Recent Machine Applications

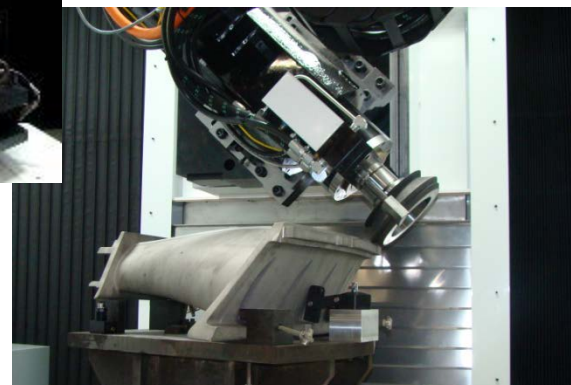
Milling



Vector Drilling



Grinding

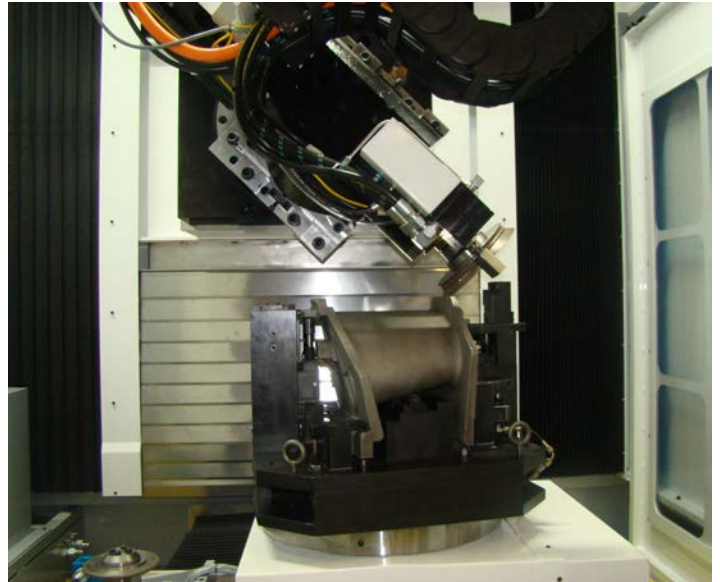




# Optional Features For 930E Series

## Grinding

- Disk Dresser
- Roll Form Dresser
- Wheel Balance System
- Part Probing
- Tool Probing
- Milling and Drilling
- Gap Eliminator
- Spindle - Numerous HP & RPM  
Available up to 100HP
- Tool and Nozzle Changer
- Mist Collector
- Fire Suppression System - Oil  
Coolant
- Coolant Through the Tool
- High Speed "C" Axis
- Many Other Options Available



# Campbell Grinder Company

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