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AEROSPACE[®]

MANUFACTURING and DESIGN

Dedicated to the Design, Manufacturing, and MRO of Aircraft and Aerospace Components

Maintaining an efficient
supply chain – as customer
and vendor – locally and globally.

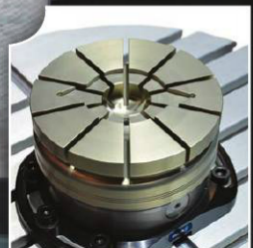
SURVIVING — A N D — THRIVING AS A SUPPLIER



MANDELLI SISTEMI's
Spark 5-Axis HMC



WERTH's
TomoQuick HV CMM



SCHUNK's
Vero-S Diaphragm
Clamping System



5-axis horizontal machining center

The Spark line of machining centers offers high stock removal rates and accuracy. Thermo-symmetric structures with minimum mobile masses improve tolerances. Rapid traverse of 50m/minute and high cutting speeds of 5,000rpm to 30,000rpm reduce cycle times. Linear axis movement is provided by roller guideways.

The centers are engineered to achieve high metal removal rates and aggressive chip-to-chip cycle times when machining steel, stainless steel, aluminum, magnesium, copper, cast iron, titanium, or heat resistant super alloys (HRSA). The Spark line includes the 1300, 1600, 2100, and 2600 models, with rotary table sizes from 630mm x 800mm (25" x 31") to 1,250mm x 1,600mm (49" x 63"). Various spindle heads, tool magazines, and pallet handling systems are available.

Mandelli Sistemi SpA

www.mandelli.com

Gruppo Riello Sistemi

www.grupporiellosistemi.com

Gruppo Riello Sistemi North America

<http://triway.riellosistemi.it>

Performance data

- Chip removal rate (titanium): up to 450cm³/min
- 5-axis spindle power up to 67kW at 1,850N-m
- Spindle speed up to 30,000rpm for aluminum
- Five CNC axes: A-axis tilting head and B-axis tilting table
- Tilting and turning tables with direct-drive system reaching 600rpm

Features

- High rigidity
- Self-supporting base
- Active damping for hard material milling
- Supports dry and wet machining
- Retracting roof cover
- Optical scales air-pressurized to eliminate contamination
- Automatic floor platform comes to the operator when the machine doors open