

HS-155S

 MULTI-AXIS SUPERABRASIVE GRINDING SYSTEM

The Huffman HS-155S Multi-Axis Superabrasive Grinding System is a highly productive machine designed for maximum process capability, flexibility and maintainability. System precision, durability and uptime is crucial for a wide variety of applications including **FLIGHT AND INDUSTRIAL GAS TURBINE BLADES, VANES AND SHROUDS**. The HS-155S combines operations using multiple axes which creates a precise part with faster production rates and yields a greater capacity. All Huffman Grinding Systems feature massively ribbed castings to maximize rigidity and minimize vibration.



Inside the HS-155S

[HS-155S AT-A-GLANCE]

- ▼ INCREASED AUTOMATION
- ▼ SHORTER SETUP & CYCLE TIMES
- ▼ RIGID MACHINE DESIGN
- ▼ OPERATIONAL SIMPLICITY
- ▼ OIL-BASED OR WATER-SOLUBLE COOLANT CAPACITY



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HS-155S

MULTI-AXIS
SUPERABRASIVE
GRINDING
SYSTEM

[TECHNICAL DATA]

	Axis Type	Total Travel (axes under CNC control)	Feed Rate
Z-AXIS	LINEAR	16" (406 MM)	0-393 IPM (0-10 MPM)
Y-AXIS	LINEAR	16" (406 MM)	0-393 IPM (0-10 MPM)
X-AXIS	LINEAR	16" (406 MM)	0-393 IPM (0-10 MPM)
B-AXIS	ROTARY	105°	3.3 RPM (500 MM AXIS)
C-AXIS	ROTARY	±360°	10 RPM (350 MM AXIS)
	Programming Resolution	Positioning Accuracy	Positioning Repeatability
LINEAR AXES [SCALE FEEDBACK]	0.0001" (0,001 MM)	±0.0001 IN/FT (±0,008 MM/M)	0.0001 IN/FT (0,008 MM/M)
ROTARY AXES [SCALE FEEDBACK]	0.001°	±10 ARC SEC	10 ARC SEC
WHEEL SPINDLE RANGE	4000-8000 RPM*	TOTAL WEIGHT	16000 LBS (7257 KG)
WHEEL DIAMETER	4-10" (102-254 MM)	OVERALL DIMENSIONS	247 x 173 x 97" (6274 x 4394 x 2464 MM)
SPINDLE POWER	15 HP (11.19 KW)*	FLOOR TO CENTERLINE OF WORKHOLDER	42" (1067 MM)

* Variable speed and higher power options are available

▼ [STANDARD EQUIPMENT]

- Stress-relieved cast iron machine base
- Digital AC brushless servo drive systems
- Motor encoders on all axes
- Single wheel hub
- Metric design & hardware
- Oil-based coolant compatibility

▼ [OPTIONAL EQUIPMENT]

Application Software Options

- Automotive, aerospace & energy components
- CAD/CAM compatibility with Huffman or 3rd party post-processors

Grinding Spindle Options

- Variable speed, multiple wheel hub configurations, quick-change hubs, wheel balancing, higher power motors

Workholding Options

- EROWA, 3-R, modular fixturing system

Coolant System Options

- 100-500 psi (7-35 bar)
- Water-soluble coolant capacity
- Paper, centrifuge, DE & other filtration
- Temperature-controlled
- Mist exhaust filtration
- Spray washdown system

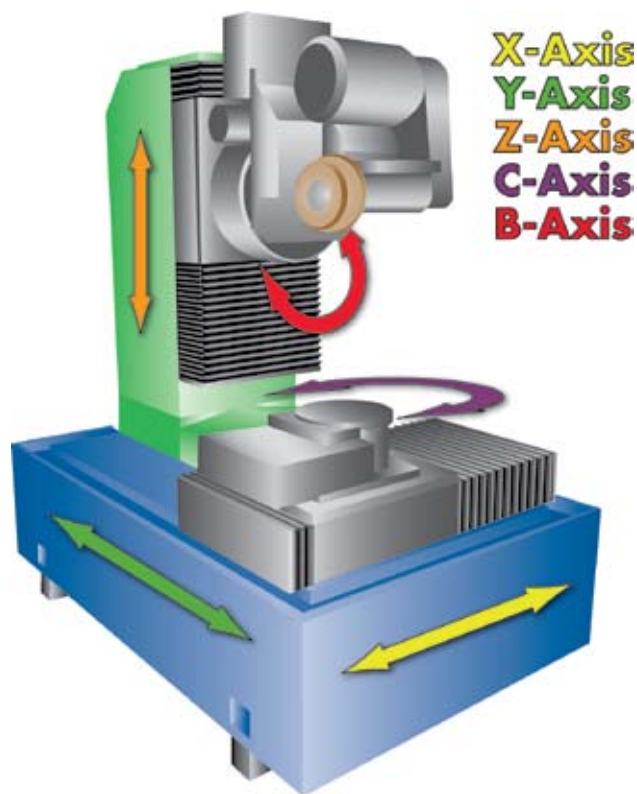
Control Options

- GE Fanuc, Huffman OAC

Other

- Fewer or more than 5 axes available
- Rotary truing device
- 500 mm Rotary C-Axis (5.5 rpm)

[HS-155S AXIS CONFIGURATION]



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