

HS-205

● MULTI-AXIS SUPERABRASIVE GRINDING SYSTEM

The Huffman HS-205 Multi-Axis Superabrasive Grinding System is designed for increased productivity, precision, and reliability for a wide variety of applications including **FLIGHT AND INDUSTRIAL GAS TURBINE VANES, BLADES AND SHROUDS, MEDICAL BROACHES AND REAMERS, AND AUTOMOTIVE COMPONENTS**. Greater flexibility is achieved through modular design, standard components and application software for specific grinding applications. It's small footprint (34 sq ft / 3,16 sq m) enables better floorspace management.



Inside the HS-205

[HS-205 AT-A-GLANCE]

- ▼ SMALL FOOTPRINT (34 SQ FT / 3,16 SQ M)
- ▼ SHORTER SETUP & CYCLE TIMES
- ▼ RIGID MACHINE DESIGN
- ▼ OPERATIONAL SIMPLICITY
- ▼ OIL-BASED OR WATER-SOLUBLE COOLANT CAPACITY



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HS-205

MULTI-AXIS SUPERABRASIVE GRINDING SYSTEMS

[TECHNICAL DATA]

	Axis Type	Total Travel (axes under CNC control)	Feed Rate
X-AXIS	LINEAR	12" (305 MM)	0-600 IPM (0-15 MPM)
Y-AXIS	LINEAR	12" (305 MM)	0-600 IPM (0-15 MPM)
Z-AXIS	LINEAR	12" (305 MM)	0-600 IPM (0-15 MPM)
A-AXIS	ROTARY	360°	150 RPM
C-AXIS	ROTARY	+25° TO -135°	5.5 RPM

	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	6000 RPM*	TOTAL WEIGHT	12000 LBS (5443 KG)
WHEEL DIAMETER	6" (152 MM)	OVERALL DIMENSIONS	145 X 132 X 106" (3683 X 3353 X 2696 MM)
SPINDLE POWER	10 HP (7,46 kW)*	FLOOR TO CENTERLINE OF WORKHOLDER	52" (1321 MM)

* Variable speed and higher power options are available

▼ [STANDARD EQUIPMENT]

- Huffman OAC interface software - IEC 61131 standards
- 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
- Medical components
- Cutting tools
- 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

- HSK, CAT, collet, arbor-style tooling, tailstock with centers, steady-rests

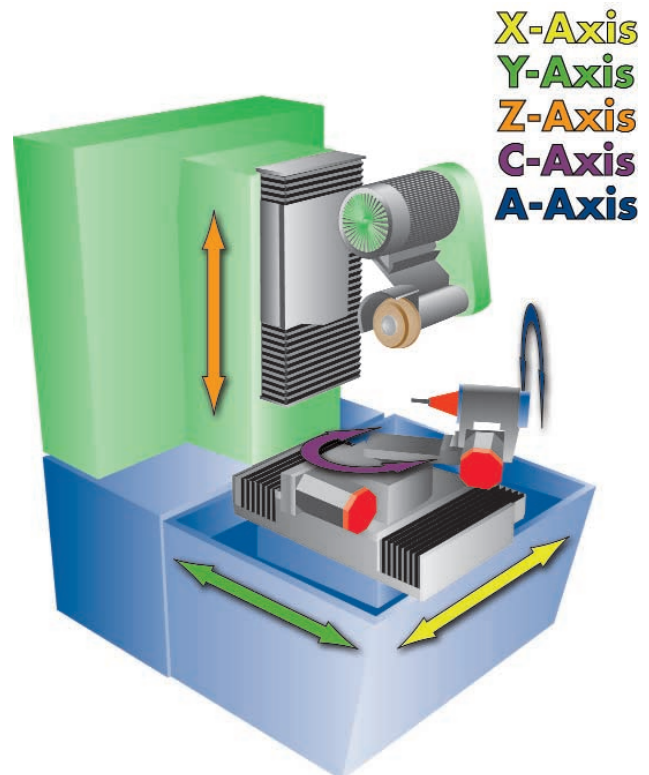
Coolant System Options

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

Other

- Fewer or more than 5 axes available
- Rotary truing device
- Probe
- Autoloader

[HS-205 AXIS CONFIGURATION]



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