

# HS-215 <sup>AND</sup> 225

 MULTI-AXIS SUPERABRASIVE GRINDING SYSTEMS

The Huffman HS-215/225 Multi-Axis Superabrasive Grinding Systems are highly productive machines 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, MEDICAL BROACHES AND REAMERS AND AUTOMOTIVE COMPONENTS.** The HS-215/225 combine operations using multiple axes which create 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-215/225*

## [HS-215/225 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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1-888-HUFFMAN

# HS-215<sup>AND</sup>225

MULTI-AXIS  
SUPERABRASIVE  
GRINDING  
SYSTEMS

## [TECHNICAL DATA]

	Axis Type	Total Travel (axes under CNC control)	Feed Rate
X-AXIS	LINEAR	HS-215: 60" (1524 MM) / HS-225: 32" (813 MM)	0-393 IPM (0-10 MPM)
Y-AXIS	LINEAR	24" (610 MM)	0-393 IPM (0-10 MPM)
Z-AXIS	LINEAR	16" (406 MM)	0-393 IPM (0-10 MPM)
B-AXIS	ROTARY	0-90°	3.3 RPM
C-AXIS	ROTARY	±360°	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	4000-8000 RPM*	TOTAL WEIGHT	24000 LBS (10890 KG)
WHEEL DIAMETER	6-12" (152-305 MM)	OVERALL DIMENSIONS	160 x 145 x 131" (4064 x 3683 x 3327 MM)
SPINDLE POWER	15-50 HP (11-37 KW)*		

\* 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

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

### Grinding Spindle Options

Multiple wheel hub configurations, quick-change hubs, wheel balancing, higher power motors, quick-change coolant nozzles

### 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

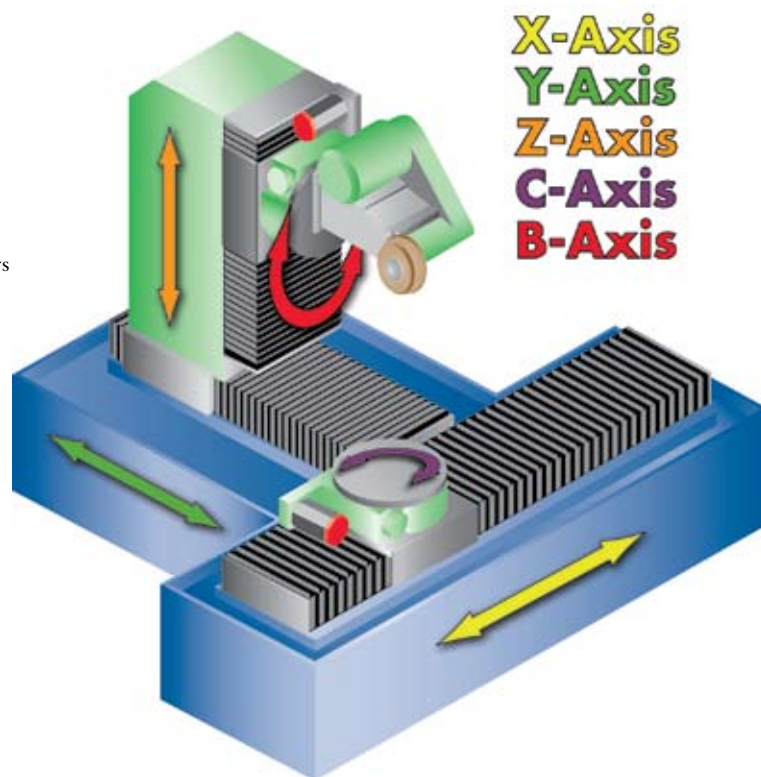
### Control Options

GE Fanuc, Huffman OAC

### Other

Fewer or more than 5 axes available  
Rotary truing device

## [HS-215/225 AXIS CONFIGURATION]



### CORPORATE HEADQUARTERS

1050 HUFFMAN WAY • CLOVER, SC 29710 • USA  
TEL: 803-222-4561 • FAX: 803-222-7599  
TOLL-FREE: 888-HUFFMAN  
WEB: WWW.HUFFMANCORP.COM