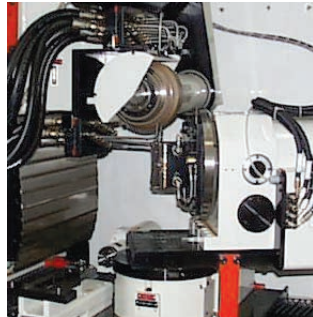


# HS-195

 MULTI-AXIS SUPERABRASIVE GRINDING SYSTEM

The Huffman HS-195 Multi-Axis Superabrasive Grinding System improves space utilization and increases capacity. Shorter setup and cycle times are possible through grinding spindle options such as **VARIABLE SPEEDS, MULTIPLE WHEEL HUB CONFIGURATIONS AND QUICK CHANGE WHEEL HUBS.** Stress relieved, cast iron machine base, precision ground, zero backlash ballscrews, massively ribbed castings to maximize rigidity and minimize vibration, and geared rotary axes make this system capable of producing higher quality parts with a better finish.



*Inside the HS-195*

## [HS-195 AT-A-GLANCE]

- ▼ SMALL FOOTPRINT (43 SQ FT / 4 SQ M)
- ▼ SHORTER SETUP & CYCLE TIMES
- ▼ RIGID MACHINE DESIGN
- ▼ OPERATIONAL SIMPLICITY
- ▼ OIL-BASED OR WATER-SOLUBLE COOLANT CAPACITY



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# HS-195

MULTI-AXIS  
SUPERABRASIVE  
GRINDING  
SYSTEM

## [TECHNICAL DATA]

	Axis Type	Total Travel (axes under CNC control)	Feed Rate
X-AXIS	LINEAR	16" (406 MM)	0-393 IPM (0-10 MPM)
Y-AXIS	LINEAR	16" (406 MM)	0-393 IPM (0-10 MPM)
Z-AXIS	LINEAR	16" (406 MM)	0-393 IPM (0-10 MPM)
A-AXIS	ROTARY	360°	150 RPM
C-AXIS	ROTARY	+45° TO -180°	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	15750 LBS (7144 KG)
WHEEL DIAMETER	4-10" (102-254 MM)	OVERALL DIMENSIONS	236 x 170 x 110" (5994 x 4318 x 2794 MM)
SPINDLE POWER	10 HP (7,46 kW)*	FLOOR TO CENTERLINE OF WORKHOLDER	43" (1092 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
- 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, large diameter wheels, higher power motors

### Workholding Options

- EROWA, 3-R, modular fixturing system, HSK, CAT, collet, arbor-style tooling, tailstock with centers, steady-rests

### 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

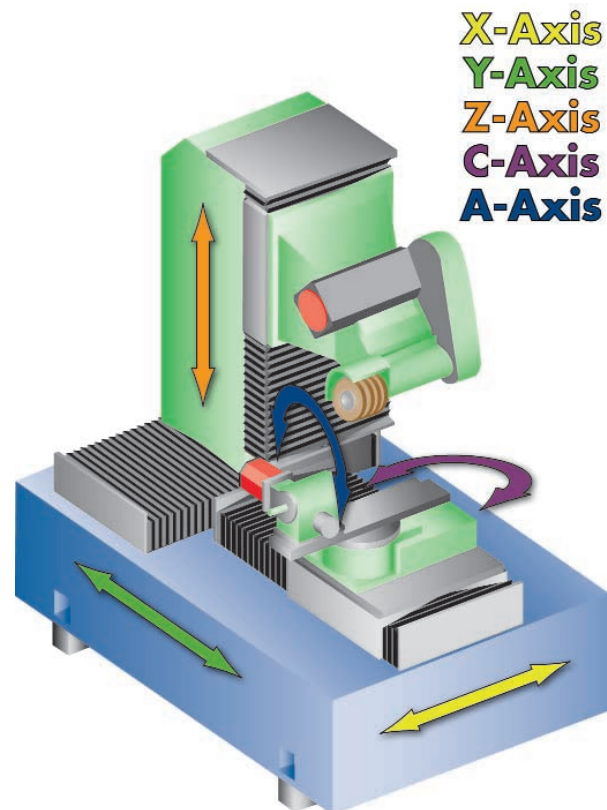
### Control Options

- GE Fanuc, Huffman OAC

### Other

- Fewer or more than 5 axes available
- Integrated probing
- Manual mechanical locating/timing device
- Rotary truing device

## [HS-195 AXIS CONFIGURATION]



### CORPORATE HEADQUARTERS

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