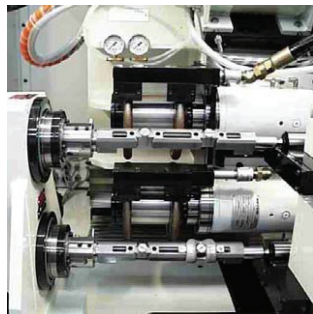


# HS-154R-4X4

 MULTI-AXIS SUPERABRASIVE GRINDING SYSTEM

The Huffman HS-154R-4X4 Multi-Axis Grinding System includes two grinding spindles and two work spindles on a precise, durable, superabrasive grinding platform. With two spindles, the system can more than double the productivity of competing systems without consuming valuable shop floor space. The design is also modular, enabling combinations of one or two work spindles and one or two grinding spindles. This modular approach offers flexibility to employ a variety of grinding wheel shapes and sizes to combine many operations into one machine cycle. The system is designed to deliver exceptional commercial and technical benefits 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-154R-4X4-4X4 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-154R-4X4*



## [HS-154R-4X4 AT-A-GLANCE]

- ▼ MAXIMUM PRODUCTIVITY
- ▼ SHORT SETUP & CYCLE TIMES
- ▼ ROBUST & PROCESS CAPABLE
- ▼ ERGONOMIC DESIGN FOR USER FRIENDLY SETUP & OPERATION
- ▼ DESIGN FLEXIBILITY WITH MODULAR COMPONENTS



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# HS-154R-4X4

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 / B-AXIS	ROTARY	360°	150 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	18000 LBS (8164 KG)
WHEEL DIAMETER	8" (203 MM)	OVERALL DIMENSIONS	209 x 120 x 121" (5309 x 3048 x 3073 MM)
SPINDLE POWER	50 HP (37,3 kW)*	FLOOR TO CENTERLINE OF WORKHOLDER	50" (1270 MM)

\* Variable speed and other spindle motor 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
- Medical components
- CAD/CAM compatibility with Huffman or 3rd party post-processors

### Grinding Spindle Options

- Variable speed, multiple wheel hub configurations, quick-change hubs, single or dual spindle configuration, other spindle motor power

### Workholding Options

- EROWA, 3-R, HSK, CAT, collet, arbor-style tooling, tailstock with centers, steady-rests, quick change pallets

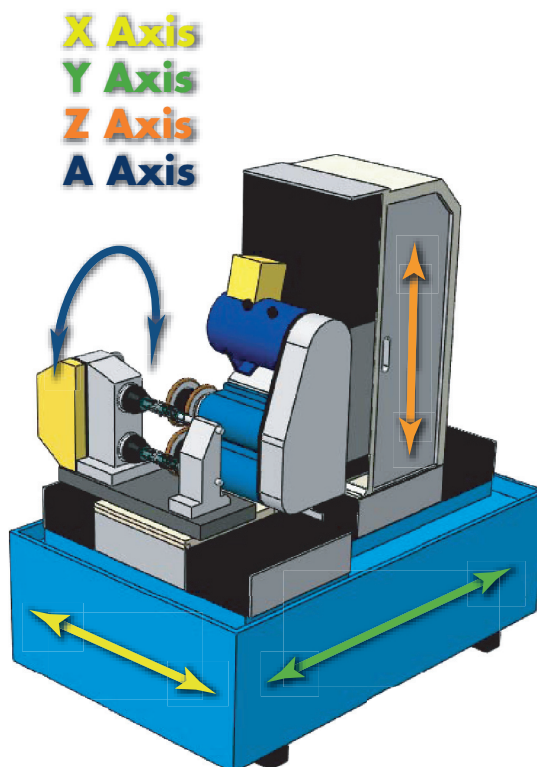
### Coolant System Options

- 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

## [HS-154R-4X4 AXIS CONFIGURATION]



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