

# Ceramic Wafer Racks

## Application Sheet #522

### Description

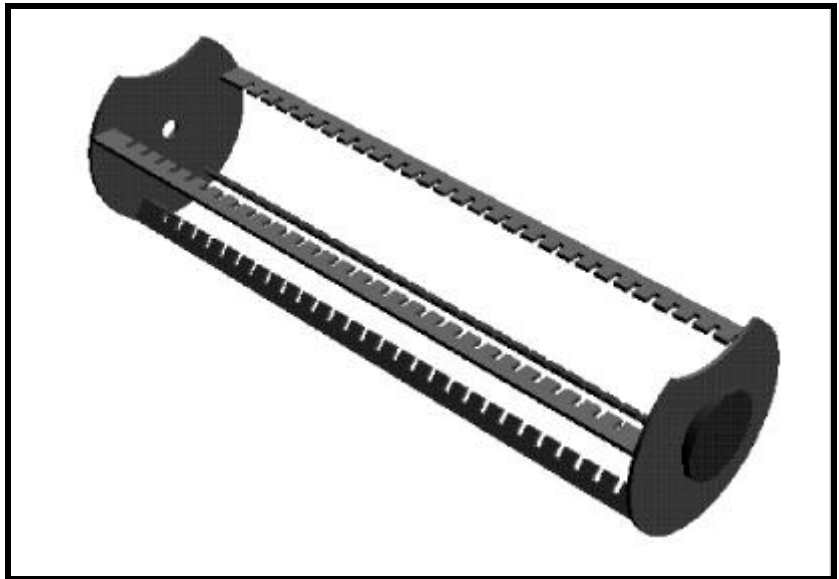
- Production grinding of ceramic wafer racks for the electronics/computer industry.

### Application

- Racks used for wafer manufacturing.
- Ground slots in the ceramic rack are used to accommodate wafers during the manufacturing process.
- Precise slot spacing allows uniform heat transfer/distribution during the wafer baking process.

### Process

- The contact probe is used to determine part/fixture location.
- The grinding wheel width determines the slot width.
- A single wheel setup is used.
- An in-process wheel measurement system is used to monitor and compensate for wheel wear.



### Material

- Ceramic

### Cycle Time

- Dependent upon part configuration.

### Features and Benefits

- Available on the Huffman HS-130 and HS-160 Grinders.
- High-resolution scale feedback is used on the linear axes.
- Contact probe is used for determining part location.
- Wheel truing system with variable speed control is available.
- Off-line workstation for program storage is available.
- Coolant spray wash down for clearing the machine enclosure of grinding swarf is available.
- Custom fixturing (depending upon part configuration) may be required.

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