

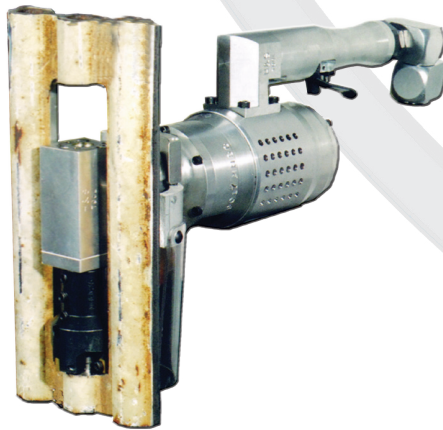
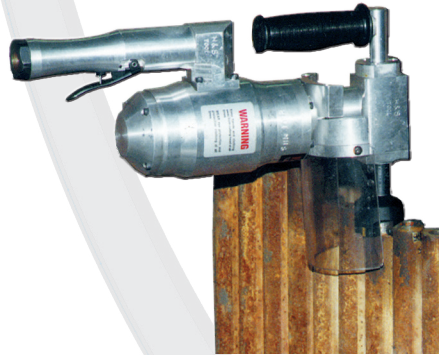
**.500" I.D. to 3.000" O.D. (12.7 to 76.2 mm)**

**RELIABLE PERFORMANCE**

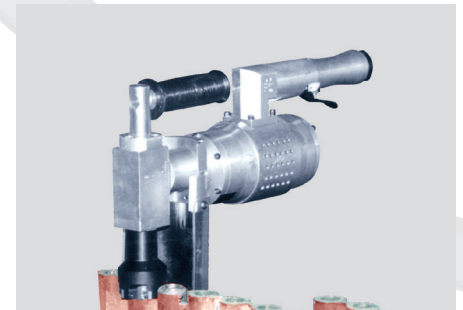
The Wizard MHS is an industry-leading high speed machine for volume production tube beveling and facing as well as membrane removal of panel walls.

The unique H & S pneumatic motor is lightweight and compact yet delivers true performance on tubes up to 3.000" (76.2 mm) O.D. It is protected by U.S. patent numbers 7653997 and 7673549.

The cutting heads use quality replaceable carbide inserts with multiple cutting edges for increased usable insert life. The heads are centered in the tube with hardened steel pilots which are available in .020" (.506 mm) increments to accurately fit tube I.D.'s within the working range.



- **Up to 3.000" (76.2 mm) O.D.**
- **Weights Just 7.0 lbs. (3.2 kg)**
- **Narrow Head To Fit Between Tubes And In Corners**
- **High Speed Beveling, Facing and Membrane Removal**
- **Rental Or Purchase**



**Specifications\***

|  |  |
|--|--|
| Working Range.....                             | .500" (12.7 mm I.D. to 3.000" (76.2 mm) O.D. |
| Exclusive H & S Pneumatic Motor.....           | 4.0 H.P. (3.0 kW)                            |
| Recommended Air Pressure .....                 | 90 PSI (6.1 Bar)                             |
| Recommended Volume .....                       | 85 CFM (2.5m <sup>3</sup> /min.)             |
| Speed .....                                    | 5,000 RPM                                    |
| Length.....                                    | 14.000" (355.6 mm)                           |
| Radial Tool Clearance (less tool holder) ..... | 1.500" (38.1 mm)                             |
| Weight .....                                   | 7.0 lbs. (3.2 kg)                            |

\*Specifications are subject to change without notice.



## PILOTS

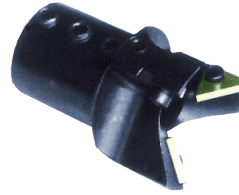
| Pilot O.D. |      | Pilot O.D. |      |
|------------|------|------------|------|
| Inches     | mm   | Inches     | mm   |
| .500       | 12.7 | 1.660      | 42.2 |
| .520       | 13.2 | 1.680      | 42.7 |
| .540       | 13.7 | 1.700      | 43.2 |
| .560       | 14.2 | 1.720      | 43.7 |
| .580       | 14.7 | 1.740      | 44.2 |
| .600       | 15.2 | 1.760      | 44.7 |
| .620       | 15.7 | 1.780      | 45.2 |
| .640       | 16.3 | 1.800      | 45.7 |
| .660       | 16.8 | 1.820      | 46.2 |
| .680       | 17.2 | 1.840      | 46.7 |
| .700       | 17.8 | 1.860      | 47.2 |
| .720       | 18.3 | 1.880      | 47.8 |
| .740       | 18.8 | 1.900      | 48.3 |
| .760       | 19.3 | 1.920      | 48.8 |
| .780       | 19.8 | 1.940      | 49.3 |
| .800       | 20.3 | 1.960      | 49.8 |
| .820       | 20.8 | 1.980      | 50.3 |
| .840       | 21.3 | 2.000      | 50.8 |
| .860       | 21.8 | 2.020      | 51.3 |
| .880       | 22.4 | 2.040      | 51.8 |
| .900       | 22.9 | 2.060      | 52.3 |
| .920       | 23.2 | 2.080      | 52.8 |
| .940       | 23.9 | 2.100      | 53.3 |
| .960       | 24.4 | 2.120      | 53.8 |
| .980       | 24.9 | 2.140      | 54.4 |
| 1.000      | 25.4 | 2.160      | 54.9 |
| 1.020      | 25.9 | 2.180      | 55.4 |
| 1.040      | 26.4 | 2.200      | 55.9 |
| 1.060      | 26.9 | 2.220      | 56.4 |
| 1.080      | 27.4 | 2.240      | 56.9 |
| 1.100      | 27.9 | 2.260      | 57.4 |
| 1.120      | 28.5 | 2.280      | 57.9 |
| 1.140      | 29.0 | 2.300      | 58.4 |
| 1.160      | 29.5 | 2.320      | 58.9 |
| 1.180      | 30.0 | 2.340      | 59.4 |
| 1.200      | 30.5 | 2.360      | 59.9 |
| 1.220      | 31.0 | 2.380      | 60.5 |
| 1.240      | 31.5 | 2.400      | 61.0 |
| 1.260      | 32.0 | 2.420      | 61.5 |
| 1.280      | 32.5 | 2.440      | 62.0 |
| 1.300      | 33.0 | 2.460      | 62.5 |
| 1.320      | 33.5 | 2.480      | 63.0 |
| 1.340      | 34.0 | 2.500      | 63.5 |
| 1.360      | 34.5 | 2.520      | 64.0 |
| 1.380      | 35.1 | 2.540      | 64.5 |
| 1.400      | 35.6 | 2.560      | 65.0 |
| 1.420      | 36.1 | 2.580      | 65.5 |
| 1.440      | 36.6 | 2.600      | 66.0 |
| 1.460      | 37.1 | 2.620      | 66.5 |
| 1.480      | 37.6 | 2.640      | 67.1 |
| 1.500      | 38.1 | 2.660      | 67.6 |
| 1.520      | 38.6 | 2.680      | 68.1 |
| 1.540      | 39.1 | 2.700      | 68.6 |
| 1.560      | 39.6 | 2.720      | 69.1 |
| 1.580      | 40.1 | 2.740      | 69.6 |
| 1.600      | 40.6 | 2.760      | 70.1 |
| 1.620      | 41.1 | 2.780      | 70.6 |
| 1.640      | 41.7 | 2.800      | 71.1 |

**37.5°, 30.0°**

**O.D. Bevel**

**Cutting**

**Heads**



**Membrane**

**Removal**

**Cutting Heads**



| Head Size  | Inches I.D. - O.D. | MM I.D. - O.D. |
|------------|--------------------|----------------|
| HS 125.375 | .500 - 1.375       | 12.7 - 34.9    |
| HS 150.375 | .700 - 1.500       | 17.8 - 38.1    |
| HS 162.500 | .500 - 1.700       | 12.7 - 43.2    |
| HS 175.500 | .700 - 1.750       | 15.2 - 44.5    |
| HS 200.500 | .840 - 2.000       | 21.3 - 50.8    |
| HS 225.500 | 1.100 - 2.250      | 27.9 - 57.2    |
| HS 250.500 | 1.340 - 2.500      | 34.0 - 63.5    |
| HS 275.500 | 1.600 - 2.750      | 40.6 - 69.9    |
| HS 300.500 | 1.840 - 3.000      | 46.7 - 76.2    |

| Head Size | Inches I.D. - O.D. | MM I.D. - O.D. |
|-----------|--------------------|----------------|
| HSM .875  | .875               | 22.2           |
| HSM 1.000 | 1.000              | 25.4           |
| HSM 1.125 | 1.125              | 28.6           |
| HSM 1.250 | 1.250              | 31.8           |
| HSM 1.375 | 1.375              | 34.9           |
| HSM 1.500 | 1.500              | 38.1           |
| HSM 1.750 | 1.750              | 44.5           |
| HSM 2.000 | 2.000              | 50.8           |
| HSM 2.125 | 2.125              | 54.0           |
| HSM 2.250 | 2.250              | 57.2           |
| HSM 2.375 | 2.375              | 60.3           |
| HSM 2.500 | 2.500              | 63.5           |
| HSM 2.750 | 2.750              | 69.9           |
| HSM 3.000 | 3.000              | 76.2           |

**90.0° Facing**

**Cutting**

**Heads**



| Head Size   | Inches I.D. - O.D. | MM I.D. - O.D. |
|-------------|--------------------|----------------|
| HSF 150.375 | .500-1.625         | 12.7 - 41.3    |
| HSF 200.500 | .500 - 2.000       | 12.7 - 50.8    |
| HSF 250.500 | 1.040 - 2.500      | 26.4 - 63.5    |
| HSF 300.500 | 1.500 - 3.000      | 3.81 - 76.2    |

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Note: When ordering pilots for membrane removal cutting heads, add the prefix "M" to the pilot size (i.e. M1.260).