

STANDARD SPECIFICATIONS — MODEL 1006 DICING SAW

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| Wafer Size | To 6 inches | To 155mm |
| Index Stepping Range | .00025 inches to wafer diameter | 6 microns to diameter |
| Minimum Index Step | .000125 inch | 3 microns |
| Cutting Feed Speed* | 0.05 to 12 inches/second | 1.25 to 300mm/second |
| Return Stroke | To 12 inches/second | 300mm/second |
| Spindle Index Repeatability | .00016 inch/6 inches | 4 microns/155mm |
| Chuck Flatness | .0002 inch across six inches | 5 microns over 155mm |
| Cutting Depth Range | Blade limited | |
| Cutting Depth Increments | .00025 inch | 6 microns |
| Chuck Height Range | 0.50 inch | 13mm |
| Chuck Rotation | 0 to 120 degrees | |
| Chuck, Fine Adjustment | ± 3 degrees | |
| Rotation Resolution | .0025 degrees | |
| Microscope Magnification | 60X Monocular or 100X Split Field TV 9" screen | |
| Cutting Wheel Diameter | 2 inches to 2.5 inches | 50 to 64mm |
| Kerf Width with .001 (0.025mm) Blade | 0.0012 to 0.0014 inch | 30 to 35 microns |
| Wheel Coolant Consumption | ½ to 1 gpm | 2 to 4 lit/min. |
| Cooling Water Consumption-Spindle | 6 gph | 24 lit/hr. |
| Wheel Coolant Pressure | 30 psi | 2Kg/cm ² |
| Vacuum | 20 inches Hg minimum | 500mm Hg minimum |
| Air | 80 psi, 4 CFM | 5.6 Kg/cm ² , 120 lit/min. |
| Number of Microprocessors | 3 | |
| Memory Capacity | 372K | |
| Program Storage | 7 expandable to 187 | |
| Base Dimensions | 32 inches x 26 inches | 81cm x 65cm |
| Height (with TV) | 25 inches | 73cm |
| Weight | 220 lbs. | 100 Kg |
| Power | 100-250VAC ± 10%, 50/60 Hz, 1500W | |
| Spindle | High Frequency Drive Air Bearing 1350W | |
| Spindle Speed | 10,000 to 40,000 RPM | |

*Option available for 0.0125 to 3 inches/second (0.3 to 75mm/second).

CHECKLIST OF FEATURES

- Automatic Theta Align Memory Split Field Television Metric/English Capability Triple Precision Arithmetic 2-Pass Alignment Auto Chuck Zero Chuck Zero Memory Wheel Grounded During Cutting
 Auto Blade Dress All Axes Motorized Closed-Loop Motor Servo Control Programmed Z Height Circle Cutting Rectangle Cutting Square Cutting Hex Dicing Automatic Mesa Machining Solar Cell Program
 Programmed Soft Speed Entry Programmable Progressive Cutting Universal Blade Capability Multiple Processors Total Program Storage Expandable Program Storage Full Time Error Codes Full Time Fault & Diagnostic Codes Full Check Sum Capabilities Bus Compatible Die Management Tooling Available Future Expansion Automation Cut Counter All Services Interlocked Universal Power System Quiet Powerful Air Bearing Spindle Non-Interacting Adjustments Wear Compensating Mechanics Broad Installed Base
 World-Wide Service



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