

# ULTRASLICE

## Precision Slicing Machine

### ADVANCED SLICING FOR MOST COMPONENT SIZES & SHAPES

Developed to facilitate precision sectioning applications in Industry and Research, ULTRASLICE Precision Saw provides the user with a unique combination of features:

#### VERSATILE SAMPLE HOLDING

The system may be readily converted to handle sample cutting requirements of most shapes, sizes, and applications – e.g. transverse and longitudinal slicing, right through to dicing.

#### CUTTING ACCURACY

The use of precision lead screws on all sample feed mechanisms mean that cuts can be positioned accurately. The inbuilt 'Z-spindle' provides the ability to set the blade height 'on the fly'.

#### REPRODUCIBLE RESULTS

All-metal construction and an accurately calibrated and damped spindle movement assures low transmission of vibration to the workpiece. This gives reproducibility of performance for cutting materials of widely varying mechanical properties; from the hardest steels and non-metallics down to delicate crystal materials.

#### VERSATILE CONTROLS

ULTRASLICE has the power and range of blade speeds to achieve higher cutting rates when necessary.

The system features an integral coolant recirculation system which extends blade life and clears cutting debris to improve cutting rate and surface quality

ULTRASLICE can handle sample cutting requirements of all shapes, sizes and applications. Samples may be presented to the blade with table attachments (X, Y, W, and Z direction accessories).

The system accepts a wide range of O.D. diamond and abrasive blades for standard cutting, and is readily adaptable to accept special 'dicing' blades for the smallest kerf.



#### Product Highlights



Ultimate Versatility – the ULTRASLICE platform provides work-holding and machine variables to enable most cutting jobs.



Long-cuts and dicing modes also possible



Motorized table provides unattended operation



Provides 'end of the line' capability for manufacturers / labs already with larger production units



Intuitive and easy to use

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### Product Specifications

System Order Code	8560.3
Power Requirements	110 - 240V, 50 / 60 Hz
Spindle Speed	Fully variable up to 6,000 rpm
Spindle Size	0.5 inches (12.7 mm)
Standard Stages	Motorized Y, lead screw-fed X (indexing) and Z-spindle (blade height)
Cutting Modes	Preset Constant Speed
Footprint	25 inches (wide) x 18 inches (high) x 25 inches (length)
Unit Weight	110 lbs (45 kg)

### Key Accessories

Order Code	Details
6004.1	Theta Stage
3541.8	Table Mounting Plate, with Quick Release interface
3575.1	Vise (for samples up to 2" dia.)
1301.5	Lamp

### Saw Blades

Order Code	Details	Application
7412.1	4 inch o.d., 0.5 inch arbor, 0.012" inches (over diamond) thickness – premium metal-bond blade	Standard Blade for a wide range of sample types
7312.1	3 inch o.d., 0.5 inch arbor, 0.012" inches (over diamond) thickness – premium metal-bond blade	Standard Blade for a wide range of sample type

Note: We offer a wide range of blades for specialist applications. Please ask for more details.

Represented in your area by:

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