

BUEHLER® ISOMET® 5000 LINEAR PRECISION SAW

- Expands Upon the Capabilities of the ISOMET 4000® Linear Precision Saw by Increasing the Level of Automation
- Automatic Sample Positioning to 2µm via Facia Panel and Automatic Linear Feed Advance and Retract
- 55 Method Programmability Increases Productivity and Sample Consistency
- Automatic Serial Sectioning for Multiple Cuts to Desired Thickness
- Cup Grinding System Provides Automatic Grinding to Target Depth and for Thin Section Preparation
- Compatible with all ISOMET® 4000 Accessories and Vises

ISOMET® 5000

BUEHLER®



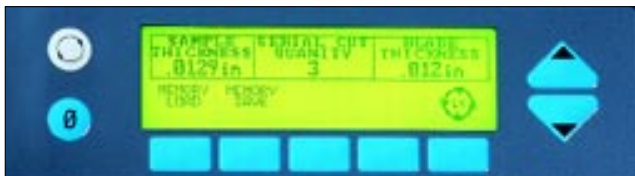
Facia control of sample positioning and blade advance and retract increase productivity and sample consistency. When multiple cuts are needed from the same sample, the automatic serial sectioning feature can be used. Cup grinding (shown above) can grind to target or be used for thin section preparation.



All main controls are located on the first programming screen: Blade Speed, Feed Rate, Distance Remaining (Cutting Length), Cutting Cycle, Blade Motor On/Off, Pump Motor On/Off, and Feed Motor On/Off. When the cutting cycle is activated the LCD displays the total Distance Remaining until the cut is complete. Feed Rate and Blade Speed can be changed by the operator during the cutting cycle at any time.



Input Sample Thickness, Serial Cut Quantity and Blade Thickness for automatic serial sectioning.



Memory Load and Memory Save are accessed from the programming screen.

For a complete listing of Buehler consumable supplies for use with the ISOMET 5000, please refer to Buehler's Consumables Buyer's Guide.

Buehler continuously makes product improvements; therefore, technical specifications are subject to change without notice.

Technical Data

All features of the ISOMET® 4000 Linear Precision Saw plus; Motorized sample positioning to 2µm and ultra precision linear bearings

Programmable Cutting Length with Automatic Advance and Retract:

0.01" - 8", 0.01" increments
(0.25mm - 200mm, 0.25mm increments)

Serial Cut Quantity: 1 - 100

Sample Thickness Settings:

0.0005" - 0.9842", 0.0005" increments
(2µm - 25mm, 2µm increments)

Blade Thickness Settings:

0.012", 0.015", 0.020", 0.025", 0.030", 0.035",
(0.305mm, 0.381mm, 0.508mm, 0.635mm,
0.762mm, 0.889mm)

55 Method Programmability:

20 Customizable Methods

35 Preset Buehler Methods, for a variety of materials including Ferrous Metals, Non Ferrous Metals, Ceramics and Geological Specimens

Specifications

11-2780 ISOMET 5000 Linear Precision Saw, includes 2µm automatic sample positioning system, automatic linear feed advance/retract, one 11-4267 ISOCUT® Wafering Blade, 7" x 0.025" x 1/2" (180mm x 0.6mm x 13mm), 11-2689 Flanges, 11-2683, 11-2684, 11-2686 chucks, 11-2696 Dressing System, sample of ISOCUT® PLUS Cutting Fluid, operating instructions and 2000 hour or two year warranty. For worldwide operation on 85-264V/50-60Hz/1 phase.

11-2781 ISOMET 5000 Linear Precision Saw, same as above except no accessories or blades are included. Purchase accessories to meet individual application.

Accessories and Consumables

11-2710 External Recirculating System for ISOMET 4000 and 5000 Linear Precision Saws (Available Winter 2000)

11-2720 Cup Grinder for Ferrous Metals, Al₂O₃ abrasive, 60 grit (60P), vitrified bond, 6" (150mm) diameter

11-2730 Cup Grinder for Nonferrous Metals, SiC abrasive, 60 grit (60P), vitrified bond, 6" (150mm) diameter

11-2740 Cup Grinder for Ceramic and Geological Specimens, diamond abrasive, 60 grit (60P), resin bond, 5" (127mm) diameter



BUEHLER

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