

NEW

BUEHLER®

PlanarMet® Coarse Grinder

- **Planar Coarse Grinder Provides First Step Quick Material Removal**
- **Automatic Sample Preparation**
- **High-Torque and Durable 10Hp (7.5kW) Motor**
- **Easy-to-Use Control Panel**
- **8" (200mm) Stone Cup Requires Minimal Dressing**
- **Controlled Material Removal by Depth**
- **Sliding Enclosure for Operator Safety**
- **Cleaning Hose Mounted Outside**
- **Built-in Fume Extrator and Mist Filter**
- **15 Gallon (60ℓ) Re-circulation Coolant and Filter System Included**
- **Mechanical Vertical Drive Provides Accurate Control and Does Not Require Compressed Air**
- **Heavy-Duty Cast Iron Base**
- **T-Slot Table and Optional 3-Jaw or Magnetic Table Secures a Variety of Vises, Specimen Holders and Part Geometries**
- **Adjustable Load and Feed-Rate Control**
- **High Quality Flat Specimen Surface Preparation Every Time**



PRELIMINARY DRAFT


BUEHLER

Designed for Large & High Volume Sample Preparation



Planar Coarse Grinder

Buehler's PlanarMet® Coarse Grinder is designed for first step initial planar grinding of metallographic samples, as a prelude to further processing by Buehler® Sum-Met™ or conventional sample preparation methods. It can be used with a wide variety of large specimen sizes and geometries. The high-torque motors can prepare a large volume of specimens. Material removal can be set from 0.200" to 0.001" (0.02-5mm). It is engineered with preloaded precision bearings, balanced armatures, and sealed housing for continuous-duty grinding applications and long life.

Easy-to-Use Controls

The auto-feed grinding cycle control features a graduated feed dial for setting feed amount and grind depth. Other functions include rapid head positioning, spindle & table controls, and grinding cycle startup. Operating controls are grouped for logical access to

manual and automatic machine functions. Easy-to-use analog controls such as head up/down, auto-feed on/off, spindle load limit, and feed rate are simple to understand and easily adjustable.

Vises and Specialized Specimen Securing Systems

Supplied with T-slot table, an optional three-jaw vise is designed to secure most specimen holders and un-mounted samples. The optional electromagnetic chuck provides a magnetic surface for optimum holding power of most ferrous samples.

Coolant Filtration System

A recirculating coolant system is included and is conveniently stored in the floor mount cabinetry. The 100 micron pre-filter separates swarf from coolant for consistent grinding performance and lab cleanliness.



Buehler specimen holders accommodate a wide variety of applications.



Unique 3-jaw chuck provides solutions for irregularly shaped samples.



Aluminum oxide cup grinding stone is engineered for long-lasting material removal.



Diamond cup grinding stone.



Magnetic chuck secures ferrous samples quickly and easily.



Easy-to-use control panel with analog buttons.

Specifications

Grinding Motor
10 Hp (7.5kW), 1750 RPM

Rotary Table Motor
1 Hp (750 Watts), 34 RPM

Power Head Motor
0.5 Hp (375 Watts)

Grinding Wheel Diameter
8" (203mm) maximum

Sample Size Diameter
15.5" (400mm) maximum

Coolant Pump
20 GPM (80 liter per minute)

Clearance Under New Wheel
7" (180mm)

Feed System
Manual hand-wheel with 0.001" (0.02mm) graduations, 0.200" (5mm) per hand-wheel rotation.
Auto-feed system with variable feed-rate.

Dimensions
5' W x 3' D x 6' H
(1.5m W x 1m D x 2m H)

Net Weight
1500 lbs (680kg)

Order Information

The Buehler PlanarMet Coarse Grinder includes a full enclosure, fume extractor/mist ventilation filter, recirculating system and operating instructions.

49-7260-230*, 230 VAC, 60Hz, 3 phase, 40 Amp

49-7260-460*, 460 VAC, 60Hz, 3 phase, 20 Amp

Accessories

49-7270 8" grinding stone, silicon carbide

49-7271 8" grinding stone, aluminum oxide

49-7272 8" grinding stone, diamond

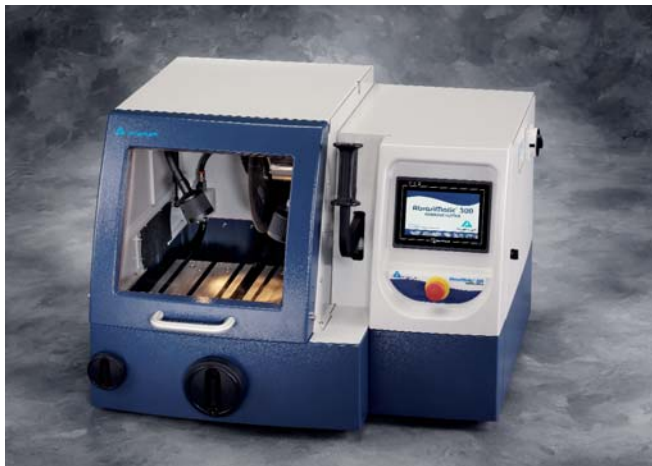
49-7273 3-jaw chuck

49-7274 Magnetic chuck

49-7276 8" grinding stone, ceramic/aluminum oxide

10-4330-128 CoolMet® 2 Cutting Fluid, 1 gallon (3.8ℓ)

49-7275 Replacement recirculating system filters (pk 50)



Delta® AbrasiMatic® 300 Abrasive Cutter



EcoMet® 300 Grinder-Polisher / AutoMet® 300 Power Head

* Specify magnetic table if required

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

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*For metallurgical equipment produced by BUEHLER LTD. USA



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