

**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

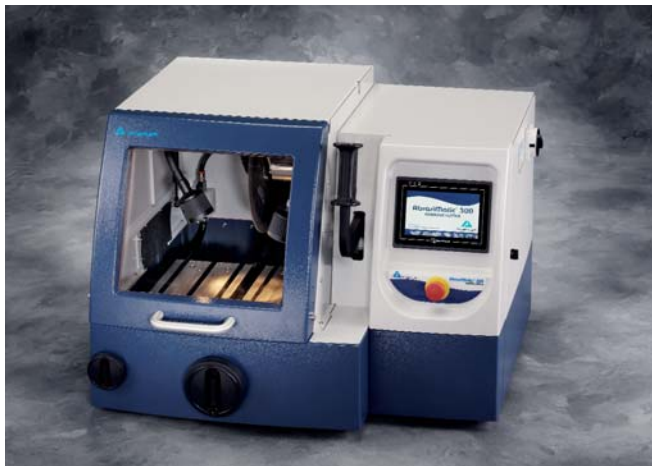
**49-7273** 3-jaw chuck

**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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