

GRINDER



**BUEHLER®
SUPERMET®**

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SUPERMET® GRINDER

- **High Speed Coarse Grinder that is Ideal for Metallographic, Spectrographic, and Hardness Test Sample Applications**
- **Safe Locking Wheel Guard and Adjustable Water Flow**
- **Balanced Bronze Wheel for Easy Grinding of Large Samples**
- **CARBIMET® Silicon Carbide and ZIRMET® Grinding Discs Suit All Grinding Applications**
- **Versatile Floor-Model and Flush Mount Systems**
- **Accessory Door Kits**

SUPERMET® Grinder

The BUEHLER® SUPERMET® Grinder is a heavy-duty rotary coarse grinder with rapid material removal rates designed to generate initial flat specimen surfaces. The SUPERMET Grinder is fitted with a balanced bronze wheel driven by an 1800 rpm, 3HP (2.2 KW) motor. A locking wheel guard with a center water coolant inlet fully protects the operator. Both adhesive (PSA) and plain backed CARBIMET® Silicon Carbide and ZIRMET™ Discs are available for use with the SUPERMET.

Metallographic: Metallographic sample preparation requires coarse grinding to remove burrs and deformation caused by sectioning, while maintaining flatness and minimizing the introduction of new distortion. The SUPERMET Grinder meets all of these requirements with abrasive discs of varying grit sizes and high water flow at the center of the wheel.

Spectrographic and Hardness Tests: Spectrographic analysis and Hardness tests require a flat distortion free sample, with all scale, oxide and other contaminants removed. The SUPERMET Grinder meets these requirements with a fast, powerful motor and high material removal rate. The high water flow rate allows grinding of large, rough pieces, typical of spectrographic samples without heat buildup.

15-1230 SUPERMET Grinder, with 12" (305mm) balanced bronze wheel, corrosion resistant bowl, wheel guard, stainless steel sink with faucet, 3HP (2.2 KW) motor with magnetic brake, mounted on 30" (762mm) TECH-MET® Grinder Polisher Table. Push button operated magnetic starter with reset.

15-1231 SUPERMET Grinder, same as 15-1230, except mounted in a 36" (914mm) table.

15-1232 SUPERMET Grinder, same as 15-1230, except flush mount system for installation into customers' own table.

Technical Data

Dimensions:

Model #	Table		Backsplash	
	Height	Height	Length	Width
15-1230	30" (762mm)	38" (965mm)	30" (762mm)	27" (686mm)
15-1231	36" (914mm)	44" (1118mm)	30" (762mm)	27" (686mm)

Grinder

Model #	Table Height	Backsplash Height	Length	Diameter
15-1232	22¼" (565mm)	Height	15¾" (400mm)	Diameter

Shipping Weight:

15-1230: 250 lbs. (114kg)
 15-1231: 280 lbs. (127kg)
 15-1232: 200 lbs. (91kg)

Accessories

No. 48-8380 Door Kit, for 15-1231 SUPERMET Grinder, 36" (914mm) System

No. 48-8381 Door Kit, for 15-1230 SUPERMET Grinder, 30" (762mm) System

No. 48-8382 Metric Water Connector Kit, for SUPERMET Grinder, includes 6mm O.D. tubing and metric water connector.

No. 15-4042 Bronze Wheels, 12" (305mm) for SUPERMET Grinder.

Grinder Selection Table

Catalog Number	Configuration	Power
15-1230-260	30" (762mm) table	220V, 60Hz, 3φ
15-1230-350	30" (762mm) table	380V, 50Hz, 3φ
15-1230-460	30" (762mm) table	440V, 60Hz, 3φ
15-1231-260	36" (914mm) table	220V, 60Hz, 3φ
15-1231-350	36" (914mm) table	380V, 50Hz, 3φ
15-1231-460	36" (914mm) table	440V, 60Hz, 3φ
15-1232-260	Flush Mount	220V, 60Hz, 3φ
15-1232-350	Flush Mount	380V, 50Hz, 3φ
15-1232-460	Flush Mount	440V, 60Hz, 3φ

Consumables

A variety of BUEHLER grinding papers are compatible with the SUPERMET Grinder.

Grit Size	CARBIMET Plain Backed	CARBIMET PSA Backed	ZIRMET PSA Backed
	12" x ½" (305 x 13mm) (100 discs per box)	12" (305mm) (100 discs per box)	12" (305mm) (25 discs per box)
60	15-5122-060-100	15-5112-060-100	15-5132-060-025
120	15-5122-120-100	15-5112-120-100	15-5132-120-025
180	15-5122-180-100	15-5112-180-100	15-5132-180-025
220	N/A	N/A	15-5132-220-025
240	30-5122-240-100	30-5112-240-100	N/A
320	30-5122-320-100	30-5112-320-100	N/A
400	30-5122-400-100	30-5112-400-100	N/A
600	30-5122-600-100	30-5112-600-100	N/A

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