

# BUEHLER® DuoMet® 2 & SurfMet® 1 METALLOGRAPHIC AND SPECTROGRAPHIC BELT SURFACERS

- Recessed 4" x 9" (10 x 23cm) Grinding Tables with Belt Guards
- Built-in Flushing Systems and Stainless Steel Sinks
- Fast, Easy Belt Installation with Non-slip Belt Mechanism and Fingertip Centering
- Corrosion-resistant Stainless Steel Belt Compartments and Piping
- Convenient On/Off Switch with Indicator Light
- Accessory Recirculating and Vacuum Dust Removal Systems for Wet or Dry Grinding
- Accessory Switch Activates Outlet on Back
- Water Flow Control Knob



**Buehler DuoMet® 2 and SurfMet® I Belt Surfacers** make grinding metallographic or spectrographic samples easy and efficient. Available in dual or single belt units, the DuoMet 2 and SurfMet I, respectively, feature ½ and ⅓ horsepower (373 and 249W), heavy-duty, fused motors for superior durability and performance. Replaceable stainless steel wear plates are designed to maximize machine life. Separate belt flushing and coolant controls guarantee adequate removal of particulate matter from the grinding belt, for efficient cutting action, while providing critical specimen cooling. The stainless steel sink with faucet allows the convenience of quickly grinding and washing the specimen in one location; this feature is particularly useful between coarse and fine grinding steps and for production applications.

The DuoMet 2 and SurfMet I Belt Surfacers are offered as tabletop models or floor models mounted on sturdy Tech-met® tables with chemical-resistant laminate tops. The optional recirculating system utilizes a corrosion inhibiting lubricant that extends machine life, provides faster, cleaner grinding, and collects swarf for environmentally correct disposal. The optional VacuMet® Vacuum Dust Collection System provides safe, dry grinding operation\* and dust collection.

### Specifications

**16-1290-160 DuoMet 2 Belt Surfacers, tabletop model,** corrosion-resistant modified epoxy coated cabinet, two 4" x 9" (10.2cm x 22.9cm) grinding areas, cam operated belt centering devices, dual belt coolant, compartment flushing system, stainless steel sink with faucet, illuminated on-off switches for motor and accessory outlet, 115V/60Hz/1 phase, ½ Hp (373W) fused motor and accessory outlet. Includes four No. 16-5200 CarbiMet® MetSplice® Abrasive Belts and operating instructions. Dimensions: 24" W x 21" D x 11" H (61 cm x 53cm x 28cm). Shipping weight: 160 lbs. (73kg).

**16-1295-160 DuoMet 2 Belt Surfacers, floor model,** same as 16-1290-160 plus sturdy TechMet Cabinet, heavy-gauge steel construction, chemical-resistant laminate tops, leveling feet for ease of installation, recirculating system, hose and connector kit. Dimensions: 31" W x 27" D x 41" H (79cm x 69cm x 104cm). Shipping weight: 400 lbs. (182kg).

**16-1290-250 DuoMet 2 Belt Surfacers, tabletop model,** same as 16-1290-160, but for operation on 220-240V/50Hz/1 phase.

**16-1295-250 DuoMet 2 Belt Surfacers, floor model,** same as 16-1295-160, but for operation on 220-240V/50Hz/1 phase.

**16-1270-160 SurfMet I Belt Surfacers, tabletop model,** corrosion-resistant modified epoxy coated cabinet, 4" x 9" (10.2cm x 22.9cm) grinding area, cam operated belt centering device, belt coolant, and compartment flushing system, stainless steel sink with faucet, illuminated on-off switch, 115 V/60Hz/1 phase, ⅓ Hp (249W) fused motor. Includes three 16-5200 CarbiMet MetSplice Abrasive Belts and operating instructions. Dimensions: 18" W x 21" D x 11" H (46cm x 53cm x 28cm). Shipping weight: 95 lbs. (43kg).

**16-1270-250 SurfMet I Belt Surfacers, tabletop model,** same as 16-1270-160, but for operation on 220-240V/50Hz/1 phase.

### Accessories

**10-1250-160 Recirculating System,** including baffled and compartmented tank, 115V/50-60Hz/1 phase, ⅓ Hp (50W) motor connected directly to pump. Dimensions: 13" W x 21" D x 16" H (3cm x 53cm x 41cm). Shipping weight: 75 lbs. (34kg).

**10-1250-250 Recirculating System,** same as 10-1250-160, but for operation on 220-240V/50Hz/1 phase.

**16-1279 Copper Wear Plate Retrofit Kit,** for Dry Grinding Applications.

**16-1278 Wear Plate Replacement Kit,** for Belt Surfacers.

**16-3180 Hose and Connector Assembly,** for connection of DuoMet 2 tabletop model to Recirculating System.

**16-3170 Hose and Connector Assembly,** for connection of SurfMet I tabletop model to Recirculating System.

**16-3100-160 VacuMet Dust Removal System,** complete with industrial grade vacuum cleaner, adapter for connection to SurfMet I or DuoMet 2 Belt Surfacers, 115V/60Hz/1 phase, operating instructions. (Not available for operation on 220V/50Hz/1 phase.)

**16-1498 TechMet Cabinet,** for use with all Buehler tabletop belt surfacers. Includes heavy duty TechMet metal base cabinet, chemical-resistant laminate top, with plumbing and electrical service access holes, leveling feet for ease of installation. Overall dimensions: 28½" W x 27¼" D x 30" H (72 x 70 x 76cm). Approximate shipping weight: 132 lbs. (60kg).

\* Contact Buehler for dry grinding operation recommendations.

For a complete listing of consumables, please refer to our Consumables Buyer's Guide. 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

**BUEHLER ANALYST®  
SECTION**

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