

NEW PRODUCT BULLETIN

Neue Produkte
Bulletin de nouveaux produits
Boletín de nuevos productos



No. 15-1226 2 UNIT SUPERMET shown with No. 48-3182 lower and No. 48-3072 upper cabinets (optional).

BUEHLER SUPERMET® A FIRST STAGE COARSE GRINDER



No. 15-1205 SUPERMET

The Buehler Supermet is a heavy duty coarse grinder fitted with a twelve inch diameter balanced bronze wheel driven at 1800 RPM by a three horsepower motor. The operator is fully protected by a locking wheel guard, the center of which serves as the water coolant inlet. Either adhesive (PSA) or non-adhesive

backed Silicon Carbide abrasive discs are used for grinding a wide range of materials in a variety of applications including spectrographic, metallographic and preparation of samples for Rockwell or Brinell type hardness tests.

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BUEHLER LTD.

APPARATUS FOR MICROSTRUCTURAL ANALYSIS

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BUEHLER LTD.

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BUEHLER SUPERMET®

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SPECTROGRAPHIC

Spectrographic analysis requires a sample that is flat and free of distortion, with all scale, oxides and other contaminants removed. The Supermet was originally designed for coarse grinding of steel samples for spectrographic analysis and is ideally suited for this application. The rapid material removal assures a minimum of time expended per sample while the high water flow provides proper cooling and adequate disposal of removal products. The three horsepower motor permits grinding of the large rough pieces typical of spectrographic samples.

METALLOGRAPHIC

Metallographic sample preparation requires that coarse grinding remove the deformation caused by sectioning, while maintaining flatness and minimizing new distortion. By design the Supermet meets all of these requirements. The twelve inch diameter abrasive discs are available in 60, 120 and 180 grit for fast material removal and eliminate the seam and "bump" associated with belts. The heavy water flow assures that cooling will be adequate to prevent deformation caused by overheating.

HARDNESS TESTS

A flat sample free of surface artifacts is required for accurate hardness measurements. The use of the Supermet assures that samples being ground prior to hardness testing will be flat, clean and free of surface damage caused by grinding. Supermet grinding on a 60 or 120 grit disc will provide an excellent sample for either Rockwell or Brinell type hardness tests.



The Supermet Grinders are available in one or two unit models installed in attractive, sturdy metal tables with Formica® tops in either 30" or 36" high versions. All units are supplied with corrosion resistant bowls, push button operated magnetic switches with reset, and magnetic brakes. Starter circuits operate on 115 volt, 60 Hz., single phase or 220 volt, 50 Hz., single phase current. The 3HP motors are available with 220 or 440 volt, 60 Hz., 3 phase and 380 volt, 50 Hz., 3 phase as standard equipment. Other electrical specifications available on special request. Both overhead and lower cabinets are available for storage of abrasives and accessories.

SUPERMET GRINDERS AND CABINETS

Table	Grinders	Overall Dimensions	Approx. Weight	Lower Cabinet	Wall Cabinet
1 Unit 30" high (76 cm)	15-1205	28½" W x 27½" D x 38" H (72 x 70 x 97 cm)	400 lbs. (181 kg.)	48-3171	not available
1 Unit 36" high (91 cm)	15-1206	28½" W x 27½" D x 44" H (72 x 70 x 107 cm)	415 lbs. (188 kg.)	48-3181	not available
2 Unit 30" high (76 cm)	15-1225	52½" W x 27½" D x 38" H (133 x 70 x 97 cm)	600 lbs. (272 kg.)	48-3172	48-3072
2 Unit 36" high (91 cm)	15-1226	52½" W x 27½" D x 44" H (133 x 70 x 107 cm)	620 lbs. (281 kg.)	48-3182	48-3072

NO. 15-4042 BRONZE WHEEL, 12" for Supermet Grinder, with square drive, spare.

CARBIMET® GRINDING PAPERS

Grit	12" (PSA)	12" x ½"
60	15-5112-060-100	15-5122-060-100
120	15-5112-120-100	15-5122-120-100
180	15-5112-180-100	15-5122-180-100