BUEHLER
AUTOMET®
ATTACHMENT

The AUTOMET® Attachment enables all sample preparation stages from fine grinding through final polishing to be accomplished semi-automatically with minimal operator training. This unit is recommended for use with all BUEHLER 8" (20.3 cm) LOW SPEED™ Polisher/Grinders, as well as most ECOMET® models. The AUTOMET® can be utilized with specimen holders for various sample sizes and shapes, including wafer preparation. A wide selection of wheels and laps is available for special applications.

Multiple mounted specimens, from six 1" (2.5 cm) to five 1¼" (3.2 cm) and three 1½" (3.8 cm) diameter, are locked in a specimen holder through all the grinding and polishing stages of sample preparation. The holder is gear-driven in a direction opposite to that of the wheel rotation, at a relative speed to prevent directional polishing. The holder rotates at approximately ⅓ of the wheel speed employed.

In addition to holders for each of the mounted specimen sizes, holders for wafers as well as for unmounted samples, with rectangular or tear drop openings, are available. The appropriate

specimen holder must be selected. The three holders for mounted specimens also require a corresponding pressure plate.

The AUTOMET® Attachment has a convenient spring loaded pressure control system, variable between 0-60 pounds (0-27 kg) corresponding to graduated lines on the adjusting drum. Adjustable pressure may be applied at any time during the preparation cycle.

For practical microscopic inspection of specimens in the specimen holder prior to removal, a convenient stage adapter is available. The specimen holder is rotated on the stage adapter to bring one specimen after another into the field of view.

Pressure sensitive CARBIMET® abrasive paper and polishing cloth with a pre-cut 2½" (6.4 cm) center hole are used with the AUTOMET® Attachment. A selection of metal or resin bonded diamond grinding wheels and discs is also available for the AUTOMET®.

AUTOMET®

Three-unit TECH-MET® Table with 3 LOW SPEED™
Polisher/Grinders and 3 AUTOMET® Attachments

SPECIFICATIONS

No. 60-1900 AUTOMET® ATTACHMENT with 8″ (20.3 cm) balanced Bronze Wheel, post and gear, cloth clamp, swivel and loading bases, splash ring, coolant dispenser and dust cover. Samples of CARBIMET® paper and polishing cloth. Without Specimen Holder and Pressure Plate. *(Select desired holder and pressure plate from chart below.)* Operating instructions.

Overall dimensions: 8″ W x 5″ D x 9″ H
(20 x 13 x 23 cm)

Approx. shipping weight: 70 lbs. (32 kg)

No. 60-1901 AUTOMET® ATTACHMENT BODY, with mounting cap and indexing finger knobs, without Bronze Wheel and all other accessories. *(For additional Wheels see chart below.)*

60-2142 Specimen Holder
with specimens

60-2551 and 60-2553
Specimen Holders with
specimens

ACCESSORIES

No. 60-2000 DRIVE POST AND GEAR

No. 60-2045 STAGE ADAPTER FOR AUTOMET® Specimen Holders, hard coated aluminum, with pivot post.

No. 60-2048 INDEXING SPLASH RING, 8″ (20.3 cm).

No. 60-2060 DUST COVER

No. 60-2260 COOLANT DISPENSER, metal, for AUTOMET®.

Assorted AUTOMET® Specimen Holders and
Pressure Plates

SPECIMEN HOLDERS & PRESSURE PLATES*

TYPE	SPECIMEN HOLDER	PRESSURE PLATE
1″ (2.5 cm)	60-2041	60-2011
1¼″ (3.2 cm)	60-2142	60-2112
1½″ (3.8 cm)	60-2243	60-2213
Blank (Wafer)	60-2244	
Rectangular	60-2251	
Tear Drop	60-2253	

*At least one set required with AUTOMET®
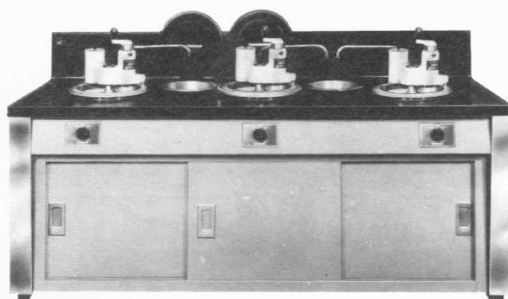
EIGHT INCH (20.3 cm) WHEELS With Post & Gear
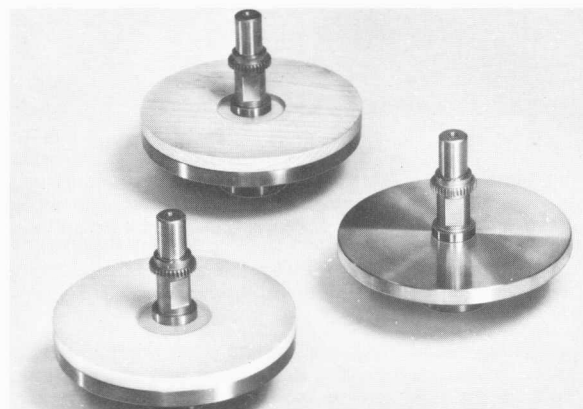
Assorted AUTOMET® Wheels and Laps

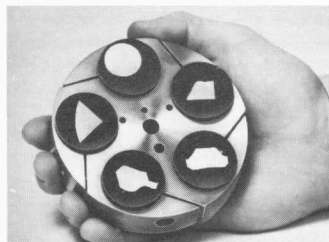| SURFACE	ALUMINUM	BRONZE	CAST IRON	COPPER	LEAD	STAINLESS STEEL
Plain	60-4018*	60-4028*	60-4008	60-4318	60-4258	60-4278*
Spiral Grooved					60-4248	
Glass Faced		60-4208				
UNIWAX™		60-4218**				
For Special Laps	60-4024	60-4038				

*with No. 40-2058 Cloth Clamp
**with No. 67-2058 High Clamp and one pound (0.45 kg) No. 40-3100 UNIWAX™
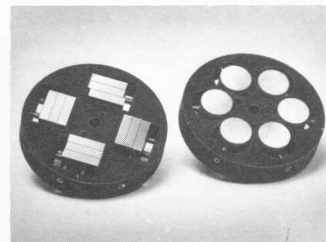
SPECIAL LAPS FOR USE WITH No. 60-4024 & 60-4038 WHEELS
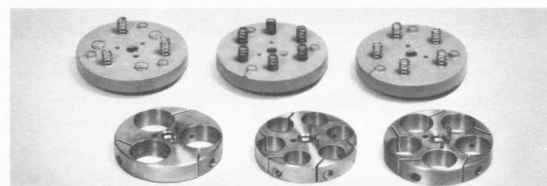
MAPLE	POLYETHYLENE	MICARTA
60-4088	60-4098	60-4118