At Universal Photonics you will find an impressive variety of portable machinery and measurement tools used in all phases of precision optics processing. We insist that each and every item we offer meets a stringent set of quality guidelines including:

- ✓ INDUSTRIAL-GRADE PERFORMANCE
- ✓ CONSISTENT, REPEATABLE RESULTS
- ✓ HIGHLY-EFFICIENT DESIGN
- ✓ STAND ALONE OR RETRO-FIT EXISTING SYSTEMS
- ✓ BUILT TO LAST
- ✓ RUGGED & DURABLE
- ✓ COMPACT FOOTPRINT
- ✓ USER FRIENDLY

From monochromatic light sources and ultrasonic cleaners, to spherical surface grinders and rapid edge chamfering machines, our goal is to bring the most efficient, advanced technology to the precision lab.

ttmachmeasure/0714

Our extensive line of premium consumables and equipment bring the precision of semi-conductor technology to the optics industry.

Engineered to consistently deliver higher tolerances and yields, our products have been at the forefront of innovative polishing applications for eighty years.

Universal Photonics specializes in total polishing systems, including polishes and pads. Our R&D people will work with you to develop a customized system for your unique application. All projects are treated with professional confidentiality.

For further technical information and sales inquiries, please contact your regional sales representative, or our friendly customer service staff.

UNIVERSAL PHOTONICS
INCORPORATED

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Optical Processing

Table-top Machines and Measurement Apparatus

Advanced Surfacing Products & Technology

Optical Processing: Table-Top Machines and Measurement Apparatus

Here is a sampling of our most popular items. If you do not see exactly what you're looking for, please contact us directly for additional products and information. Chances are we have exactly what you need.

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Scratch & Dig

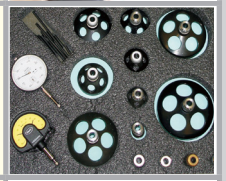
Ideal qualitative control and visual identification of surface defects; delivering and maintaining accurate standards in varying light levels and angles of view.

Digital, Infrared Thermometer

Provides safe, non-contact readings—measure moving targets, targets too hot to touch, or targets in difficult to reach areas. Extremely fast results—95% response in only 1/2 sec.

Spherometer Ring *Set Includes:*

- 13 Spherometer Rings (#01 to #13)
- 1 Clock Gauge - readings to 0.01 mm
- 10 Extensions for key pegs of clock gauges
- 1 Wooden Box



UniLamp

Complete line of monochromatic green lamps, UniLamps low cost and long life make them practical to have at several plant inspection stations.

Refractometer

Handheld refractometer used for measuring refractive index.

- Range: 1.435-1.520 nD
- Resolution: 0.001

Baumè Kit *Includes:*

Required lab apparatus for improving surface quality with minimum fining and polishing times.

- Hydrometer for baumè 0° - 25°
- pH Paper • Graduated Cylinder

Mirror Blanks & Optical Flats

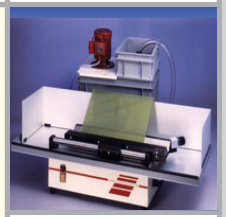
Full thickness Pyrex mirror blanks are molded and fine annealed. Optical test flats certified to 1/10, 1/15, or 1/20 wavelength flatness.

RD Chamfering

Rapid edge chamfering for rounded parts from a wide range of materials. Industrial-grade performance with easy-to-use vacuum chucking system and circulating slurry pump.

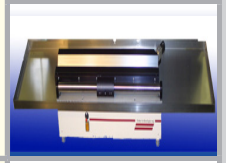
DAMA 450 Chamfering

Meets demands for facet quality and accuracy of straight or prismatic bodies. Prism carriage design eliminates scratching and provides access to smoothing wheel and cooling. Adjustable speeds; diamond tools of varying grains available.



DAMA 750 Chamfering

Appropriate extensions and adaptations make this larger (750mm) model particularly suitable for machining glass parts.



Cut-Off Saw

Precision built, universal cutting machine, capable of both through-feed and down-feed operation. 3 HP 220/480 volt motor mounted in a rugged machine base, with stainless steel components. Equipped to run 14" blade (16" with special order).

Agitated Pitch Pots

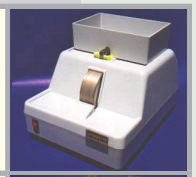
Available in 1, 5, 10, 25, 50 and 500 gallons. Automatic thermostat control 150° - 550° F; 30 RPM motor-driven, bottom wiping-type stirrer. Tanks equipped with quick-opening, heated ball valves. Agitator motors controlled by a manual switch with thermal electric overload protection.

Wax Dropper

For wax dropping applications. Guided valve feature provides finger-tip regulation of quantities dropped. Standard nozzle opening 1/8 inch. Other openings available on request. Capacities range from 1 pt. to 2 qts.

Diamond Hand Edger

The compact design, less than 10" wide, make this the ideal edger for the professional office or lab.



Auto Lens Edge Polisher

Will transform the "satin" finish of an auto-edger to a brilliant, high luster polish for all lens types in 15 seconds.

Fiber Optic Polisher

Designed for small-scale, fiber optic production, this unit can be used as a retro-polishing machine, singly, or in tandem.

Auto Groover

The world's most popular style auto groover has four precision control settings and is corrosion free.

Spherical Surface Grinder

Plug in and go to work. Completely portable; no holes to drill or cut out. Emery-proof spindle, no gadgets to get out of order, no lubrication necessary. 12" diameter tool capacity. Built to last.

Auto Stirrer

Comprised of three parts; motor drive and controller, upper portion supporting glass bottle containing slurry in position relative to the motor driven magnet; and magnetic stirrer bar, placed inside glass bottle. Auto mister shown is optional.

UltraSonic Cleaner

Available in variety of sizes from one quart to 1 1/2 gallons, this machine provides state-of-the-art technology for maximum cleansing.