



FUSED-QUARTZ OPTICAL FLATS & MONOCHROMATIC LIGHTSOURCES

- For over 50 years, Lapmaster has served the precision optics industry through innovative design and manufacture of high-quality precision finishing systems and solutions. Our equipment and expertise is well known throughout the industry and serves some of the most demanding optics & electro-optics labs worldwide.



Various Diameter Quartz Optical Flats



MLS Monochromatic Light Source

OPTICAL FLAT FEATURES

- Lapmaster offers a wide range of **Optical Flats** that complement our **Monochromatic Light source** systems
- Our **Optical Flats** (1-sided or 2-sided) are available in standard diameters starting at 1" and go thru to 12"
- We offer **Fused Quartz** as our primary material (best overall accuracy due to thermal stability), although **Pyrex** and **Zerodur** materials are supplied upon request
- Concerning "specialty products," we offer custom sizes made to order with various configurations including squares, rectangles and donuts, as some examples. Custom/irregular thickness is also available.
- Lapmaster also offers a service-life enhancing (scratch-resistant) "hard coat" (deposition film) option for our **Optical Flats**
- In addition, two (2) "after-market" services offered are **Surface Refinishing-Reconditioning** and **ISO-9000 compliant Re-Certification/Inspection**.

CP-MLS MONOCHROMATIC LIGHT SOURCE

- Lapmaster **Monochromatic Light Sources** and **Optical Flats** are used for fast and accurate optical inspection of lapped surface flatness
- Our **Monochromatic Light sources** are available in both 115V and 220V versions. The systems sold to support maximum diameters of 6", 12", 13" or 16".
- The Lapmaster light sources are also available in configurations that support either **Helium Gas lighting** (CP series) or **Sodium Vapor lighting** (MLS series).
- We also offer a standard "line of sight" model (optical flat on the part) or the low-distortion "reflex viewer" model (part on the optical flat, optimum for parts that easily distort).
- The Lapmaster **Monochromatic Light Sources** are rugged & durable, yet compact and light enough to be easily transported from one area to another, as needed.

LAPMASTER PART NUMBERS:

| Monochromatic Lights | | | |
|----------------------|----------------------------|--|--------------------|
| Description | | | Part Number |
| CP-1 | (110 V, 50/60 Hz.) 11 x 14 | (Holds up to 12" Diameter Optical Flats) | LAP5-0010-004-0161 |
| CP-2 | (110 V, 50/60 Hz.) 6 x 10 | (Holds up to 6" Diameter Optical Flats) | LAP5-0010-004-0155 |
| MLS- 8 | (110 V, 50/60 Hz) | (Holds up to 13" Diameter Optical Flats) | LAP5-0010-004-0357 |
| MLS-8 | (220 V, 50 Hz) | (Holds up to 13" Diameter Optical Flats) | LAP5-0010-004-0363 |
| MLS-16 | (110 V, 50/60 Hz) | (Holds up to 16" Diameter Optical Flats) | LAP5-0010-004-0343 |

| Double-Sided Quartz Optical Flats* | | | |
|---|--------------------------|------------|--------------------|
| Description | | Resolution | Part Number |
| 1" Diameter: | 1/2 Light Band Accuracy | (.000005") | LAP5-0009-001-0125 |
| 1" Diameter: | 1/5 Light Band Accuracy | (.000002") | LAP5-0009-001-0122 |
| 1" Diameter: | 1/10 Light Band Accuracy | (.000001") | LAP5-0009-001-0121 |
| 2" Diameter: | 1/2 Light Band Accuracy | (.000005") | LAP5-0009-001-0225 |
| 2" Diameter: | 1/5 Light Band Accuracy | (.000002") | LAP5-0009-001-0222 |
| 2" Diameter: | 1/10 Light Band Accuracy | (.000001") | LAP5-0009-001-0221 |
| 3" Diameter: | 1/2 Light Band Accuracy | (.000005") | LAP5-0009-001-0325 |
| 3" Diameter: | 1/5 Light Band Accuracy | (.000002") | LAP5-0009-001-0322 |
| 3" Diameter: | 1/10 Light Band Accuracy | (.000001") | LAP5-0009-001-0321 |
| 4" Diameter: | 1/2 Light Band Accuracy | (.000005") | LAP5-0009-001-0425 |
| 4" Diameter: | 1/5 Light Band Accuracy | (.000002") | LAP5-0009-001-0422 |
| 4" Diameter: | 1/10 Light Band Accuracy | (.000001") | LAP5-0009-001-0421 |
| 5" Diameter: | 1/2 Light Band Accuracy | (.000005") | LAP5-0009-001-0525 |
| 5" Diameter: | 1/5 Light Band Accuracy | (.000002") | LAP5-0009-001-0522 |
| 5" Diameter: | 1/10 Light Band Accuracy | (.000001") | LAP5-0009-001-0521 |
| 6" Diameter: | 1/2 Light Band Accuracy | (.000005") | LAP5-0009-001-0625 |
| 6" Diameter: | 1/5 Light Band Accuracy | (.000002") | LAP5-0009-001-0622 |
| 6" Diameter: | 1/10 Light Band Accuracy | (.000001") | LAP5-0009-001-0621 |
| 8" Diameter: | 1/2 Light Band Accuracy | (.000005") | LAP5-0009-001-0825 |
| 8" Diameter: | 1/5 Light Band Accuracy | (.000002") | LAP5-0009-001-0822 |
| 8" Diameter: | 1/10 Light Band Accuracy | (.000001") | LAP5-0009-001-0821 |
| 10" Diameter: | 1/2 Light Band Accuracy | (.000005") | LAP5-0009-001-1025 |
| 10" Diameter: | 1/5 Light Band Accuracy | (.000002") | LAP5-0009-001-1022 |
| 10" Diameter: | 1/10 Light Band Accuracy | (.000001") | LAP5-0009-001-1021 |
| 12" Diameter: | 1/2 Light Band Accuracy | (.000005") | LAP5-0009-001-1225 |
| 12" Diameter: | 1/5 Light Band Accuracy | (.000002") | LAP5-0009-001-1222 |
| 12" Diameter: | 1/10 Light Band Accuracy | (.000001") | LAP5-0009-001-1221 |
| Stated Accuracy in light bands (0.0000116") | | | |
| All prices include carrying case | | | |
| Prices on special sizes and donut flats on request | | | |
| *Single-side accuracy will be 20% less from above double-side accuracy list price (above prices x 0.8) | | | |
| Re-surfacing services available at a rate of 70% of the new Optical Flat list price | | | |



Lapmaster International
 501 W. Algonquin Road
 Mt Prospect, IL 60056 USA
 Phone: (224) 659-7101
 Fax: (224) 659-7103
 Toll Free: 1-877-352-8637
 Web Site: www.lapmaster.com