

**MLS-01:** Optical Flat to be placed on the specimen surface to be tested. The light bands are viewed from top of the Optical Flat.

**MLS-02:** Specimen or the component under test is placed on the Optical Flat. The light bands are viewed through the mirror placed beneath the Optical Flat.

**Specification:**

**Material:** Teak Wood and composite construction.

**Light Source:** 35W SOX Sodium lamp with Electronic Choke

**Light Colour:** 89% monochromatic yellow

**Wavelength:** 0.589 micron

**Optical Flats**

Part No	Diameter (mm)	Thickness (mm)
OF-25*	25	10
OF-30*	30	12
OF-50*	50	15
OF-75*	75	20
OF-100*	100	25
OF-125*	125	30
OF-150*	150	35

Material : BK-7 / Fused Silica  
 Surface Quality : 80-50 Scratch & Dig  
 Surface Accuracy :  $\lambda/4, \lambda/6, \lambda/10$   
 Angle Tolerance : < 15 minutes  
 Bevel : 0.5 mm x 45°

\* Please prefix A for Fused Silica Material

**Optical Parallel**

Part No	Diameter (mm)	Thickness (mm)
OP-01	30	12.000, 12.127, 12.250, 12.375
OP-02	50	25.000, 25.127, 25.250, 25.375

Material : Fused Silica  
 Surface Quality : 80-50 Scratch & Dig  
 Diameter Tolerance :  $\pm 0.15$  mm  
 Thickness Tolerance :  $\pm 0.01$  mm  
 Surface Accuracy : 0.2 micron  
 Parallelism : 0.1 micron  
 Bevel : 0.5 mm x 45°

Accompanied by Flatness Inspection Report  
 Cosmetic Defects: According to US MIL Std  
 Supplied in Wooden Box  
 Inspection carried out in Laser Fizeau Interferometer  
 Reference Flat ( $\lambda/20$ ) traceable to NIST.  
 Parallelism Inspection by Haidinger Fringe method.  
 Evaluation of flatness with Licensed Quick Fringe Software.

**Other Product Range**

Optical Prisms	Optical Windows	Optical Mirrors	Autocollimator
Fizeau Interferometer	Laser Interferometer	Michelson Interferometer	Grazing Interferometer



**PRISMS INDIA PRIVATE LIMITED**

C-92, Pipdic Industrial Estate, Mettupalayam, Pondicherry – 605 009  
 Tel: 0413-2277059, 2271289, 4204060, Fax: 4204060, 2250328  
 E-mail: prisms@vsnl.com, prisms@airtelmail.in Website: www.prismsindia.com

**MONOCHROMATIC LIGHT SOURCE**

For use with Flat Lapping and Polishing systems, Flatness Measuring Equipment is designed to produce excellent contrast fringes when used with Prisms India Optical Flats making estimation relatively simple

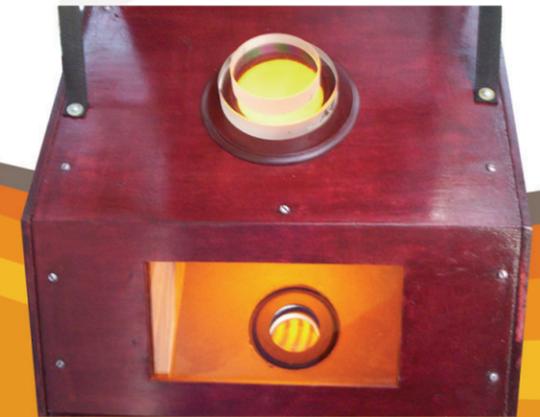
**APPLICATION**

Measurement of surface flatness of lapped reflective surfaces

- Ceramic Seals
- Mechanical seals
- Pump valves
- Clutch plates
- Gear Wheels Flat-honed
- Auto Parts



MLS-1



MLS-2



OPTICAL FLAT



OPTICAL PARALLEL



OPTICAL FLAT  
CURVED SURFACE



OPTICAL FLAT  
NEAR FLAT SURFACE



OPTICAL FLAT  
PERFECT FLAT SURFACE



**PRISMS INDIA PRIVATE LIMITED**