

## Transmission Flats (TF)



- For measuring surface quality or transmitted wavefront of flat surfaces or optics.
- $\lambda/20$  surface quality.
- No alignment required.
- 25 mm elements mount direct onto the PTI, 2 inch elements required Aperture Converter.
- Storage case included.

| Aperture/Type <sup>(1)</sup> | Quality      | ZYGO P/N     |
|------------------------------|--------------|--------------|
| 25 mm                        | $\lambda/20$ | 6525-0150-01 |
| 25 mm, Dynaflect™            | $\lambda/20$ | 6525-0150-02 |
| 2 inch                       | $\lambda/20$ | 6525-0221-01 |
| 2 inch, Dynaflect            | $\lambda/20$ | 6525-0221-02 |

(1) Standard optics accommodate surfaces from 0.1% to 40% reflectivity; Dynaflect coated optics accommodate surfaces from 4% to 99% reflectivity.

## Transmission Spheres (TS)



- For measuring surface quality or transmitted wavefront of concave or convex surfaces or optics.
- $\lambda/10$  surface quality.
- 25 mm elements mount direct onto the PTI, 2 inch elements required Aperture Converter.
- Storage case included.

| Aperture/Type <sup>(1)</sup> | f/No | R <sub>1</sub><br>(mm) | D <sub>0</sub><br>(mm) | R <sub>2</sub><br>(mm) | ZYGO P/N     |
|------------------------------|------|------------------------|------------------------|------------------------|--------------|
| 25 mm                        | 0.58 | 8.0                    | 14.8                   | 7                      | 6525-0131-01 |
| 25 mm                        | 0.7  | 12.0                   | 19.0                   | 11                     | 6525-0130-01 |
| 25 mm, Dynaflect             | 0.7  | 12.0                   | 19.0                   | 11                     | 6525-0130-02 |
| 25 mm                        | 1.0  | 20.0                   | 24.1                   | 17                     | 6525-0129-01 |
| 25 mm                        | 1.5  | 34.0                   | 25.9                   | 29                     | 6525-0128-01 |
| 25 mm                        | 2.4  | 50.0                   | 25.9                   | 45                     | 6525-0127-01 |
| 25 mm                        | 3.3  | 72.1                   | 25.9                   | 67                     | 6525-0126-01 |
| 25 mm                        | 4.8  | 109.6                  | 25.9                   | 104                    | 6525-0125-01 |
| 2 inch                       | 0.67 | 20.0                   | 31.2                   | 19                     | 6525-0228-01 |
| 2 inch                       | 0.75 | 26.0                   | 35.9                   | 25                     | 6525-0227-01 |
| 2 inch                       | 0.9  | 35.0                   | 39.5                   | 34                     | 6525-0226-01 |
| 2 inch                       | 1.25 | 54.0                   | 44.0                   | 53                     | 6525-0225-01 |
| 2 inch                       | 1.8  | 87.1                   | 49.5                   | 86                     | 6525-0224-01 |
| 2 inch                       | 3.3  | 175.1                  | 53.8                   | 174                    | 6525-0223-01 |

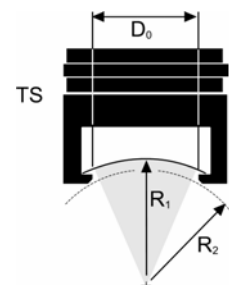
(1) Standard optics accommodate surfaces from 0.1% to 40% reflectivity; Dynaflect coated optics accommodate surfaces from 4% to 99% reflectivity.

### TS Part Coverage

R<sub>1</sub> is the actual radius of the transmission sphere.

D<sub>0</sub> is the housing diameter opening (clear aperture).

R<sub>2</sub> is the maximum measurable part radius for convex surfaces with diameters larger than D<sub>0</sub>.



For specific coverage calculations, use the ZYGO Transmission Sphere Selector Tool, OMP-0495.

## Aperture Converters

### 25 mm to 6 mm Aperture Converter



- Used to change the output aperture of the PTI.
- Available with 6 mm or 2 inch output diameter.
- Attaches to the PTI bayonet mount.
- The 25 mm to 6 mm Converter has an integrated  $\lambda/20$  transmission flat.
- The 1 inch to 2 inch Converter has an integrated receptacle with tip/tilt adjustments for 2 inch optics.
- Storage case included.

### 1 inch to 2 inch Aperture Converter



| Converter        | ZYGO P/N     |
|------------------|--------------|
| 25 mm to 6 mm    | 6525-0146-01 |
| 1 inch to 2 inch | 6525-0220-01 |

## Mounting Options

### Base and Stand



- Includes a stable granite base, durable aluminum stand (column), and manual z-stage for mounting the PTI.
- Provides flexible mounting options.

| Option         | ZYGO P/N     |
|----------------|--------------|
| Base and Stand | 6525-0250-01 |

## Mounts

### Part Stage Kit



- Holds optics up to 40 mm diameter.
- Provides part adjustment in four axes.
- 13 mm x-y travel.
- $\pm 3^\circ$  tip/tilt adjustment.

| Mount                         | ZYGO P/N     |
|-------------------------------|--------------|
| Part Stage Kit                | 6525-0252-01 |
| 3-Axis Mount                  | 6090-0230-01 |
| Tip/Tilt Mount                | 6024-0371-02 |
| Self Centering Element Holder | 6024-0161-01 |

### 3-Axis Mount and Tip/Tilt Mount



- For PTI in horizontal configuration only.
- 4.25 in. (108 mm) beam centerline height.
- 3-Axis Mount has 13 mm X and Y adjustment and 50 mm Z adjustment
- Tip/Tilt Mount accepts 4 in. accessories.



PTI in horizontal arrangement with 3-Axis Mount, Tip/Tilt Mount, and Self Centering Element Holder

### Self Centering Element Holder



- Fits into the Tip/Tilt Mount.
- Holds optics from 5 to 100 mm diameter.
- Fixed posts.
- Includes spring-loaded lockable fingers.

## Radius of Curvature

### Z-Axis Encoder (manual radius of curvature)



- Used with vertical configuration for *manual* radius of curvature measurements (TS required).
- Includes 30 mm encoder with 1  $\mu\text{m}$  resolution, a stop bracket, and a digital readout.
- Provides digital readout of the radius of curvature of the test optic when the interferometer is moved from the catseye to confocal positions.
- The digital readout can also provide direct feedback to MetroPro software through the computer's COM1 port.

| Option            | ZYGO P/N     |
|-------------------|--------------|
| Z-Axis Encoder    | 6525-0253-01 |
| Motorized Z-Stage | 6525-0268-01 |

### Motorized Z-Stage (semi-automated radius of curvature)



- Used with vertical configuration for *semi-automatic* radius of curvature measurements (TS required).
- Includes linear stage mounted on reinforced column, a granite base, a Motor Driver, a joystick, PTI mounting plate, and cables.
- Power driven z-axis linear stage has 300 mm of travel with  $\pm 1.5 \mu\text{m}$  bi-directional repeatability.
- The stage encoder provides direct feedback to MetroPro software through the computer's COM1 port.

Information subject to change without notice.