

Protective Cover Glass Options (Laser Welders/Cutters):

50mm Diameter

| AMYA # | Diameter | Thickness | Material | Coating | Vendor # | Usage |
|---------|---------------------|-----------------------|----------------------|-----------------|-----------------|-------------------------------------|
| 475-107 | 2.0" +0.000/-0.005" | 0.125" +0.000/-0.005" | Pyrex (Corning 7740) | None | DLI # LPR-10484 | FX Heads (STD ISSUE) |
| 475-108 | 2.0" +0.000/-0.005" | 0.125" +0.000/-0.005" | Pyrex (Corning 7740) | AR (532/1064nm) | DLI # LPR-10536 | FX Heads – A-Ser |
| 475-516 | 2.0" +0.000/-0.005" | 0.125" +0.000/-0.005" | Fused Silica | None | DLI # LPR-18962 | FX Heads – A-Ser |
| 475-334 | 2.0" +0.000/-0.005" | 0.125" +0.000/-0.005" | Fused Silica | AR (1064nm) | DLI # LPR-18554 | FX Heads & LF Series |
| 475-524 | 50mm +0.0/-0.1mm | 2mm +0.0/-0.1mm | Fused Silica | V (532/1064nm) | DLI # LPR-16247 | ∅ 50mm FH + FX Heads ^{1,2} |
| KU-0159 | 50mm +0.01/-0.1mm | 1mm ±0.1mm | BK7 | AR (1064nm) | MHC # KU-0159 | ∅ 50mm FH + FX Heads ¹ |
| 1155176 | 50mm +0.01/-0.1mm | 1mm ±0.1mm | Synthetic Quartz | AR (1064nm) | MHC # PO1155176 | LF1000A Cover Glass |

Note 1: 475-524 & KU-0159 can only be used in FX Heads with a 1.812" clear aperture. If retaining ring ID ≈ 1.968", it can be replaced by AMYA # 475-351.

Note 2: If the cover glass fits loosely in the housing, use cover glass washer 570-223 (for 2.0" dia. optics) or 4-74501-01 (for 50mm dia. optics).

40mm Diameter

| | | | | | | |
|---------|-------------------|------------|-----|-------------|---------------|--------------------|
| KU-0318 | 40mm +0.01/-0.1mm | 1mm ±0.1mm | BK7 | None | MHC # KU-0318 | ∅ 40mm Focus Heads |
| KU-0078 | 40mm +0.01/-0.1mm | 1mm ±0.1mm | BK7 | AR (1064nm) | MHC # KU-0078 | ∅ 40mm Focus Heads |

30mm Diameter

| | | | | | | |
|------------|-------------------|-----------------|--------------------|--------------------|---------------------|---------------------------------|
| 475-087 | 30mm +0.01/-0.1mm | 1mm ±0.1mm | Borosilicate Glass | None | DLI # LPR-13081 | 30mm Heads (STD ISSUE) |
| 475-525 | 30mm +0.0/-0.1mm | 2mm +0.0/-0.1mm | Fused Silica | AR (1064nm) | DLI # LPR-11760 | LF Series < 400W |
| KU-0037 | 29.8mm ± 0.2mm | 1mm +0.2/-0.1mm | Borosilicate Glass | None | Use 475-087 instead | |
| KU-0129 | 29.8mm ± 0.2mm | 1mm +0.2/-0.1mm | Borosilicate Glass | AR (1064nm) | Use 475-525 instead | |
| 4-60047-01 | 30mm +0.01/-0.1mm | 1mm ±0.1mm | BK7 | AR (1064nm) 2-side | MHC # KU-0024 | Alternate for 475-525 |
| 4-60046-01 | 30mm +0.01/-0.1mm | 1mm ±0.1mm | BK7 | AR (1064nm) 1-side | MHC # KU-0023 | 30mm Heads + Attenuator |
| 4-60045-01 | 30mm +0.01/-0.1mm | 1mm ±0.1mm | BK7 | None | MHC # KU-0022 | Alternate for 475-087 |

20mm Diameter

| | | | | | | |
|---------|-------------------|------------|-----|-------------|---------------|--------------------|
| KU-0234 | 20mm +0.01/-0.1mm | 1mm ±0.1mm | BK7 | AR (1064nm) | MHC # KU-0234 | ∅ 20mm Focus Heads |
|---------|-------------------|------------|-----|-------------|---------------|--------------------|

Cutting Heads

| | | | | | | |
|---------|--------|-------|--------------|-------------|---------------------|---------------------|
| 475-465 | 22.4mm | 4.1mm | Fused Silica | AR (1064nm) | LaserMech PLLCG0034 | Laser Cutting Heads |
|---------|--------|-------|--------------|-------------|---------------------|---------------------|

1.0" Focus Heads

| | | | | | | |
|---------|---------------------|-----------------------|-----------|-------------|-----------------|------------------|
| 475-526 | 1.0" +0.000/-0.005" | 0.062" +0.000/-0.005" | G1 Quartz | AR (1064nm) | DLI # LPR-11349 | LF Series < 400W |
|---------|---------------------|-----------------------|-----------|-------------|-----------------|------------------|

Protective Cover Glass Options (Laser Markers):

| AMYA # | f-theta | Coating | Vendor # | LMF | LMV1000 LMV1010 | LMV700 | LM35 LM50 | LM45 | LMV1000G LMV1010G | LM5G |
|---------|---------|-----------------|-----------------------------------|-----|--------------------|--------|--------------|------|----------------------|------|
| 475-141 | 75mm | AR (1064nm) | Sigma Koki # f-75mm | | X | | X | | | |
| 475-142 | 100mm | AR (1064nm) | Geomatec # FT-100(B) | | X | | X | | | |
| 475-135 | 100mm | AR (532/1064nm) | Linos # 4401-301-001-00-0001A | X | | | | | | |
| 475-259 | 150mm | AR (1064nm) | Geomatec # TK7J7811P1 | X | X | | | | | |
| 475-135 | 160mm | AR (532/1064nm) | Linos # 4401-301-001-00-0001A | X | X | X | X | | | |
| 475-113 | 160mm | AR (1064nm) | Rodenstock # 0599.4401.301.021 | | | | | X | | |
| 475-491 | 163mm | AR (1064nm) | Linos # 4401-261-004-00 | X | | | | | | |
| 475-134 | 254mm | AR (1064nm) | Linos # 4401.288.005 | X | X | | X | | | |
| 475-261 | 270mm | AR (1064nm) | Geomatec # TK7J811P4 | | X | | | | | |
| 475-140 | 300mm | AR (1064nm) | Thales # 5505-205 | | X | | X | | | |
| 475-134 | 420mm | AR (532/1064nm) | Linos # 4401.288.005 | X | X | | X | | | |
| 475-003 | 825mm | AR (1064nm) | Sill # S4LPG0300/126 ³ | X | | | | | | |
| 475-258 | 100mm | AR (532nm) | Geomatec # FT100SHG | | | | | | X | X |
| 475-257 | 160mm | AR (532nm) | Linos # 0599.4401.305.021 | | | | | | X | X |
| 475-260 | 254mm | AR (532nm) | Sill # S4LFT1254/121 ³ | | | | | | X | |
| 475-262 | 300mm | AR (532nm) | Sill # S4LFT0300/121 ³ | | | | | | X | |

Protective Cover Glass Options (Galvo Heads):

| AMYA # | f-theta | Coating | Vendor # | Material | Usage |
|---------|---------|------------------|-----------------------------------|---------------|---|
| 475-515 | 80mm | AR (1064nm) | Sill # S4LPG1080/126 ³ | Optical Glass | Used with (475-292) 80mm Telecentric Lens (Sill S4LFT0080/126) |
| 475-522 | 100mm | AR (1064nm) | Sill # S4LPG6100/126 ³ | Optical Glass | Used with (475-307) 100mm Telecentric Lens (Sill S4LFT6125/126) |
| 475-531 | 163mm | AR (1064nm) | Sill # S4LPG2175/126 ³ | Optical Glass | Used with (475-306) 163mm Telecentric Lens (Sill S4LFT5365/126) |
| 475-584 | 100mm | AR (1030-1090nm) | Sill # S4LPG2250/328 ³ | Fused Silica | Used with (475-583) 100mm Telecentric Lens (Sill S4LFT4010/328) |

Note 3: The Sill suffix denotes the AR Coating: /126 = 1064nm, /121 = 532nm, /081 = 1064nm & 532nm, /328 = 1030-1090nm