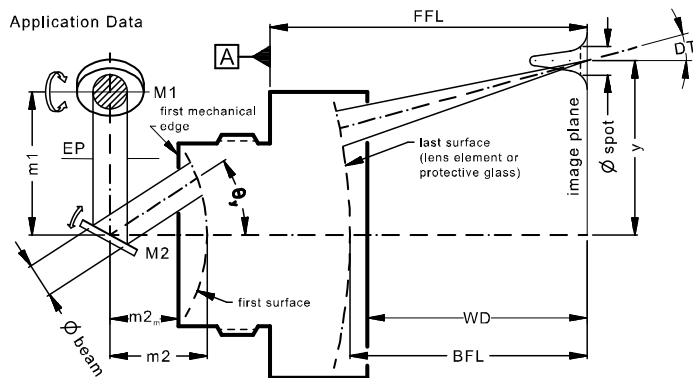


# LINOS F-Theta-Ronar Lens

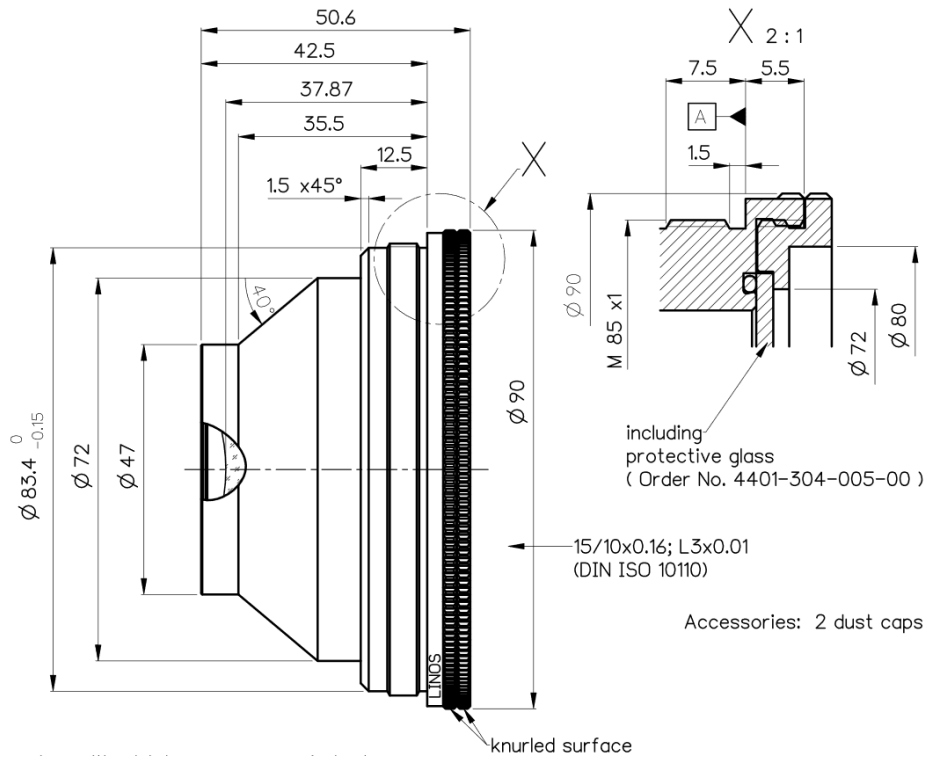
f = 100mm, 532nm



|  |                             |                      |  |
|--|-----------------------------|----------------------|--|
| Part number  | 4401-304-000-21             |                      |  |
| Design wavelength                                    | $\lambda$                   | (nm)                 | 532  |
| Effective focal length                               | EFL                         | (mm)                 | 94.0                                       |
| Back focal length                                    | BFL                         | (mm)                 | 96.1                                       |
| Working distance                                     | WD                          | (mm)                 | 90.8                                       |
| Flange focal length                                  | FFL                         | (mm)                 | 98.7                                       |
| Beam diameter 1/e <sup>2</sup> truncated             | $\varnothing_{\text{beam}}$ | (mm)                 | 6.0  |
| Recommended mirror distance m1                       | m1                          | (mm)                 | 16.0                                       |
| Recommended mirror distance m2                       | m2                          | (mm)                 | 12.0                                       |
| Recommended mirror distance m2 <sub>mechanical</sub> | m2 <sub>m</sub>             | (mm)                 | 7.4  |
| Scan angle   | $\pm\theta_{x,y}$           | (°)                  | 17.7                                       |
| Scan area (edge length of scan field)                | 2x * 2y                     | (mm <sup>2</sup> )   | 58 x 58                                    |
| Spot diameter  | $\varnothing_{\text{spot}}$ | ( $\mu\text{m}$ )    | 15   |
| Total transmission @ 532nm                           | T                           | (%)                  | > 96                                       |
| LIDT coating @ 532nm, 6ns, 100Hz                     |                             | (J/cm <sup>2</sup> ) | 6  |
| Focused back reflex positions from first surface     |                             | (mm)                 | 2.9; 4.3; 6.0; 9.1; 17.0; 20.7; 21.1; 22.1 |
| Weight   |                             | (g)                  | 365  |
| Protective glass                                     | PG                          |                      | 4401-304-005-00                            |

Optical parameters calculated for a 1-mirror system  
 Subject to technical change

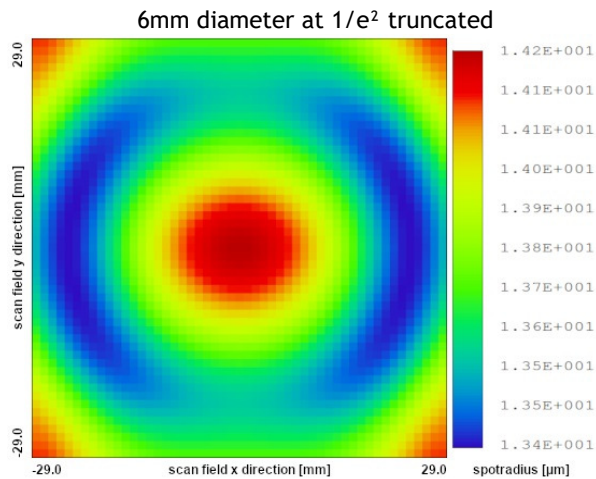
## Mechanical drawing



Dimensions without tolerances are nominal values and illustration not to scale

## Spot variation over scanfield

Spot radius in  $\mu\text{m}$  at  $1/e^2$  level for a Gaussian laser beam ( $M^2=1$ ) field size and mirror distances as given above for a 2 mirror scan system



## Notes



For technical explanations, see our homepage.

In a 1-mirror system, the entrance pupil (EP) is the position of the scan mirror. In a 2-mirror system, it is the point where the scan mirrors should be placed around symmetrically to reach specified performance.