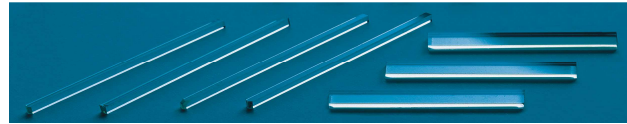
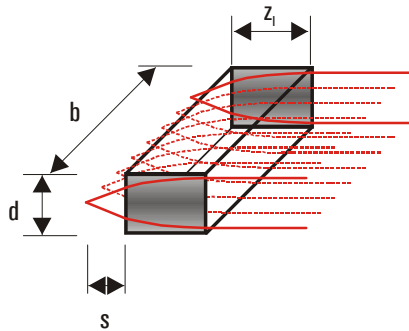


GRIN cylindrical lenses

- Gradient index lenses for the fast axis collimation of high power laser diode bars, high brightness diodes and other beam shaping purposes
- Plane surfaces



Order example: GT-LFRL-100-025-50-CC (670)

						Design wavelength
						Coating Code
						NA: 0.5
						Pitch: 0.25
						Diameter: 1.0 mm
						Laser Focusing Rod Lens
						GRINTECH

- Working distance, design wavelength and lens length deviating from these standards can also be produced
- different lens width available upon request
- ZEMAX files can be [DOWNLOADED](#) from our website

Pitch P	Working distance s (mm)	Numerical Aperture NA	Lens length z _l (mm)	Focal length f (mm)	Gradient constant g (mm ⁻¹)	Refractive index at the center of the profile n ₀	Width b (mm)	Wavelength λ (nm)	Product code
Thickness d : 0.5 mm									
0.24	0.05	0.5	1.18	0.50	1.247	1.624	14	810	GT-LFCL-050-024-50-CC (810)
0.24	0.05	0.5	1.18	0.50	1.242	1.621	14	940	GT-LFCL-050-024-50-CC (940)
0.24	0.10	0.2	2.85	1.26	0.524	1.524	14	670*	GT-LFCL-050-024-20-CC (670)
Thickness d : 1.0 mm									
0.24	0.08	0.5	2.34	0.97	0.634	1.624	14	810	GT-LFCL-100-024-50-CC (810)
0.24	0.08	0.5	2.35	0.98	0.632	1.621	14	940	GT-LFCL-100-024-50-CC (940)
0.24	0.20	0.2	5.43	2.40	0.274	1.524	14	670*	GT-LFCL-100-024-20-CC (670)
Thickness d : 1.3 mm									
0.24	0.08	0.5	3.08	1.26	0.489	1.624	14	810	GT-LFCL-130-024-50-CC (810)
0.24	0.08	0.5	3.09	1.27	0.487	1.621	14	940	GT-LFCL-130-024-50-CC (940)
0.24	0.26	0.2	7.28	3.22	0.205	1.524	14	670*	GT-LFCL-130-024-20-CC (670)

* Cylindrical lenses with NA 0.2 for other wavelengths are available on request.

GRIN cylindrical lenses are offered with antireflection coatings (R < 0.5 % for the design wavelength and incidence angles of 0 ... 30° corresponding to measurements on a reference substrate)

Coating Code: NC: no coating (reflection loss approx. 12 %)
C2: λ = 800 ... 960 nm

Tolerances:

lens length z: ± 6% due to variations of the gradient constant
thickness d: ± 0.02 mm
working distance s: ± 0.03 mm

Surface quality:

5 / 3 x 0.025; L 3 x 0.005; E 0 (defined by DIN ISO 10110-7:2000-02).
The surface quality is defined within 90 % of the thickness and within b - 1 mm of the width. Outside of this area defects are allowed.

Variations due to modifications of the production process are possible.
It is the user's responsibility to determine suitability for the user's purpose.