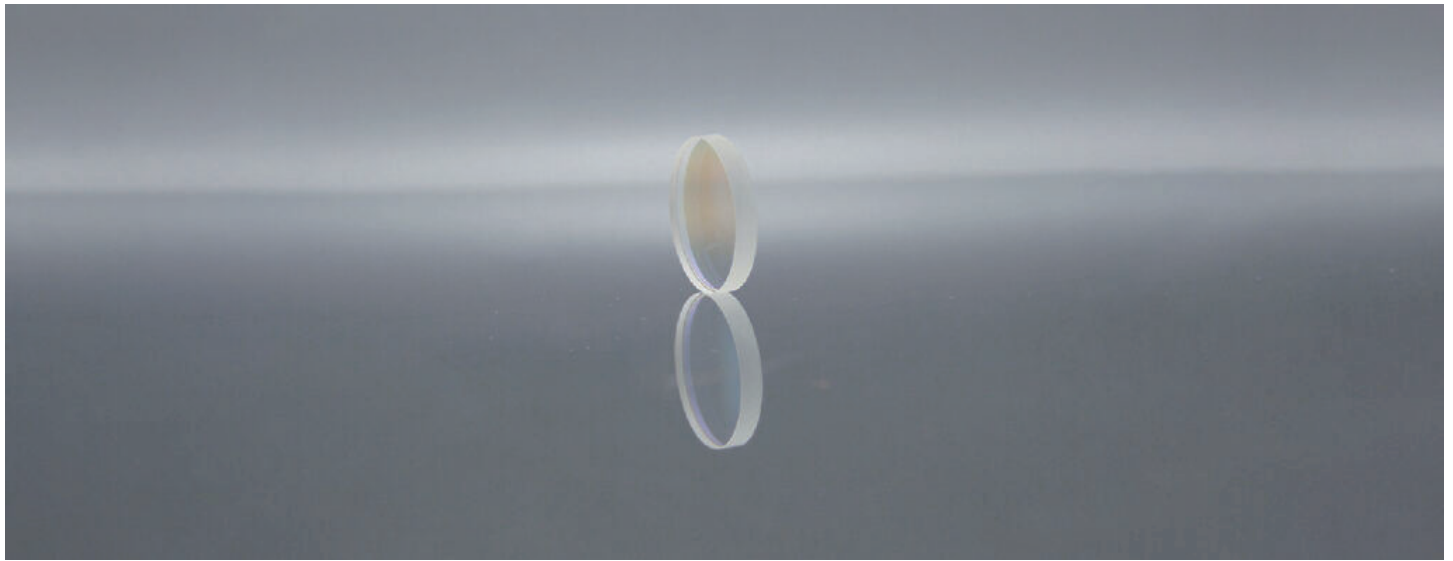


# Er:YAG Laser-2940nm-Turning Mirror



## DESCRIPTION

Our turning mirrors use high-quality substrate materials, including sapphire and Corning 7980 substrates, and use high-reflection (HR) coating technology to provide extremely high reflection efficiency in the operating wavelength range of 355nm~2940nm, high precision Processing effectively reduces light scattering. Within a certain incident angle range, the reflectivity of the HR film layer to natural light or S-polarized light and P-polarized light can be as high as 99.9% or even close to 100%. It has excellent performance and can be applied to various high-precision lasers.

## PROCESSING INDEX

Parallelism	10 ″
Perpendicularity	5 ′
Surface Finish	20-10
Flatness	$\lambda / 8 @ 632 \text{ nm}$
Clear Aperture	> 85% central area
Chamfer	0.2mm-0.5mm @ 45°
Dimensional Accuracy	$\pm 0.05\text{mm}$
Thickness/Diameter Tolerance	(0,-0.1)mm
Damage Threshold	>10 J/cm <sup>2</sup> @ 1064nm 10ns 10 Hz



# Er:YAG Laser-2940nm-Turning Mirror

## PRODUCT LIST - CORNING 7980 (MATERIAL OPTIONAL)

Model	Size	Form	Coating
CL-TM20001	$\varnothing = 25.4 \text{ mm } (-0.1 \text{ mm})$ $t = 3 \text{ mm } (\pm 0.1 \text{ mm})$	Front Side (S2) plane Rear Side (S1) plane	Front Side (S2) $\text{HRu}(45^\circ, 2940\text{nm}) > 99\%$ $\text{Ru}(45^\circ, 635-655\text{nm}) < 20\%$
CL-TM20002	$\varnothing = 25 \text{ mm } (-0.1 \text{ mm})$ $t = 3.05 \text{ mm } (\pm 0.1 \text{ mm})$	Front Side (S2) plane Rear Side (S1) plane	Front Side (S2) $\text{HRu}(45^\circ, 2940\text{nm}) > 99.5\%$ $\text{Ru}(45^\circ, 635-655\text{nm}) > 95\%$

