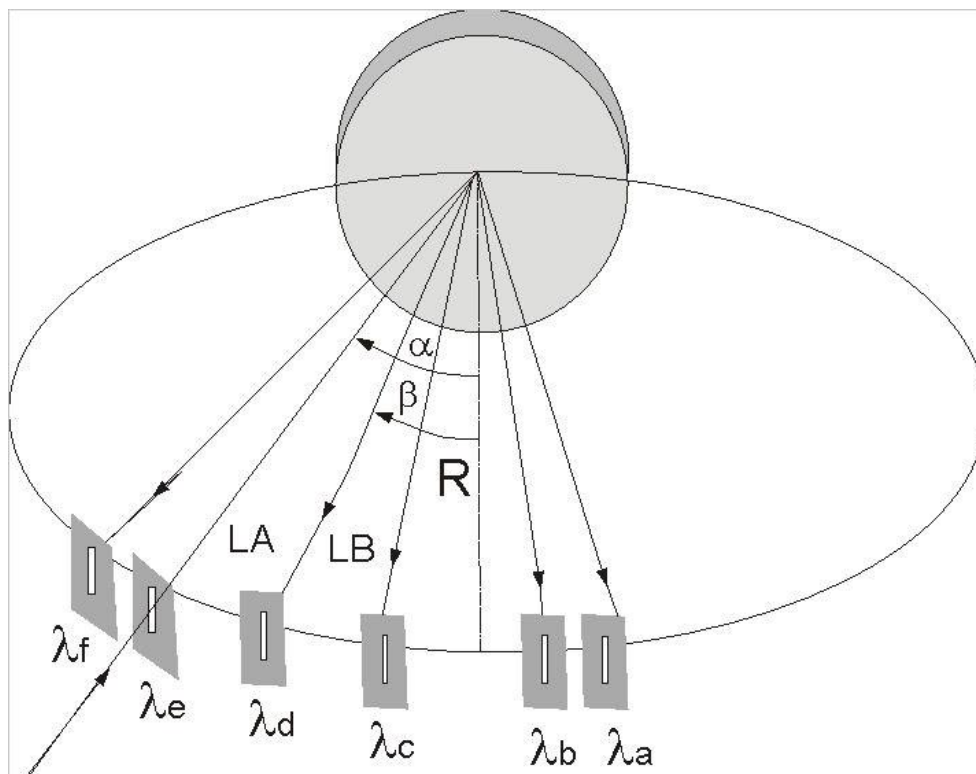


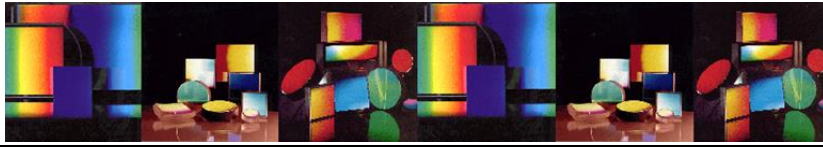
罗兰圆光栅 Rowland Circle

罗兰圆光栅的定义条件包括：窄缝入口、光栅、及检测器必须被定位在该罗兰圆的光栅，该罗兰圆的衍射圆。罗兰圆的配置可消像散，而无须理会延伸的狭缝成像的散光，确保高光谱分辨率。球形表面光栅结构当与其他成像光栅相比是相对简单，从光栅沟槽观看，它与光栅相互垂直，这是平行且等距的。

Rowland circle gratings constitute the definitive form for imaging gratings. Their application-specific feature is: the entrance slit, the grating and the detector must be positioned on the diffraction circle of the Rowland grating, the Rowland circle. The Rowland circle configuration allows coma-free imaging and ensures high spectral resolution despite astigmatic elongation of the slit image.

The grating structure on the spherical surface of Rowland circular gratings is relatively uncomplicated when compared with other imaging gratings: when viewing the grating grooves parallel to the grating normal, they appear parallel and equidistant.





罗兰圆标准产品规格

Grooves mm-1	Blaze wavelength λ b/nm	Order number
R = 1000.1 mm: Zerodur blank diameter 63.5 mm (微晶玻璃直径)		
3600	200	792051
3600	225	792050
2160	200	792052
1440	600	792054
R = 749.9 mm: Zerodur blank diameter 63.5 mm (微晶玻璃直径)		
3600	200	792034
3600	250	792035
3600	350	792036
2400	180	792032
2400	250	792033
1800	400	792031
1500	300	792029
1200	800	792030
R = 501.2 mm: Zerodur blank diameter 63.5 mm (微晶玻璃直径)		
3600	225	792040
2700	220	792039-0000
1800	600	792045
R = 501.2 mm: Zerodur blank diameter 40 mm (微晶玻璃直径)		
2700	220	792039-9901
1400	650	792057
R = 398.8 mm: Zerodur blank diameter 80 mm (微晶玻璃直径)		
3600	200	792048
R = 398.8 mm: ZKN 7 blank diameter 50 mm (微晶玻璃直径)		
2400	200	792044
1800	525	792055
R = 298.5 mm: Zerodur blank 64 x 64 mm ² (微晶玻璃直径)		
3600	220	792104
R = 202.4 mm: NBK 7 blank diameter 32 mm (微晶玻璃直径)		
1200	225	792006
R = 150.7 mm: ZKN 7 blank diameter 32 mm (微晶玻璃直径)		
3600	220	792061

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