



## Graphite-Monochromator 151

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The Graphite-Monochromator 151 contains a highly oriented pyrolytic graphite crystal (HOPG) mounted in a compact metal housing.

Inside the radiation-proof housing the crystal can be manually adjusted to the ideal Bragg-angle for the used X-ray wave length. The diffracted beam is made directly visible by a fluorescent screen on a small lead glass window.

Adjustable entry and exit slits ensure a precise limitation of the X-ray beam path. A wide variety of adaptor plates is available for the mounting of the monochromator on the tube hoods of all standard manufacturers.

### Crystal data:

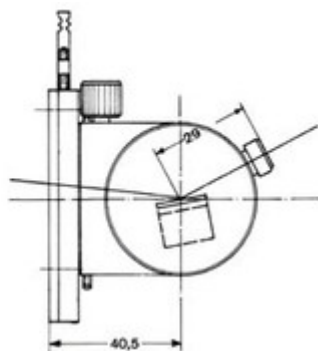
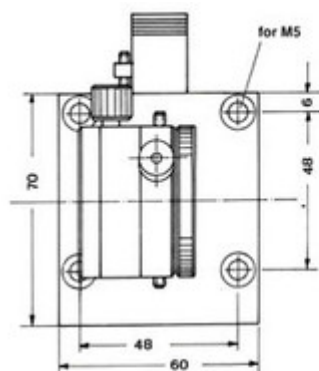
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Dimensions 12mm x 12mm x 1mm

Surface orientated to (002) plane

$2d=6.714 \text{ \AA}$

Mosaic-diffraction angle width  $0.4^\circ \pm 0.1^\circ$



Some crystal ( $\theta$ ) and exit window ( $2\theta$ ) settings:  
Graphite 002 oriented,  $2d = 6,7140 \text{ \AA}$ ,  $D'$  take off angle.

	$K_{\alpha}$	$\theta$	$2\theta$
Ag	0,5608	4,804	9,608
Mo	0,7107	6,1	12,2
Cu	1,5418	13,3	26,6
Co	1,7902	15,5	31,0
Fe	1,9373	16,8	33,6
Cr	2,2909	20,0	40,0

