

### Description

Perfectly grown single crystals have surfaces and sharp edges which are oriented to one another according to their main crystallographic planes. Light-optical goniometers are used for determining the plane angles. In this process the angles of the plane normals are measured.

The goniometer 302 is designed for crystal dimensions of between 0,01 and approx. 5 mm. The positioning and read-out accuracies are 0,01° or mm respectively. This precision is required for the preliminary adjustment on a goniometer head if the crystal is to be investigated by structural diffraction.

### Technical data

Horizontal circle [°]:	+/- 140
Vertical circle <small>unlimited</small> [°]:	360
Read-out accuracy [°]:	0,01
Sample adj. range <small>axial</small> [mm]:	+/- 10 mm
Read-out accuracy [mm]:	0,01

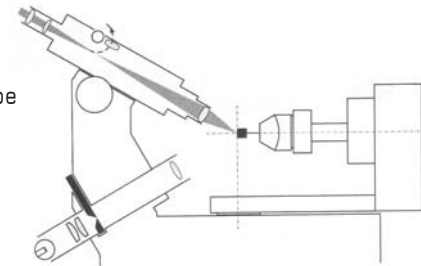
### Microscope

Magnification 40-fold, 20-fold with additional lens  
 Ocular 10-fold, adjustable focus, with cross-hairs and fine scale.  
 A scale unit corresponds to 0,025 mm on the sample (at 40-fold magnification)

### Collimator

Websky cross-hairs  
 Double condensor optics  
 Projection lamp 6 V / 15 W  
 Adjustable illumination  
 Aperture disc with various apertures for limiting Websky cross-hairs

Microscope



Collimator

