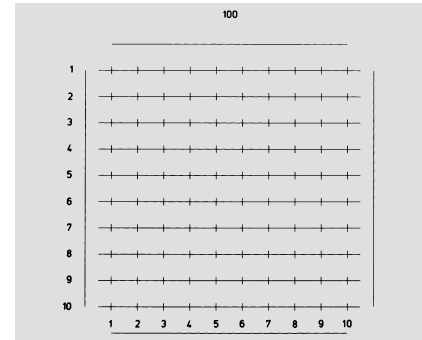


EYEPIECE GRATICULES (RETICLES)

SPECIALIST DESIGNS

Integrating Eyepiece – G50

Pattern	Description	Diameter	Order Code
G50	Integrating eyepiece (simplified). Surface chrome image.	19mm	01B19075
		21mm	01B21075
		Special	01BSP075



STEREOLOGY

In its simplest form, stereology is the science where information about a three dimensional object is obtained from only a two-dimensional section of that structure.

Measurements are usually made with these graticules in the following manner:-

1. An adequate representation of sections of a specimen is obtained.
2. The graticule is superimposed upon the specimen (or micrograph/ projected image of the section).
3. Finally, the interaction between the superimposed graticule and the test sections are recorded.

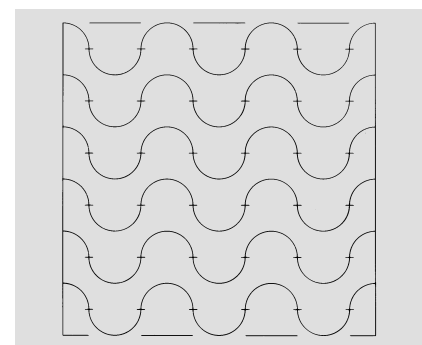
An overall introduction is given by: L.G.Briarty. "Stereology : Methods for Quantitative Light and Electron Microscopy." Sci. Prog. Oxf. 1975 62; 1-32

The Mertz Graticule (36 point) – NGM1

Used to estimate the three dimensional surface areas or the surface density of a component in a given volume, when the component does not have a random orientation. It comprises a test system with parallel curved lines used for measuring the intersection of points.

Reference: W.A.Mertz . " Mikroskopie" Vol. 22 1967 pp 132-142.

Pattern	Description	Diameter	Order Code
NGM1	Mertz for stereology. Surface chrome image.	16mm	01B16258
		19mm	01B19258
		21mm	01B21258
		Special	01BSP258



We manufacture components (encoder discs, graticules, metal foils, resolution standards) to custom design, if it is not in the catalogue please contact us for pricing information.

EYEPIECE GRATICULES (RETICLES)

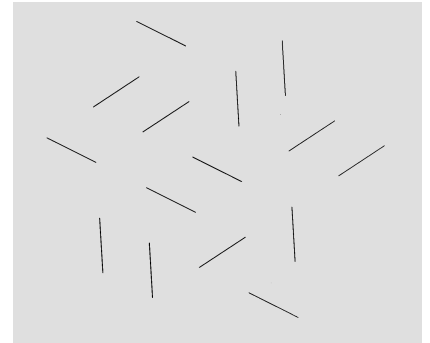
STEREOLOGY

Weibel 1 - NGW1

15 lines of equal length connecting the verticals of a regular hexagonal point network.

Reference: E.R.Weibel Lab. Invest. Vol. 22 pp131-152. Principles and Methods for the Morphometric Study of the Lung and Other Organs.

Pattern	Description	Diameter	Order Code
NGW1	Weibel Type 1 for stereology. Surface chrome image.	16mm	01B16259
		19mm	01B19259
		21mm	01B21259
		Special	01BSP259

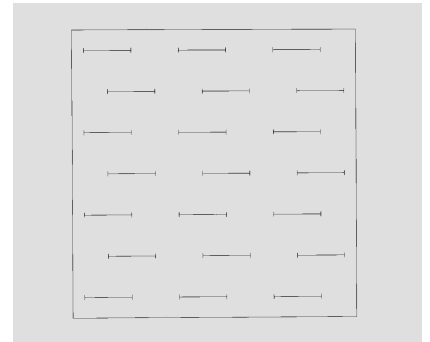


Weibel 2 - NGW2

Used when making a surface to volume ratio of a structure per mass unit. This graticule consists of a number of short lines with interruptions as long as the lines. Basically, the number of intersections falling over the short lines are counted and the number of endpoints falling on the end of the structure are determined.

Reference: E.R.Weibel, Journal of Microscopy Vol. 95. Pp 373-378. Current Capabilities and Limitations of Available Stereological Techniques, point counting method.

Pattern	Description	Diameter	Order Code
NGW2	Weibel Type 2 for stereology. Surface chrome image.	16mm	01B16260
		19mm	01B19260
		21mm	01B21260
		Special	01BSP260



Weibel 3 - GW3

Reference: E.R.Weibel, G.S.Kistler & W.F.Scherle. 1966. J.Cell Biology. 30,23.

Pattern	Description	Diameter	Order Code
GW3	Weibel Type 3 for stereology. Glass sandwich.	16mm	01A16074
		19mm	01A19074
		21mm	01A21074
		Special	01ASP074

