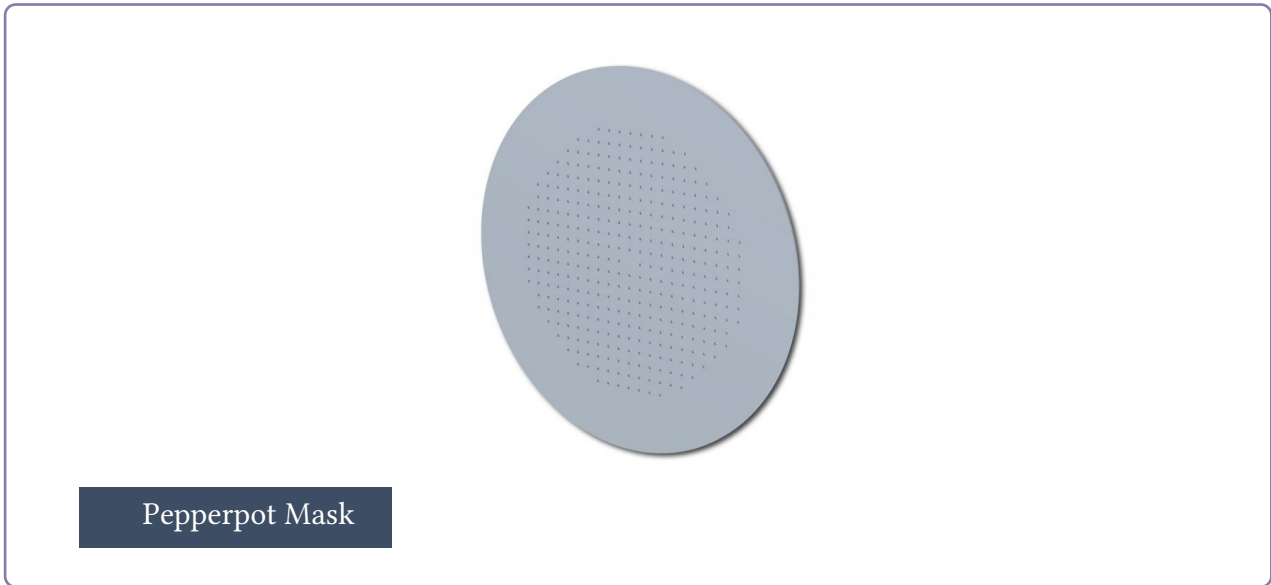


PEPPERPOT MASKS

- MULTI-HOLE MASKS FOR PARTICLE BEAM FORMATION AND DIAGNOSTICS-



Pepperpot Masks are multi-hole masks to separate particle beams into multiple beamlets. This particle beam separation is used in devices to measure the transversal momentum distribution of an incident particle beam and the beam emittance. Another application for multi-hole masks is the formation of particle beams for special cases of target irradiation.

TECHNICAL PARAMETERS

materials	stainless steel or tantalum (other materials on request)
thickness	depends on the material (standard thickness is 200 μm) ¹
minimum hole diameter	50 μm
pattern diameter	30 mm (other pattern diameters on request)
hole distance	from 1 mm up to 3 mm
patern geometry	patterns of holes or slits (other geometries on request)

¹thicker materials lead to a high aspect ratio and collimate the beam causing large systematic measurement errors

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