

Cleanroom vs CNC Cleanroom

What are the differences?

	Cleanroom	CNC Cleanroom
Particle size	up to max. 5 micrometres	up to 600 micrometres, process defined also larger
Type of particle to be removed	Airborne particles by size	Process defined (e.g. metal particles)
Measurement	Airborne particles	Particles on components
Method of measurement	Particle counter	Washing tests and optical methods (residual dirt analysis)
Standard	DIN EN 14644-1	VDA 19 (international: ISO 16232)
Classes / levels	ISO class 9 to 1	Cleanliness levels 0-3
Air exchange rate	20-500 air changes/h (depending on cleanroom class)	up to approx. 10 air changes/h
Filter	High-performance filter ULPA 15 / HEPA 14	Particulate or fine dust filter
Personnel and material airlocks	mandatory	recommended
Field of application	High level of purity or sterility required	Optical cleanliness required
Acquisition costs	1.000 - 5.000 Euro/qm	1.000 - 1.500 Euro/qm
Running costs	high	moderate