

CLEAN ROOM ISO 5

Environment for next-gen technologies

Videofonika's ISO 5 Clean Room is a modern, fully validated controlled environment built in compliance with PN-EN ISO 14644:2016.

Designed for display manufacturing, optoelectronic components, and precision lamination processes.



Static
dissipative
(SD)



Why Videofonika clean room

- ISO 5 compliance – controlled air cleanliness and stable conditions
- HEPA H13 + laminar airflow – 99.995% efficiency for $\geq 0.3 \mu\text{m}$ particles
- Forbo Colorex SD flooring – anti-static, 10^6 – $10^8 \Omega$ resistance
- Continuous BMS monitoring – particle, temperature, humidity & ESD control
- BubbleFree 2240 GLED PRO – precision optical lamination without defects

Clean construction & quality

Made from Kingspan panels – smooth, easy-to-clean, and chemically resistant surfaces ensure long-term ISO 5 compliance.

FFU + HEPA H13 filtration system provides stable and uniform air purity.

Tech center – bubble free 2240 gled pro

- Work area: 3600 × 2140 mm
- 3-layer GLED illuminated glass table
- Compatible with PMMA, glass, and PVC
- Bubble-free lamination for optical quality
- Designed for single-operator use

Benefits

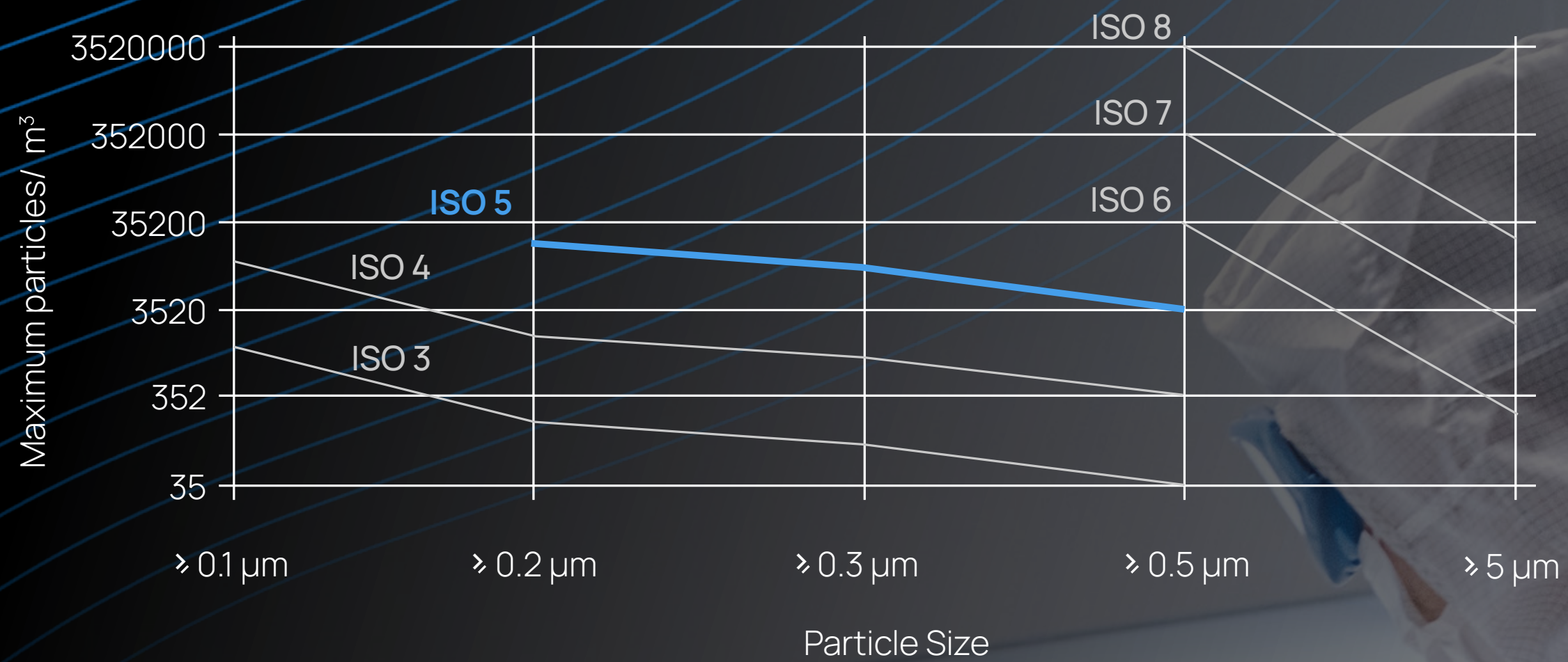
- Minimal surface and air contamination
- Improved product quality and repeatability
- Full ESD protection
- Ready for micro- and nanostructure technologies

For who?

- Display & Optoelectronic Manufacturers
- R&D labs and Universities
- Electronics System Integrators
- Industrial partners requiring clean manufacturing

Technical overview

Element	Model/Type	Key Parameters
Clean class	ISO 5	PN-EN ISO 14644:2016
Air filtration	FFU + HEPA H13	≥99.995% @ 0.3 μm
Flooring	Forbo Colorex SD	10 ⁶ –10 ⁸ Ω; ESD protection
Lamination table	BubbleFree 2240 GLED Pro	3600×2140 mm; LED; 3-layer glass
Structure	Kingspan panels	Hygienic, sealed, durable
Monitoring	BMS + sensor	Particles, T, RH, ESD



Maximum particles /m³

CLASS	0,1 μm	0,2 μm	0,3 μm	0,5 μm	1 μm	5 μm
ISO 1	10					
ISO 2	100	24	10			
ISO 3	1000	237	102	35		
ISO 4	10000	2370	1020	352	83	
ISO 5	100000	23700	10200	3520	832	
ISO 6	1000000	237000	102000	35200	8320	293
ISO 7				352000	83200	2930
ISO 8				3520000	832000	29300
ISO 9				35200000	8320000	293000

Ready to create in a clean, controlled environment?

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