JetCell High Purity

with quattroClean® technology

advanced clean production
acp-systems.com

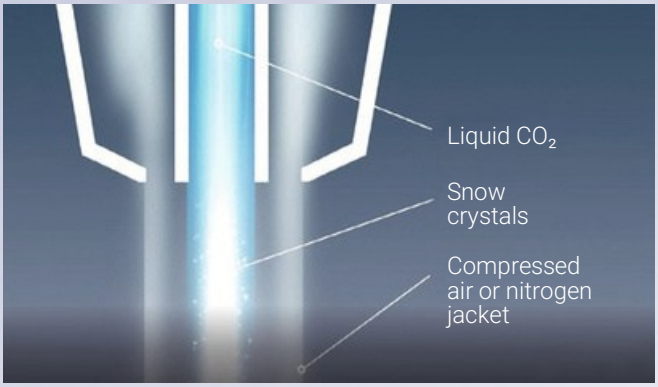
Cleanroom optimized

The JetCell High Purity is a fully automated cleaning cell for inline or stand-alone customized configuration for specific cleaning tasks using quattroClean snow-jet technology based on CO_2.

For a superior cleaning effect using the most efficient, reliable & stable snow-jet technology

Description and features

- Automated throughput of the components via workpiece carrier and conveyor belt or via integrated rotary indexing table with component-specific intake
- Fully automated cleaning process with 6-axis robot or x/y/z-axis controlled nozzle system
- Integrated extraction system to remove process gases and impurities
- Safe monitoring of the CO_2 concentration in the vicinity and automated shutdown of the CO_2 supply if the limit is exceeded
- Suitable for cleanroom processes (ISO 5) with active extraction system and integrated FFU
- Soundproof housing in stainless steel
- Integrated process monitoring



Two-component concentric nozzle

acp systems AG's advanced and patented dual media nozzle technology is unique and has significant advantages over alternative systems.

For a closer look at how CO_2 snow-jet cleaning works, visit our website acp-systems.com, LinkedIn or YouTube channel.

The quattroClean® cleaning process comprises four stages: impulse transmission, rapid cooling, sublimation and solvent rinsing.

quattroClean® technology

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CO_2 snow-jet cleaning

Objectives in manufacturing

Dry, particle and film free products

Features & benefits

- Dry, gentle cleaning
- Fast & efficient (no drying cycle required)
- Residue free
- Selective
- No chemicals or wastewater
- Kind on the environment (recaptured CO_2)
- Manual or automated

- Semiconductor
- Micro & Precision Engineering
- Electronics & Microelectronics
- Electromobility
- Medical Technology
- Aerospace

The patented CO_2 snow-jet nozzle technology from acp systems AG can clean sensitive surfaces on all kind of materials. The supersonic dual component quattroClean® technology provides precise and repeatable cleaning results with a minimum consumption of CO_2.

With the direct and continuous supply of high purity liquid CO_2, the process qualifies perfectly for integration into automated production systems.

High purity benefits

- The process is suitable for highly sensitive surface structures
- Highest specification of media supply technology for XCDA and CO_2
- Removing sub-µm particles and organic impurities
- Media filtration down to the sub-µm range
- Media-supply components in stainless steel and non-outgassing polymers
- Semiconductor industry approved components, e.g. process valves

Technical specification	JetCell High Purity
Empty weight	approx. 980 kg
Dimensions (H x W x D)	2.20 m / 1.80 m / 1.30 m
Sound level	approx. 70 dB(A)
CO_2 supply (liquid)	Cylinder (dip tube) / tank, gas quality 4.5 (99,995%)
CO_2 consumption per nozzle	0.07 to 0.14 kg/min
XCDA	up to 10 bar
XCDA consumption per nozzle	0.2 to 0.5 m³/min
XCDA connection	ball valve G½"
Power connection	400 V / 25 A
Cabinet / Housing material	brushed stainless steel

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