

The Modular Solution for your Precision Cleaning Task

UCMSmartLine



UCM
technology that inspires

The Modular Solution for your Precision Cleaning Task

The UCMSmartLine is a modular, immersion-type ultrasonic system with up to nine wash and rinse stages. The versatile and well thought-out system concept offers numerous possibilities for solving individual cleaning tasks with the highest demands on component quality:



Process validation
through cleaning tests
in our test centres.



+ Modular multi-stage wash and rinse process

+ Use of mono-, twin- or multi-frequency ultrasonics

+ Flexible transport system for optimized throughput and gentle part handling

+ Space-saving design with electrical and control technology integrated into each module

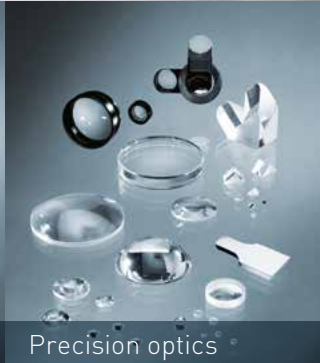
+ High-quality machine enclosure protects parts and personnel from contamination and emissions

+ Highly adaptable to changing market conditions thanks to ability to add modules at a later date

+ Short delivery times



Thin film coated parts



Precision optics



Medical components



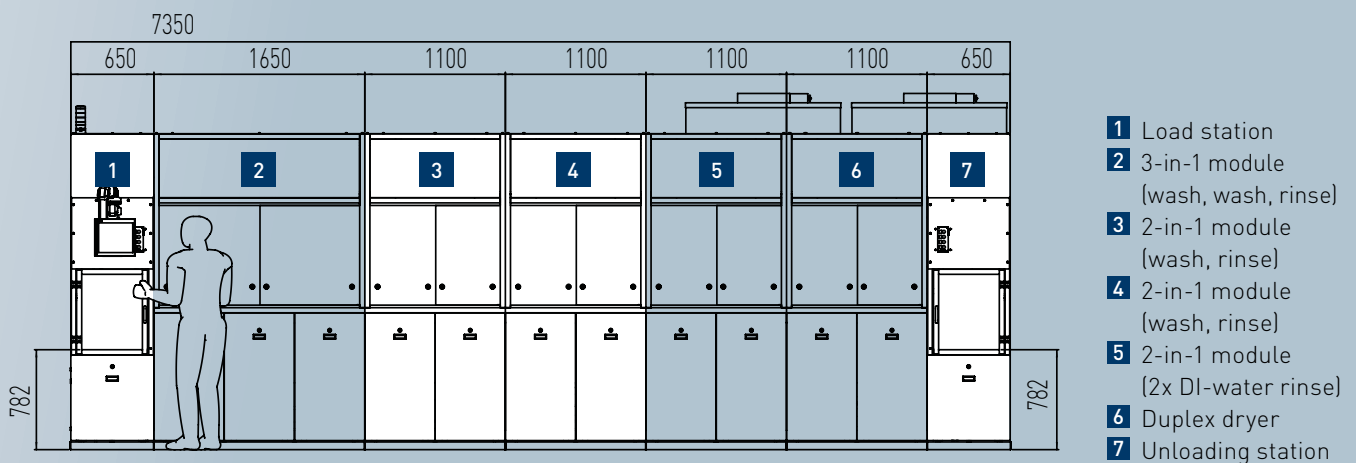
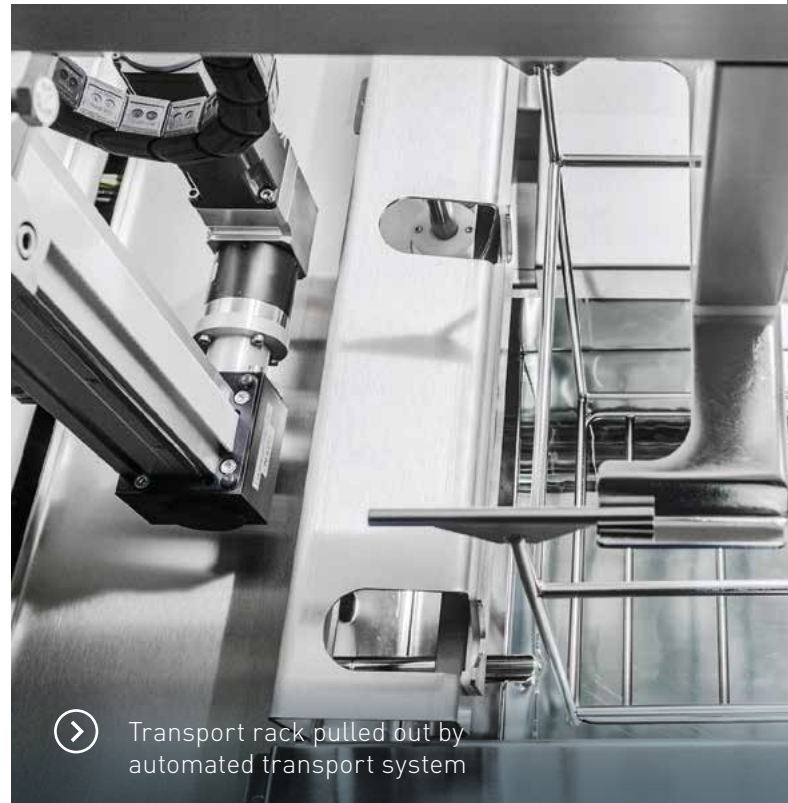
Precision mechanics

Fields of application

- Thin film coated parts (PVD/CVD) e.g. tools, automotive parts, fittings
- Precision optics e.g. micro-optics, lenses, mirrors, prisms, masks
- Medical components e.g. implants, surgical tools, medical instruments
- Precision mechanics/precision parts e.g. aircraft, automotive parts, watches, jewellery

Machine concept

- Parts are agitated in wash and rinse modules, optional rotary and spinning movements
- Variable ultrasonic equipment for mono, twin and multi-frequency operation from 25 to 120 kHz
- Hot air, infrared and vacuum drying, several drying stages possible with infrared option
- Overflow circuit filtration
- Flexible transport system for handling of product carriers and baskets
- Easy creation of up to 99 different programs
- Process visualisation and fault diagnosis via IPC controller
- Connected to rinse water/ DI water re-circulation system
- Supply air filtered by HEPA filter
- Interfacing with clean rooms possible
- Closed system



➤ Example layout of a UCMSmartLine with 9 wet and 2 drying positions, manual loading/unloading on operator side.



Technical data

MACHINE DATA	2-in-1 module	3-in-1 module	Manual loading/ unloading station**
Dimensions (LxW)	1,100 x 1,500 mm	1,650 x 1,500 mm	650 x 1,500 mm
Height without HEPA filter	2,490 mm	2,490 mm	2,490 mm
Height incl. HEPA filter	2,790 mm	2,790 mm	2,790 mm
Weight	approx. 500 kg*	approx. 700 kg*	max. approx. 300 kg

WASH TANK/RINSE TANK

Dimensions (LxWxH)	370 x 420 x 390 mm
Tank capacity	60 l + 10 l

ULTRASONIC SYSTEM OPTIONS

Mono	25, 40, 80 kHz
Twin	25/50 & 40/80 kHz
Multi	40/80/120 kHz

PARTS CARRIER/BASKET

Dimensions (LxWxH)	250 x 300 x 210 mm
Part weight	up to 20 kg, incl. static transport rack

CONNECTIONS

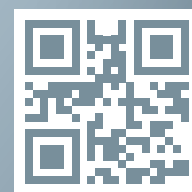
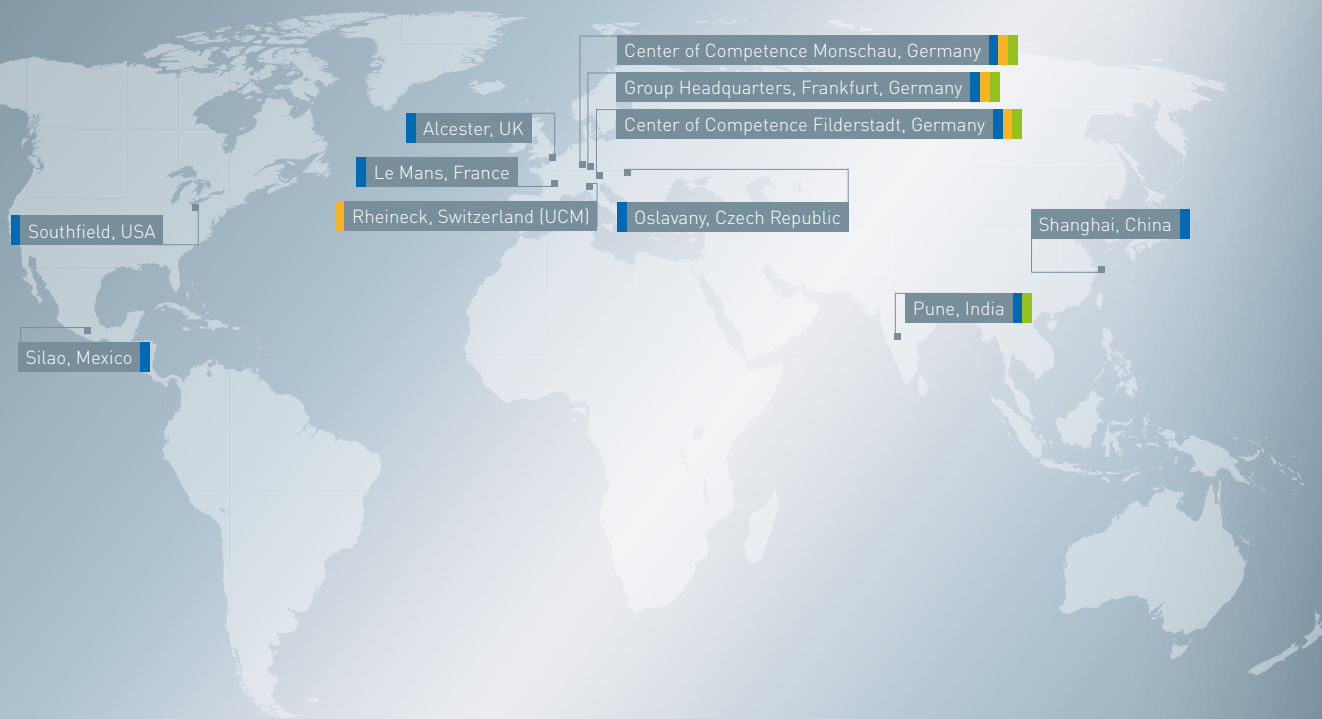
Connected load	from 8.2 kW to 72.8 kW
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* Weight and length vary depending on system configuration

** Weight and length vary depending on loading and unloading configuration (manual or automated)



Our Locations Worldwide



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