



FinnSonic

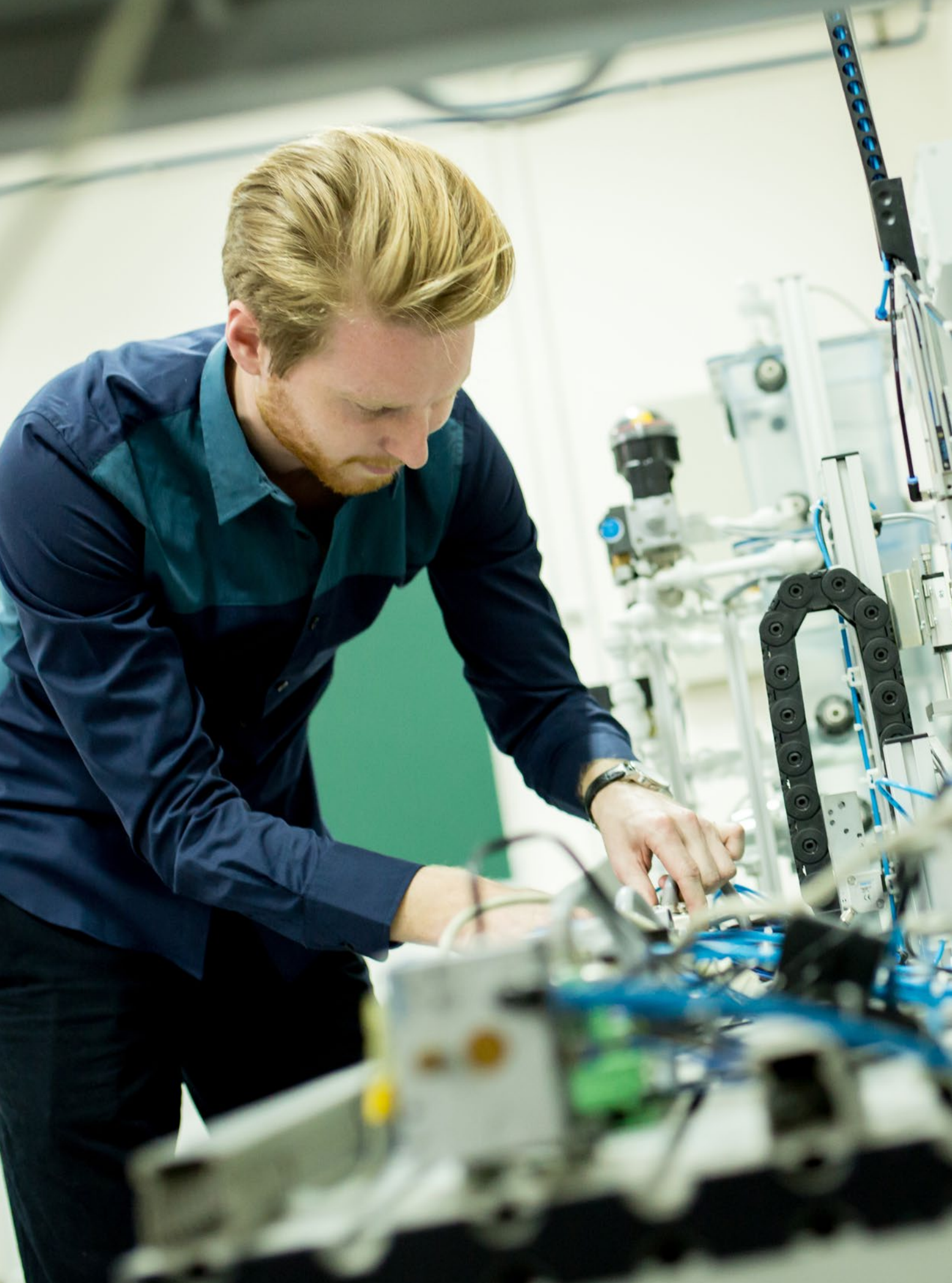


FINNSONIC CORUS

Ultrasonic cleaning units for maintenance



cleaner • safer • smarter





FinnSonic Corus

Core values for maintenance cleaning


An ultrasonic cleaning machine cleans even the most demanding parts efficiently and saves working hours

Undoubtedly, ultrasonic cleaning has many advantages in industrial maintenance cleaning of production equipment

- » Fast and powerful – saves time and labour
- » Gentle – non-abrasive to the base material
- » Precise – cleans also complex structures with holes and channels
- » Environmentally friendly - low energy and water consumption
- » Ergonomic - user-friendly design
- » Safe – a controlled cleaning process in an enclosed space

New FinnSonic Corus – best value

The new FinnSonic Corus line has been designed for both the general industrial maintenance cleaning and for mould and tool cleaning. FinnSonic Corus is a smart product line with flexible configurations for an optimal cleaning result.





Before

After

Main benefits

With labour saving ultrasonic cleaning, you can count on the production equipment's reliable operation and achieving a high level of cleanliness.

- » FinnSonic Genius ultrasonic technology - constant maximum performance and high level of cleanliness
- » Modular – flexible process configuration for an optimal cleaning result
- » Value for money
- » Safe and pleasant working environment with good ergonomics and low noise level

Three main versions

- » **FinnSonic Corus** standard modules for general maintenance cleaning
- » **FinnSonic Corus HD** standard modules for mould and tool cleaning
- » **FinnSonic Corus X** customer tailored modules for maintenance cleaning

Examples of maintenance cleaning applications

Corus

- » Filters, sieves, heat exchangers
- » Vehicle repair: carburetors, chains, nozzles, cylinder heads, filters
- » Mechanical industry: bearings, blades, nozzles, valves, sensors
- » Process industry: valves, nozzles, sealings, measuring devices, pump parts, pneumatic and hydraulic parts
- » Dye, ink, paint, urethane, epoxy removal

Corus HD

- » Plastic injection moulds
- » Glass moulds
- » Die casting moulds
- » Extrusion tools
- » Press tools
- » Punch tools
- » Saw blades, wood cutters

Corus X

- » Items with special dimensions, for example pipes



FinnSonic Corus

For general maintenance cleaning

FinnSonic Corus is optimized for industrial maintenance cleaning of complex parts. It replaces the laborious and often abrasive mechanical manual cleaning.



FinnSonic Corus modules

	Wash basket internal dimensions	Load capacity	US effect	Tank volume	Heating effect
Corus 120	300 x 538 x h442 mm	100 kg	1,2 kW	135 l	3 kW
Corus 240	604 x 400 x h469 mm	200 kg	2,4 kW	262 l	5 kW
Corus 360	808 x 600 x h658 mm	300 kg	3,6 kW	670 l	9 kW
Corus 480	1208 x 800 x h658 mm	350 kg	4,8 kW	1200 l	18 kW

Main benefits

- » Superior cleaning result
- » Short cleaning process
- » Safe and easy to operate
- » Reduces manual labour

Complementary options

- » Wash basket – safe parts handling
- » Hinged tank lid – contains vapour, sound and heat
- » Pneumatic lid actuation - enhances operator safety
- » Bath maintenance options - extend bath life and cleaning quality
- » Ventilation rim - reduces exposure to vapours
- » Noise suppression kit - reduces sound level by up to 10 dB
- » Rinse module - enables rinsing off detergent and contamination residues for a clean and safe result
- » Air bubble agitation for rinse tank - increases rinsing efficiency

FinnSonic Corus HD

Superior benefits for injection mould and press tool cleaning

Ultrasonic mould cleaning can remove stubborn dry or wet contamination from metallic surfaces, yet being gentle and non-abrasive to the base material. Ultrasonic cleaning replaces the heavy mechanical work done by the operator.



40-50% cost
savings in mould
maintenance

Main benefits in production

- » Prolonged mould life; no abrasion of the mould's sharp edges, forms or surface
- » Superior cleaning result of the moulds
 - » longer mould productivity
 - » steady production speed
 - » reduced handling time of the final product
 - » high product quality
 - » minimum percentage of rejected parts

Main benefits in the cleaning process

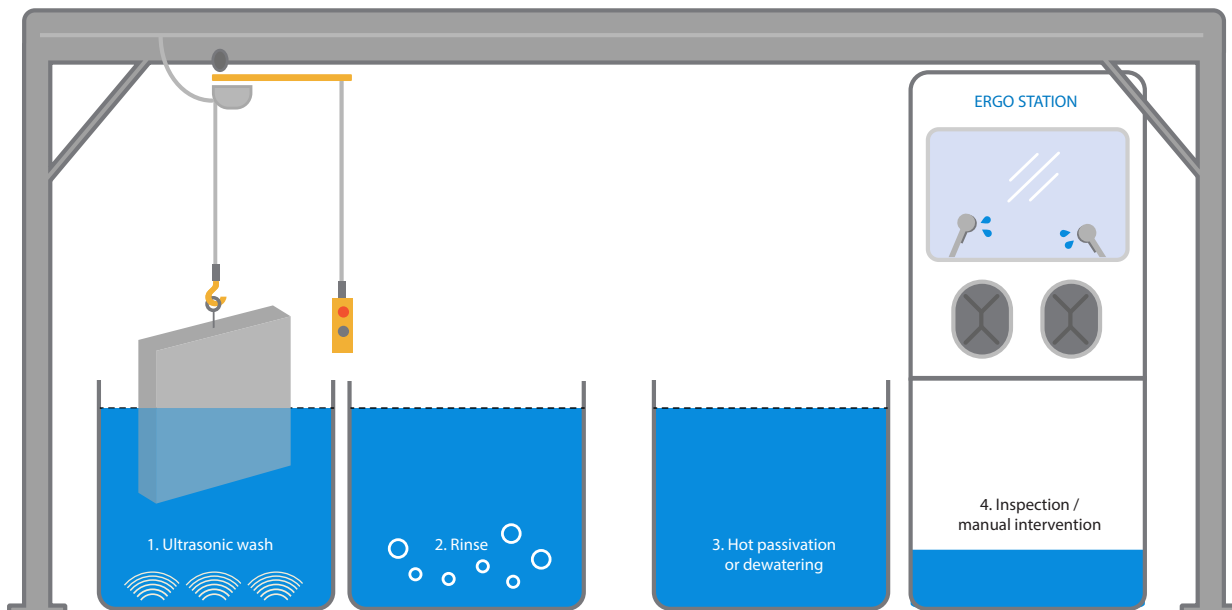
- » Short cleaning process – short treatment time
- » Safe and easy to operate
- » Savings on labour costs, little operator involvement
- » Short payback time
- » Environmentally friendly water based detergents
- » Reliable technology

Complete Mould Cleaning Process Solution

1. Ultrasonic wash at 80°C for about 5-15 minutes
2. Rinsing with air bubble agitation for about 1 minute

Optional

3. Preservation with dewatering or hot passivation for about 1 minute
4. Inspection / manual intervention



OPTIONAL

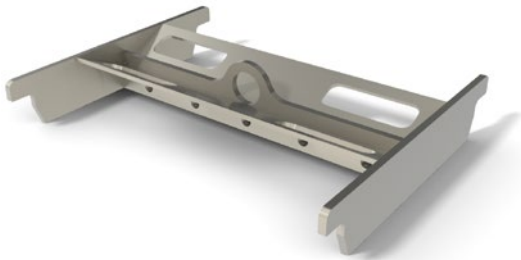
Optimal cleaning chemistry is vital

The right detergent plays a key role in achieving the desired level of cleanliness. In an ultrasonic wash process, a high alkaline cleaner, for example FinnSonic Cavitec HD Pro, is powerful against organic residue that has burned onto the steel moulds and tools. A corrosion inhibitor, for example FinnSonic Norust 1, provides temporary corrosion protection in the rinse bath. An acidic product, for example FinnSonic Cavitec Disco, is used for removing oxidation and lime scale.



Options for mould handling

A lifting beam or basket is used for supporting the mould parts during the washing process. Tanks are equipped with support bars that are compatible with both the lifting beam and basket, and allow detaching the hoist and closing the tank lid for the duration of the cleaning.



Lifting beam for mould plates

- » The mould is hung on the beam with shackles.
- » A matching interface for the support bars in the tank.
- » One point lifting for convenient handling with a chain hoist



Basket for mould plates / parts

- » One point lifting for convenient handling with a chain hoist, thanks to detachable lifting accessory.

Dedicated baskets with mesh are also available for cleaning small items.



FinnSonic Chain Hoist

- » Compatible with the cleaning line
- » Ergonomic load handling
- » A ready-to-use floor fitted chain hoist makes the purchasing and installation a straight forward process.
- » The complete system is CE marked.

FinnSonic Ergo Station

FinnSonic Ergo Station is an innovation for the manual rinsing, flushing, drying and inspection of moulds. Its main advantages include a high level of safety and ergonomics thanks to a fully enclosed, brightly lit and ventilated working chamber. Operating the machine is safe and easy as parts are loaded through a sliding side door and supported with a hoist during the treatment.



FinnSonic Corus HD modules

	Max recommended mould size	Tank effective dimensions	Basket internal dimensions	Load capacity	US effect	Tank volume	Heating effect
Corus 120HD	400 x 250 x h400 mm	340 x 645 x h484 mm	300 x 538 x h435 mm	100 kg	1,2 kW	135 l	3 kW
Corus 240HD	450 x 300 x h450 mm	564 x 373 x h603 mm	508 x 300 x h502 mm	200 kg	2,4 kW	210 l	5 kW
Corus 360HD	600 x 400 x h600 mm	724 x 473 x h758 mm	668 x 400 x h658 mm	300 kg	3,6 kW	410 l	9 kW
Corus 480HD	800 x 400 x h600 mm	924 x 473 x h758 mm	868 x 400 x h658 mm	500 kg	4,8 kW	500 l	9 kW
Corus 600HD	1000 x 400 x h800 mm	1200 x 500 x h1000 mm		1000 kg	6 kW	840 l	18 kW
Corus 720HD	1200 x 400 x h900 mm	1400 x 500 x h1100 mm		1300 kg	7,2 kW	1100 l	18 kW
Corus 840HD	1000 x 700 x h800 mm	1200 x 800 x h1000 mm		1600 kg	8,4 kW	1300 l	27 kW
Corus 1200HD	1200 x 700 x h900 mm	1400 x 800 x h1100 mm		2000 kg	12 kW	2200 l	36 kW

FinnSonic Corus X

When special dimensions are needed, FinnSonic Corus X is the answer. The modules can be tailor made according to the customer's current needs. The modules are designed with smart design automation that is based on a parametric model. In turn, this produces cost-efficiency and fast delivery times.



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FinnSonic maintains certified quality and environmental programs ISO 9001:2008 and ISO 14001:2004.