FinnSonic

ULTRASONIC CLEANING UNITS FOR MAINTENANCE

FINNSONIC CORUS

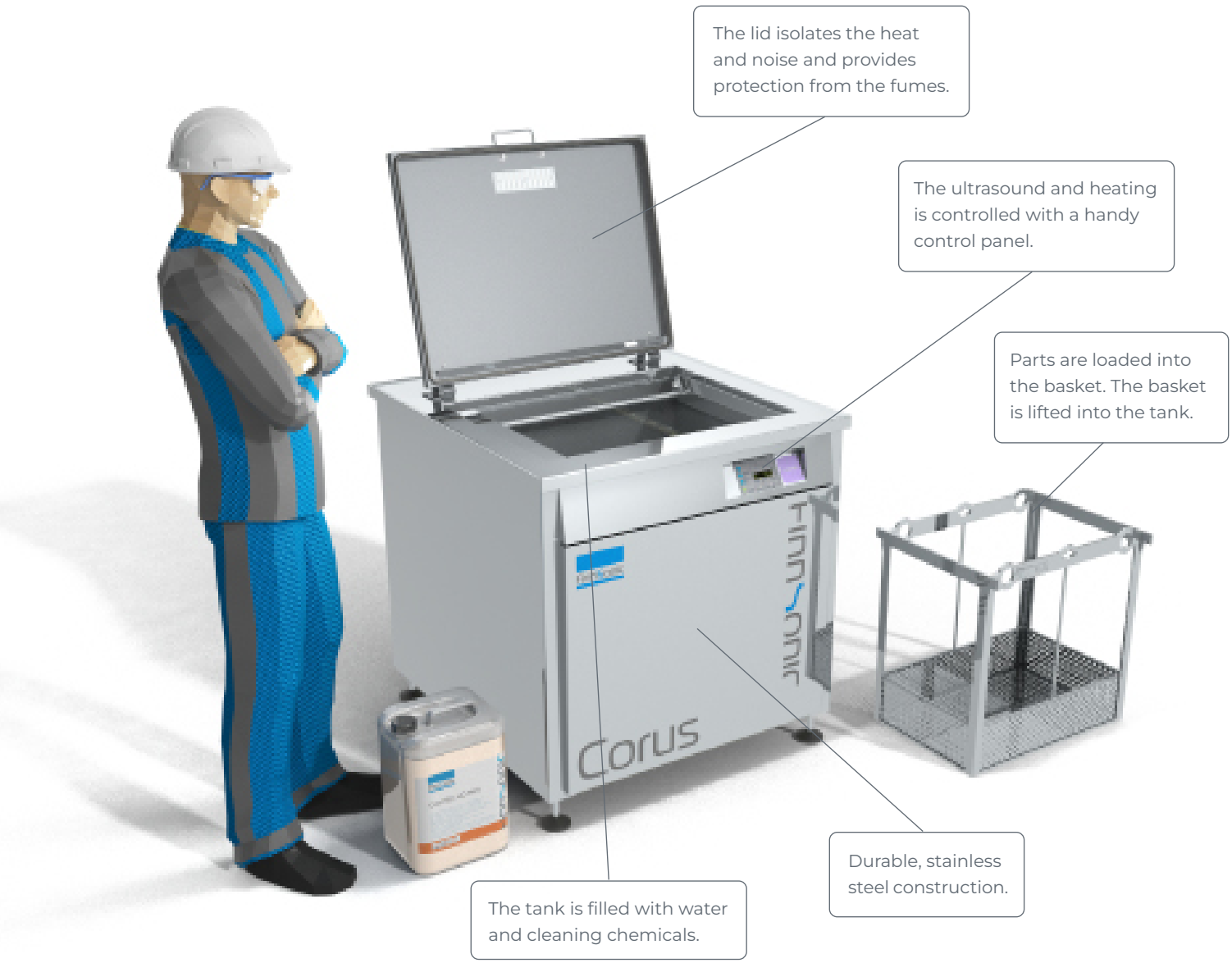


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FINNSONIC CORUS FOR GENERAL INDUSTRIAL MAINTENANCE CLEANING

Designed for the general industrial maintenance cleaning of complex parts, replacing laborious and abrasive mechanical manual cleaning. FinnSonic Corus units **clean even the most demanding parts efficiently, saving working hours, yet still achieving a high level of cleanliness**. FinnSonic Corus will reduce manual input, makes operating safe, and moulds & tools serve longer.

- Save Time And Labour
- Gentle Yet Powerful Cleaning
- Low Energy & Water Consumption
- Safe For Operator
- Modular Design
- Precise



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

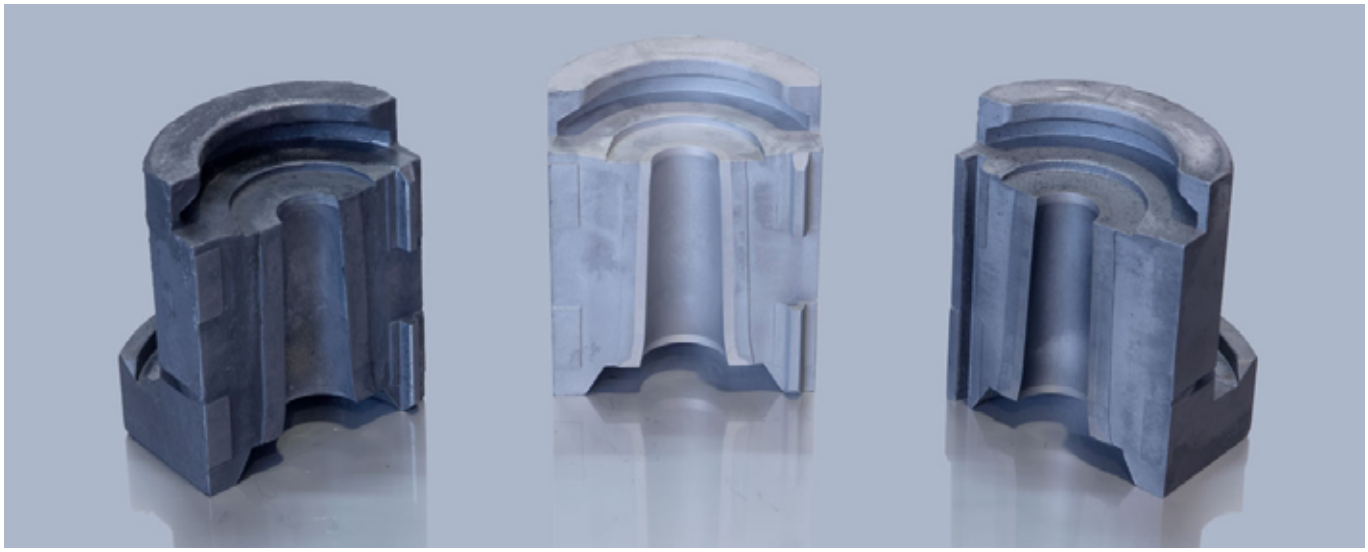
Corus HD

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

40–50% COST SAVINGS IN MOLD MAINTENANCE

Corus X

- Items with special dimensions, for example pipes



Glass moulds: Left: before washing, middle: cleaned with ultrasound, on the right: sand-blasted

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

CHOOSE FROM 3 MAIN MODULES



FINNSONIC CORUS

Standard modules for general maintenance cleaning.

FINNSONIC CORUS HD

Standard modules for mould and tool cleaning.



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.



TECHNICAL INFORMATION FOR CORUS MODULES

Technical information	Corus 120	Corus 240	Corus 360	Corus 480
Wash basket internal dimensions (mm)	300 x 538 x 442(h)	604 x 400 x 516(h)	800 x 600 x 658(h)	1208 x 800 x 658(h)
Load capacity (kg)	100	200	300	350
US effect (kW)	1,2	2,4	3,6	4,8
Tank volume (l)	135	286	670	1200
Heating effect (kW)	3	5	9	18

Main benefits

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

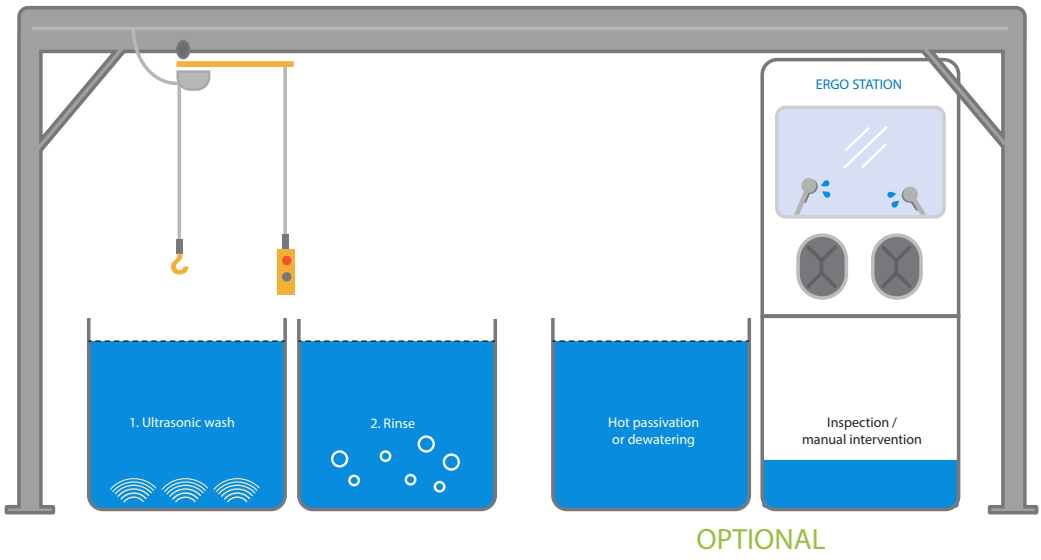
- FinnSonic Genius ultrasonic technology - constant maximum performance and high level of cleanliness
- Modular – flexible process configuration for an optimal cleaning result
- Safe and pleasant working environment with good ergonomics and low noise level
- Short cleaning process
- Reduces manual labour

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 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.



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

Main benefits in production

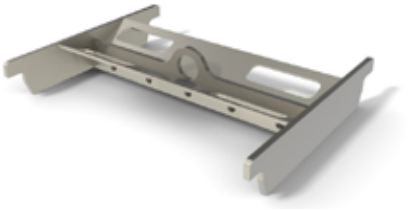
- Prolonged mould life; no abrasion of the mould's sharp edges, forms or surface
- Superior cleaning result of the moulds
- Longer mould productivity
- Steady production speed
- Reduced handling time of the final product
- High product quality
- Minimum percentage of rejected parts

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 Neo, is used for removing oxidation and lime scale.

OPTIONS FOR MOULD HANDLING

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.



TECHNICAL INFORMATION FOR CORUS HD MODULES

Technical information	Corus 120HD	Corus 240HD	Corus 360HD	Corus 480HD
Max recommended mould size (mm)	400 x 250 x 400(h)	450 x 300 x 450(h)	600 x 400 x 600(h)	800 x 400 x 600(h)
Tank effective dimensions (mm)	340 x 645 x 484 h)	654 x 449 x 603(h)	724 x 473 x 758(h)	924 x 473 x 758(h)
Basket internal dimensions (mm)	300 x 538 x 435(h)	604 x 400 x 516(h)	668 x 400 x 658(h)	868 x 400 x 658(h)
Load capacity (kg)	100	200	300	500
US effect (kW)	1,2	2,4	3,6	4,8
Tank volume (l)	135	286	410	500
Heating effect (kW)	3	5	9	9

Technical information	Corus 600HD	Corus 720HD	Corus 840HD	Corus 1200HD
Max recommended mould size (mm)	1000 x 400 x 800(h)	1200 x 400 x 900(h)	1000 x 700 x 800(h)	1200 x 700 x 900(h)
Tank effective dimensions (mm)	1150 x 470 x 950(h)	1400 x 500 x 1100(h)	1200 x 800 x 1000(h)	1400 x 800 x 1100(h)
Basket internal dimensions (mm)	1088 x 400 x 859(h)			
Load capacity (kg)	1000	1300	1600	2000
US effect (kW)	6	7,2	8,4	12
Tank volume (l)	840	1100	1300	2200
Heating effect (kW)	18	18	27	36

For more information contact our sales team or your nearest FinnSonic Distributor



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FinnSonic maintains certified quality program ISO 9001:2015.

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