




FinnSonic

FINNSONIC OPTIMA

Ultrasonic cleaning lines for manufacturing industries



cleaner • safer • smarter

A close-up photograph of a metallic, curved industrial component, likely part of a machine. The surface is highly reflective and shows fine, parallel lines from a grinding or polishing process. Several circular holes are visible on the surface. A prominent blue circle is overlaid on the center of the image, containing white text.

More than 500 fully
automated cleaning
lines delivered
since 1986

FinnSonic Optima

Heavy duty component cleaning solutions for manufacturing industries

Component cleanliness has significant effect in production quality, efficiency and bottom line results. FinnSonic Optima is the top-of-the-line, high performance range of multi stage ultrasonic cleaning lines.

FinnSonic Optima offers intelligent, safe and cost effective precision cleaning solution for demanding applications. Bespoke designs are provided for stringent requirements for cleanliness, material handling and highest volume throughputs. Both manual and fully automatic solutions are available with wide range of options.

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Main benefits

- » FinnSonic Genius ultrasonic technology provides a powerful, digitally regulated cleaning effect.
- » Flexible configuration possibilities ensure ideal solution for any cleanliness requirements.
- » Designed with the operator in mind, there are no compromises with safety and high level of ergonomics is ensured.
- » FinnSonic provides the Famous FinnSonic durability and reliability thanks to a service friendly and heavy duty construction.
- » Robust technology ensures equipment with long operating life.
- » Fully automatic lines with an intuitive control system and FinnSonic NetService remote support are designed for your piece of mind.
- » FinnSonic Optima provides a wide range of options to improve process efficiency and to minimize environmental impact.

Main characteristics

- » Flexible construction for building cleaning, rinsing, drying steps and bath maintaining options ensure best operating economy.
 - » Tank sizes from 150 liters upwards.
 - » Basket size examples: 300x400x400, 400x600x400, 600x800x600, 800x1200x600 mm. Bespoke basket sizes are designed for specific requirements.
 - » Load capacity is virtually limitless. Typical loads from 50 kg to 1 ton.
- » High powered ultrasonic technology with Boost, Sweep and automatic tuning technologies.
- » Loading, unloading and transport during process are possible when products are on pallets, rods, baskets or jigs etc.
- » Advanced FinnSonic automation with multi basket operation and options like time critical stages, energy saving program, data collection for quality control or remote control ensure high quality and optimized productivity.
- » Integration to preceding and following production steps is possible.

Main applications

- » **Automotive**
 - » Fuel injection components
 - » Air conditioning components
 - » Transmission parts
- » **Aviation**
 - » Jet engine parts
 - » Landing gear components
 - » Airframe components
- » **Metal**
 - » Cleaning after machining
 - » Cleaning after polishing
 - » Cleaning prior to coating
- » **Machinery**
 - » Hydraulic components
 - » Mechanical power transmission components
 - » Cleaning after thermal deburring
- » **Maintenance**
 - » Automatic solutions for, for example, tool and mould cleaning



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Automatic ultrasonic cleaning line features



Automatic process control – constant quality with ease of operation

- » Advanced standard features include, for example, an intuitive graphic user interface for easy setting of wash programs, bath temperature monitoring with adjustable tolerances and a Stop &Go mode for circulation pumps.
- » Optional features include, for example, time critical treatment stage, a custom tank order, an energy saving feature, data logging, batch reporting, basket flagging for automatic program selection, integration to factory systems and FinnSonic NetService for remote support and updates.



Material handling options for smooth production flow

- » Standard baskets
- » Special baskets/ jigs
- » Rotating baskets
- » Conveyor systems with various layout options
- » Integration to automatic loading and unloading systems
- » Trolleys for wash baskets

FinnSonic MBT automatic basket transporter – increased capacity with reduced manual input

- » Load capacity of 100, 200, 400 or 1000 kg
- » Heavy duty long service life construction
- » Multi basket processing
- » High level of safety as standard
- » Optional full encapsulation with lighting, access windows and a ventilation connection
- » Additional options: basket tilting

Reduces
labour costs
up to 50%

Bath maintenance options help achieve constant cleaning quality, increase bath life and minimize operating costs

- » Options include, for example, storage tanks, particle filtration, automatic filter blockage alarm, oil separation, automatic filling and dosing, conductivity/ PH/ turbidity based functions, DI water systems, and waste water treatment.

Modular cleaning, rinsing and drying units and options enable a flexible configuration of an efficient process

- » Wash and rinse stages can be fitted with a full range of agitation techniques including ultrasound, jet, sonicjet, basket dunking, air bubbles and spray in the air.
- » Ergonomic line construction with valve adjustments at the front, behind the hinged access doors
- » Drying modules based on recirculating hot air or vacuum technology
- » Additional options: spray on exit, air blast on exit, automatic lids, HEPA filter for the dryer air inlet, special tank material/ construction



FinnSonic Genius ultrasonic technology

- » Automatic tuning provides an always optimal cleaning effect, in spite of constantly changing bath conditions.
- » Ultrasonic generators are always fitted per cabinet. Cabinet ventilation and air filtration protect the generators from contamination and overheating.
- » Submersible AISI 316L ultrasonic transducer boxes with piezo ceramic sandwich elements, secure fitting and easy serviceability



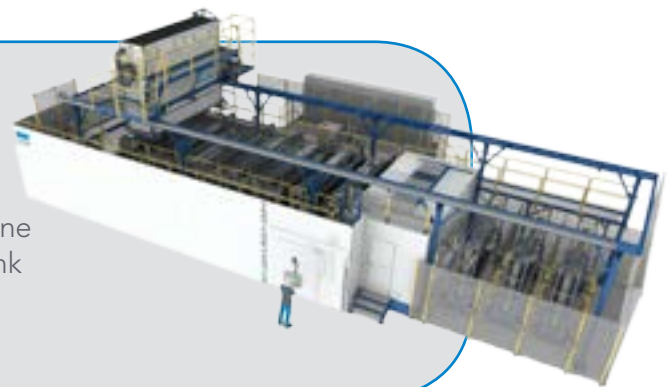
Material handling options for comfortable manual operation

- » PTM Easy lift - pneumatically assisted basket handling of up to 50 kg capacity
- » CH – chain hoist assisted basket handling from 50 kg
- » LP – load platforms for tank specific lifting/ dunking
- » FinnSonic Optima 300/III HD with a PTM50 pneumatic assist lift that makes manual handling of the basket a breeze.



FinnSonic Optima VI-2400/8000 DHD MBT400

- » Automatic ultrasonic cleaning line with a 8000 l and 24 kW US / tank



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FinnSonic maintains certified quality and environmental programs ISO 9001:2008 and ISO 14001:2004. FinnSonic products are GOST R approved by the Customs committee of the Russian Federation Government.