

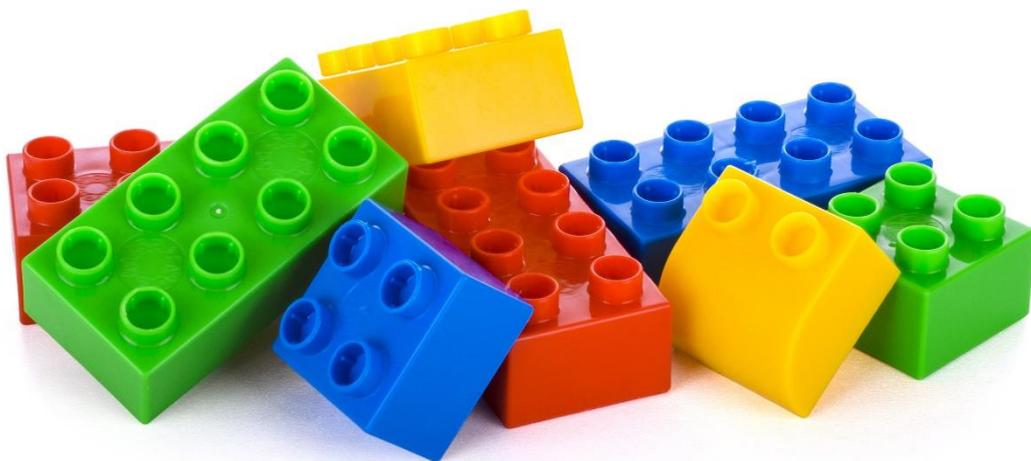


**FinnSonic**



# **Tool and Mould Cleaning**

**Maintenance cleaning solutions for toolroom  
to reduce costs and increase quality**

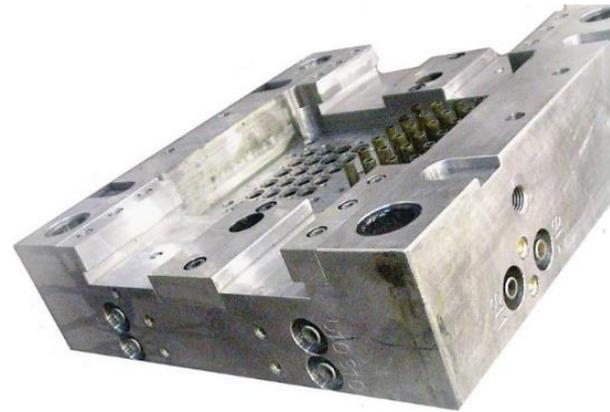


**cleaner • safer • smarter**

## Tool and Mould Maintenance is Profitable

Moulds and tools are an expensive investment for various manufacturing industries. In order to keep them in good condition and prolong their lifecycle, they require regular cleaning. This may relate to e.g. job changes and/or maintenance requirements. Material build up, release agents, lubricants and other contaminants must be cleaned off thoroughly without damaging the moulds and tools.

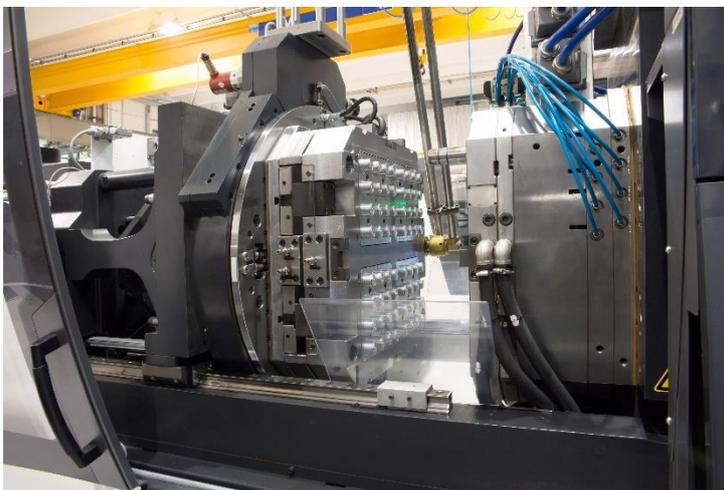
Conventional methods such as manual cleaning or media blasting are labour-intensive and they cause expensive breaks in operations and production. They can be even harmful, while shortening tool life and still leaving critical areas unclean. FinnSonic tool and mould cleaning concepts provide solutions to these problems.



### Clean moulds allow

- ✓ constant production speed
- ✓ reduce end-product post-processing
- ✓ high end-product quality
- ✓ a small percentage of wastage

## Ultrasonic Cleaning can reduce maintenance costs by up to 50 %



Ultrasonic cleaning is a combination of chemical and mechanical cleaning, which guarantees a superior washing result. As a faster, more efficient, and safer alternative to conventional methods, the use of ultrasound in mould and tool maintenance has typically resulted in maintenance cost savings of 40-50%

## FinnsSonic Applications and Benefits

Application	Cleaned components	FinnsSonic benefits
Plastic injection moulding	Mould plates Mould inserts Ejectors Screwing systems	Thoroughly cleans burnt-on residue from mould cavities without damaging sensitive surfaces.
Rubber moulding	Mould plates Mould inserts Ejectors	Effectively cleans the stubborn media and release agent residues from mould cavities.
Die casting, zinc, aluminium	Mould plates Mould inserts Ejectors	Thoroughly cleans media, release agent and lubricant residues from mould components.
Synthetic fiber extrusion	Spinnerets and other spin pack components	Thorough cleaning of spinneret holes after pyrolysis down to micrometer diameters
Plastic profile extrusion	Extrusion tools	Effective cleaning of burnt on residue without damaging extrusion tools.
Container glass moulding	Mould cavities neck rings plungers	Thorough cleaning of pin vent holes on blow moulds. Effective cleaning of burnt on swabbing compound, carbon, oxide layers with less wear.
Aluminium extrusion	Extrusion dies Die rings	Accelerated aluminium removal from dies
Stamping, punching, bending	Stamping, punching and press brake tools	Thorough removal of e.g. Al, Zn buildup without damaging tools.
Aluminium coil slitting	Slitting knives spacers	Thorough removal of material build-up and other contamination with stain free finish.

## FinnSonic Cleaning Solutions

FinnSonic has been designing maintenance cleaning machines for various industrial fields since 1979. We offer complete process solutions including process testing, recommendations, chemicals, equipment and support service.

### FinnSonic quality

- ✓ Powerful ultrasonic technology
- ✓ Cleaning machines designed for heavy objects
- ✓ Extensive range of equipment for different cleaning needs and capacity requirements, from manual single modules to automated multistage solutions
- ✓ Vast range of options from closed drying and mould surface quality inspection units to liquid handling options and hoists
- ✓ Long service life

### Better cleaning with a simple process

- ✓ No freckles on cavities
- ✓ Removes carbon residue in channels, ornaments, and difficult shapes
- ✓ Removes both dry and wet contamination - oven drying is not necessary
- ✓ Fast, effective, safe



### Longer tool and mould life

- ✓ No abrasion on surface
- ✓ No blunting of edges and corners



### **Savings in operational costs**

- ✓ Fast cleaning with less operator input
- ✓ Mold maintenance time reduced by up to 40 %
- ✓ Quick ROI

### **Better end-product quality**

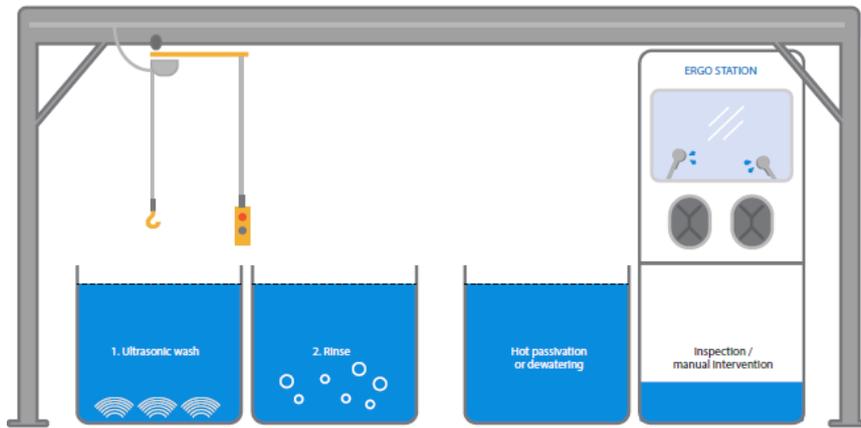
- ✓ Reduced end-product post-processing
- ✓ No damage on polished surfaces
- ✓ No rejects due to insufficient mould cleaning

### **Safe and environmentally friendly processes**

- ✓ Cleaning processes in an enclosed space
- ✓ Ergonomic handling of moulds with baskets and hoists
- ✓ No harsh chemicals required
- ✓ Low energy and water consumption



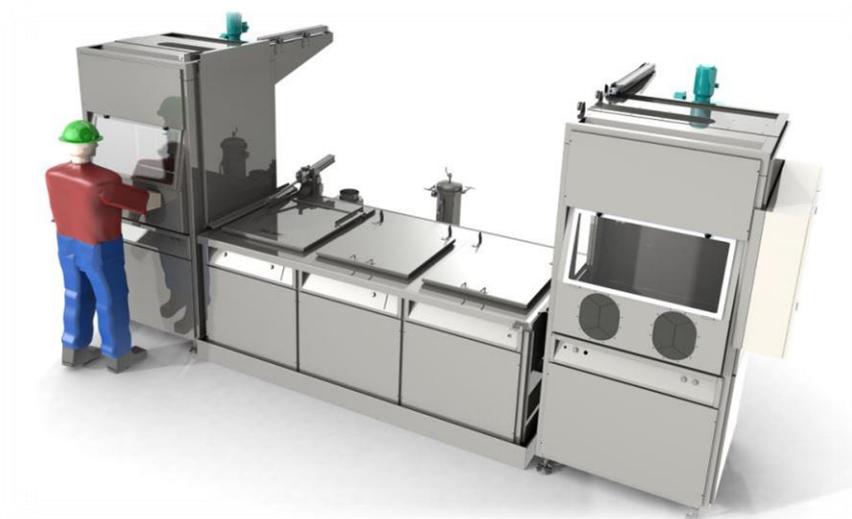
**The washing process** is designed based on the contamination, the capacity requirements and the size of the tools and moulds.



The handling of the objects during the washing process is easy and safe with the baskets and hoists.

### **FinnSonic Corus HD for manual cleaning**

FinnSonic Corus is a cost-effective solution for mould and tool cleaning.



## **FinnSonic Versa Genius+ for manual-assisted and fully automatic solutions**

FinnSonic Versa Genius+ is a modular, compact and smart solution for multistage process requirements with a load capacity of up to 50 kg. Manual-assisted and fully automatic solutions are available.



## **FinnSonic Optima Automatic Lines**

FinnSonic Optima is a flexible, heavy-duty solution for multi-stage process requirements. The solution can handle tank sizes in excess of 10 m<sup>3</sup> and load weights of several tons.



## Some of Our Customers



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FinnSonic maintains certified quality program ISO 9001:2015.