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METAL CLEANING

EXPERIENCE & INNOVATION
MADE IN ITALY
Since 1978

IH SERIES

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METAL CLEANING

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HIGH PRECISION CLEANING

LOW SOLVENT CONSUMPTION

A challenging project

The process

iH Series: the solution which did not exist!

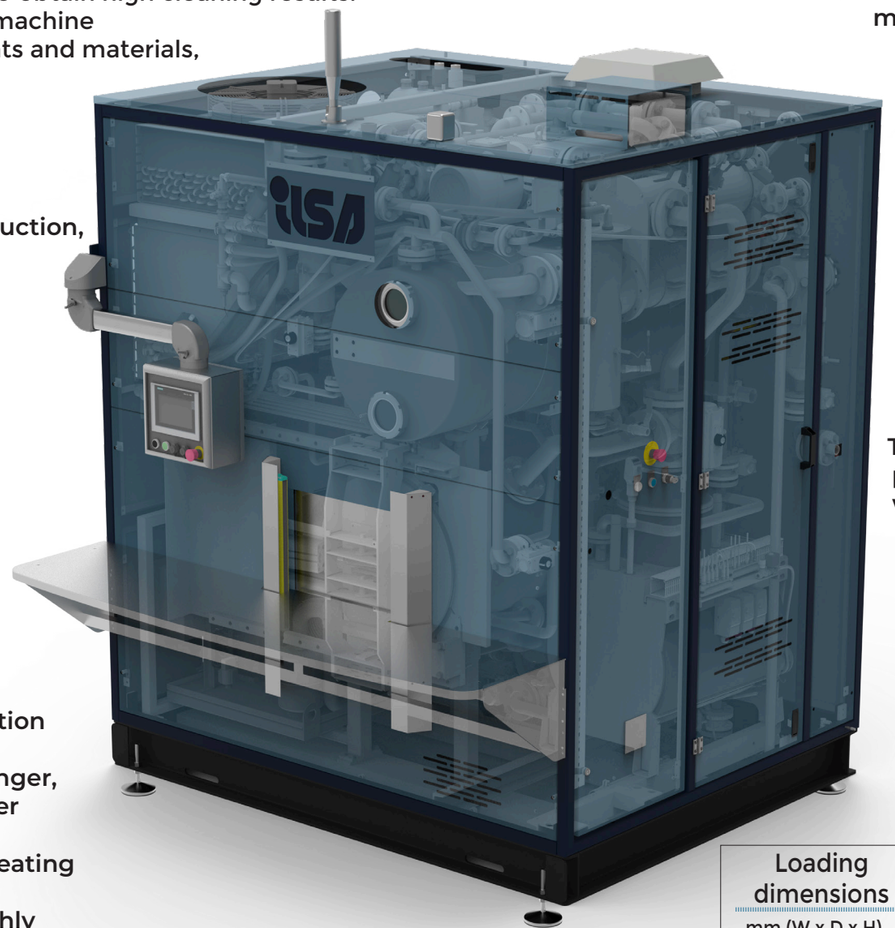
First batch released in the 2010s and now being technically improved, the iH series was born from a charming technical challenge: low-boiling point fluorinated solvents used in closed circuit machines.

These solvents are used in precision cleaning thanks to the low surface tension value which allows better permeation into complex geometries to obtain high cleaning results. Another advantage is the low exercise temperature of the machine and the wide range of compatibility with many contaminants and materials, like metal and even plastic.

Beyond being non-flammable, the products have a lower environmental impact and through its use in closed circuit machines, comes a lower consumption.

This design philosophy, always backbone of ILSA-MC production, helps keeping the consumption of product at the lowest, benefiting management costs.

To this day, this branch of solvents is commonly used in open-top or semi-hermetic machines. ILSA-MC iH Series fills a gap in the global proposal of metal cleaning machines by allowing the exploitation of the performance of these products in an hermetic plant in closed circuit.



Perspective change in fluids use

The challenge has been faced adopting construction and process logic with the aim of maximizing the performance of the solvents and keeping them inside the machine at the same time. According to ILSA-MC philosophy, the solvent is never placed in contact with the external environment, even indirectly.

iH Series revolutionizes the logic of using these fluids: in traditional open-top machines, the parts are dipped in the solvent bath; in the iH Series, the liquid is transferred trought a closed circuit from the tank to a real treatment chamber. This concept allows the application of many dynamic cleaning actions on the parts and simplifies the removal of contaminants from them.
One compact machine, multiple cleaning actions: pre-cleaning, total immersion, ultrasounds, filtration and drying can be carried out in one chamber, avoiding multiplying the number of bath thus limiting plant sizes and costs, even operative.
Beyond better cleanliness results, iH Series ensures an always purified solvent using the continuous distillation integrated as standard which means process repeatability: a big step forward compared to day-by-day accumulation of contaminants in open-top bath.
Thanks to physical characteristics of the products, the drying phase is performed efficiently using hot air circulation and vacuum combined with specific low-temperature condensation section allowing solvent collection directly in the plant.
iH systems makes the minimization of the atmosphere emissions possible, at unthinkable levels with other kinds of machine.

Simple and intuitive

Ease of use, high performance

The development of iH Series has kept the ease of installation and utilization as a main aspect:
- refrigeration unit served by an integrated air heat exchanger, thus the system is completely free from external grid water connections
- tanks and distiller heating made by integrated electric heating elements;
- equipped with touch screen HMI, the system offers a highly customizable cleaning programs library and a dedicated one for automatic maintenance cycles. It shows all the parameters allowing fast and cohesive diagnosis thanks to a smart remote connection.
- easy and safe connection with the filling containers to avoid dispersion in the environment.

Thanks to non-energivorous solvents, combined with a cutting-edge cleaning process, the plant energy consumption is minimized: minimum effort, maximum results.

Our models

	Loading dimensions mm (W x D x H)	Loading volume lt	Productivity cycles/h	Loading capacity kg	Chamber volume lt	Machine dimensions mm (W x D x H)
iH10	220 x 380 x 200	15	4-5	30	60	2000 x 1600 x 2410
iH20	320 x 480 x 200	30	4-5	50	100	2000 x 1800 x 2410
iH40	350 x 500 x 350	60	4-5	100	220	2200 x 2000 x 2410