

HEIN-HEG

Ideas for cleaning

CONTINUOUS-FLOW DRUM CLEANER
DRUM-CLEANER



HEIN-HESØ – cleanliness in perfection

HEIN-HESØ GmbH has been at the service of its discerning customers as a competent partner for individual industrial cleaning plants for 25 years now. The second generation of the Hein family is already taking care of the cleaning of workpieces of all kinds at the highest level. Having been accompanied by continuous growth, the specialist for industrially used cleaning machines is still looking optimistically to the future today.

Worldwide distribution of German/Danish quality

From its headquarters in Lohmar, HEIN-HESØ distributes its highly specialised systems within Germany and Europe as well as overseas. The customer gets everything from a single source, from the design and manufacture through to the commissioning and maintenance, thus guaranteeing a smooth and trouble-free process.

Our recipe for success – customer orientation

Just like every customer, each industrial cleaning system that HEIN-HESØ manufactures is unique. The individual requirements and wishes of the customer are decisive during the planning and design of each machine.

The cleaning machine professionals are also open to the customer's own ideas.

Personal contact is always to the fore, because that is the only way to find the right solution for every task.



The highest demands require top quality

The continuous-flow **DRUM CLEANERS** are conceived as **all-stainless steel cleaning systems** for inline and central operation. Their sophisticated design enables the throughput of large lot sizes with optimum cleaning and drying results.

Bulk goods of all kinds as well as individually-fed parts are conveyed safely and gently through the system. Various feeding systems such as bunker conveyors or vibrating chutes are possible, depending on the customer's requirements.

Further tasks such as coating with solid-film lubricants or anti-corrosion coatings or the phosphating or de-phosphating of workpieces can be accomplished reliably and quickly with the DRUM CLEANER.

We determine the size and version of the system reliably during trials in our pilot plant. Our customers are welcome to accompany these trials personally!



In conjunction with the **PLC-controlled emptying system**, the DRUM CLEANER can be used **in unmanned operation around the clock*** thanks to the series-standard cascading fresh water supply, including detergent dosing. A fresh water and/or wastewater connection is necessary for this option.

The capacity of the media filtration is defined according to the accumulation of oil or dirt. Our high-efficiency oil separators make long washing media service lives possible. Nozzle protection filters are standard; larger pressure filters are optionally possible.



The circulating cleaning medium is fed in the return line via easily accessible **stainless steel strainers**. The strainers are easy to remove for cleaning. Ferromagnetic particles can be removed from the return flow here by magnetic separators.



A cleanly mounted screw conveyor (fully welded if desired*) enables the trouble-free transport of even the smallest parts. The high-positioned nozzle pipes, which are height-adjustable on request, allow sufficient free space even with larger workpieces or higher fill levels.

*Optional

Strong stainless steel for a reliable drum drive

The stainless steel drive chain is kept at the correct operating tension by an automatic chain tensioner. The drive is monitored by an incremental encoder to prevent damage due to jamming and overloading. The stainless steel drum rotates securely on plastic rollers with ball bearings.

The perforation of the washing drum is selected to suit the size and geometry of the parts. Custom perforations or slotted plates are also possible.



Powerful side-channel compressors generate hot air for drying the parts

The hot air is blown onto the washed items via a nozzle pipe, thus ensuring a high drying performance. As with washing and rinsing, drying can also take place from both inside and outside the drum.

Energy efficiency during drying thanks to recycled hot air.

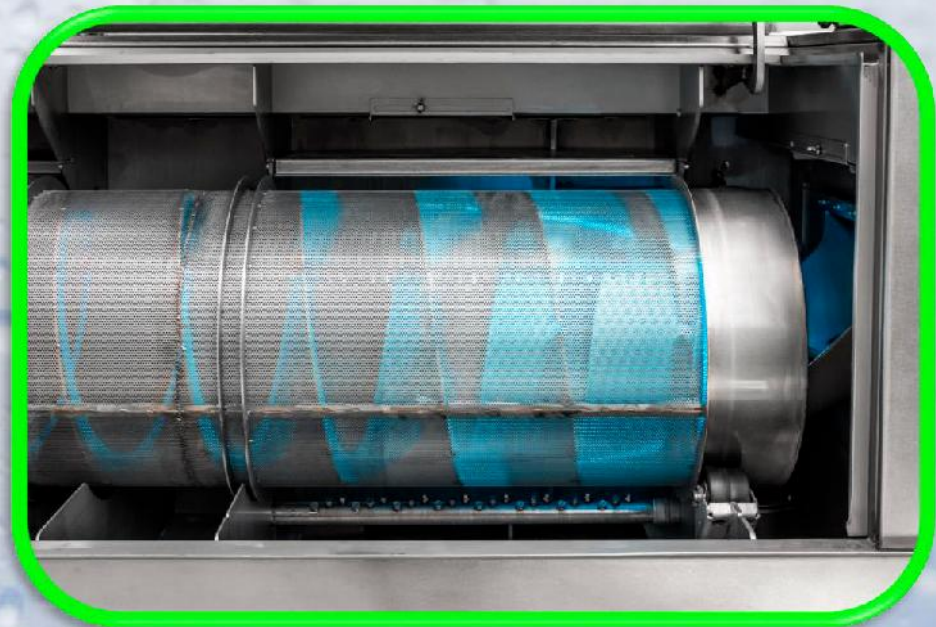
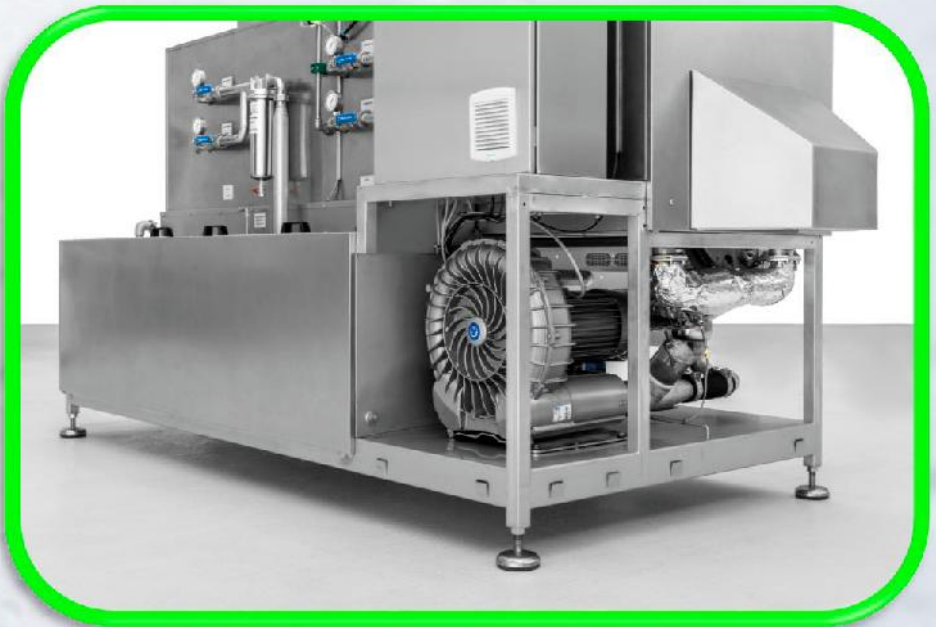
Part of the hot air is drawn in again after leaving the drum and is fed back into the side-channel compressor.

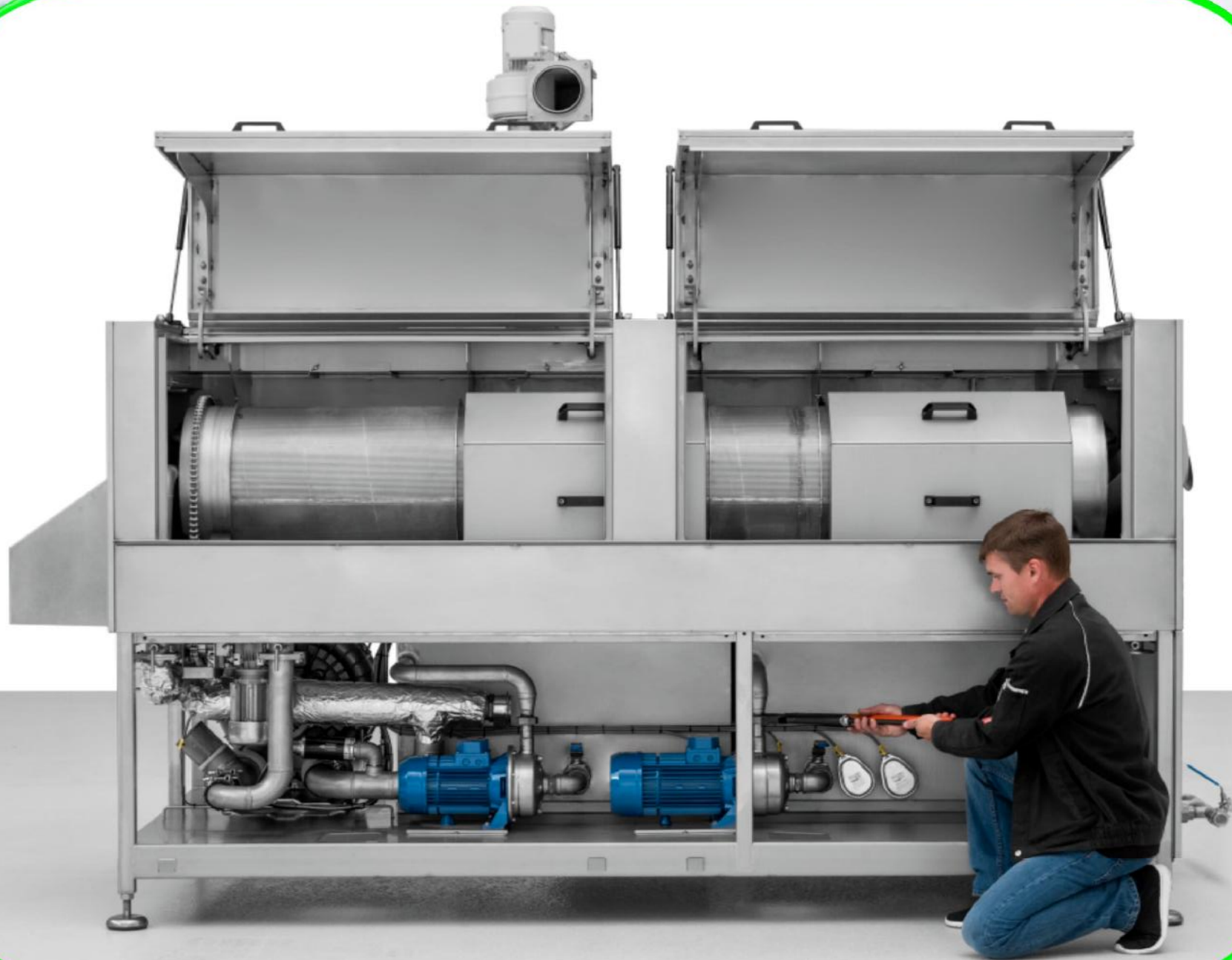
Effectively designed nozzle pipe arrangement

The spraying process takes place from inside and outside the drum so that an outstanding cleaning result is achieved, even with complex components.

An additional effect of this technology is that the washing drum is continuously cleaned during washing and rinsing.

In addition, the components are flooded each time the drum revolves, so that hollow parts are also cleaned extremely well.





Low maintenance costs through ease of maintenance

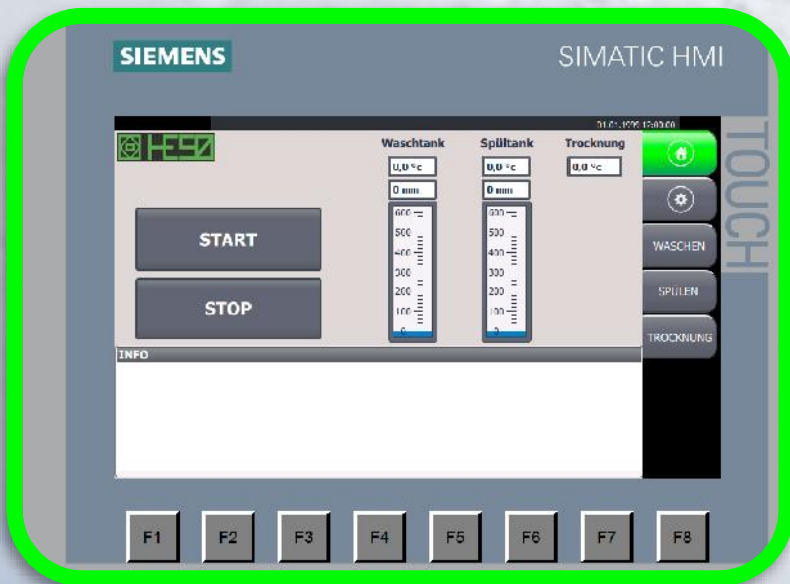
Music to the ears of the maintenance staff: every functional and working part of the DRUM CLEANER is easy to reach. The washing drum is monitored by sensors and is particularly easy to access via large, insulated flaps. The complete substructure is easily accessed via removable stainless steel insulating panels.

The machine is fully insulated both thermally and acoustically.

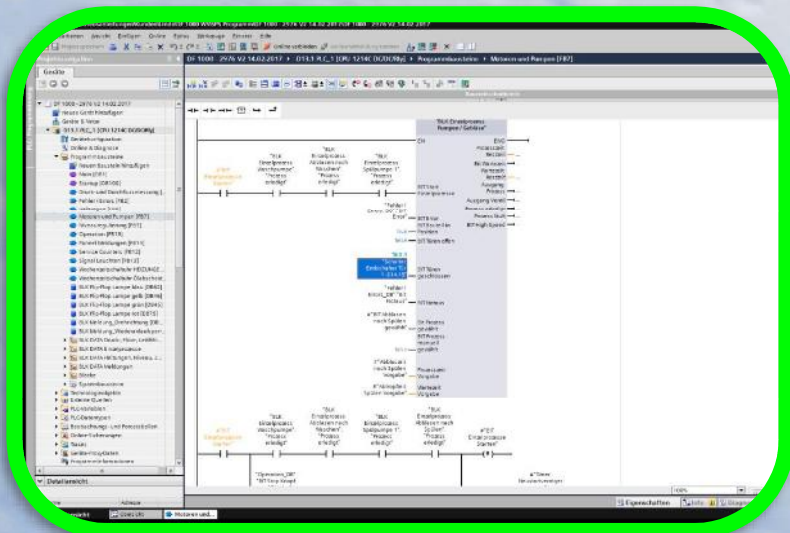


All electrical components and installations are state of the art and meet the strict requirements of the VDE standards and the currently valid EU standards.

The system is controlled by a Siemens **PLC**, which is operated via a **touch screen**, if desired with Profibus or Profinet connections* for communication with factory systems or loading and unloading systems.



All parameters remain freely selectable and adjustable. Customer wishes regarding function and equipment are naturally fulfilled.



In-house programming enables adaptation of the controller to all customer-specific requirements.

Industry 4.0 – no problem for us: Connection to master computer via OPC-UA or the controllers of peripheral devices such as handling, distribution belts or weighing systems.* Just ask us!

* Optional

The washing and rinsing zones of the DRUM CLEANER are sealed off all-round with stainless steel splash-protection plates.

These splash-protection plates ensure good separation of the media and can be removed with no effort for cleaning and maintenance of the system.

There is a neutral zone between the washing and rinsing areas so that the media carry-over from zone to zone is minimised.



THE solution for complicated shaped parts that must not be damaged under any circumstances

Full plastic lining of the washing drum*, including a plastic screw conveyor. Transport with one part per screw channel is possible in order to prevent collisions of the parts with one another.



Each system is unique

The modular design allows a wide range of configuration options when planning the system, so that the DRUM CLEANER can be adapted optimally to the foreseen task. A wide range of equipment options makes individual solutions possible.

The cleaning systems can be supplied in various sizes and drum diameters.

Compact design

Production space is expensive and usually tight. That's why our motto is:
as large as necessary and as small as possible!



*Optional

Further types of system from our range:



The **COMPO-CLEANER** – an extremely robust, universal **continuous-flow system**. The modular design allows a wide range of configuration options when planning the system, so that the COMPO-CLEANER can be adapted optimally to the foreseen task. A wide range of equipment options makes individual solutions possible. The cleaning systems can be supplied in various sizes and passage widths.



The extremely stable **stainless steel top-loaders from the RT and DT series** with different washing chamber sizes can be adapted individually to requirements. **The "DT" series is fully insulated** (see fig.)

The "DF" series of front-loaders is available in many versions tailored entirely to your needs. The all-stainless steel systems are suitable for intensive interim or final cleaning in workshops as well as in production lines directly following a production plant.



The BLOW-CLEANER – cleaning with compressed air

Significantly improves the circulating air at the place of work and prevents misty production halls.

The machine's environment such as measuring instruments, workpieces, racks, shelves, hall floors, etc. stays clean.

THE RESULT - IMPROVED OCCUPATIONAL HEALTH AND SAFETY! No injuries due to flying swarf, considerable lowering of the noise level.



The customer's wishes and requirements come first for us

Together with our knowledge and decades of experience, they form the basis on which each individual machine is tailored entirely to the customer's needs.

Personal contact with the customer is particularly important to us, which is why HEIN-HESØ also exhibits at many important international trade fairs.

During the planning of a project we gladly absorb our customers' ideas in order to develop the best machine for them.

The customer's presence is very welcome when we carry out washing tests in our new pilot plant.



Quality is created only at employee-friendly, modern workplaces

Just as we do today, we will continue in future to use exclusively the best manufacturing methods and to develop them further for our needs.

Continuous further training is a matter of course for our highly motivated employees and guarantees knowledge of the state of the art at all times.

Our comprehensively trained technicians meet all industrial requirements in practice.



Company history

- 1990 Establishment of "Werner Hein Industrievertretung"
- 1995 Distribution agreement with "HESØ A/S"
(manufacturer of industrial cleaning plants from Vejle, Denmark)
- 1999 Establishment of "HEIN-HESØ GmbH"
by Werner Hein and HESØ A/S
- 2002 Dipl. Ing. Stefan Hein joins the company
as Works Manager at the Lohmar site
- 2010 Dipl. Ing. Stefan Hein becomes Managing Director
- 2014 Erection of new office and technical premises, including
large hall for system exhibition and washing tests in Lohmar

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