



creating  
solutions  
together



## WASHING SYSTEMS

KSN has produced Danish quality for more than 25 years

KSN Industri creates solutions with its roots in good workmanship and today, it is a modern and successful company with an outstanding reputation.

KSN Industri A/S is a supplier of high-quality washing systems. Together with our clients, we create complete solutions because we work closely with the client throughout the whole process.

In our drawing office, we develop everything in 3D, which enables the client to both form a general view and to focus on the details before production is initiated.

Together we eliminate the biggest pitfalls, and our experience and proactive approach prevent the project from being delayed should issues arise.

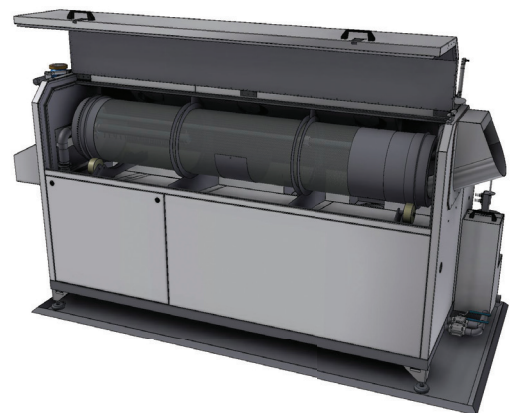


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Improved working  
environment



Increased  
production capacity



Designed for  
easy servicing

# READY FOR FURTHER PROCESSING

## Washing and drying directly in the production line

Our standard washing machine is constructed in stainless steel and is controlled by a Siemens or Allen-Bradley plc.

It is operated via an intuitive panel where language can be selected according to need. Danish, German, and English are standard, but translation to other languages is possible if desired (option).

All necessary functions can be viewed in the panel, which also provides the possibility of setting the machine parameters.

The drum washer can operate as standalone or as part of a production line with interface to other machines.

The items that are to be degreased may come directly from another machine or assembly line or they can be fed manually. They are gently taken through the machine using a drum with an internal spiral conveyor.

Generally, the machine is divided into three zones: Washing, rinsing, and drying.

In the first zone, the items are cleaned with alkaline soap that dissolves residual oil and cooling lubricant from cutting or bending operations. If oil is present on the surface, a separator can be acquired that removes free oil, making the washing water last longer. Metal shavings and other impurities are caught by a special filter.

The rinsing zone is built up in the same way as the washing zone. Here, any residual soap or metal shavings are removed with clean water.

Lastly, the items are dried by means of warm air, through a high-pressure blower, of up to 110° C.

### Improves the working environment

- KSN's drum washers are in-line machines that are often used in an automatic line, meaning that there is no extra handling in connection with the process. It can be programmed to start when items are fed and to shut down when no further products are present. This means a lot less heavy lifting for the employees.
- Exhaust ventilation is installed so that the employees are not exposed to steam.
- A closed construction and insulation of the machine reduce the noise/heat level to the lowest possible level.

### Reduces water wastage

- KSN's oil separator (option) cleans the water if there is free oil on the surface. This reduces the water consumption in the process, entailing big savings concerning disposal of wastewater.

### Easy servicing

- Service-friendly design constructed with quick and easy access to all vital parts of the machine. Easy and quick to service.

### Proven solution

- KSN's drum washers have been sold to more than 600 clients all over the world. They are built for 24/7 operation and generally, years go by before our clients contact us concerning spare parts and service.

### Processing items with a diameter of Ø5 to Ø200

- The machine can be configured according to item dimensions, type, and quantity per hour.

### Short payback

- KSN's drum washer replaces several employees and the payback time is often less than six months.

## Options

- Various drum solutions depending on product
- Integration of infeed equipment
- Integration of outfeed equipment
- Oil separator option
- Products can be coated
- Internet modem enabling remote diagnosis and new program configuration.
- Service/Spare part kit

