

# A New Dimension in Solvent-Based Cleaning

EcoCcore®

MADE IN  
USA

 product  
design award  
2014

**ECOCLEAN**  
*technology that inspires*



## Adding Value Through the Parts Cleaning Process

Rising demands for the quality of parts require increasingly complex solutions from industrial parts cleaning processes. With its innovative range of standard and individually customized cleaning systems, Ecoclean meets the cleanliness requirements of the most diverse industry sectors all around the world.

Perfectly adapted process engineering is a key component for efficient and customized cleaning solutions – irrespective of whether the parts to be cleaned are small or large, manufactured from metal, plastic, glass or ceramic, or whether the throughput will be high or low. By combining a number of different procedures, practically any required cleanliness level is possible. No matter whether you come from the manufacturing sector, the automobile industry or the aerospace field – you will always achieve the optimum result for your requirement.

Ecoclean is characterized by its superior technology and performance, continuous development and outstanding advisory and planning skills. Systems with sophisticated design and top quality features are setting new standards in industrial cleaning guaranteeing exceptional quality, high efficiency and availability. Compliance with occupational safety and environmental legislation is covered in both day to day and long term operation.

➤ The system design of the EcoCcore combines all the benefits of a solvent-based cleaning system with extremely simple operation.

With the EcoCcore system, the Ecoclean company has designed a solvent cleaning machine which is perfectly tailored to satisfy these requirements. The system offers maximum flexibility and high capacity with respect to throughput and volumes, with optimized cost efficiency as the result.

Guaranteed availability and high efficacy are the deciding factors for the successful and efficient cleaning of parts.

⊕ **A higher load capacity:**  
increases throughput and lowers unit costs.

⊕ **Adaptable operation:**  
with hydrocarbons and modified alcohols for changing production conditions.

⊕ **Optimized system technology:**  
for improved part cleaning.

⊕ **Exceptional ease of maintenance:**  
smart modular construction facilitates ease of maintenance.

⊕ **Intuitive system operation:** a new HMI panel with clearly laid out process tracking that includes integrated partial visualisation.

⊕ **High flexibility:** via a variety of available load compositions, combination filter housing and component preservation options.





Ecoclean demonstrates its responsibility for the efficient and careful use of resources. Thanks to continuous treatment of the cleaning medium, the energy-optimized system design with heat recovery and the low use of solvents, our solvent-based cleaning systems sustainably shorten your process times and lower equipment and unit costs, whilst guaranteeing quality and competency at the highest level.

## Your Benefits

### + EFFICIENCY

- Environmentally and energy-efficient system technology
- 100% heating of the flood tanks via heat recovery and distillation
- Continuous solvent treatment
- Automatic oil discharge into external collection tanks, used oil with a reduced solvent content and recycling of costly special oils for reuse possible
- Maintenance-friendly
- Optimized cleaning results

### + FLEXIBILITY

- Ideal for the flexible use of solvents (hydrocarbon, modified alcohols and polar solvents) without the need for additional conversion
- The combination filter housing supports the use of bag or cartridge-type filters, bypass filtration, possible double filtration and straightforward, fast filter replacement
- Preservation using a second flooding tank or an additional third preservation stage in the extension module
- Four-stage cleaning process



### + SAFETY

- Redundant safety concept using ATEX-compliant vacuum technology
- Straightforward and safe operation (HMI)
- Resilient pump technology facilitates the transportation of small parts with a maximum diameter of 19 mm and the optimum supply of solvent to the product basket
- Maintenance-friendly system design
- Reduced noise level

### + FORWARD-LOOKING TECHNOLOGY

- Carefully thought-out system design
- Modular, modern construction
- Operator-friendly, intuitive operation

# Straightforward and Safe Operation Guaranteed

The operator can view all process parameters at a glance on the newly developed EcoCore control panel. The straightforward and intuitive operation guarantees maximum safety and efficiency.

- Self-explanatory touch screen buttons
- Integrated partial visualization facilitates continuous process monitoring and optimizes maintenance
- Complete visualization can be added for comprehensive process tracking of all areas with clearly laid-out process graphics
- Automatic pressure and temperature control for straightforward operation and enhanced process safety and cleaning results which can be validated
- A PLC control system (Siemens) with PROFINET guarantees high flexibility with an Ethernet connection



# EcoCore – at a Glance

## Load size and weight

- Flexible load composition of:  
1 x basket 670 x 480 x 400 or  
4 x baskets, each basket 480 x 320 x 200 mm
- 200 kg load weight

## Media preparation

- High-performance, continuous distillation for reconditioning of the cleaning medium
- Highly-effective filtration which can be adapted to individual requirements
- Automated oil discharge to reduce system downtime

## Control panel

- Industrial grade Siemens control panel with a high resolution, 7-inch color display and a touch screen for simple, fast and safe operation

## Fully enclosed system housing

- Hinged roof area for simplified maintenance access
- Reduced noise emissions
- The closed system prevents the ingress of dirt into the interior

## System cladding

- Modern system design
- Safety glass
- Hinged doors allow for easy access for system maintenance

## Technical data

### SYSTEM DIMENSIONS

<b>Width</b>	4,663 mm
<b>Depth</b>	1,938 mm
<b>Height</b>	2,821 mm
<b>Loading height</b>	850 mm

### BASKET DATA

<b>Length</b>	670 mm
<b>Width</b>	480 mm
<b>Max. height</b>	400 mm
<b>Max. load weight</b>	200 kg
<b>Throughput according to workflow and processing time required</b>	approx. 8 – 10 loads/hour

### POWER RATINGS

<b>Electrical connected load</b>	480V / 60 Hz
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### TOTAL CONNECTED LOAD

<b>Depending on equipment</b>	53 kW
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### OPERATING TEMPERATURE

<b>Clean, rinse and preserve</b>	55 – 85 °C
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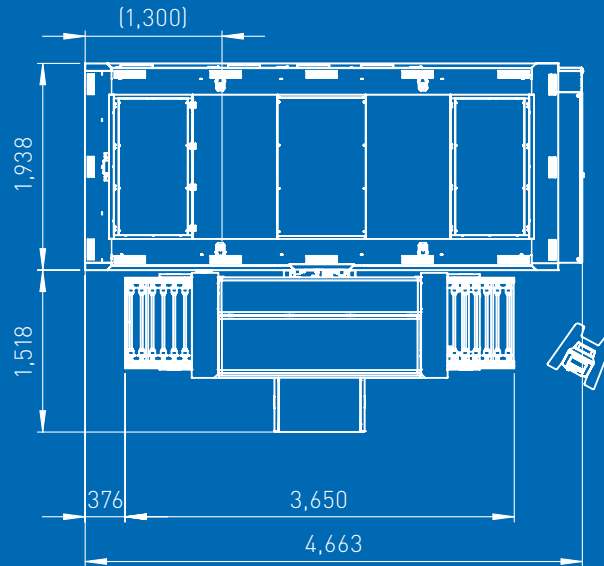
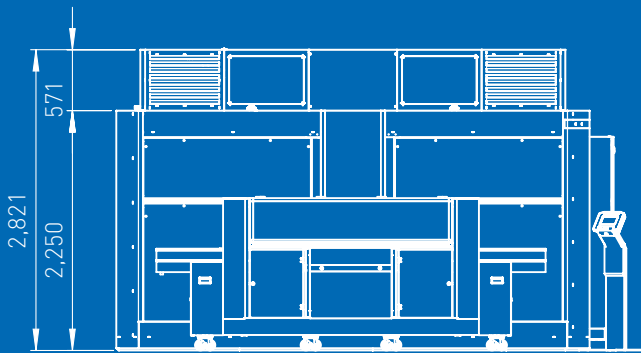


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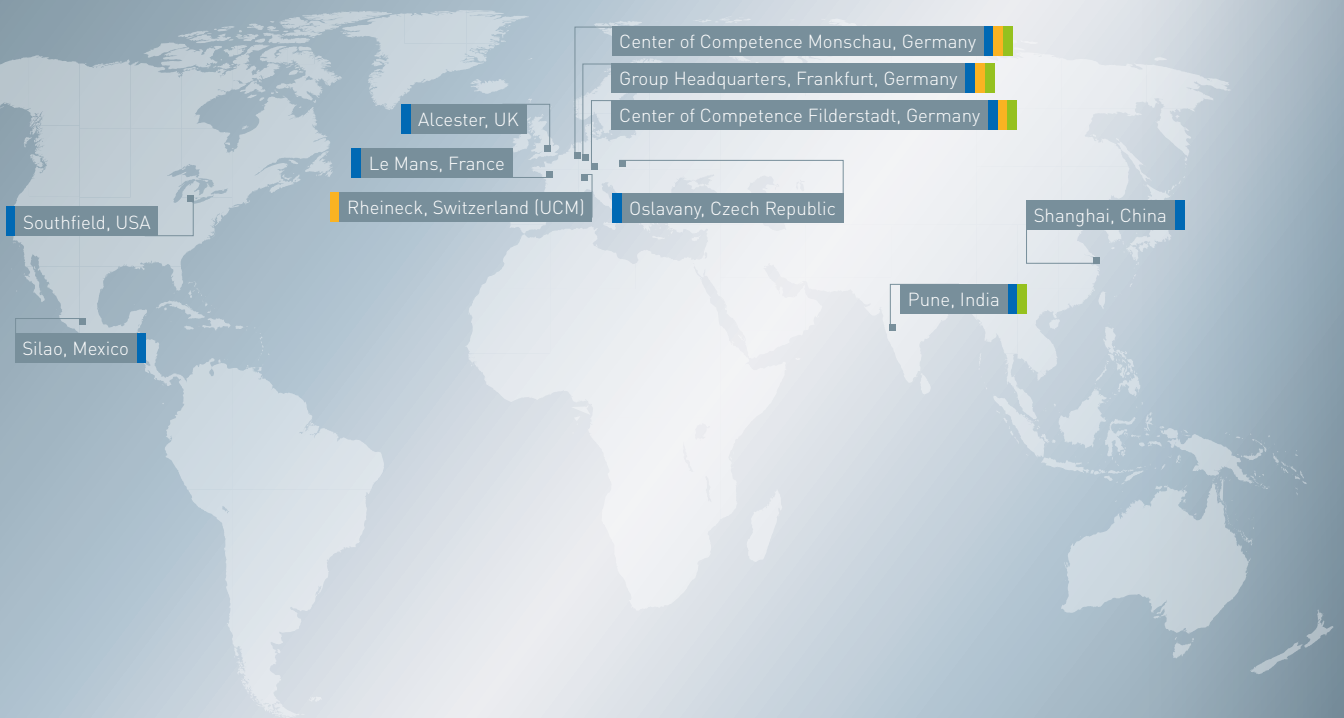
Energy Efficient  
Cleaning Systems

[www.ecoclean-group.us](http://www.ecoclean-group.us)

➤ EcoCcore – maximum flexibility and high capacity with enhanced cost efficiency.

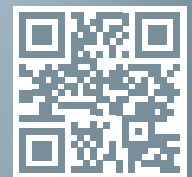


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