



Ecoclean



## ECOCLEAN 36W SFI

Cleaning Technology.  
Worldwide.

# ECOCLEAN 36W SFI

### The Process

The proven cleaning method is based on injection flood washing using a linear flooding system. A high-pressure water jet deburring function with subsequent spray treatment solves additional burr and flash removal tasks.

A vacuum dryer system ensures a 100% removal of moisture from all workpiece surfaces.

The optional Aquaclean conditioning system cuts the consumption of water and power by recirculating media in a closed loop. The discharge of waste water from the system is likewise reduced.

Recirculated air is cleaned and dried by a vapour absorber system which returns the extracted heat into the process. As a result, the unit operates without exhaust air discharge.

A Dürr automatic reversible-flow filter (DAR) system ensures a reliable discharge and de-watering of solid residue.



Dürr Ecoclean's proprietary Vapour AirClean (VAC) system can be added as a modular equipment upgrade to obtain a further improved workpiece surface finish.

### Fields of application

- Crankshafts
- Camshafts
- Fuel injection pumps
- ABS mouldings
- Transmission components such as gear wheels, spline shafts, etc.
- Engine housing parts
- Complex-shaped parts supplied on product carriers (,trays')



### Cleaning and deburring

#### High efficiency - cleaning and deburring in a single operation

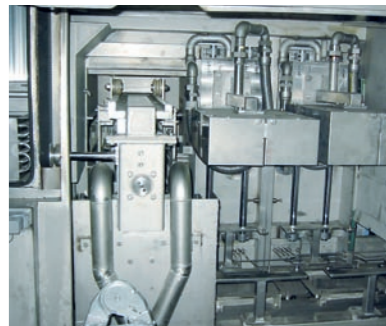
The integration of a high-pressure deburring system will boost the productivity of your part manufacturing operation since it eliminates the need for several downstream processes. Up to two additional robots can be fitted for this high-pressure deburring step.

### Benefits

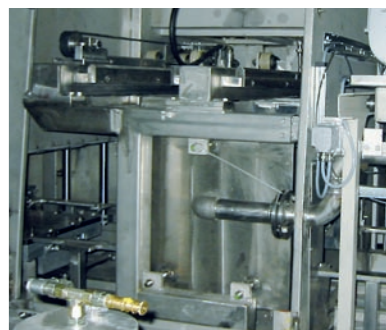
- Superior cleaning and drying results leave workpieces ideally conditioned for further processing
- Reduced investment cost
- Operating cost savings
- Reduced equipment footprint
- High throughput for optimum performance in rapid-cycle volume manufacturing
- Eco-friendly process technology, e.g., aqueous cleaning media, low waste water/air discharge volumes



*Flood chamber*



*Flood chamber with selective treatment using different pressure levels*



*Vacuum chamber*

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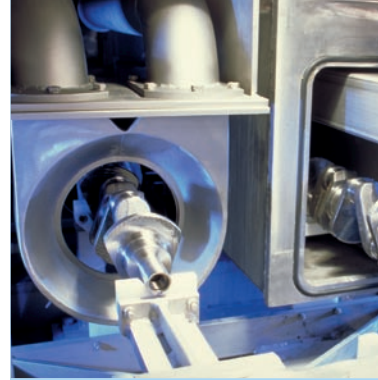
## Design

The modular system consists of standardized subassemblies. All major fluid-wetted components are made of stainless steel or otherwise corrosion-protected. In terms of design and execution, the system fulfils all applicable environmental protection regulations.

A rugged baseframe allows the system to be shipped in its fully assembled state. Erection and start-up times are thus reduced substantially. Generously sized maintenance openings provide easy access for maintenance and routine servicing.

The control technology (PLC, controls, man/machine interface) is fully integrated into the system. Pre-commissioning under near-field conditions is thus greatly facilitated.

A user-friendly graphic display software makes the system easy to operate and increases its availability when used in conjunction with remote diagnosis and reporting resources.



## Technical data

### Equipment specifications

#### ECOCLEAN 36W SFI

Length	5,500 mm
Width	3,020 mm
Height	2,800 mm
Weight*	8,500 kg
Connected electrical load	90 kVA

#### ECOCLEAN 36W SFI - VAC

Length	6,500 mm
Width	2,950 mm
Height	2,800 mm
Weight*	10,500 kg
Connected electrical load	150 kVA

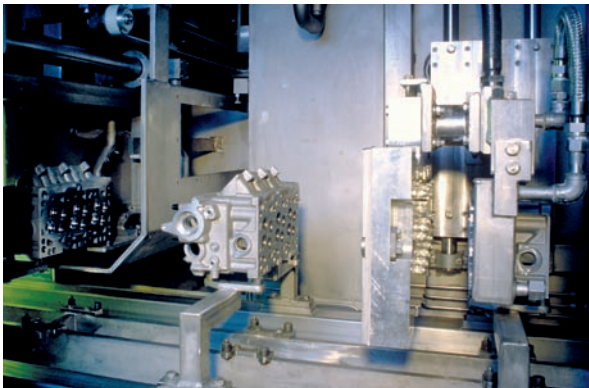
#### ECOCLEAN 36W SFI - HD/ROBOT

Length	8,500 mm
Width	4,540 mm
Height	2,800 mm
Weight*	16,000 kg
Connected electrical load	160 kVA

### Workpiece specifications

Length	max. 700 mm
Width	max. 350 mm
Height	max. 350 mm
Diameter	max. 250 mm
Weight	max. 25 kg
Throughput	max. 160 pcs./h
Noise level	≤ 78 dB(A)

\* dry



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