

# EcoCTrans



Ecoclean

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*EcoCTrans* is a new, powerful transfer cleaning system with a modular design.

The *EcoCTrans* components are based on proven Ecoclean transfer technologies that have been integrated and combined more intelligently. Technical enhancements were evaluated and brought together to create an entirely new and original machine. Despite its compact design, the *EcoCTrans* allows other components to be added on with ease. The innovations and improvements can be seen most clearly during machine operation. Many other enhancements were added to improve quality and reduce maintenance time.

## The Process

Optimum cleaning results and/or short cycle times are obtained by combining a continuous cleaning process with injection flood washing and spray treatment. A vacuum dryer delivers 100% dry workpieces.

The Dürr Automatic Backflush Filter System (FAS) removes and drains the leftover solids.

## Fields of application

- Cylinder heads and crankcases
- Shift valve housings
- Transmission and clutch housings
- Complex-shaped parts (e.g., ABS mouldings) treated on product carriers ('trays')





*The treatment side of the EcoCTrans*

### **Integrated high-pressure treatment for difficult cleaning tasks**

A jet of pressurized water produced by a multi-piston pump is directed at the workpiece via special adjustable nozzles. By activating nozzles selectively or over a full surface region it is possible to cope with particularly difficult cleaning or deburring tasks.

Some engine components can pose particularly exacting demands on cleaning technology. When the workpiece has stubborn dirt or production residue such as fine burrs or immobilized chips, a high-pressure cleaning stage is recommended.

### **Benefits**

- The modular concept ("window") enables quick and simple adjustment of the system according to workpiece and/or process requirements.
- Particularly good cleaning and drying results on cubic parts of complex geometry (e.g., cylinder heads, cylinder block, crankcases, transmission housings).
- High throughput for optimum performance in rapid-cycle volume manufacturing applications.
- Eco-friendly process technology, e.g., aqueous cleaning media, low waste water/air discharge volumes.
- Easy to operate and maintain thanks to its design and the size of its doors.



*EcoCFlex supply module*

# EcoCTrans

## Design

The modular system consists of standardized sub-assemblies. In terms of design and operation, the system fulfils all applicable environmental protection regulations.

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

The EcoCTrans has improved maintenance access that does not require a second floor maintenance gallery, as found on older-style transfer machines. The control technology (PLC, controls, human/machine interface) is fully integrated into the system. This enables pre-commissioning under near-field conditions. User-friendly graphic display software makes the system easy to operate and increases its availability when used in conjunction with remote diagnostic and reporting resources.

## Technical data

### Equipment specifications EcoCTrans – 6 Windows

Length	7,200 mm
Width	3,970 mm
Height	3,000 mm
Weight*	15,000 kg to 18,000 kg

### Equipment specifications EcoCTrans – 9 Windows

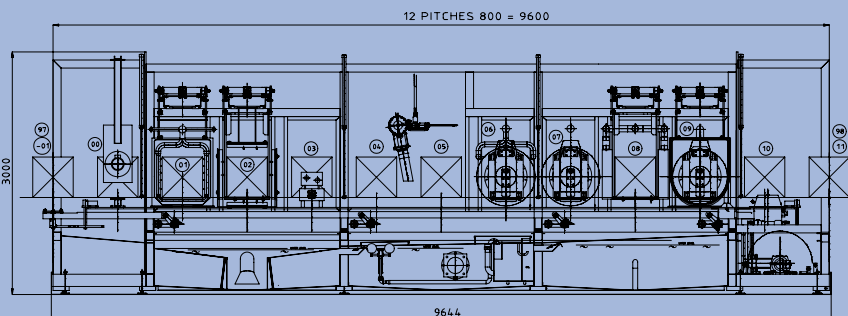
Length	9,600 mm
Width	3,970 mm
Height	3,000 mm
Weight*	20,000 kg to 26,000 kg

### Workpiece data

Length	max.	700 mm
Width	max.	500 mm
Height	max.	570 mm
Weight	max.	70 kg
Throughput	max.	120 pcs./h
Noise level		78 dB(A)
Noise level option		75 dB(A)

\* without container filling

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### Stations Machine

- 97 Loading
- 00 Self standing mist extraction
- 01 IF Wash 12 Bar Fixed Part
- 02 Spraying Wash 12 Bars
- 03 Deburring HP
- 04 HP Deburr with jet 400 B
- 05 HP Deburr with jet 400 B
- 06 Wash 6b Spraying and Rotation
- 07 Rotation Drain Part
- 08 Blow off knife air
- 09 Vacuum unit
- 10 Idle
- 98 Unloading

### Technical Area

- 10 Electrical Cabinet
- 11 Turbo Fan
- 12 Vacuum Pump
- 13 Water Make up
- 14 Heating
- 15 Feed pump
- 16 Safety Filter
- 17 HP Pump
- 18 Process Pump 6 Bars
- 19 Process Pump 12 Bars
- 20 Fas Filter
- 21 Chips Below
- 22 Chips Tank
- 23 Dürr Comau NH1 130
- 24 Cabint Comau

