

Flexible Cleaning Machines The Effective Solution

EcoCagile®



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technology that inspires

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The process

The EcoCagile M/L can either be equipped for use as a pre-cleaner with a single-bath-technique or with a two stage cleaning process for final cleaning. High-pressure deburring with up to 600 bar (75 kW) is optional for both variants. The basic configuration of low-pressure systems and the power injection flood washing are already included in the multifunctional container.

Power injection flood washing with the patented thin-flow nozzle provides optimal results in the basic configuration in the first process stage, while maintaining low energy usage.

Next to many optionally available high-pressure tools, the patented hybrid nozzle provides great results, especially with complex cavities. This tool is used afloat submerged and stands out due to, for example, its ability to reliably eliminate jammed chips.

Details

The separate cleaning processes take place in different multifunctional chamber. (high-pressure and low-processes pressure). The chamber contains fixed spray systems for powerful injection flood washing, targeted nozzles for precision cleaning, and optional high-pressure deburring.



➤ EcoCagile supply module

Additional cleaning processes can be retrofitted at any time:

- 7 bar power IFW for pre-cleaning
- Up to 600 bar for high-pressure deburring
- 7 bar for selective and/or general after-cleaning

The replaceable combinations of spray systems in the multifunctional chamber allow greater flexibility. Water pressure during washing and fixed spray systems in high-pressure chamber can be varied according to requirements.

Optional high-pressure systems:

- Lances for deep drilled holes
- Nozzle rake for smaller areas
- Thin-flow and full-flow nozzles for targeted deburring

Technical data

	M/1 Bad	M/2 Bad	L/1 Bad	L/2 Bad	HD Modul
Length	4,300 mm	4,300 mm	5,540 mm	5,540 mm	2,200 mm
Width	2,500 mm	3,400 mm	2,980 mm	3,780 mm	1,500 mm
Height	3,450 mm	3,450 mm	3,650 mm	3,650 mm	2,200 mm
Weight	6,000 kg	9,000 kg	7,000 kg	10,000 kg	800 kg

➤ Treatment module with integrated 6-area robot



+ Smaller foot print for equipment, compared to similar class products as a result of built-in power module

+ Modular design allows addition or removal of accessories according to customers' requirements

+ Intelligent software tools simplify production and maintenance operations as well as reduced wear-and-tear and power-consumption

+ Built-in filtering device

+ Adequate protection for all electrical components that come into contact with water

+ Large maintenance door facilitates easy maintenance and repair

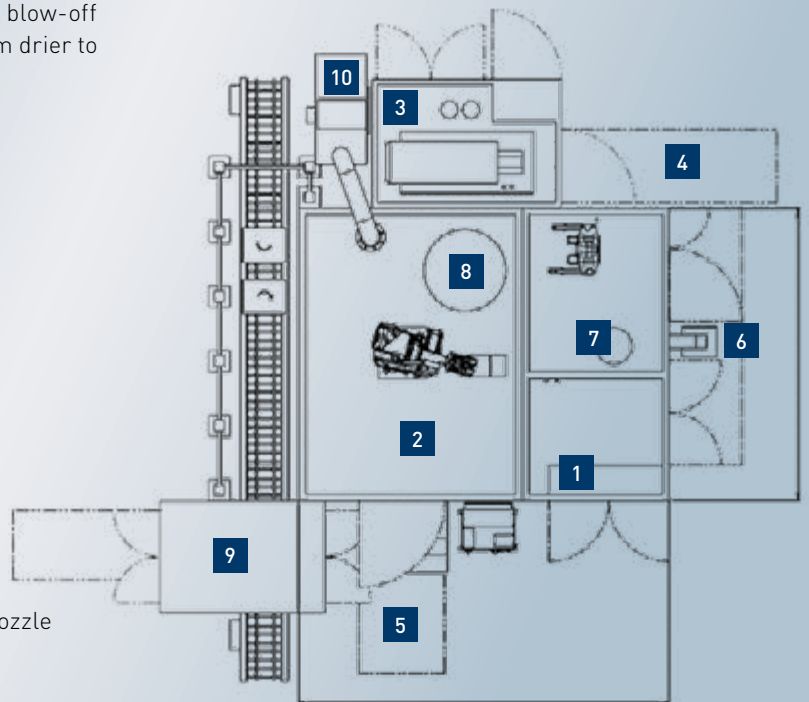
+ Reduced requirements for spare parts, thus reducing maintenance cost

A general pre-drying of the workpiece is accomplished via intense air blow-off in the treatment module. The blow-off process can be combined with an optional vacuum drier to ensure the product is 100% dry.

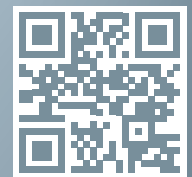
Fields of application

- Cylinder block
- Cylinder head
- Crank shaft
- Transmission and clutch housings

- 1 Power connection
- 2 Process module
- 3 High-pressure module
- 4 Maintenance area for high-pressure pump
- 5 Maintenance area for robot
- 6 Swarf container (on site)
- 7 EcoCfas – automatic filter
- 8 Process container with water knife & hybrid nozzle
- 9 Vacuum dryer
- 10 External exhaust system



Our Locations Worldwide



SBS ECOCLEAN GROUP