



Ecoclean



ECOCLEAN 41X KEX / SFX

**Cleaning Technology.
Worldwide.**

ECOCLEAN 41X KEX / SFX

The process

Each workpiece is exposed to an airflow of maximum volumetric rate and velocity (> 800 km/h). Foreign matter will thus be removed with maximum effectiveness.

Since the air is recirculated, there is no emission of exhaust air. A self-cleaning full-flow filter system removes impurities from the airflow.

For complex-shaped workpieces, a selective post-treatment via compressed air units may be added. The requisite transfer temperature is ensured by built-in cooling equipment.

Clean and cost-efficient

Ever increasing quality standards and productivity targets call for innovative engineering. In industrial component cleaning, Dürr Ecoclean meets all the prerequisites:

- Development and use of particularly efficient cleaning methods
- Maximum economic efficiency (low investment and operating cost)
- High standards of eco-friendliness and labour safety (minimized emissions and waste levels, protection of water resources)

ECOCLEAN 41X KEX / SFX cleaning systems are used wherever chips and machining residue must be removed from engine or transmission components before further processing. Air is used as a cleaning medium.

These systems achieve particularly effective cleaning results with a minimum of process technology.

Design

- Modular system design, based on standardized subassembly units.
- All-stainless steel housing.
- Guaranteed noise level below 78 dB(A) due to enclosure and fully encapsulated design.
- Each system comes with its fully integrated control and switchgear package. This permits a preliminary start-up in our factory and facilitates commissioning at the customer's site.
- Easy accessibility of the cleaning system and all equipment units for optimum maintenance or routine servicing.
- System integrates easily into existing production workflows.

Benefits

- Particularly effective cleaning performance, achieved with minimum process technology
- Reduced investment and operating costs
- Universal suitability as a chamber-type or continuous cleaning system
- High throughput
- No water consumption or use of chemicals
- Reduced equipment footprint

Fields of application

- Camshafts and crankshafts
- Connecting rods
- Cylinder heads
- Crankcases
- Transmission parts such as gear wheels, spline shafts, etc.



Technical data

Chamber system KEX

Equipment specifications

Length	2,400 – 3,500 mm
Width	1,200 – 2,200 mm
Height	2,000 – 3,100 mm
Weight	2,000 – 4,000 kg
Connected electrical load	approx. 25 kVA

Workpiece specifications

Length	750 mm
Width	550 mm
Height	400 mm
Diameter	150 mm
Length	600 mm
Weight	max. 100 kg
Throughput	max. 250 pcs./h

Continuous system SFX

Equipment specifications

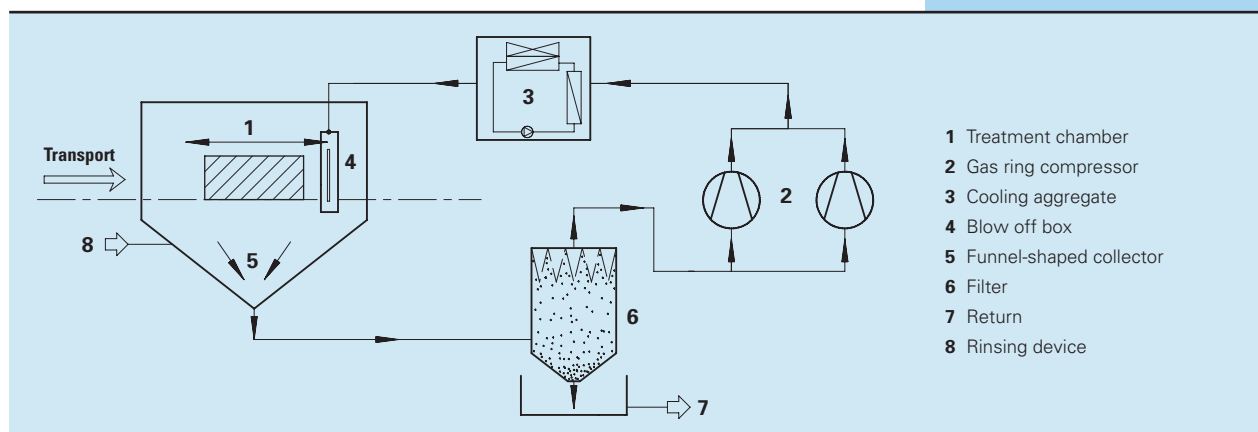
Length	2,500 – 3,800 mm
Width	2,500 – 4,200 mm
Height	2,000 – 3,100 mm
Weight	2,000 – 6,000 kg
Connected electrical load	approx. 25 – 50 kVA

Workpiece specifications

Length	600 mm
Width	500 mm
Height	400 mm
Weight	max. 100 kg
Throughput	max. 500 pcs./h

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- 1 Treatment chamber
- 2 Gas ring compressor
- 3 Cooling aggregate
- 4 Blow off box
- 5 Funnel-shaped collector
- 6 Filter
- 7 Return
- 8 Rinsing device