BARNES
MOLDING SOLUTIONS

Barnes Molding Solutions is the expert cluster for molds, hot runners and controls for industrial plastic injection molding. Our brands Foboha, Männer, Synventive, Thermoplay, Priamus and Gammaflux are leaders in their field. We have a comprehensive and in-depth understanding of the automotive, medical, packaging and electronics industries. We support our customers with sophisticated and powerful technologies through to customized turnkey solutions.

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männer SOLUTIONS FOR PLASTICS
FOBOHA
Synventive molding solutions
THERMOPLAY Hot Runner Systems
PRIAMUS
Gammaflux

2025/07 Technical Specifications subject to change.

männer SOLUTIONS FOR PLASTICS

Professional. Precise. Protective.

Hot Runner Cleaning

Professional.
Precise.
Protective.

Cleaning in Thermal Cleaning Oven and Ultrasonic Bath

Our state-of-the-art cleaning technology combines the advantages of a fluidized bed furnace, an ultrasonic bath, and various blasting methods to ensure thorough and efficient cleaning of your components and workpieces. The choice of cleaning method depends on the specific component, the type of contamination, and the degree of soiling.

- Thermal cleaning in a fluidized bed furnace at temperatures between 420–480°C
- Appropriate post-treatment of the components
- Ultrasonic bath for cleaning plates and removing oily or rusty contamination

HR Refurb en

Thermal Cleaning Oven

Technical Specifications

Maximum load dimensions	800 x 600 x 500, diagonal: 1000 mm
Please don't clean in the thermal cleaning oven:	
Flame-retardant materials	V0
Filler content	> 40 %
Lubricant content	> 10 %
Plastics and additives	LCP, PEEK, PES, PESU, PPA, PPS, PPSU, PVC
Material types	Moldmax, aluminum, copper, brass
Other plastics, additives, and steel grades must be evaluated individually.	
Please deliver all components disassembled for cleaning.	

Gentle Cleaning in the Thermal Cleaning Oven

The fluidized bed furnace uses heated airflows and fine particles to ensure even heat distribution combined with a mild abrasive effect. This allows plastic residues to be removed quickly and thoroughly — even from complex geometries or hard-to-reach areas.

Environmentally Friendly

Thermal cleaning is performed without the use of aggressive chemicals. Organic residues are vaporized and oxidized at 420–480 °C — without direct combustion. This significantly reduces emissions and environmental impact.

Gentle on Materials

Thanks to uniform temperature control, the fluidized bed furnace enables a cleaning process that is gentle on materials. Even sensitive workpieces retain their shape and functionality.

Residue-Free Results

The fluidized bed technology leaves no carbon deposits or other residues. The result: completely clean and ready-to-use components.

Ultrasonic Bath

Technical Specifications

Maximum load dimensions	1160 x 1560 x 490 mm
Please don‘t clean in the ultrasonic bath:	
Materials / Media	Oil in cooling channels or hydraulic connections / Aluminum / Galvanized steel parts
Other materials must be evaluated on a case-by-case basis.	
Please deliver all components disassembled for cleaning.	

Cleaning without Mechanical Stress

The ultrasonic bath reliably and gently removes residues from hot runner plates and components. High-frequency sound waves generate cavitation bubbles that act even in the smallest drill holes and undercuts — all without mechanical impact.

Thorough and Gentle on Materials

Even stubborn deposits are effectively removed without damaging sensitive surfaces. Ideal for precise and complex components.

Environmentally Friendly and Safe

Cleaning is performed with mild, water-based solutions. It protects the environment, the user, and the components.

Systematic Maintenance

Thanks to consistent process quality, the ultrasonic bath is ideal for regular cleaning intervals, helping to minimize production downtime.