



KURTZ FOAMER

Shape Moulding Machines for Any Application

GLOBAL. AHEAD. SUSTAINABLE.

Well Equipped with the World Market Leader

Kurtz GmbH & Co. KG is part of the Kurtz Ersa corporation and is an innovation driver in the particle foam sector. In the group-owned development and technology center, the coordinated Kurtz team with its experienced developers and engineers is working on innovative solutions that provide our customers a competitive lead on the market.

We invite you to learn more about our machines and options on the following pages.





Steamless Process Technology

Kurtz **WAVE** FOAMER M

The Kurtz WAVE FOAMER M shape moulding machine uses electric power. A wide variety of materials is processed completely without steam. Fusion by means of high-frequency electromagnetic waves eliminates the need for costly media installation. With the radio frequency (RF) technology, a greater proportion of recycled material can be processed than ever before. In an EPS moulded part, for example, it is up to 100 %.

- Fusion from inside to outside
- Processing of biomaterials
- Suitable for material with high recycled content



90 %
energy savings



70 %
CO₂ reduction



90 – 100 %
water savings



Steamless Process Technology

Kurtz **WAVE** FOAMER C

A large number of new materials and foams are finding their way into the market. Ideal for laboratory work and small production quantities, the Kurtz WAVE FOAMER C offers the best flexibility in testing and processing new materials by means of electromagnetic waves. High-temperature resistant materials as well as 100 % recycled foams without foaming agents can easily be processed with the new RF technology.

- Qualification of raw material
- Flexible processing of small production quantities
- Low space requirement e.g. in laboratory environment



90 %
energy savings



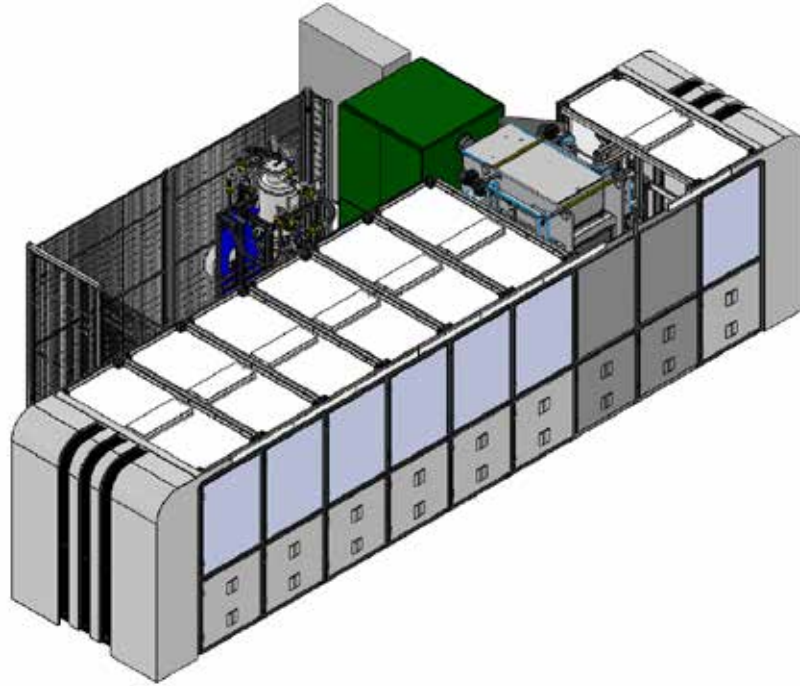
70 %
CO₂ reduction



90 – 100 %
water savings



Process
Video



Steamless Process Technology

Kurtz **WAVE** LINE

For small to mid-sized applications and product families, the Kurtz WAVE LINE is the most efficient way for processing. The WAVE LINE is a modular machine concept and can be configured according to the application. Several moulds are in circulation at the same time, increasing the overall productivity.

- Perfect for small and mid-sized shape mouldings
- Highest flexibility for processing product families
- Perfect for high densities such as EPS with over 150 g/l



90%
energy savings



70%
CO₂ reduction



90%-100%
water savings



High-end Shape Moulding Production

Kurtz **PRO** FOAMER

The Kurtz PRO FOAMER is the all-rounder for high-end EPS and EPP processing.

- EPS/EPP processing up to 5 bar
- PID technology for highest demands on quality, productivity and energy efficiency
- Changeable steam chambers for easy format adjustment
- Can be combined with Kurtz standard handling systems and robot solutions

Up to 70 % energy savings!



Packaging



Pallet



Bumper



Process
Video



Efficient Shape Moulding Production

Kurtz **POLY** FOAMER

The generalist for the production of EPS shape mouldings. It is perfectly suitable for all kinds of shape mouldings, from standard to complex applications like dual density parts, foil lamination or in-mould skinning.

- PID technology for highest demands on quality, productivity and energy efficiency
- Changeable steam chambers for easy format adjustment
- LTH technology can be used
- Can be combined with Kurtz standard handling systems and robot solutions



Packaging



Floor heating panel



Packaging white goods

Up to 70 % energy savings!



Electric Drive

Kurtz **POLY** FOAMER E

The energy-efficient electric drive (e-drive) is direct acting, moves quickly and precisely to positions, can apply the clamping force, actuate ejectors, and is quiet.

- For systems optimized for specific products, e.g. fish boxes or packaging for household appliances
- Also available as hybrid model (i-drive) for high flexibility in the foaming process with maximum productivity at the same time



EPS box



Floor pad

Ideal for use in the food industry



Video
e-Drive



Standard Shape Moulding Production

Kurtz **PURE** FOAMER

The low-cost solution for standard EPS packaging.

- Best cost-performance ratio
- Massive steel construction
- Short cycle times and energy saving due to proven valve and vacuum technology
- Ideal for the production of packaging in medium and large quantities

German Technology!



Standard packaging



Standard packaging



Standard packaging



Specialist for Insert Moulding

Kurtz **ROTO** FOAMER

The Kurtz ROTO FOAMER with its horizontally rotating double steam chamber is the specialist for insert moulding of EPS and EPP.

- Functional elements to be foamed in can be inserted in the free mould half during the foaming process
- Compact design for optimum use of production surfaces
- User friendly – insertion and demoulding at only one side
- Can be perfectly combined with robot systems

Up to 50 % shorter cycle time!



Bicycle helmet



Rear seat



Headrest



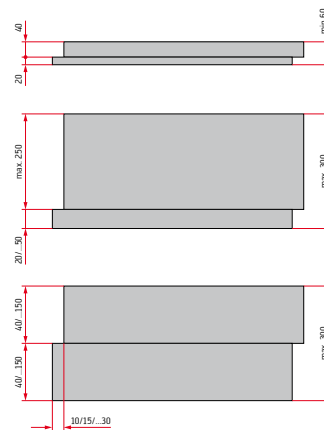
Panel Shape Moulding Production

Kurtz **PANEL** FOAMER

The specialist for EPS insulation panels and the alternative to block production. Ideal for beginners and decentralized production.

- Very short cycle times and lowest energy consumption
- Production of insulation panels with ship lap design without any rework and waste
- Automatic setting of panel thickness
- Consistent premium panel quality
- Customizable surfaces
- Panel production with low manpower and space requirements

30 seconds cycle time!



Insulation panels with variable dimensions

Kurtz FOAMER – Overview of Shape Moulding Machines

Steamless Process Technology

Shape Moulding Machine	Max. Moulding Size	Material	Process Technology	Fields of Application
WAVE FOAMER M	1,000 mm x 1,200 mm	rEPS/EPS/ E-TPU/ maize grits	RF Technology	All kinds of shape mouldings
WAVE FOAMER C	450 mm x 450 mm	no limitation	RF Technology	Laboratory supplies, small quantities
WAVE LINE	520 mm x 450 mm	rEPS/EPS/ E-TPU	RF Technology	Small and mid-sized components

Conventional Steam Processing

Shape Moulding Machine	Moulding Area*	Material	Process Technology	Fields of Application
PRO FOAMER	1 – 2.5 m ²	EPS/EPE/ EPP	Conventional, Monoblock, Eco / CoreLess	All kinds of shape mouldings, techn. mouldings with inserts, dual density, EPS: in-mould skinning, foil lamination
	0.5 – 2.5 m ²			
POLY FOAMER	1 – 3.2 m ²	EPS	Conventional, Monoblock, Eco / CoreLess	All kinds of shape mouldings, techn. mouldings with inserts, dual density, EPS: in-mould skinning, foil lamination
	0.5 – 3.2 m ²			
POLY FOAMER E	1.7 – 2.5 m ²	EPS	Conventional, Monoblock, Eco / CoreLess	All kinds of shape mouldings, techn. mouldings with inserts, dual density
PURE FOAMER	0.8 – 2.5 m ²	EPS	Conventional, Monoblock	Packaging, standard mouldings
ROTO FOAMER	1 – 3.3 m ²	EPS/EPE/ EPP	Conventional	Techn. mouldings with inserts - automobile (rear seats, SiPS, ...) - leisure (bicycle helmets, toys, ...)
PANEL FOAMER	1.7 m ²	EPS	CoreLess	Insulation panels

*Special sizes on request.



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