Kurtz

Kurtz Particle Foam Machines
Optimally prepared for Industry 4.0 with the world market leader

Industry 4.0 is already being implemented within the Kurtz GmbH – more and more digitally connected plants and components are the basis for a more productive and process-reliable interaction between man and machine.

Kurtz GmbH is part of the Kurtz Ersa Corporation, world market leader and 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 will provide our customers a competitive lead on the market.

Learn more about our machines and options – contact us!
EPS and EPP shape mouldings produced on Kurtz machines ...

... offer versatile protection for man and the environment – in the form of helmets and protectors for cyclists or in the form of lightweight construction parts for automotive which reduce the consumptions and in turn the emissions.
High-End Shape Moulding Production
Our super models Kurtz PRO FOAMER and the brand new ROTO FOAMER

PRO FOAMER
The PRO FOAMER is the ne plus ultra of shape moulding production. It is the all-rounder for high-end EPS and EPP processing.

- EPS/EPP processing up to 5 bar
- iPRO 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

ROTO FOAMER
The 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
Safety first

The Kurtz STYRO FOAMER machines produce packaging for white goods, electrical devices and furniture so that they arrive at their place of use without damage.
Efficient Shape Moulding Production
Our base models Kurtz STYRO FOAMER and STYRO FOAMER PURE

**STYRO 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.

- iPRO 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

**STYRO FOAMER PURE**

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
Keep the heat in!

High-quality EPS mouldings for thermal insulation are produced on the PANEL FOAMER – the ROOF FOAMER even produces panels for complete roofs automatically via a planning software.
Panel Shape Moulding Production
Our specialists for variable and efficient insulation panel production

**PANEL FOAMER**

The specialist for EPS insulation panels. The alternative to block production. Ideal for beginners and decentralised 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
- Customisable surfaces
- Panel production with low manpower and space requirements

**Inclined roof panels ready to install**

**ROOF FOAMER**

The ROOF FOAMER is the specialist for the production of inclined roof panels ready to install. By means of a roof planning software order data are fed and a production list is created.

- Fully automatic CAD/CAM production
- Automatic mould adjusting according to processing list
- Production of inclined roof panels, convex and concave panels, steplessly adjustable from 0 – 5 %
- No cutting waste
- Automatic labelling of each panel according to layout
The ENERGY FOAMER was especially developed for the processing of E-TPU. Adjusted filling and steaming technologies guarantee a safe serial production.

- Frequently used by a global player for their revolutionary finished products
- Basis for the development of new E-TPU markets
- Process-optimized control technology for close tolerances
- Can also be used for the production of EPP and EPS shape mouldings

E-TPU Processing
Successful serial production
Strong Box
Fast & energy efficient

BOX FOAMER

The specialist for the production of EPS boxes. Economically efficient by a process and mould technology that is especially adjusted to the production of boxes.

- Very short cycle times and lowest energy consumption
- LTH technology can be used
- Ideal for medium and large quantities
- Fully automatic production including quality tests, printing, stacking and packaging

EPS boxes in variable shapes and sizes
## Kurtz FOAMER – Overview of Shape Moulding Machines

<table>
<thead>
<tr>
<th>Shape moulding machine</th>
<th>Moulding area*</th>
<th>Material</th>
<th>Process technology</th>
<th>Fields of application</th>
<th>Changeable steam chamber</th>
<th>Integrated steam chamber</th>
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<tbody>
<tr>
<td><strong>PRO FOAMER</strong></td>
<td>1 – 2.5 m²</td>
<td>EPS/EPE/EPP</td>
<td>Conventional, Monoblock, LTH, ECO-LTH</td>
<td>All kinds of shape mouldings, techn. mouldings with inserts, dual density, EPS: in-mould skinning, foil lamination</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td></td>
<td>0.5 – 2.5 m²</td>
<td>EPS/EPE/EPP</td>
<td>Conventional</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>ROTO FOAMER</strong></td>
<td>1 – 2.4 m²</td>
<td>EPS/EPP</td>
<td>Conventional</td>
<td>Techn. mouldings with inserts, automobile (rear seats, SiPS, ...), leisure (bicycle helmets, toys, ...)</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td><strong>STYRO FOAMER</strong></td>
<td>1 – 3.2 m²</td>
<td>EPS</td>
<td>Conventional, Monoblock, LTH, ECO-LTH</td>
<td>All kinds of shape mouldings, techn. mouldings with inserts, dual density, EPS: in-mould skinning, foil lamination</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td></td>
<td>0.5 – 3.2 m²</td>
<td>EPS</td>
<td>Conventional, Monoblock, LTH, ECO-LTH</td>
<td></td>
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</tr>
<tr>
<td><strong>STYRO FOAMER PURE</strong></td>
<td>0.8 – 2.5 m²</td>
<td>EPS</td>
<td>Conventional, Monoblock</td>
<td>Packaging, standard mouldings</td>
<td>●</td>
<td></td>
</tr>
<tr>
<td><strong>PANEL FOAMER</strong></td>
<td>1.7 m²</td>
<td>EPS</td>
<td>Honeycomb</td>
<td>Insulation panels</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td><strong>ENERGY FOAMER</strong></td>
<td>0.8 – 1.7 m²</td>
<td>E-TPU/EPP/EPS</td>
<td>Conventional, Monoblock, LTH, ECO-LTH</td>
<td>E-TPU mouldings, shoe soles, mats, cushions</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td><strong>BOX FOAMER</strong></td>
<td>1.4 – 1.7 m²</td>
<td>EPS</td>
<td>Conventional, Monoblock, LTH, ECO-LTH</td>
<td>Fish, fruit, vegetable boxes, containers and boxes in general</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td><strong>ROOF FOAMER</strong></td>
<td>1 – 1.5 m²</td>
<td>EPS</td>
<td>Special solution</td>
<td>Inclined roof panels, insulation panels</td>
<td>●</td>
<td>●</td>
</tr>
</tbody>
</table>

*Special sizes on request.*