AHEAD COMPLETE GLOBAL

Kurtz GmbH is part of the Kurtz Ersa Corporation, the international market leader in particle foam processing and innovation driver within the sector.

In the captive Development and Technology Center, experienced Kurtz developers and engineers are working on innovative solutions, giving our customers a leading edge in their respective markets. From project planning and commissioning up to maintenance, from stand-alone machines up to entire plants. We would like to advise and support you with our comprehensive knowledge and are available 24/7.

Learn more about our machines and options – please contact us!

Our competitive lead in technology optimizes our customers’ production process.

Kurtz Ersa Corporate Vision

Our Portfolio
- Pre-Expanders
- Shape Moulding Machines
- Block Moulds
- Cutting Plants
- Recycling Plants
- Handling
- Automation
- Turnkey Solutions
- Services
Kurtz Industry 4.0 Solutions
Ready for the future

Industry 4.0 became reality at Kurtz GmbH – our increasingly, digitally cross-linked plants and components are the basis for a future human-machine interaction which is even more productive and more process-reliable. Production is becoming more and more flexible and efficient. Important factor: process automation. From versatile assistance systems to intelligent filling injector maintenance up to half or fully automated handling during shape moulding removal. Remote Services offer a fast and worldwide 24/7 real time support.

- Kurtz Central Management 4.0
- Kurtz Process Optimiser 4.0
- Kurtz Eject Control 4.0
- Kurtz Motion Optimiser 4.0
- Kurtz Injector Maintenance 4.0
- Kurtz Automation
AHEAD
AHEAD SOLUTIONS
Steadiness. Saving. Increase.

As innovation driver, Kurtz is continuously working on new and further developments. These result in an increase in efficiency, process stability, cycle time and energy savings, quality increase, process reproducibility and digital data collection.

Examples
- Kurtz Central Management 4.0
- Kurtz Process Optimiser 4.0
- Kurtz Eject Control 4.0
- Kurtz Motion Optimiser 4.0
- Kurtz Injector Maintenance 4.0
- Kurtz Automation

Contact us and learn more about our innovative solutions!
Kurtz Process Optimisation

Excellent choice for continuous productivity and quality of your production site and competitive local productions. Takeover of complete processes or individual work steps, especially at times of high staff turnover and skills shortage.

**Benefits Process Optimiser 4.0**
Automated determination of process parameters for an ideal production cycle.
- Repeatable quality
- Reduced energy consumption
- Faster moving-in of moulds

**Benefits Eject Control 4.0**
Identification of not demoulded parts via optical testing.
- Prevention of mould damages
- Reduction of machine downtime
- Reduction of waste

**Benefits Motion Optimiser 4.0**
Optimized autonomous hydraulics adjustment for moulds.
- Reduced wear
- Raw material savings
- Reproducible quality

Kurtz Process Optimiser 4.0 – automatic optimising of foaming process
Kurtz Eject Control 4.0 – visual demoulding control
Accurate mould cavity filling. Optimum density distribution and consistent filling level decide on the moulding quality.

**Kurtz i-CAP**
- Counting of maintenance intervals by embedded chip
- Comparison of real and nominal values of maintenance intervals and maintenance packages
- Warning signal of the filling injector by reaching the nominal value

**KISS App**
Kurtz Injector Service Scan App checks i-CAP’s maintenance status via smartphone. Easy contacting in case of technical questions or spare part reorder.

**KISS Station**
Stationary system for filling maintenance.
- Up to five customer-specific maintenance packages workable
- i-CAP data update
- Realization of leak tests
Kurtz Automation & Handling Systems

Fully automated solutions in regions with high labour costs and for maintaining workplaces and production sites.

Application areas
- Insertion of mechanical components in foaming moulds
- Automated demoulding at moulding machines
- Stacking of moulding parts or insulation panels
- Bundle palletisation
- Imprinting of insulation panels

Reasons for Automation
- Process optimization
- Improved product quality
- Increase in throughputs
- Reduction of waste
- Digital data collection

Handling system for stacking and packaging of boxes
Robot supported insertion of parts and demoulding

Increase in productivity by high degree of automation
We seek the challenge!

Our excellent team of engineers realises turnkey solutions for the particle foam processing at highest productivity, flexibility and profitability and at any location around the world.

Tell us which product you want to produce. We will find the best solution and hang in there when tasks are getting difficult.

Kurtz machines are no ordinary production tools. The optimization of the processing is at the centre of attention!

Rightfully, our customers expect that we take the extra step, and that is why we have an understanding of quality not permitting any compromises. Permanently monitoring our customers’ expectations and matching these to our own strategic objectives defines our target. To achieve our target, we build on integrated quality management as our guiding principle, on comprehensive internal and external certifications as well as on competent, quality-conscious employees.
Kurtz Pre-Expander Plants
Profitability. Reliability. Demand Adaptation.

Highly effective basis for particle foam processing.

Kurtz Pre-Expanding Systems are the result of consequent implementation of physical processes in machine technology, intensive exchange with users and recommendations of raw material producers. Completion for EPS and EPP. Optional: Secondary foaming appliance.

Guarantee
- High level of automation
- Reliable control and reproducibility
- Consistently foamed products
- Shortest cycle times and intermediate storage times

Outcome: recognisable economic benefits for your production!
Kurtz FOAMER

The ultimate shape moulding production. From high-end EPS processing to EPP and EPE up to E-TPU processing.

Improvement with all types of handling options.

Applications
- Automobile
- Technology
- Packaging
- Construction
- Leisure and Sports
- etc.

Benefits
- Shortest cycle times
- Lowest energy consumption
- Best accessibility
- Reproducibility
- High availability
Kurtz Special Shape Moulding Machines
Simply unique.

Individual solutions for customer-specific requests. Many years of experience and a multitude of references. Introduce your concern to us, we find the best solution for you!

Selection of executed accomplished special purpose machines with ...

- Shuttle technology
- Lost foam treatment
- In-mould skinning technology
- Machines in bed version
- ICF shuttle technology
- Transfer technology
- Roller shutter boxes

Shuttle machine for the production of EPP parts with inserts
Shape moulding machine with transfer technology (3 stations)
Plant for the production of ICF elements
Lost Foam model
ICF element (Insulating Concrete Forms)
Kurtz BLOCK FOAMER and Cutting Plants

Kurtz BLOCK FOAMER guarantees your competitive advantage in the market!

- Homogenous density distribution
- Minimal residual moisture
- Shortest cycle times
- Highest productivity

Outcome: Outstanding product quality, economic production.

Expert at sheet cutting with patented Kurtz Long Stroke Technology.

- High cutting speeds
- Highest surface quality referring to flatness
- Massive reduction of “picture-frame” effect
- Minimization of thickness tolerances
GLOBAL
GLOBAL SOLUTIONS

Our coordinated teams are working together inter-divisionally and cross-nationally at home and abroad at 14 sites.

Taking off in Germany in 1971, we have been operating in international markets for many years directly on-site, such as:

- North America since 1984 by Kurtz North America – among others with rebuilt machinery
- Asia since 1988 by Kurtz Far East

Service and sales agencies worldwide offer a prompt consultancy and knowledge sharing. Qualified staff and competent partners responding to regional customer requests at its best.
Kurtz Services

We are by your side – 24 hours a day, 7 days a week. Extensive consultation and solution finding. Highest plant availability and process stability.

Kurtz Service Features

- Analysis of operating expenses
- Production plant evaluation
- Local spare parts availability in all important regions
- Maintenance by experts
- Trainings modules for customers
- Remote service
- etc.

Kurtz Services – Customer Support is our strength!
Kurtz Remote Service 4.0
Convenience. Independence. Satisfaction.

For maximum user-friendliness and flexibility. Independence of office hours. Real time first-level-support.

**Kurtz Remote Service 4.0**
- Augmented Reality
- Web shop
- Teleservice

**Kurtz Augmented Reality**
- Remote diagnosis & real time problem solving
- First level support by experts
- Software enabling bug fixing by customer
- Independent of customer location

**Kurtz Web Shop**
- Individual deposit of purchasing parameters
- Fast delivery through optimized order processing
- Global 24/7 access

Set this Value to “1”
Push this button to restart the machine.

Augmented reality glasses for efficient maintenance support
Reality with extended content
Our Mission

- We produce components, systems and equipment for the optimization of manufacturing processes.
- We want to understand the processes used by our customers.
- We are a strongly diversified global player.
- We aim for the top position in all markets we participate in.
- We are a family based enterprise with tradition and values.
- We include our employees in the decision-making processes.
- We strive for a reasonable return on and increase of the equity capital.
Kurtz Ersa
Production needs us.

Kurtz Ersa is a supplier and technology corporation with a tradition of almost 240 years, diversified in the three business areas Electronics Production Equipment (Ersa), Moulding Machines and Metal Components. The owner-operated group of companies follows the strategy of long-term, healthy and sustainable growth.

As a leader in technology with 14 facilities in Germany and abroad, Kurtz Ersa continuously sets new standards, thereby raising the productivity of its customers to higher levels. An essential part of this is its willingness to change and the permanent search for means to achieve the optimum of quality, cost and delivery service – combined with open communication both inside as well as outside the corporation, which is considered a necessary precondition for the common success.

With the Kurtz Ersa HAMMER ACADEMY, initiated in October 2015, a continuous education platform exists for our employees. To raise their level of qualification and to stay abreast of changes in the global market, employees can chose from amongst different subjects. The HAMMER ACADEMY also offers special courses for customers.

Metal Components
- Grey cast-iron/nodular cast iron
- Machining (mechanical treatment)
- Sheet metal technology

Moulding Machines
Foundry Machines
- Low-pressure casting machines
- Tiltable & gravity casting machines
- Trimming presses
- Pre-processing machines
- Automation & Turnkey Solutions
- Services

Electronics Production Equipment
- Stencil printers
- Reflow systems
- Selective soldering systems
- Wave soldering systems
- Rework systems
- Inspection systems
- Soldering stations
- Staff training and certification