Particle Foam Machines of Kurtz

Boost your production!
Our Vision

Our competitive lead in technology optimizes quality, costs and delivery service in our customers’ production process.

Our Mission

■ Our products serve to optimize manufacturing processes used in production environments.
■ The requirements of our customers are the measure for our actions.
■ We are a global player with a singular product range.
■ We are a member of a strong, diversified group of companies, and draw from this extensive synergy potentials.
■ As a family enterprise, we place as much emphasis on achieving adequate growth of our equity and to receive a reasonable return on our investment, as we do on sustainably securing the workplaces of our employees.

„Blue Competence“ is the sustainability initiative of the VDMA. Kurtz Ersa is partner of this alliance which has the aim to design their products in a responsible manner considering the following challenges: costs efficiency, energy efficiency, efficiency of resources, automation and light weight construction. Our innovation management has to take these points into consideration and live them.
Social competence, personnel, further education as well as the cooperation with research and development are also not left behind. Sustainability has been considered as our task for generations under the vision „Engineering a better world“
Kurtz Particle Foam Machines
The Convenient Solution for your Company
Complete Solutions from one Source
Kurtz Complete Plants - Competence in Shape Moulding and Block Moulding Plants

The processing of EPS, EPE, EPP and E-TPU material offers attractive diversification opportunities. Challenge the competence of Kurtz! Inform us which products you would like to produce, and our engineering team will provide a complete solution to you for the production of shape mouldings or blocks, considering highest productivity, flexibility and profitability at every location in the world.

Example of a complete plant for EPS & EPP processing

An example of a complete plant for EPS block processing is shown on page 23.
Being the person responsible for a particle foam processing plant, you are continually confronted with cost reduction and process optimization: whether in the planning phase or later in the manufacturing process in order to produce moulded parts at the lowest costs possible.

Superior Technology
Kurtz is your optimal partner! With the superior technology of our particle foam machines enormous increases in productivity and best quality in reliable processes can demonstrably be achieved. This leads to best TCO values and faster ROI.

Know-How Profits
Benefit from our know-how right from the start! You know your parts and batch sizes – we take care of the rest! Our specialists already provide advice on the optimum part design of the parts as well as the most suitable foaming process – factors that will have a significant impact on the economic success of your project later on. Thus you gain competitive advantages that pay off and sustainably increase your yields.

Therefore it makes no difference, whether you require a stand-alone-solution or a complex fully automated moulding plant.

Kurtz provides the best solution for your application, along with the shortest delivery time and realizing that both communication and on-time delivery is critical for our customers’ schedule.

First-Class References
Leading processors have been convinced of our range of services for several decades already. Talk to us and gain your advantages regarding quality, productivity and reduced costs in your production plant.

Full Service
It goes without saying that after the commissioning of your plant we shall remain at your disposal. Permanent support provided world-wide by our service network is of great importance to us. We therefore offer fast and competent advice and assistance around the world, 24 hours a day. Our service and process engineers carry out the training of your employees as well. If desired, we also offer general overhauls, even for third-party brands, to ensure long-term usage of your production plants.
Handling systems are used to rationalize the production processes in a way that the production and the removal of the mouldings from the machine is done either semi- or fully automatically.

In regions with high labour costs, fully automatic solutions are a precondition to maintain jobs.

The design of the mouldings, like contour, surface quality, weight, integration of insert parts or the height of the building have great influence on the use of handling systems. Stackability and fitting of the moulded parts are to be considered from the very beginning as well as the height of the bundle and the ventilation within the stacks.

Kurtz machine concepts with intelligent handling systems assist to free potential for rationalisation. Kurtz offers a wide range of high specialized handling components. They are designed to fit exactly in the material flow according to the latest technology.

In close cooperation with the customer, Kurtz prepares ideal handling concepts and solutions, no matter if it is a fully-automatic block or shape moulding plant. Kurtz handling and automation systems guarantee a short ROI for the customer.

With our standard linear handling systems as well as with our partner KUKA we are very competent to optimize productivity in your production, creating individual automation solutions.
Robots can assist in inserting mechanical parts into moulds like used in automotive EPP rear seats. Even finished products can be removed from the moulds and be further processed.

In this respect it is important that in case of a product change, all subsequent handling units and plants are automatically adjusted, too. An interface to the machine control or cutting unit and an automatic gripper change offer this freedom.

Applications:
- Inserts of mechanical construction parts into mould
- Automatic demoulding on foaming machines
- Stacking of mouldings or insulation panels
- Palletising of bundles
- Coating of insulation panels
Kurtz Pre-Expander Plants
The First Step to Success

The pre-expander forms the basis for the processing of expandable polystyrene (EPS). Kurtz pre-expanders are the result of the logical implementation of physical processes in machine technology, intensive exchange of the experiences of users and recommendations of raw material manufacturers.

The systems can be adapted to suit all requirements with maximum economic efficiency and reliable quality. Kurtz pre-expanders guarantee a high degree of automation, reliable controls and reproducibility as well as an evenly expanded product. Ease of operation involves distinct economic advantages.

The demands of processors for shortest cycles and interim storage periods and compliance with the legal requirements in specific countries have led to the development of materials which cool more quickly and are low in pentanes, with a pentane content of just 3 - 4 %. Kurtz recognized this trend very early on and developed the right machinery to satisfy these requirements.

Pre-Expansion Process Flow

EPS is pre-expanded as expandable beads are fed into the pre-expander. Hot water vapour as a medium first softens the polystyrene beads, and the blowing agent thus released in them is activated. Pre-expansion involves vaporization and thus the swelling of the beads.

During intermediate storage the propellant gas is diffused from the expanded styrene granules and air penetrates. This "packed air" is further processed in a shape moulding machine or block mould.

EPS may also be subject to a second expansion process to achieve lower particle densities. Expandable polypropylene (EPP) is expanded to low densities using so called HP pre-expanders.

Gas diffusion in the bead

The bead expands completely only after steam diffusion

- excess pentane
- pentane diffusion
- excess steam
- cell membrane 1-8 µm
- pentane vapour
- steam diffusion

Batch pre-expansion unit including raw material feeding station, weighing unit and fluid bed
Kurtz offers the processors of thermoplastic foams a full range of pre-expanders: The product range comprises continuous and batch pre-expanders for block and shape moulding production, laboratory pre-expanders for research and development and HP pre-expanders for density adjustment of EPP. The expansion vessel volume ranges from 0.15 m³ to 7 m³. With a bead density of 15 g/l a throughput volume of approx. 85 – 3,500 kg/h is achieved.

**HP Expanding**

Due to large density fluctuations of 5 to 10% in the EPP raw materials it is difficult for the processors to achieve the lowest possible density in their applications in a safe and reproducible way. The second pass expansion process enables a tolerance of 0.5 g/l, independent of density, which in turn leads to a significant raw material saving.

Kurtz offers HP pre-expanders ranging from lowest to highest capacities. Among EPP raw material producers this is a well-known fact and a further important step towards the preservation of resources, showing again that Kurtz proves “Blue Competence”.

**More advantages are:**

- an expansion ratio between 2 and 4 reduces the transport costs considerably.
- reduced material logistics and storage
- almost every raw material density can be produced
- homogeneous material enables a more stable expansion process

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**High-Performance Kurtz HP Pre-Expanders**

**Reduced Material Consumption and Preservation of Resources**

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**HP pre-expansion unit including raw material feeding station, weighing unit and fluid bed**

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**material drying in the fluid bed**

**BLUOCOMPETENCE Alliance Member**

Partner of the Engineering Industry Sustainability Initiative
Shape Moulding Machines by the Market Leader
A suitable Concept for each Application

Kurtz i-PRO-Technology: Increasing Productivity up to 73% & additional Energy Savings up to 45%

- **kurtz i-PRO**
  Benefit from Kurtz i-PRO technology (consisting of i-DRIVE + i-STEPS) and increase your productivity and process efficiency.

- **kurtz i-STEPS**
  High-end process optimization for intelligent filling, steaming, stabilization and reduced material usage, also reducing scrap.

- **kurtz i-DRIVE**
  This drive combines the speed and precision of electronics with the power of hydraulics.

- **kurtz ECO-LTH**
  Most energy efficient mould technology with volume optimized steam distribution and reduced masses for lowest energy input in process.

- **kurtz EQM**
  Energy Quantity Monitor (EQM) measures and records steam, air and electricity consumption and monitors energy costs. This leads to considerable reduction of energy consumption.
Kurtz Shape Moulding Machine Series T-LINE
For highest demands in the processing of EPS & EPP particle foams

Shape moulding machines of the T-LINE series are the ne plus ultra of shape moulding production. They are used in high-end EPS processing and in EPP processing.

Combined with elements of the Kurtz i-PRO technology, these machines meet highest demands and guarantee best productivity and energy efficiency in the production.

Fields of application
- EPP processing (up to 5 bar)
- Dual density function
- In-mould skinning of mouldings
- Skin moulding
- Insert moulding

Main advantages:
- Kurtz steaming systems with special Kurtz valve sets
- Shortest cycle times
- Lowest energy consumption
- Additional saving by free steam chamber design
- Longer maintenance intervals
- Best accessibility
- Reproducible and verifiable energy efficiency

More advantages:
- No permanent driving speed, thus considerably reduced noise level
- Unlimited mould design
- Constant speed the whole way
- Permanently even force during movements (crack filling, demoulding, ejection, ...)
- Reduced electrical energy demand

Dual Density: high density for load carrying elements; Low density for gentle packaging
In-mould skinning in-mould skinned surface
Skin moulding: laminated surface one-sided/ double-sided with foldback
Insert moulding Foaming of structured parts
Kurtz Shape Moulding Machine Series A-LINE
New Benchmarks in EPS Processing

Shape moulding machines of the A-LINE series are designed for a max. operating pressure of 1.5 bar. The machines can be equipped with every common handling option.

Kurtz A-LINE shape moulding machines are available in four sizes (S - XL), covering a moulding area of up to 3.2 m². They are characterised mainly by their central docking station. The fixed and movable machine side can be equipped with a number of different steam chambers.

The following mould types can be used with Kurtz A-LINE shape moulding machines:
- original Kurtz moulds
- moulds of competitors in original dimensions
- mono block moulds
- Eco-LTH and LTH moulds

In this way A-LINE shape moulding machines offer maximum freedom to EPS processors. They can also be extended by options like SQM / EQM and D-Log.

Dual Density: high density for load carrying elements; Low density for gentle packaging

Insert moulding
Foaming of structured parts

In-mould skinning
In-mould skinned surface

Skin moulding: laminated surface one-sided/ double-sided with foldback

In-mould skinned surface
Kurtz Shape Moulding Machine Series N-LINE
The basis for EPS processing

Shape Moulding Machine N-LINE for the Processing of expandable Polystyrene
Kurtz N-LINE shape moulding machines are a solid basis in EPS shape moulding production. They are available in three sizes S, M and L, covering a moulding area of up to 2.5 m³. When designing the N-LINE shape moulding machines, the main focus was put on their functionality and a solid construction.

N-LINE shape moulding machines are predominantly designed for the market outside Europe where most raw materials are being processed. The shape mouldings are generally not very complicated but produced in large numbers.

CE-conformity by the machine manufacturer is not required in these countries.

Plant for production of EPS packagings in Asia

EPS packaging for PC accessories
EPS packaging for TFT monitors
EPS packaging
EPS packaging of a toner cartridge
Kurtz Technologies and Process Technology
Take advantage of our comprehensive know-how all around the processing of particle foams.

As a competent partner in the supply of complete plants for the processing of particle foam materials, we have built up quite a lot of process knowledge in the course of 40 years. This is why we do not see our machines as ordinary production tools but optimisation of the processing is at the centre of attention. In the course of the years, Kurtz developed many procedures which were applied for patents or provided with utility patents protection.

LTH/ECO LTH
an example of a milestone here is the LTH process patented by Kurtz. The LTH process leads all media required for the moulding production directly into the moulding. The savings in consumption which can be achieved with this innovative modular process are up to 35% in water and even up to 70% in air and steam.

Skin moulding
The skin moulding system used by Kurtz is one of the leading refining processes for EPS and EPP mouldings. Inside the same machine, mouldings can be foamed and coated with film in one working step.

Dual Density
The Kurtz dual density technology gives mouldings a higher density at certain points and thus higher strength. This is necessary, for example, for mouldings for specific transportation tasks.

In-mould skinning
With the in-mould skinning technology of Kurtz the surface of the EPS moulding is refined. The advantage is that a smooth and completely fused surface is produced in only one working step. This technology opens up a variety of new markets. Ornamental battens for ceilings, seedling trays and ice-cream packagings are only a few of the examples.

Lost Foam
The so-called lost foam method or casting with lost foam models in sand free of binder is being used to an increasing degree all over the world. The special know-how of this process is the design of the moulds. They are equipped with a number of integrated individual steam chambers, each having a separate regulation for steam, air and water. This technology is mainly used in the automotive industry, e.g. for the production of cylinder heads, brake disks, crankshaft housings and oil pumps.
Kurtz ENERGY FOAMER - Shape Mouldings made of E-TPU
Successful Infinergy® Processing allows completely new Fields of Application

With Infinergy® BASF SE offers the first expandable TPU (E-TPU) in the world. This new material is flexible like rubber, elastic and light as a feather. It combines the characteristics of TPU with the advantages of particle foams, standing out by low density, high elasticity, perfect resilience, high abrasion resistance, good chemical resistance, long-term loading capacity and excellent tensile strength in a wide temperature range.

These marvelous material characteristics open up completely new fields of applications but also present totally new challenges in the processing.

The Kurtz ENERGY FOAMER is the first and only shape moulding machine enabling an optimized process operation and field-tested serial production with E-TPU. Special filling technologies and steaming variants secure a continuous production despite the narrow processing window.

The machine technology of the Kurtz ENERGY FOAMER is already being used with great success in a large scale customer application. The revolutionary finished products of a global player are being produced on Kurtz machines for the complete world market.

In a close cooperation with the customer and the Infinergy® producer BASF SE, the productivity and energy efficiency could essentially be optimised. This marks a further example of the successful realisation of the „Blue Competence“-challenges.
Kurtz BOX FOAMER - The New Dimension
Reduce Cycle Times with Box Production by 50% - Save more than 50% Energy

With the Kurtz BOX FOAMER you will reach new dimensions in regard to box production. Due to its low-mass design this completely new mould technology achieves cycle times and energy savings you have ever dreamed about!

The basis for the development of this mould technology was the constant demand of processors for process innovations.

As the process efficiency is significantly determined by the mould a perfect coordination of mould technology and the machine is the main focus. In order to ensure an effective mould activation, the machine has to be equipped and optimised correspondingly.

The Kurtz BOX FOAMER ideally fulfills the needs and together with the innovative mould technology shortest cycle times and enormous energy savings are achieved increasing the productivity considerably and contributing significantly to sustainability.

Kurtz once again demonstrates that innovations in regard to mould technology are consequently progressed and developed to the market for their customer’s benefit.
Shape Moulding Machines for Individual Solutions
We realize our customers’ specific requests

Kurtz shape moulding machines are extremely flexible and especially configurable. Nevertheless there are applications requiring special solutions. For this purpose Kurtz offers a wide range of special machines tailored to exactly meet the customers’ requirements.

The trend is going towards foaming and laminating in one cycle. For this application Kurtz offers a special machine concept with a deep-drawing facility integrated in the shape moulding machine.

Today EPS pallets with film coating are a sensible alternative to all conventional pallets made of timber, press board or by injection moulding. They combine a number of positive properties in only one product and particularly air freight can no longer imagined without them.

Alongside the great savings in weight of up to 15 kg per pallet, simple cleaning with water, easy handling without the risk of injuries and the additional cushioning and insulation properties, the resistance to abrasion necessary for air transport is also guaranteed.

Specifically for the production of these pallets, KURTZ has developed a unique manufacturing process permitting production of the complete pallet in only one machine.

Today EPS pallets with film coating are a sensible alternative to all conventional pallets made of timber, press board or by injection moulding.

Example for a food tray with film coating produced on a Kurtz shape moulding machine in skin moulding technology.
Shuttle Technology

With the production of sun visors or bicycle helmets so-called inserts are manually to be placed into the mould. In order to make this process easy, fast and safe for the operating personnel the Shuttle-Technology was developed. The Shuttle-Technology allows inserting, foaming and laminating of the part - all in one fully automatic process. New developments in regard to head rests or collision-protective side cushions in the automotive industry open more fields of application.

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Shape Moulding Machines for Special Applications
Optimal Productivity

Material Refinement

Production Plant for the Production of Ornamental Battens for Ceilings with In-Mould Skinning Technology.

In-Mould Skinning Technology

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Most Flexibility with the Production of Big Components

Shape moulding machines in bed version.

Kurtz uses shape moulding machines in bed version with clamping areas of more than 2.5 m² and very high mould weights.

The movable steam chamber moves on a machine bed, there are no slides.
Kurtz Shuttle and Transfer Technology
Efficient solutions for your Success

ICF Shuttle Technology
The manufacturers of ICF parts (Insulating Concrete Forms, elements for house building) have special requirements on their production machinery. On shuttle machines with e.g. three cavities maximum throughput of mouldings with plastic or metal inserts is achieved.

Transfer Technology
With transfer technology for the production of a moulding several moulds are used. Expandable beads are filled into a so-called hot mould and sintered by applying steam. After short foam pressure reduction they are transferred into the so-called cold mould. The moulding touches the relatively cold mould wall and thus the foam is further cooled down and stabilized enough so that the moulding can be removed.

Composite materials without loss of time.

Concurrent Inserting and Demoulding

With rotary technology a turnable steam chamber with inserting possibility replaces the shuttle system saving space and leading to shorter cycle times.

Shape Moulding Machine K1016 TV3 with Transfer Technology

Plant for the Production of ICF Components (Insulating Concrete Forms)
Kurtz PANEL FOAMER - The Alternative Solution
Facade Insulation Panels - Produced on a Shape Moulding Machine - Innovative and Cost Efficient

With the Kurtz PANEL FOAMER insulation panels are cost efficiently produced on a shape moulding machine.

So far insulation panels for facade insulation have almost exclusively been cut from blocks. The main reason for this production method was the relatively low specific energy consumption of a block mould related to one kilogram EPS material. With the new Kurtz shape moulding machine PANEL FOAMER it is possible to produce high-quality insulation panels at equal respectively lower costs than panels that are cut from a block. Lower personnel requirements, easy automation and the abolition of cutting waste are further positive aspects. Panel thicknesses can of course be adjusted to the requirements, either step by step or steplessly in fully automatic method.

This concept is best suitable for applications where so far it was not economical to use a complex block mould. The production plant is modularly extensible as per customer’s requirements. The Kurtz PANEL FOAMER is of course available with a quick removing system and customized solution for marking, stacking, packaging and palletising of the insulation panels.
Kurtz EPS Block Moulds
Highest Productivity - Top Quality Blocks

Kurtz block moulds stand out due to their high productivity, reliability and quality. In this way the processor can cope with the ever increasing prices of raw material and energy on the market.

The control concept of Kurtz block moulds was fundamentally revised to make the operation more user-friendly and to make full use of the block moulds potentials.

The control is realised on a colour touch panel with an integrated PLC. A high-performance CPU allows a precise steam pressure regulation and thus reproducible sequences and blocks. The simplified menu navigation allows for an intuitive operation and quick access to numerous sub-functions on the one hand and provides a multitude of survey information on the other hand.

The parameter settings for the moulding process offer new possibilities and are directly visualised by a graphic illustration. Since the operator can freely and flexibly set programme sequences, steaming possibilities are unlimited.

The vertical Ecomat block mould with fixed dimensions has captured the market. Due to the cleverly optimised ventilation and steaming technology it sets benchmarks in block processing.

The processing window in terms of weight gain, required steam quantity and stabilisation phase is becoming smaller and smaller. This marks a further example of the successful realisation of the „Blue Competence“-challenges.
In the field of sheet cutting, Kurtz provides all the cutting systems the world markets demand. Kurtz manages to give block processors decisive competitive advantages with innovative technologies.

In view of cutting speed and throughput, the Proline cutting line is beyond competition and is currently one of the fastest plants on the market. The well-proven automatic Kurtz wire adjustment is not only used for sheet cutting but also for trimming and cross cutting.

Besides high cutting speeds, the long stroke technology which was developed and patented by Kurtz provides for an outstanding surface quality in view of smoothness and reduces the picture-frame effect considerably. In this way the thickness tolerances of the cut sheets can be kept at a very low level.

Challenge our engineering experts to plan your plant for block processing.

Kurtz cutting lines stand for high technological standards and efficiency.
The appropriate filling of the mould is an important step when producing mouldings of particle foams. The quality of the moulding is substantially determined by the filling process. Density distribution and an even filling are of particular importance. The efficiency of the filling systems used has a significant influence on the resulting energy consumption. Total air consumption and the cooling of the mould walls are decisive in this connection. For a long time Kurtz has been providing cost-saving solutions to achieve the optimum filling process.

B-Jet, the filling injector with turnable upper part offers easy maintenance and reduces the times for the mould change. Furthermore it is pressure-tight and vacuum sealed.

When pressure filling with certified pressure tanks, counter pressure filling to reduce the volume of the beads or low-pressure filling – the maximum admissible loading of material in the airflow is always the focal point. The steaming of the filling injectors’ closing pistons avoids fusion failures at the moulding. Large-dimensioned injectors allow maximum material throughput, also with big-size beads.

The filling injector B-Jet “TraceLess” fills the cavity indirectly and thus protects filigree mould surfaces, mould decors or coatings from wearing. This reduces the costs for mould maintenance considerably and extends the mould’s lifetime. Another advantage of the B-Jet “TraceLess” filling injector is that there is no “plug” at the moulding anymore and the plunger hardly leaves any traces.

Ejection function and micro-injectors complete the programme range. Filling injectors from our competitors can also successfully be replaced by the more capable Kurtz design.

With more than 100 different designs Kurtz is in a position to provide the most suitable filling injector for every application.
In the production of particle foam products, processing plants are always subject to fluctuations in process energies. Monitoring physical values and supply media as well as recording measured data are great advantages for the processor. When the individual operation windows required for each processing plant are fixed, a safe operation as well as correct and constant process parameters can be proved.

At the same time, D-Log helps to cut wastes in production by displaying operation anomalies. Steam, air and water can be monitored regarding pressure and temperature. Vacuum and material transport should also be checked for pressure. The results of this monitoring can be used to simply determine measures to improve the plant availability. Besides a visual display, D-Log can be used to switch off a plant in case the measured data are outside the defined range of tolerance.

The dramatic rise in the oil price led to a cost explosion in the particle foam industry. The Kurtz SQM monitoring method can measure the steam consumption and evaluate the energy costs per cycle or check optimisation measures for single shape moulding machines with minimal effort. The Kurtz SQM does not require a common flow metre (vortex shedding device) with necessary settling sections. Some pressure and path sensors connected to the media block of the KURTZ shape moulding machine and an analyser unit are enough. The measured values are displayed on a laptop or machine terminal.

The extension, the Kurtz EQM measuring method, can additionally record air and electricity consumption. It contributes to a further optimisation of the processes and thus to a considerable reduction of energy consumption in particle foam processing.
Kurtz Services - Your Success is our Challenge
According to the Kurtz Ersa corporation’s vision, we optimize quality, costs and delivery service in your production process.

This means, we make our know-how available to you as our partner to achieve your production aims. As only the highest availability of plants and process safety provide the most decisive advantage in a highly competitive market.

TCO and Determining Improvement Capabilities
It is not only the investment costs that determine the profitability of a plant. Using our specific know-how, for example, we can analyse the influence of life cycle costs on the value of a plant. Kurtz is always focused on the complete plant. Use the opportunity and let our experts carry out a comprehensive valuation of your production facility. An analysis of relevant processes as well as the diagnosis of weak points considerably increases the efficiency and productivity of your plant.

Our experts will be pleased to assist you in securing the best production conditions in your plant and in realising determined improvement capabilities.

Know-How-Transfer - Our knowledge for your success
A decisive factor for the availability of your particle foam processing plant and for the compliance with the high quality standards of your products are highly skilled and motivated employees who are able to efficiently operate your plants at optimal working points while considering a careful use of resources. Especially in times of ever increasing energy costs, well-trained and sensitised employees with a comprehensive process know-how are very important for the success of your company. Take advantage of our constant qualification program!

Service agreements
We offer standardised and individual service agreements which provide the security to minimise unplanned standstills and thus to produce more economically. Depending on your individual requirements, you can select only the services you really need.
Worldwide all around the clock
As even very short machine down-
times can mean high losses of
turnover in our customers’ high-per-
formance production systems, we do
not only offer reliable and competent
service, but also quick availability: 24
hours a day right round the world!

Spare parts support
The Kurtz spare parts service ena-
bles correct selection of the spare
part needed from the catalogue
without having detailed knowledge.
The selection of articles contains the
most frequent spare parts.

For parts comprising further sub-
groups, a group hierarchy has been
introduced. This classification of
various spare parts makes it pos-
sible to localise the individual part
of a larger construction group being
looked for in the catalogue.

As further facilitation of finding
spare parts, pictures, sketches
and information on features of the
articles have been included in the
catalogue.
Diversity is our Strength
Our three Business Segments provide innovative Solutions for the Manufacturing Industry.

We are close to our customers. Our diverse product portfolio covers most customer requirements. In addition, we are also able to custom-develop specific requirements and produce.

The large variety of products manufactured, production technologies in use and areas of business mark Kurtz Ersa as a corporation with large technological potential and a multitude of possibilities for raising synergy effects. It is the common goal of the group’s members to play a major role in their market and to be technologically leading in their fields.

We offer our customers the certainty that, with Kurtz Ersa, they have found an internationally oriented partner who knows the customs and practices found on the global market place.

We have repeatedly set new standards in technology with our products. Our willingness to take new venues has enabled us to meet specific requests of our customers, but it also enables us to optimise our performance and competitiveness.

Kurtz Ersa’s business areas have grown historically. Due to our long corporate tradition, we are accustomed to early develop and integrate new technologies, new markets and new production methods. The processes used by Kurtz Ersa include, amongst others, casting, welding and soldering, cutting and forming, machining operations, galvanic and surface treatment, heat treatment, measuring and test technology as well as software generation. At Kurtz Ersa, production technologies are a dynamic process.
References
Customer Satisfaction is our highest Demand
Sustainability is an integral Part of our Corporate Culture

Our first production plant – a forge hammer mill which started to produce in 1779 – was operated with water power. This historical industrial landmark is maintained as a visual symbol of a sustainable corporate development.

Sustainability is an integral part of Kurtz Ersa’s corporate culture, in our product development and manufacturing processes. In this way we want to contribute our share to sustainably improve the living conditions on our planet earth.

The base for the processes’ systematic control is our management system. For this reason, we have incorporated the sustainability aspect into this management system, thereby creating the basis so that all our employees are included as well in their daily actions.

The sustainability aspect in our own diverse manufacturing processes is closely monitored with improvements being mandated regularly. Internal and external audits ensure the success of this process.

In the development cycle of our own products, the improvement potential regarding the use of resources is defined already in the equipment specification.

At Kurtz Ersa, the concept of sustainability is taken seriously.

“Our products and performance shall convince by their high quality”. The implementation of these quality standards is achieved by our integrated and continuous quality management based on the certification in accordance with DIN EN ISO 9001:2008.
Fine Traditions And A Bright Future
We are proud of our 235-year-old Company History

Founded as iron hammer works in 1779 in Hasloch in Spessart, the Kurtz Group has developed into an internationally operating conglomerate. Today, we are technological or world market leaders in many fields. The corporate group is in the ownership of the sixth generation of the family. The management can fall back on an advisory board consisting of excellent industry personalities.

1779  Foundation of the iron hammer works in Hasloch
1852  Foundation of the iron foundry in Hasloch
1860  First machine building activities
1896  Foundation of “MGM Metall-Giesserei-Mannheim”
1921  Patent registration of the electrical soldering iron
1932  Production of paper board machines
1949  Production of card board packaging machines
1962  New building of the foundry
1968  Production of soldering machines
1971  Production of particle foam machines
1982  Take-over aluminium foundry
1983  Production of foundry machines
1984  Foundation of Kurtz North America
1985  New building of the machine factory
1988  Foundation of Kurtz Far East / Hongkong
1990  Take-over of block mould factory in Altaussee
1990  Foundation of Kurtz France and Kurtz Italia
1993  Take-over of Ersa soldering technology
1996  Foundation of MBW sheet metal technology
1999  Invention ERSASCOPE
2001  Foundation of Kurtz Holding as parent company
2003  Certification acc. to DIN ISO 9001 ff
2003  Foundation of Kurtz Zhuhai Manufacturing/China
2006  New building of the MBW sheet metal plant
2006  Foundation of KURTZ Ost in Moscow
2006  HIP Hammer Innovation Programme
2007  Production of screen printers
2009  Certification acc. to ISO 14001
2009  Production of trimming presses
2010  Ersa is appointed training and certification centre
2011  Unified corporate image „Kurtz Ersa corporation”
2012  New powder coating plant at MBW
2013  Kurtz Aluguss GmbH & Co. KG
2013  New production hall at Kurtz
2014  235-year anniversary Kurtz Ersa
2014  Smart Foundry 200

The 2013 newly built production hall with its 18 m height comply to the increasing machine sizes and the growing business volume.