We Give Shape to Ideas
Foundry Products by KURTZ
The product range of the Kurtz METALS business segment comprises castings made of iron and aluminium, machining as well as sheet metal technology.

Two foundries at KURTZ manufacture sophisticated mechanical engineering components as well as engine, transmission and suspension parts and vacuum and hydraulic castings.

Due to the experience gained in decades and an extensive know-how on casting processes and alloys, the KURTZ foundries realize even most complex parts.

Take advantage of the KURTZ service already during part development and benefit from the full product range also comprising the supply of finished and coated components which are ready to be installed in your system.

Certified in accordance with the ISO 9001:2000 and admissions, e.g. of the German Lloyd, Railway or TUV (Technical Inspection Authority) certification for pressure tanks, evidence our capability for high-quality products.
The designing engineers of the KURTZ design department work with the 3D-system Unigraphics and provide FEM calculations.

By means of modern casting simulations a realistic demonstration of how the part behaves during the casting process and freezing is possible.

In this way problematic spots can be located and removed long before production is started.

KURTZ provides support already in part development incl. design if desired.

Based on the results obtained during simulation moulds and models are produced with modern equipment in the KURTZ model workshop and mould maker shop.

Product development and project management from the design to the production of samples make your casting ready for mass production within only a short time.
Grey & graphite iron
GJL 200-300, GJS 400-800 up to ADI-quality, 20,000 t melting capacity

Machine moulded parts
0.3 kg to 60 kg
760 x 580 x 250/250 mm

Hand moulded parts
300 kg to 5 t
and 5,000 mm length

Aluminium die casting
AISi-, AlMg-, AlCu- and self-hardening alloys
of 0.05 kg to 100 kg

10 low-pressure casting machines
for the production of parts meeting highest requirements with regard to strength and expansion properties, pressure tightness and weldability
CNC-machining
and final parts assembly

**Small parts machining**
up to 1,200 mm
26 machining centres
plus turning lathes

**Great part machining**
up to 10,000 mm
8 machining centres
3 boring mills

Quality assurance
and documentation

160 kV x-ray system,
3D-measurement machine,
spectral analysis,
thermal analysis,
metallographic laboratory

Certificated acc. to:
DIN EN 9001:2000,
Lloyds Register, TÜV
(Technical Inspection Authority) certification for pressure tanks and welding certificate
Your innovative supplier of a complete system

Progress and development are not strangers to KURTZ, but fine traditions that are kept alive every day. One example is the recently developed and patented new process for the production of open-pored metal foam castings with amorpheous or regular lattice structure.

The pore size can be defined and thus the castings become designable and calculable.

Parts made of metal foam are very rigid and very light at the same time which makes them an ideal basis for lightweight components.

Further interesting characteristics are the energy and sound absorbent properties.

Due to the open-pored structure, this cast part is also very suitable for all types of heat exchangers.

Precise & flexible castings according to customers’ requirements
Scope of supply
Kurtz METALS product range

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Aluminium, grey iron and graphite iron castings
Sheet technology at the highest stage
Machining with state-of-the-art machines
High-quality surface treatment
Efficient tool / model making

Foundry machines
“From Foundryman For Foundrymen”

For more than 20 years KURTZ has been manufacturing low-pressure casting machines for aluminium and magnesium alloys. Low-pressure casting in sand, ceramic and plaster moulds as well as in metal dies has developed enormously during the past years providing a wide range of potentials. The application spectrum of KURTZ machines reaches from rapid-prototyping to serial casting up to customized systems and complete solutions for serial and mass production.
The Kurtz Group is a traditional, family-owned German company. Founded as iron hammer works in 1779 in Hasloch in Spessart, the Kurtz Group has developed into an internationally operating conglomerate.

The product range is classified into the business segments METALS, ELECTRONICS, PLASTICS and SERVICES. Our core focus is on business areas where we can prove to be „Best-in-Class“ as compared to third parties. As a result Kurtz is technological or world market leader in many fields.

www.kurtz.info

The World is Kurtz
Present in 135 countries

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Kurtz Foundry Products
Aluminium foundry in Wiebelbach
Aluminium die casting up to 100 kg
Iron foundry in Hasloch
Grey/graphite iron casting up to 5 t

Machining
KURTZ Fertigungstechnik GmbH & Co KG
KURTZ GmbH

Sheet Metal Technology
MBW Metallbearbeitung Wertheim GmbH

Foundry Machines
KURTZ GmbH, Kreuzwertheim

www.kurtz-metals.com