

CLAASGUSS[®]

CLAAS GUSS GmbH · Am Stadtholz 52 · D-33609 Bielefeld

Tel. +49 (0)5 21/93 15 -0 · Fax +49 (0)5 21/93 15 -2 88

Internet: www.claasguss.de · E-mail: info@claasguss.de

Company's Profile*

CLAASGUSS[®] is...

... a leading company in the European Foundry Industry

- established in 1890
- four production plants: – Ravensberger Eisenhütte, Bielefeld
– Christophorushütte, Gütersloh
– Saalgauer Eisenhütte, Bad Saalgau
– Nortorfer Gusswerk, Nortorf
- today one of the largest German Iron Foundries

CLAASGUSS[®] produces...

... machine- and hand-moulded grey-, ductile-, ADI-iron and SiMo castings (including alloyed qualities)

- annual production approx. 36.300 t
- more than 5.000 "active" pattern equipments
- approx. 5,4 million castings per year
- in small-, medium- and large-sized series
- hand-moulded castings up to 8.000 kg per piece
- machine-moulded castings from 0.5 kg to 350 kg per piece
- grey-iron castings EN-GJL-150 ... EN-GJL-300 according to DIN EN 1561
- ductile-iron castings EN-GJS-350-22 ... EN-GJS-700-2 according to DIN EN 1563
- austempered ductile iron castings EN-GJS-800-8... EN-GJS-1400-1 (ADI) according to DIN EN 1564
- austenitic iron castings EN-GJL-AX ... and EN-GJS-AX ... according to DIN EN 13835
- wear resistant alloyed iron castings EN-GJN-HV... according to DIN EN 12513
- ferritic spheroidal cast iron for high temperature applications (GJS-SiMo)

... Tailored Castings

CLAASGUSS[®]

CLAASGUSS[®] supplies...

... important domestic and international customers

- annual sales more than € 68 mill.
- approx. 15.000 single orders per year
- more than 500 German, European and non-European customers
e.g. Aerzener Maschinenfabrik, AGCO Fendt, ALKO-Kober, BorgWarner, Bosch, BÜHLER, BUCHER HYDRAULICS, Caterpillar, Claas, Dürkopp Adler, ITT-Flygt, Lindauer Dornier, Leser, Demag Cranes & Components, Daimler Chrysler, KBA, MAGNA Powertrain, Neumag/Saurer, SANDVIK Mining and Construction, Sauer-Danfoss, Schlafhorst/Saurer, Siemens, Sterling SiHi, STILL, VOLVO Bus, WABCO, Wärtsilä, ZF
- for numerous applications, e.g. farming tractors, general mechanical engineering, fittings, construction machinery, diesel engines, passenger cars, printing machinery, lifting gears and hoisting device, wood working machinery, agricultural engineering, sewing machines, commercial vehicles, oil hydraulic and pneumatic pumps and compressors, textile machinery, machine tools etc.
- we specialize in: difficult core-intensive castings with a high degree of repetitive accuracy, all grey-, ductile- and ADI iron casting qualities

CLAASGUSS[®] guarantees...

... a high-standard quality of metallurgy and accuracy in moulding

- computer-aided quality assurance
- well equipped testing laboratories and to suit customer demand
 - tensile strength and strain examination
 - brinell hardness test
 - spectral, wet and thermal analysis
 - metallographical inspection
 - dye-penetrant and magnetic crack detection
 - ultrasonic testing
 - dimensional inspection according to 3D-CAD data
- quality management manual in accordance with ISO TS 16949
- registered at important classification companies such as
Det-Norske Veritas, German Lloyd, Lloyds Register of Shipping,
Technical Supervision Association (TÜV) American Bureau of Shipping
- certification according to DIN EN ISO 9001 : 2000, ISO TS 16949

... Tailored Castings

CLAASGUSS®

CLAASGUSS® offers...

... state of the art production equipment

- process-controlled melting plants
 - cupolas and medium frequency induction furnaces
 - melting capacity approx. 25 t per hour (special alloying qualities starting from 300 kg)
- moulding departments,
 - efficient mechanized hand-moulding departments for furan resin with a monthly capacity of 300 t, weight per piece up to 8.000 kg
 - 5 automatic moulding plants with a monthly capacity of more than 3.000 t, weight per piece 0.5 kg to 350 kg
 - Ravensberger Eisenhütte: automatic AIRPRESS moulding plant, flask size 700 x 700 x 600 mm, 133 flasks/hour
 - Christophorushütte: automatic vacuum squeeze moulding plant flask size 800 x 650 x 500 mm, 138 flasks/hour
 - Saulgauer Eisenhütte: automatic vacuum squeeze moulding plant flask size 760 x 440 x 300 mm, 144 flasks/hour
 - Nortorfer Gusswerk: two SEIATSU airflow squeeze molding machines, flask sizes 460 x 600 x 180/200 mm and 1250 x 1000 x 260/360 mm
- 30 core-shooting machines from 1 l to 40l shooting volume (cold box and croning process, if required other systems)
- process controlled sand preparation plants with permanent monitoring systems supervised by laboratory
- high degree of mechanization in grinding and cleaning shops with continuous tumbling belt shot-blasting plants, automatic abrasive cut-off, deburring press and grinding robot
- electric furnaces for annealing
- efficient pattern making departments with CNC-milling machines for the production of gasifying polystyrene, wood, synthetic resin and metal patterns

... Tailored Castings

CLAASGUSS[®]

CLAASGUSS[®] employs...

... approx. 440 people, including

- 200 skilled workers
- 45 engineers and technicians
- 20 pattern makers
- 30 employees in the quality department
- 5 engineers in the design and product engineering team
- direct sales, advice and technical support by own sales engineers

CLAASGUSS[®] processes...

... annually:

- 37.500 t raw material (pig iron, cast iron scrap, scrap steel)
- 3.000 t coke and 43,5 mill. kWh current
- 1.700 t alloying material
- 15.000 t moulding material and binder

CLAASGUSS[®] provides...

- Consultancy regarding design, material and value analysis
- Utilization of 3D-CAD-data during the whole manufacturing process:
3D-CAD, FEM, Topology and Structure Optimization (bionics), Casting Simulation, Rapid Prototyping, CAM, CAQ
- an IT-organization, exemplary for foundry industry: internal communications between our four sites, external and internal electronic data exchange to fit our customers individual requirements, Manufacturing Data Recording systems and integration of all essential fields of application in terms of technical and business administration
- state-of-the-art environment protection safety measures
(first Environment Report of the foundry industry issued in 1996)

... Tailored Castings