GVA Krefeld

Since 1987 we provide our customers with cast steel and foundry products – from the initial design to construction blueprints to the turnkey masterpiece. GVA supports its customers with hands-on experience of its personnel and reputed Know-How regarding material quality, product handling and industrial design - from a caster's perspective.

GVA Slagpots

Our specialty – the optimal slagpot – is developed, matching the needs of the individual iron and steel plants and the slag transportation system. Selected best-fit material and quality, optimisation in slag handling, engineering and consulting go hand-in-hand, resulting in the most efficient slagpot solution with a increased lifetime, reduced operating costs and lower overall total cost of ownership.

GVA serves its customers with ...

- Slagpots based on the customer's drawing, matching the existing slag handling equipment.
- Optimised slagpots, engineered by GVA in design and material.
- Optimised slagpots for new equipment, developed in cooperation with the project management and carrier suppliers.
- Recommendations for the optimal slagpot handling and maintenance.
- FE calculations to see stressed areas before-hand.

GVA is here to help!

GVA goes beyond the duties of a common supplier. The obligatory screening of the customer's slag handling environment and after sales trouble-shooting is our standard service. We have gained our extensive experience during visits to foundries within the last 40 years. The consistency of the slag, the process of dumping, emptying and general slagpot handling are just a few key-elements to consider. Mismanagement often leads to e.g. cracks and deformation of slagpots or even complete casted-through holes.

References

GVA branded slagpots and metal ladles can be found world-wide, not only in steelworks but also at copper-, nickel and lead smelters.

High quality cast steel and foundry products **since 1987**

The origin of slagpots

designed and engineered in Germany

GVA Krefeld

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GVA Krefeld






Designers and creators of **slagpots**

GVA Krefeld GmbH was founded in 1987 as a German engineering office concentrating on foundry technology, mechanical engineering and plant construction - providing full service and taking the role as producer. Today, GVA stands for high-value products, intelligent constructions and designs, as well as, for flexible international supply chain management and procurement. GVA is specialised in providing optimised castings, forgings and welding constructions for the manufacturing industry and service providers. Our core competency is to combine "German Engineering", with internationally located, GVA-certified production plants close to our worldwide customers and partners. This leads to a unique relationship between GVA and its customers, based on highly individual and flexible international purchasing and production conditions.Today, we provide solutions and products to more than 800 customers in 70 countries. Our certified manufacturing locations provide high volume capacities for castings up to 200 metric tons of single poured weight, forgings up to a weight of 140 metric tons and welding constructions up to a weight of 100 metric tons.

GVA has been designing and creating slagpots for over 30 years and owns many of the original slagpot designs used worldwide.

We are looking forward to being at your service.
Your GVA Team

Slagpots

Designed and engineered in Germany

GVA slagpots

As many other products in the different smelting and chemical processes, slagpots are consumable goods with a limited life span. GVA Krefeld GmbH is "The Slagpots Company" combining our engineering and detailed product development process, we are able to supply our customers with a product matching the exact local requirements with economic efficiency. We review all aspects of the production process, characteristics of the mill's final product, the geographical and climatic conditions, and logistics. Focusing on the logistical elements, such as, transfer cars, cranes and other mobile equipment; we incorporate the GVA Design philosophy and generate cost-efficiency at an optimal life span. The GVA Design and development process for slagpots is unique. Our constructions are continuously evaluated through finite elemental analysis and solidification software. Slagpot performance is checked frequently through direct site visits/audits. These visits also provide the opportunity to review the product application and react quickly with design modifications to match the application and process changes. By using this design improvement process, we match the application today and into the future. Understanding that your maintenance program is critical to slagpots life optimisation, GVA provides both management systems and "turnkey" inspection/ maintenance programs in core markets.

Material

Made with GVA special cast steel, GVA slagpots have similar mechanical properties to G17Mn5 acc. to DIN EN 10293 ASTM A-27 grade 65-35 with the relatively small distortion inclination and favorable weldability.
All our steel cast slagpots are annealed. Special applications require the employment of nodular cast iron.
Our recommended material execution is ferritic and has particularly low silicon content. Depending on the material, we certify the chemical analysis and the mechanical characteristics examined at ambient temperature. The test specimens correspond to DIN 50125 (1986) and DIN EN 10045 (1991).

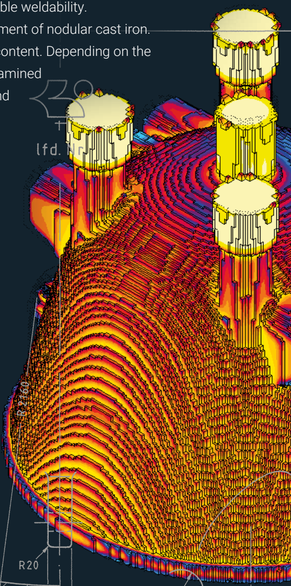
Quality Assurance

Our manufacturing plants are certified ISO 9001. Each slagpot delivery includes a test certifi cate according to DIN EN 10204-3.1 with the following information:

- Chemical analysis and mechanical properties
- Non-destructive examinations
- Dimension report
- Annealing protocol
- Visual and surface protocol

CE Conformity

Since 2009, all new constructions conform to the regulation of the machinery directive 2006/42/EC.
Our slagpots are CE certifi ed and are marked/documented accordingly.



GVA Krefeld

Established and proven **in-house designs** | **High quality** with exceptional value | Technical **excellence** | **Valued** customers | **Assured** service and products