



We manufacture pipes with diameters of up to 1,100 mm

Wear and bearing technology

With components manufactured by Kuhn Special Steel for wear and bearing technology, you can also be sure that the greatest demands on the products will be met. Stainless steel components manufactured by us are worked to the finest tolerances and delivered ready for installation with hardnesses as great as 65 HRC or higher. So you have available a materials hardness such as is required for example for conveyor rollers in blasting plants that are subject to constant blasting by the specific blasting material. With stainless steel components, all dimensions up to a diameter of 1,100 mm can be manufactured by one supplier. Especially wear-resistant special materials against abrasive wear are one of our strengths. Another is our great skill in low-distortion hardening in heat treatment.

Where to come to for know-how!

Kuhn Special Steel customers benefit from our very great know-how in centrifugal casting and this applies over the entire range of dimensions up to a diameter of 1,100 mm. The finishing of components ready for installation with the



Ball mill



Blasting plant

greatest levels of hardness is done on one of the most up-to-date sets of machinery. Kuhn Special Steel offers a comprehensive range of options, especially in the area of corrosion and wear-resistant alloys that we can develop to meet your wishes and requirements.

Benefit from our strengths!

- Over 45 years' experience in centrifugal casting
- 16 centrifugal casting machines and 7 furnaces in use
- Specialist in individual part and small run manufacturing including with large dimensions of up to 1,100 mm
- Comprehensive set of machining and milling machinery, especially on the Wohlenberg line



Processing centre



Parts subject to wear in production

Materials:

Wear-resistant steels:

Austenitic manganese steel Steels for tools

- Cold-working steels
- Hot-working steels
- High speed steels

Chromium gravity cast iron

Austenitic carbide gravity cast iron

Ferritic carbide gravity cast iron

Rust-proof and acid-resistant steels:

Ferrites and martensites

- Standard alloys
- Soft martensites
- Soft martensites – can be precipitation hardened

Duplex steels

- Lean duplex steels
- Low-carbon steel
- High-carbon steel
- Super duplex steel

Austenites

- Standard alloys with and without Mo
- Austenitic alloys with increased Si content
- Fully austenitic special alloys

Cast iron:

Alloy cast iron

Austenitic cast iron

Possible size range:

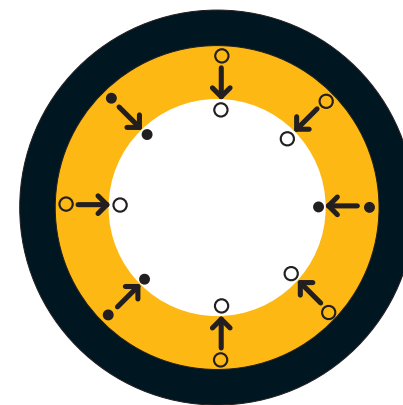
Maximum external diameter 1,100 mm (in exceptional cases up to about 1,300 mm) and 3.3 tonnes cast weight depending on the wall thickness.



Extremely high levels of materials hardness against abrasive wear

Kuhn Special Steel 
Reliable solutions. Always.

Wear and bearing technology



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Kuhn Special Steel 
Reliable solutions. Always.

The centrifugal casting technique

Our core competence is in the centrifugal casting technique with subsequent finishing. We have mastered the application of this production technique for the most varied stainless steels and alloys. The range varies from low-alloy steels to iron-free alloys. We contribute our materials know-how as early as the development phase so as to produce a perfect product at the end.

We manufacture over 70 % of our products as finished products individually and precisely to customers' drawings. And individual parts and small runs represent no problem for us. Moreover we manufacture each one in materials that can be cast reliably with the centrifugal casting technique and we are also happy to manufacture special materials to your particular specifications.

In centrifugal casting, the steel is cast via the axis of rotation into a rotating canister and it solidifies at up to 120 times the acceleration due to gravity. These great rotation forces and the solidification in an inward direction create a particularly dense and pure structure. Impurities and gas inclusions are driven to the surface and can be removed in subsequent processing.

The products manufactured with this technique therefore have outstanding technological properties that are greatly superior in many areas to conventional static casting.

Our varied options for the preparation and finishing of rotationally condensed stainless steel meet our customers' most varied requirements. Whether it's lathes, finishing and polishing machines or our CNC processing centres – our great strength as a specialist in centrifugal casting is also matched in finishing.