



Pump for energy generation

Pump and valve construction

Kuhn Special Steel supplies the entire range for valve construction throughout Europe, from the premachined ball to the unit completely ready for installation consisting of the ball and seat ring. Here we guarantee the greatest range of versions. We supply the pump construction industry with shaft-end sleeves, housings and split, sealing and seat rings in highly wear- and corrosion-resistant materials. Depending on the customer's requirements, we can premachine or manufacture them ready for installation, which reduces your downtime.

Our know-how applied for you

Your requirement is our challenge: This is why over 270 castable materials and special products are manufactured to customers' requirements at Kuhn Special Steel – including for the highest standards of corrosion- and wear resistance. Our partners in pump and valve construction are experienced in the most varied coatings, which allows us to supply ready-coated components ready for installation that fit each other to the tightest tolerances and create a metal seal. Kuhn Special Steel also delivers quality



Waste water pump

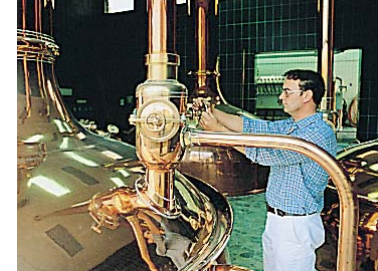
Kuhn Special Steel supplies high-precision components for technically especially demanding, high-performance plant



and flexibility in its castings because we know that, in pump and valve construction in particular, there may be demand either for very short deadlines or alternatively long-term delivery schedules for ongoing production.

Benefit from our strengths!

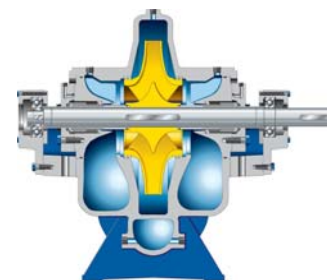
- Over 45 years' experience in centrifugal casting
- 16 centrifugal casting machines and 7 furnaces in use
- Rapid, high-quality and reliable special products from stocking a delivery batch in our factory for "emergencies" through to a consignment stock on your premises.



Use in a brewery valve



Pump fitting



Centrifugal pump for special purposes

Materials

Rust-proof and acid-resistant steels:

Ferrites and martensites

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

Duplex steels

- Lean duplex steel
- Standard duplex steel
- High-carbon duplex steel
- Super duplex steel

Austenites

- Standard alloys with and without Mo
- Austenitic alloys with increased Si content

Wear-resistant steels:

Chromium gravity casting

Austenitic carbide gravity casting

Ferritic carbide gravity casting

Nickel-based alloys

ductile cast steel

Cast iron

Austenitic cast iron

Possible size range:

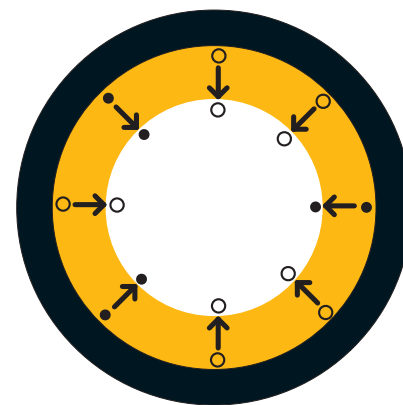
Maximum external diameter up to 1,100 mm (in exceptional cases up to about 1,300 mm) and 3.3 tonnes cast weight depending on the wall thickness



Stainless steel components for pump and valve construction

Kuhn Special Steel 
Reliable solutions. Always.

**Pump and Valve
Construction**



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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.