

Hidria Alutec

High pressure
die-casted and
machined parts





We are a leading provider of complex aluminium cast and machined parts for steering, powertrain and other automotive applications.

Knowledge and experience

By using the knowledge and experience of our dedicated employees, capabilities of Hidria R&D Institute, as well as the design and production of die-cast tools, we provide the shortest time to market, optimal flexibility and the best price-quality ratio.



■ Core competences

- R&D center and related pre-development capabilities
- design and production of die-casting tools
- integration of die casting and machining
- fast time to market / flexibility
- openness
- communication
- Superior Cleanliness Level
- In-house design and production of leakage test devices.

■ Applications – automotive

- Steering, powertrain (ICE, HEV, EV) and other automotive industries.

■ Innovative approach and R&D business model

- Product pre-development
- Prototyping
- Own tool design
- In-house tool production
- Product validation

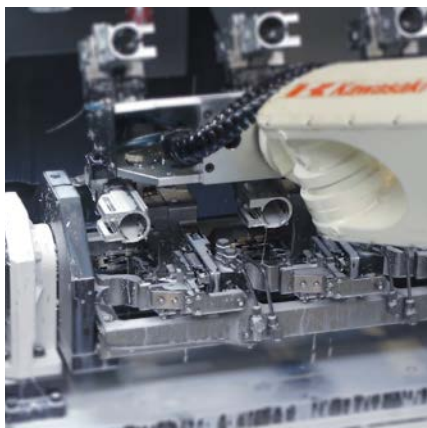
Hidria has developed an interdisciplinary approach to resolving customer needs that combines engineering support with pre-development and sales activities, which is yielding significant competitive advantage.

■ Most advanced laboratory facilities

We develop and cooperate with leading R&D technologies institutions worldwide. Under the scope of the Hidria Innovative Centre, we research, develop and measure in the following fields:

- filling, temperature and stress analyses
- geometric analyses,
- chemical analyses,
- mechanical and physical analyses,
- cleanliness analyses,
- X-ray analyses,
- metrology.





■ Cost optimised processes and technologies

We offer a wide range of the most advanced technologies to ensure full service support:

- Melting
- Degassing
- High pressure casting & trimming in automatized working cell
- Crack detection
- Burst test
- Surface treatment (shot blasting, deburring)

- Traceability marking (standard, DMC)
- X-ray (manual, automatized)
- Automatized machining (4axe, 5axe/ one spindle, two spindle)
- Washing (standard, high pressure, vacuum drying)
- Leakage testing (In-house developed and produced)
- 3D measurements
- Other controls (specific requirements)
- Assembly
- Heat Treatment

■ Tool design and production

Based on experience and knowledge Hidria Alutec has a core competence of internal design and production of die casting tools. It is supported directly through research and development team in connection with internal tool shop as part of Hidria Institute for Materials and Technologies and external partners.



We are specialist
for lightweight steering, powertrain
and components for hybrid and electrical vehicles

With early involvement in pre-development activities and cooperation between business partners and dedicated Hidria team members we bring to the market optimised lightweight aluminium parts with achieved high quality requirements.

Demanding technical and process competences

Part optimisation

High quality standards





Hidria Alutec – location Spodnja Idrija.



Hidria Alutec – location Koper.



Hidria d. o. o.
Spodnja Kanomlja 23
5281 Spodnja Idrija
Slovenia
T: +386 5 375 60 00
E: sales.alutec@hidria.com
www.hidria.com