



VACUUM PRESSURE CASTING MACHINE

VC400 LCD (Indutherm)

Semi-industrial and experimental vacuum die casting plant for aluminium and magnesium as well as special alloys, sample preparation and material development

OUR SERVICES

- process-dependent and application-oriented alloy development (Al, Mg and special alloys)
- mechanical and metallographic investigation and evaluation
- high quality semi-finished material for material development / sample preparation
- development and manufacturing of:
 - complex alloy systems (e.g.: high reactivity)
 - non-standard alloys
 - high-purity sample
 - special applications
 - Samples for material characterization

TECHNICAL DATA

- **manufacturer:** Indutherm
- **casting unit:**
 - heating cable: 4,5kW
 - vacuum: ≥ 30 mbar
 - overpressure: 1,5bar



- **crucible furnace:**
volume: 170cm³
max. temperature: 1.300°C
- **cooling:**
cooling water, 200l/h
- **protective gas supply:**
pure nitrogen (N₂) or argon (Ar)
- **peripherie:**
2 independent chambers
atmosphere in crucible area/mould area adjustable:
 - normal: from 500°C inert gas flooding, but no overpressure
 - vacuum: 30mbar
 - overpressure: 1,5bar

As a subsidiary of AIT LKR Leichtmetallkompetenzzentrum Ranshofen GmbH is pursuing a holistic research and development approach to lightweight construction in the vehicle sector - from new metal alloys and process technology to material-related structural design. This makes LKR a powerful and independent partner for your development projects.



AIT AUSTRIAN INSTITUTE OF TECHNOLOGY GMBH
Center for Low-Emission Transport
LKR Leichtmetallkompetenzzentrum Ranshofen GmbH
Lamprechtshausenerstraße 61
5282 Ranshofen-Braunau

Andreas Betz
Tel +43 50550-6914
andreas.betz@ait.ac.at

Clemens Simson
Tel +43 50550-6930
clemens.simson@ait.ac.at

www.ait.ac.at/en/lkr

