



# PRESSURE INFILTRATION CASTING MACHINE (P-CAST)

Production of metal matrix composites (MMCs) by gas pressure infiltration casting

## OUR SERVICES

- Infiltration or wetting of porous materials, fibers or particles with Al or Mg and its alloys
- Improvement of the mechanical properties, thermal conductivity or expansion coefficients
  - Graphite infiltration
  - Production of fiber composites (long and short fibers)
  - Wetting of ceramic particles

## TECHNICAL DATA

- **Manufacturer:** H.R. Edgar Machining & Fabrication
- **Max. operating pressure:** 100bar
- **Max. temperature:** 800°C
- **Max. vacuum:** 0,2mbar
- **Volume:** 23l
- **Geometries:**
  - Max. sample size: 100x160mm diameter
  - Max. sample size directed solidification: 17x78x160mm





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

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