

# Crucible Melt Extraction

## CME III

### Principle

Plant for the extraction of metallic short fibers under inert operating atmosphere.

---

<b>Manufacturer</b>	Proprietary development
<b>Extraction Wheels</b>	Water cooled based on copper
<b>Crucible</b>	Ceramics 520 cm <sup>3</sup> , Graphite, Steel
<b>Furnace</b>	Horizontal recipient
<b>Heating</b>	Induction heating 10 kHz
<b>Feed Material</b>	Various alloys based on Mg-, Al-, Fe-, Co-, Ni-, Ag-, Pt-, Au-Basis
<b>Fiber Geometry</b>	l = 1 - 600 mm, d = 45 - 400 μm
<b>Operating Temperature</b>	up to 1600 °C
<b>Operating Atmosphere</b>	Inert gas
<b>Vacuum System</b>	Rotary vane pump, Roots pump
<b>Operating Pressure</b>	Vacuum up to 10 <sup>-2</sup> mbar
<b>Optional Equipment</b>	Processability of a small amount from 20 cm <sup>3</sup>

---