

Crucible Melt Extraction

CME IV

Principle

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

Manufacturer	PVA Anlagenbau
Extraction Wheels	Water cooled based on copper
Crucible	Ceramics 1000 cm ³ , Graphite, Steel
Furnace	Horizontal recipient
Heating	Induction heating from 5 to 10 kHz
Feed Material	Various alloys based on Mg-, Al-, Fe-, Co-, Ni-, Ag-, Pt-, Au-Basis
Operating Temperature	up to 2000 °C
Fiber Geometry	l = 1 - 600 mm, d = 50 - 500 μm
Operating Atmosphere	Inert gas
Vacuum System	Rotary vane pump, Roots pump, Turbomolecular pump
Operating Pressure	Pressure up to 10 bar, Prevacuum, High vacuum up to 10 ⁻⁴ mbar
Optional Equipment	Continuous feedstock based on rods
