VIT



▲ In-feed to melting crubling



▲ Transfer pipe TT 800 - 15 / 100



Vitrating charge
machine
CV 2000



▲ Melting crucible CF 1500



◆ VORTEX created by the PEM 800 pump



ELECTROMAGNETIC METAL CIRCULATION PUMP

PATENTED SYSTEM

TYPICAL OPERATING PARAMETERS

- Power
 Mains frequency
 70KVA power supply
- Size
 Overall length nominally
 750 mm (30")
 Bore size nominally 100 mm (4")
- Pumping rate
 Variable and reversible with rates up to 2 metres (80") per second of aluminium
- Cooling Closed circuit water system

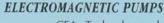


RELIABILITY

Ideally suited to continuous long term operation requiring only planned periodic inspection of the pump and ancilliary equipment.

No moving parts and low refectory wear rate result in very low maintenance costs.

Since the metal is moved by magnetic forces, the pump bas no moving parts to wear



CEA Technology electromagnetic pumps are a significant step forward in metal pumping technology with the following benefits:

- No moving parts
- Very low wear rates
- Low energy consumption
- Proven reliability
- Small overall size
- Simple installation
- Easily retrofitted

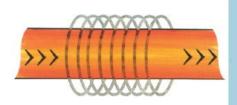
CASE HISTORY

Electromagnetic pump were installed early in 1992 at Trent Alloys, a leading UK aluminium alloy producer based in Derbyshire, England.

The installation of electromagnetic pumps resulted from the Compagny's need to develop alternative melting technologies for environmental and fuel efficiency reasons.

The facility was designed principally for melting machining swarf but equally capable of melting shredded, UBC, chips, bales and solids.

The electromagnetic pumping system has proved ideal for elemental additions, with significant improvements in the homogenity of the chemical composition and improved temperature uniformity of the metal bath.





▲ Mains power transformer



▲ Cooling block

Video of this installation is available on request

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