

## Save energy and reuse molten metal

- Electromagnetic Pumps for transport of molten metal



The implementation of Precimeter Technology provides many advantages

- Energy savings
- Increased productivity
- Raw material savings
- Better use of manpower
- Documentation of the process
- Quality improvements

# Electromagnetic Pumps



Electromagnetic Flat Channel Pump emptying a launder

Electromagnetic Pumps - withstanding up to 800°C; suitable for aluminium, magnesium, lead, tin and zinc. Other materials are available on request.

### Cost savings and fast payback time!

The implementation of a metal reuse system based on an Electromagnetic Pump from Precimeter will save energy costs and the investment has a payback time of a few months! Modestly estimated, the system gives energy savings in 100 days of around € 40,000. This calculation is based on a melting cost of € 50 / tone, a metal surplus of 2 tones per cast and 4 castings a day. This estimate is viable for a typical slab or billet caster. Add the low maintenance costs and an estimated life expectancy of up to 10 years to this equation. The pump has no moving parts, and thus no mechanical wear.

The Electromagnetic Flat Channel Pump from Precimeter is ideal to empty a furnace, launder or degasser when the casting process is finished. The reuse of molten metal saves you the costs incurred by re-melting. There is a fast return on investment since the savings from reusing the metal will add up quickly.

In the picture above you can see how easily a degasser or launder is emptied after casting. The content of the launder is simply pumped into a crucible or launder for reuse.

The electromagnetic pumps for liquid metal are based on the principle of a linear motor. This type of electromagnetic pump results in almost laminar motion of the molten liquid in the pump tube. The pumps are custom made to fit your specific application.



Emptying a degasser into a crucible

## Contact Precimeter Group

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