



HERMIGA 75/2 COLD CRUCIBLE ATOMISER

Produced in response to the growing demand for research scale quantities of gas atomised reactive metals such as Titanium and Nickel, the HERMIGA 75/2 CC is equipped with a 0.5 litre Cold Crucible which enables the production of sufficient quantities of reactive metal powders to support downstream process such as additive layer manufacturing (ALM) and metal injection moulding (MIM).

The compact size of the system allows it to be installed in laboratory environments and it is designed for easy cleaning to reduce contamination between batches. The unit is equipped with a datalogging system to record all main parameters for later analysis and a wide range of options are available to enhance functionality.

The options available include:-

- Oxygen analysis equipment
- Video monitoring system
- Vacuum system upgrades
- Gas rack to enable processing using different gases such as
 - Argon
 - Helium
 - Nitrogen
 - Oxygen (for passivation)
- Melt charging system
- Casting Facility



HERMIGA 75/2 CC

Cold Crucible technology for R&D environments. Supporting development of new alloys for new techniques such as ALM and MIM.

See overleaf

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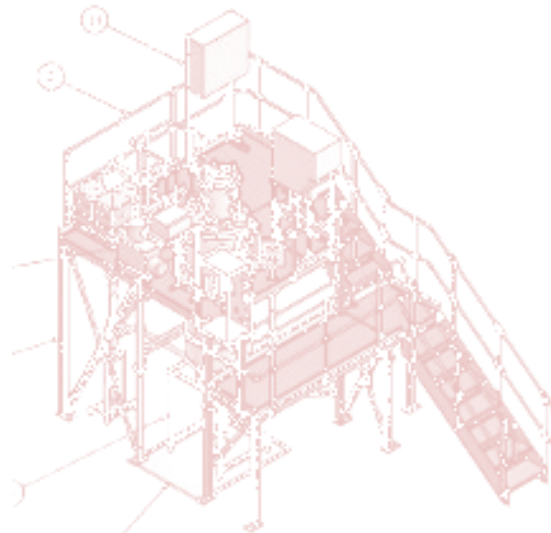
Industries

High performance process solutions

HERMIGA 75/2 CC

Typical system data

Crucible Type:	Water cooled copper (cold crucible)
Crucible Capacity:	0.5 litre (approximately 2.2kg titanium)
Atomisation Die Type:	Free fall
Atomisation Rate:	Typically 2kg/minute titanium
Typical median (d ₅₀):	75 µm
Melt Chamber:	Top opening, water cooled, 304L stainless steel
Atomisation Chamber:	Extended capacity 304L stainless steel
Powder Handling:	High efficiency cyclone, partial and HEPA filters
Power Requirement:	200kVA, 3 phase, 50—60 Hz
Water Requirement:	Approx. 100 litres/min, 5 bar
Gas Requirement:	Argon/Nitrogen/Helium max 6kg/min. Min pressure 60 bar.
Systems Size (L x D x H):	4.1m x 3.2m x 2.5m
System Weight:	4 Tonnes



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