

# PSI Phoenix Scientific Industries



High performance process solutions

## HERMIGA 75/3 VI ATOMISER

The HERMIGA 75/3 VI atomiser uses the same close-coupled die technology as PSI's production-scale systems; accordingly fine powder production down to 10 microns median with rapid solidification rates in the region of  $10^5$  to  $10^6$  Ksec<sup>-1</sup> are possible.

As a result of the continuous development program the HERMIGA 75/3 benefits from PSI's unique geometry die design allowing the consistent and reproducible production of high quality spherical metal powders.

The range of options shown below is available to tailor the atomiser to a customers specific requirements.

- Oxygen monitoring systems
- Video monitoring system
- Upgraded vacuum Systems
- Twin roll quench system
- Casting facility
- Gas supply rack to enable processing using different inert gases such as
  - Argon
  - Helium
  - Nitrogen



### HERMIGA 75/3 VI

A capable, sophisticated and user friendly atomiser for R&D / research environments.

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# PSI



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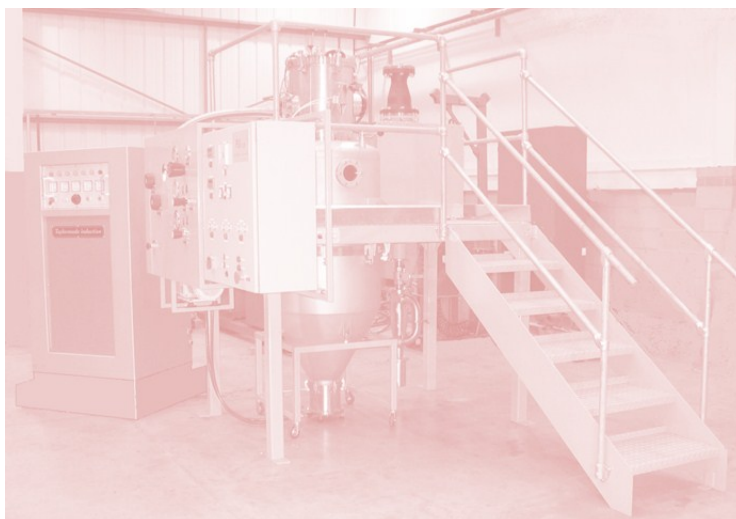
# Industries

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## HERMIGA 75/3 ATOMISER

### Typical system data

Crucible Type:	Induction heated crucible
Crucible Capacity:	0.4 litre (approximately 3 kg steel)
Atomisation die type	Supersonic invariable type 'close-coupled' die
Atomisation Rate	Typically 2kg/minute steel
Typical median (d <sub>50</sub> )	10—100 µm
Melt Chamber	Top opening, water cooled, 304L stainless steel
Atomisation chamber	304L stainless steel
Powder handling	High efficiency cyclone, partial and HEPA filters
Power Requirement	200kVA, 3 phase, 50—60 Hz
Gas Requirement	Argon/Nitrogen/Helium as required, max 6kg/min.
Systems size (L x D x H)	Compact dimensions of 3.2 m x 2.1 m x 2.4m
System weight	4 Tonnes



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