



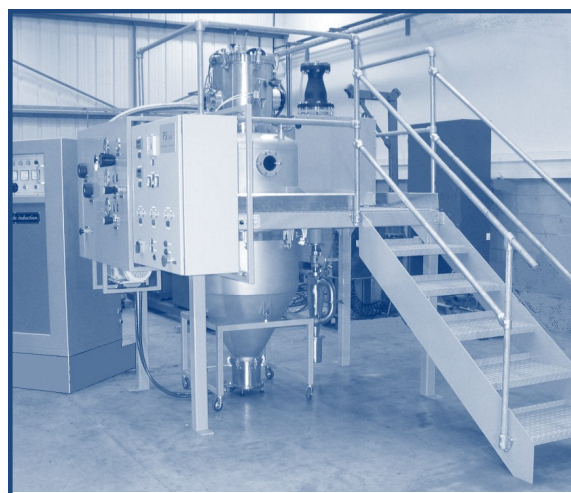
## HERMIGA 75/5 VI ATOMISER

The HERMIGA 75/5 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 75/5 VI 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 system
- Video monitoring system
- Vacuum system upgrades
- Rapid solidification options
- Particle injection system
- Melt charging system
- Gas supply rack to enable processing using different inert gases such as
  - Argon
  - Helium
  - Nitrogen



### HERMIGA 75/5 VI

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

See overleaf

# PSI



# Phoenix Scientific

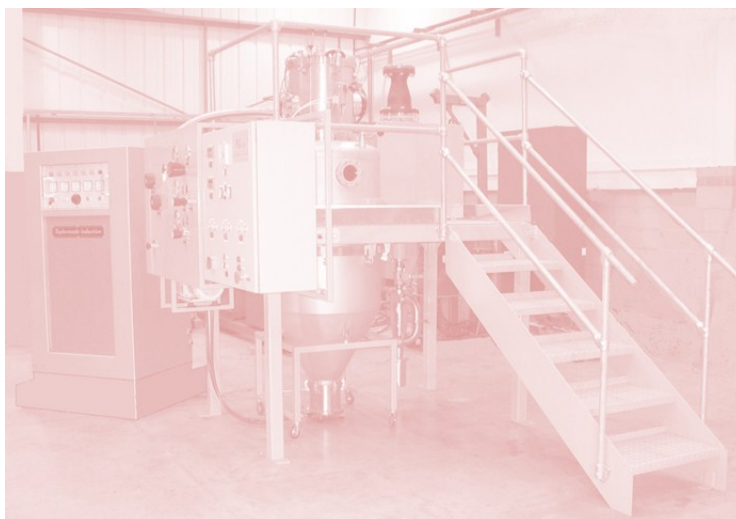
# Industries

## High performance process solutions

## HERMIGA 75/5 VI ATOMISER

### Typical system data

Crucible Type:	Induction heated crucible
Crucible Capacity:	0.7 litre (approximately 5 kg steel)
Atomisation Die Type:	Supersonic invariable type 'close-coupled' die
Atomisation Rate:	Typically 2kg/minute steel
Typical Median ( $d_{50}$ ):	10—100 $\mu\text{m}$
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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