



PSI Phoenix Scientific Industries

High performance process solutions

HERMIGA 120/250 V3I ATOMISER

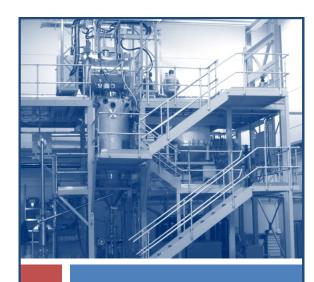
The new HERMIGA 120/250 V3I is a high performance production scale atomiser using PSI's close-coupled die technology; accordingly fine powder production down to 10 microns median with rapid solidification rates in the region of 10⁵ to 10⁶ Ksec⁻¹ are possible.

As a result of the continuous development program the revised HERMIGA 120/250 benefits from a reduced footprint and shorter cycle times using PSI's unique geometry die design allowing consistent and reproducible production of high quality spherical metal powders.

A wide range of options are available in order to produce the system that best suits your requirements.

- Gas rack system available to enable processing using various gases such as;
 - Argon, Helium, Nitrogen
- Melting capacity is 250 kg of steel or equivalent volumes of other alloys.
- Control system includes sophisticated data logging facility
- Automated cone opening / clamping systems
- Options available include;
 - Automated melt chamber door opening / clamping systems
 - Oxygen monitoring
 - **Optical Pyrometry**
 - Booster pump upgrade
 - Melt charging / sampling
 - Gas superheat, gas cooling
 - Particle injection system
 - Additional primary hoppers

See overleaf



HERMIGA 120/250 V3I

A capable, sophisticated and user friendly large scale atomiser for the production of even greater quantities of metal powders.

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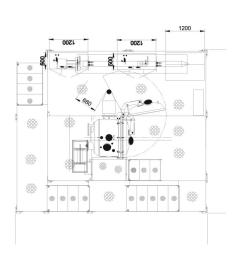
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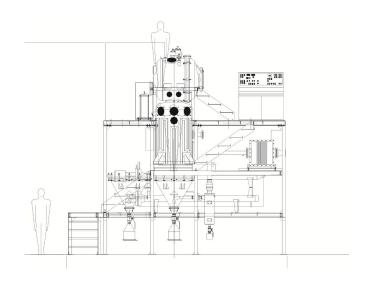
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Typical system data

Furnace Type:	Induction heated tilt and pour furnace
Tundish Type:	Induction heated tundish to ensure good temperature control
Melt Capacity:	250 kg steel or equivalent volume of other alloys
Atomisation Die Type:	Supersonic invariable type 'close-coupled' die
Atomisation Rate:	Typically 6—10 kg/minute of steel
Typical Median (d ₅₀):	In range 10 to 100 μm
Atomisation Chamber:	Water cooled, dual section 304L stainless steel
Powder Handling:	High efficiency cyclone, partial and HEPA filters
Gas Requirement:	Argon/Nitrogen/Helium max 6kg/min. Min pressure 30 bar.
Systems Size (L x D x H):	Dimensions of 8.5 m x 8.0 m x 8.0 m
System Weight:	Approx. 20 Tonnes





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