

Product Specification

Ultrasonic Sieving

Sievgen 04-S

A highly automated, ultrasonic sieve for recycling and processing metal powders.

Sievgen 04-S (SG 04-S) is an environmentally sealed ultrasonic sieve that uses a touch screen interface to automate metal powder sieving from an Additive Manufacturing (AM) machine.

The unit opens up to reveal the sieve at the heart of the process, allowing unhindered cleaning access and minimising turnaround times between batches or material changes. Its straightforward interface enables automation of the process, releasing the operator from continual supervision of the recycling process, whilst still keeping them in control.



sievgen
by farleygreene

Features & Benefits

- **Batch weight control** – control of machine through weighing of processed powder.
- **Highly automated user interface** – intuitive menu based system.
- **Quick clean** – accessible system (on sliding drawer deck) for quick clean or part change.
- **A complete conveying and sieving solution** – compact, all in one design, easy to manoeuvre.
- **High throughput ultrasonic sieving** – aids throughput whilst maintaining high single pass efficiency.
- **Enhanced filtration** – Option to include ULPA (Ultra Low Particulate Air) secondary filter, as well as first stage HEPA filter health monitoring.
- **Flexible Solution** – optional layout to allow larger containers (30litres plus) to be wheeled up to the unit and option to add conveying unit to transfer powders directly from unit to AM machine.
- **Secure, enclosed inert atmosphere** – sieving and collection of powder into a canister can be done under inert atmosphere to enhance safety protocols and extend powder quality. Oxygen content is monitored, and environment is controlled at the levels you require.

Industries:



Food & Drink



Pharma



Chemical



Additive

Product Options*

O2 Monitoring - measurement range 0-25% O2.

Differential Pressure System - HMI visualisation of filter health.

Ultra-Low Particulate Air Filter
- Secondary filter > 99.99995 percentage efficiency.

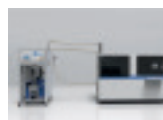
Light Beacon - 360° visual alarm.

Load Cell (oversize) - load cell on oversize container.

Large Container / Barrel Access.

Return Conveying System - secondary vacuum pump to allow full control.

*More options available on request



Typical Materials

- Validation of additive powders such as aluminium, titanium, scalmalloy, steel, and colbalt chrome.

Finishes available

- Internal Surface Polish to <0.8 Ra

Certified Technology



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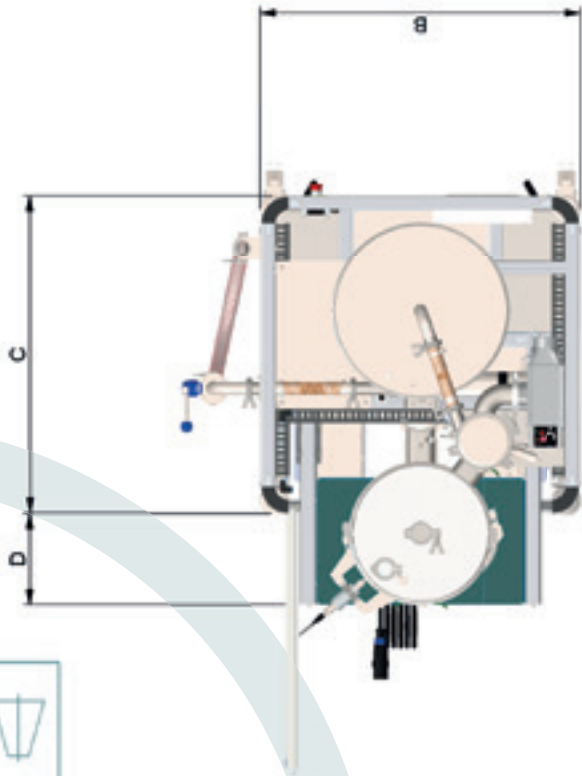
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THIRD ANGLE PROJECTION



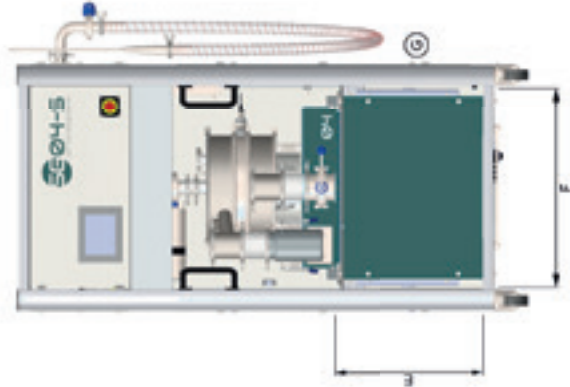
SG 04-S



VACUUM LOADING
SYSTEM SURROUNDED
BY PROTECTIVE SCREEN

ALL CONTROLS FOR SIEVE
ULTRASONICS AND VAC
LOADER ON FRONT PANEL

SHORT SIEVE UNIT
CASSETTE EXTENDED FOR
STRIP DOWN



DIMENSION	SIEVGEN 04-S (mm)
A	1973
B	960
C	953
D	273
E	570
F	400
G	365 (load cell offset)

ELECTRICAL	SIEVGEN 04-S
VOLTAGE	240
FREQUENCY	50 / 60 hz
POWER	0.35 kw (max)
PHASE	SINGLE
ATEX	YES

SCREEN DIAMETER = Ø400mm
OTHER VOLTAGES AVAILABLE ON REQUEST
VAC LOADER AIR REQUIREMENTS ON REQUEST