

A grayscale photograph of a 3D printer nozzle printing a spherical lattice structure. The nozzle is positioned above the sphere, and the lattice is composed of interconnected hexagonal cells. A large, semi-transparent question mark is visible in the background on the left side. A thick red diagonal line runs from the top right towards the bottom left, separating the white upper section from the dark gray lower section.

SECO/WARWICK

INVENTION MEETS RELIABILITY

VECTOR 3D

Complete post processing solutions for metal 3D printing



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Complete post processing solutions for metal 3D printing



APPLICATIONS

- / Additive manufacturing post-printing solutions.
- / Traditional heat treatment processes.



INDUSTRIES

- / Aerospace
- / Automotive
- / Medical
- / Prototyping
- / Pther AM applications
- / Commercial heat treatment



MATERIALS

- / Speciality alloys based on nikel, chromium, cobalt base alloys, copper.
- / Reactive materials like aluminum or titanium base alloys.



TECHNOLOGIES

- / Debinding
- / Sintering
- / Stress relieving
- / Aging
- / Solution heat treatment hardening
- / Carburizing
- / Annealing
- / Brazing
- / Coating
- / Tempering



SELECTED FURNACE ADVANTAGES

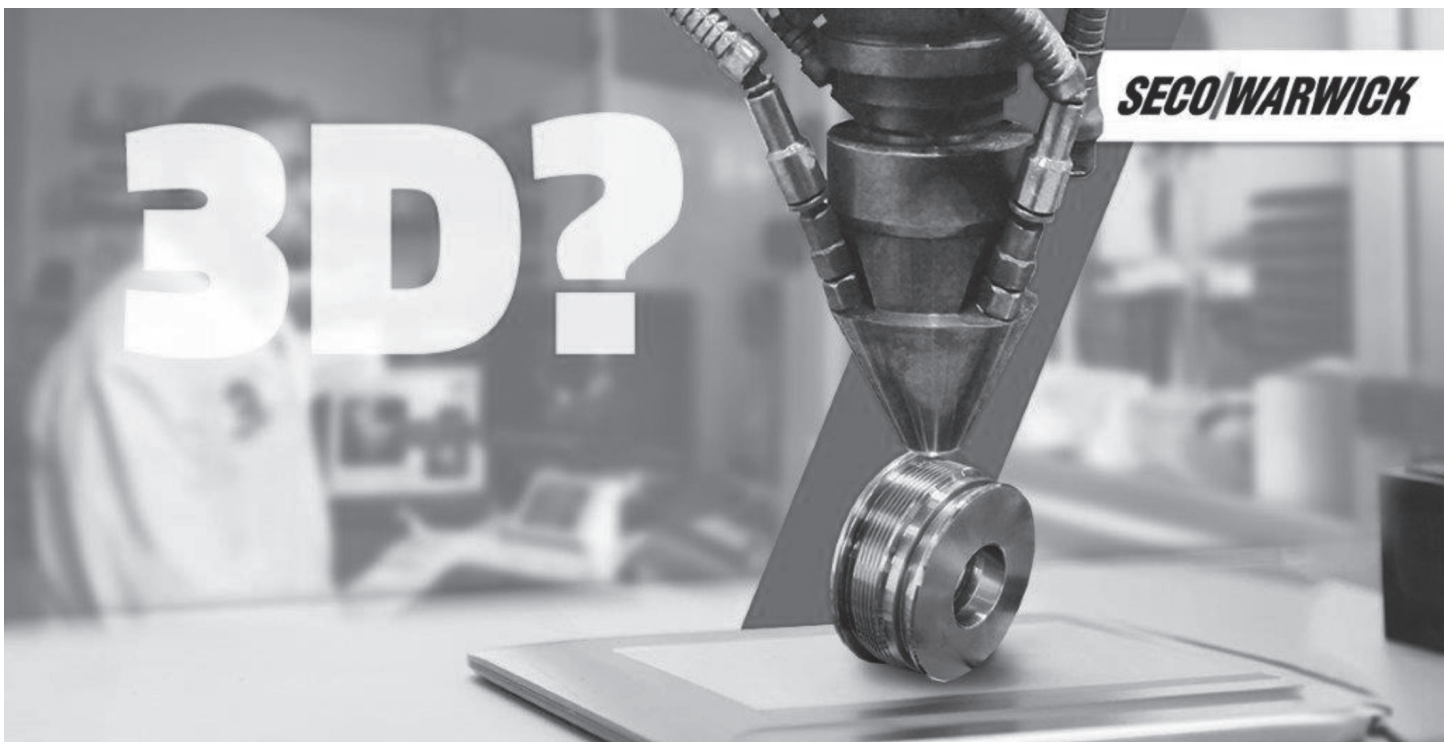
- / 4 different types of binder removal system, that guarantee long life of the furnace temperature range up to 2300 °C.
- / Great heating uniformity meets the highest requirements of aerospace industry.
- / Graphite or all metal chamber helps to achieve expected results and ensure quality for high demand markets such as aerospace, automotive or medical.
- / Adjustable cooling system that helps in processing different shapes and size of parts.
- / High efficiency pumping system helps to save time and money during processing.
- / Equipment dedicated for mass production profile as well as prototyping and R&D centers.
- / World brand components and local support guarantee fast service reaction.
- / Intuitive control system makes furnace operations easy to handle.
- / Besides processing of AM parts, Vector 3D can be also used to heat treat traditional parts, what makes it a very versatile piece of equipment.

PARAMETERS

Size and efficiency can be adjusted to customer needs. Standard working zones are:

- / 250 x 250 x 400 (max load 50 kg)
- / 400 x 400 x 600 (max load 200 kg)
- / 600 x 600 x 900 (max load 800 kg)
- / 900 x 900 x 1200 (max load 1500 kg)

SECO/WARWICK is open to design and manufacture also tailor made solution according to customer requirements.



SECO/WARWICK

Invention Meets Reliability

SECO/WARWICK is the **1st Choice Supplier**
of Solutions for Heat Treatment and Metallurgy.

We create innovative products that provide our customers with reliable, safe and environmentally friendly solutions for heat treatment and metallurgy and ensure the economic efficiency of their businesses. Expertise includes end-to-end solutions in 5 categories: vacuum heat treatment, atmosphere, and aluminum thermal processing, controlled atmosphere brazing of aluminum heat exchangers and vacuum metallurgy.

SECO/WARWICK Group, with 7 companies located on 3 continents, has customers in nearly 70 countries with more than 5000 deployed solutions. The company provides standard or customized state-of-the-art heat processing and metallurgy equipment and technologies to leading companies in the following industries: automotive, aerospace, electronics, tooling, medical, recycling, energy including nuclear, wind, oil, gas, solar and production of steel, titanium, and aluminum.

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