

OUR RANGE OF SERVICES

The key factor of our success:

Our employees.

With our highly qualified staff, we serve the following industries and fields of technology:

- ▶ Hard metals
- ▶ Sintered metals
- ▶ Ceramics
- ▶ Powder injection molding (PIM)



Made in Germany



Made in Germany

SYSTEM SOLUTIONS FROM A SINGLE SOURCE

We design and build for you:

- ▶ Electrically heated industrial furnaces up to 2500° C under vacuum, various gas atmospheres and high pressure
- ▶ Heat treatment systems applying inert gas and vacuum
- ▶ Furnaces according to customers specific requirements
- ▶ Agitator mills / Attritors / Ball mills
- ▶ Drying systems for suspensions and further materials
- ▶ Machines for CNC machining of green parts
- ▶ Systems for powder handling and filling
- ▶ Linking / automating systems

TISOMA - THE COMPANY

Quality, experience and customer relationships.

This are the values we are driven by.

When manufacturing our systems, we rely on proven production methods and know-how from over 40 years of experience. Through constant development and the interaction of the latest technology, we build state-of-the-art systems for heat treatment, powder preparation, as well as for individual and innovative customer processes

The worldwide use of our systems reflects the trust of our customers and the quality of our systems.



SUSTAINABLE SYSTEM SUPPORT



Service and Maintenance

Continuous maintenance and inspections by our experienced service team ensure a high level of reliability of our systems. Should a repair become necessary, we can respond quickly to your needs. We have a large stock of standard spare parts.



Technical Support

If quick solutions are required for critical functionality situations, we ensure your production and system availability.



Technical Training

For all systems, you will receive comprehensive training and explanations of system operation from our qualified staff. If necessary, we can also support you with know-how for processes and technologies. Contact us!



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The customers don't want explanations, but solutions to their problems.

www.tisoma.de

SYSTEMS FOR MANUFACTURING HARD METAL

Grinding, Homogenizing, Drying Suspensions



Attritor

Suspension Tank

Double Cone Dryer with Solvent Recovery Unit

Laboratory Attritor

Laboratory Dryer

Powder handling, Special Systems, Green part machining



Fractionation

Cooling Systems after the Spray Dryer

Machining Center for Green Part CNC Machining

Systems for Cutting and Handling of Extruded Rods

Cleaning and Coating System for Sintering Plates

Debinding, Sintering, Hot isostatic pressing



Debinding Furnace

Vertical Sinter Furnace

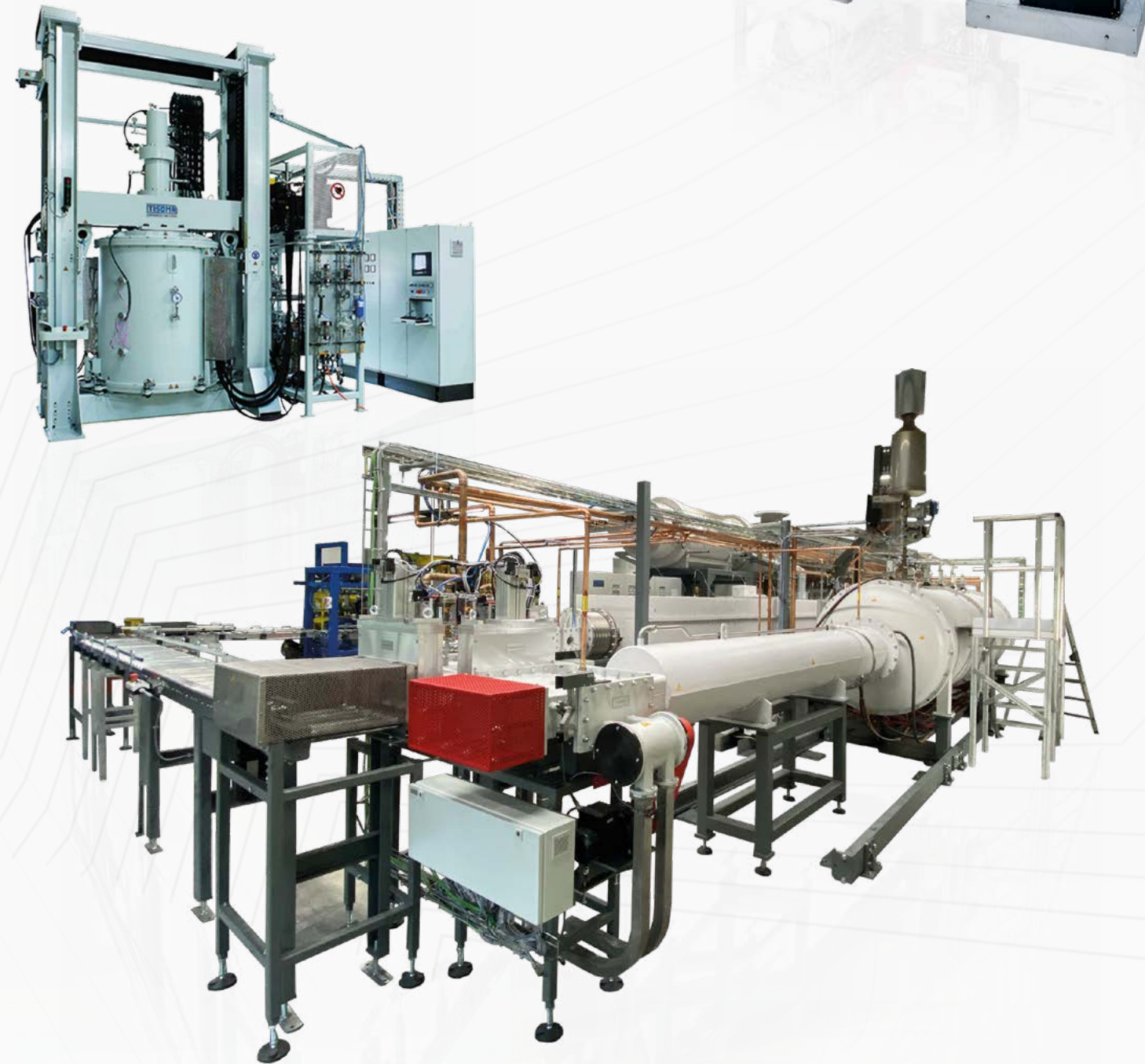
Pressure Sinter Furnace

Continuous Furnace with Debinding Zone

SYSTEMS FOR HEAT TREATMENT

TISOMA furnace technology

- ▶ Heat treatment for various applications
- ▶ Hot-Wall Furnaces / Cold-Wall Retort Furnaces
- ▶ High pressure sintering up to 100 bar
- ▶ Vacuum up to high vacuum applications
- ▶ Batch Furnaces / Continuous Furnace Systems
- ▶ Various furnace atmospheres with inert and active gases
- ▶ Process temperatures up to 2500° C
- ▶ Furnace insert made of metal, ceramic or graphite
- ▶ Modern insulation materials for energy-efficient processes



SYSTEMS FOR MANUFACTURING POWDER METAL PARTS (MIM / PIM)

Debinding systems



Liquid Debinding Systems



Catalytic Debinding Furnaces with Acid Handling System

Combined 2nd-stage debinding and sinter furnaces



Vacuum Sinter Furnace - vertical



High Vacuum Sinter Furnace - horizontal



Metallic Heaters



Graphite Heaters

Continuous furnaces



Walking Beam Furnace



Pusher Type Furnace



Continuous Furnace with Hydrogen