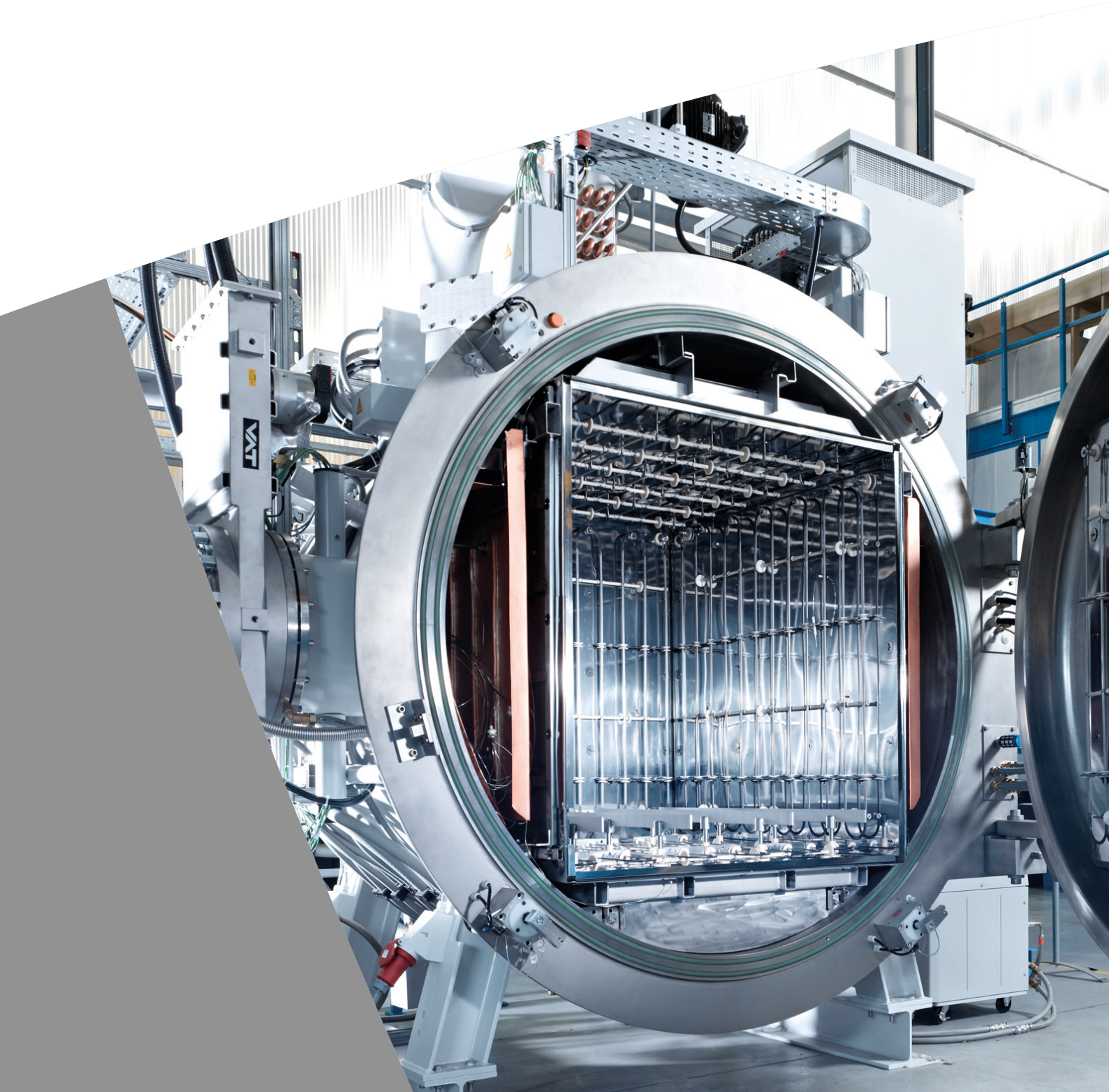
PVA TePla

VI.Braze 2200

Ultra high vacuum

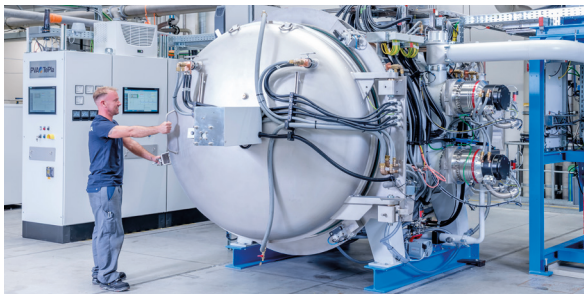


Joining process of highest quality

High vacuum brazing of big batches

VI.Braze 2200 – Big. Fast. Clean.

The **VI.Braze 2200** is a metallic heated high-vacuum furnace for **highest vacuum levels** and ready for **wall-integration**. Equipped with **turbomolecular pumps** and a **fast-cooling system**, it offers maximum efficiency at low operating costs.



Thanks to its **vacuum tight design** and **large usable volume**, the furnace is ideal for **vacuum interrupter production** and other processes that require highest vacuum levels.

We rely on **premium components** and strict quality control to ensure **outstanding reliability** and a **long service life**. Our global **service team** supports you with maintenance, adjustments, and upgrades—keeping you ready for the future.

Technical data – VI.Braze 2200 (base trim)

Performance / Output	Charge weight max. [kg]	1400
	Workpiece dimensions max. (WxHxD) [mm]	1200 x 1200 x 1500
	Temperature max. [°C]	1100
	Temperature uniformity [K]	±5
	Ultimate vacuum [mbar]	≤5*10^{-7}
	Leak rate of furnace [mbar*l/s]	≤5*10^{-5}
	Max. pressure fast-cooling [mbar]	800
Set-up / Dimensions	Machine footprint (WxHxD) [mm]	3800 x 4500 x 10300
	Total space needed [m^2]	39
	Loading height [mm]	+1120
	Total weight of installation [kg]	~15000
Consumption / Input / Connection	Water (Size | Flowrate | Pressure)	2 ½ in | 280 l/min. | 2-4bar
	Process gas (Size | Pressure)	½" | 2 bar
	Pressurized air (Size | Pressure)	½" | 5-8bar
	Rated power heater [kVA]	360
	Rated power total [kVA]	402
Data / Communication / Industry 4.0	Remote access	VPN
	Hardware connection	USB
	MES Interface	OPC UA for machinery via PVA edge device
Safety	Built according to	CE (UL / CSA)

Customization VI.Braze 2200

Modular system (options)

2nd Gas Ar/N_2
Want to use a constant stream of atmosphere around your parts during process phase? Add this second gas line! – Either stationary or streaming.

2nd Gas H_2
Diversify your capabilities by adding Hydrogen to your available process atmospheres – Either stationary or streaming.

High efficiency package
Variable speed components + extra insulation lowers your energy consumption. Good for your operational costs and good for the environment.

Individual RAL Colour
Represent! Choose your companies RAL Colours for Frame and/or Pipes and/or Vessel.

Chiller for cooling water
No cold water supply on site? We have a suitable solution to keep your furnace cool.

Support arm for HMI
Tired of looking into a fixed position vertical screen? A support arm gives you the freedom to adjust position, height and angle of your HMI.

UL ready version
For customers that need clearance by a UL Inspector we offer a Version build in accordance with UL standards.

PVA Portal with Edge IOT device
Access your furnace from everywhere! – Or limit it to your local network. Allows you to access:

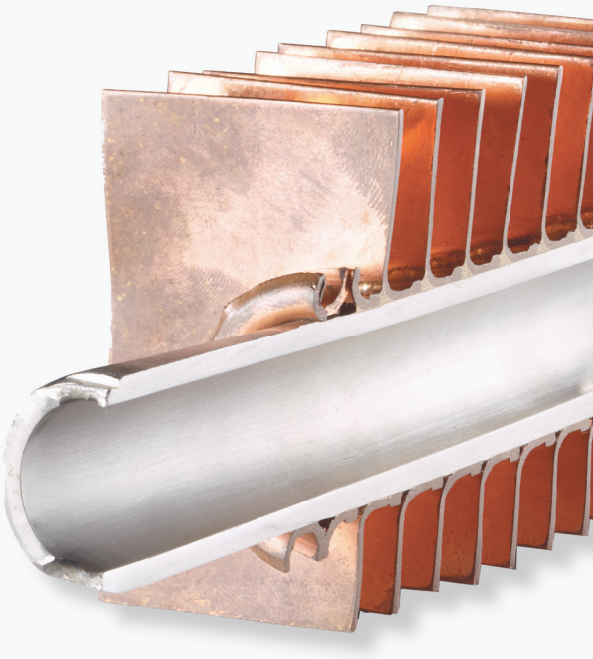
- PVA Equipment Hub
- PVA eDocs Basic
- PVA Condition Monitoring

Meets all requirements of machine directive and cyber security.

AMS 2750-H trim
Producing for the Aerospace Industry requires some extras in temperature measurement, repeatability and documentation. This option includes all necessary upgrades and measurements.

Individualization (on request)

Tailored furnace
Looking for something different in this size? Talk to us – we have a long history of individually designed furnaces of this size.



Our promise

We bring together deep expertise in industrial furnace technology, solution-oriented thinking, and uncompromising quality standards across all technological disciplines. The result: **future-ready high-tech systems** featuring **industry-leading process technology** and **premium quality** – **Made in Germany**.

From initial consultation to dependable after-sales support, we accompany our customers through every stage of the project with **personalized, expert service**. Our clients appreciate our flexibility – backed by the financial strength of **PVA TePla AG**, a publicly listed company.

That's how we deliver on our promise – **cutting-edge system technology for even better products**.

PVA TePla

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