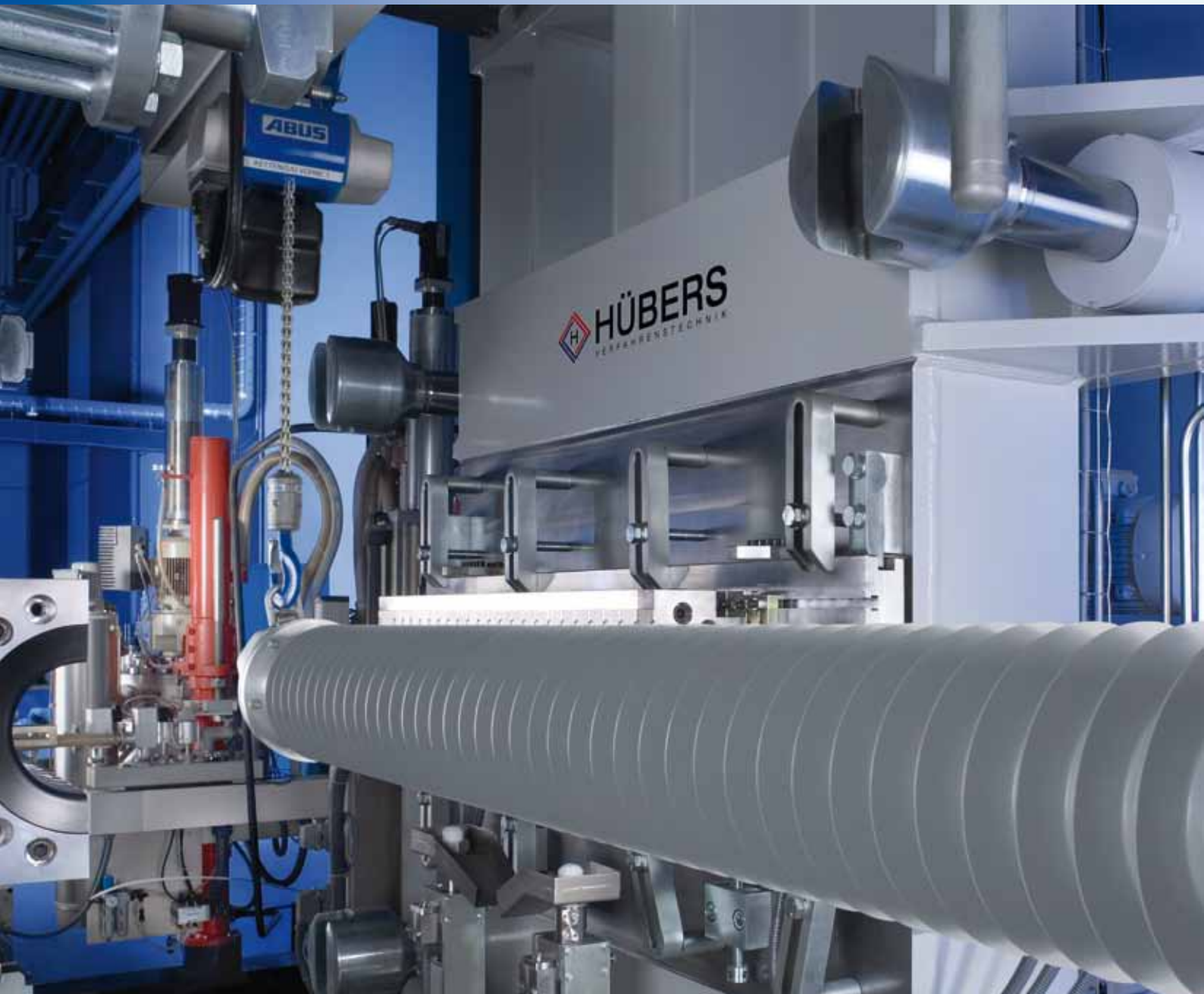
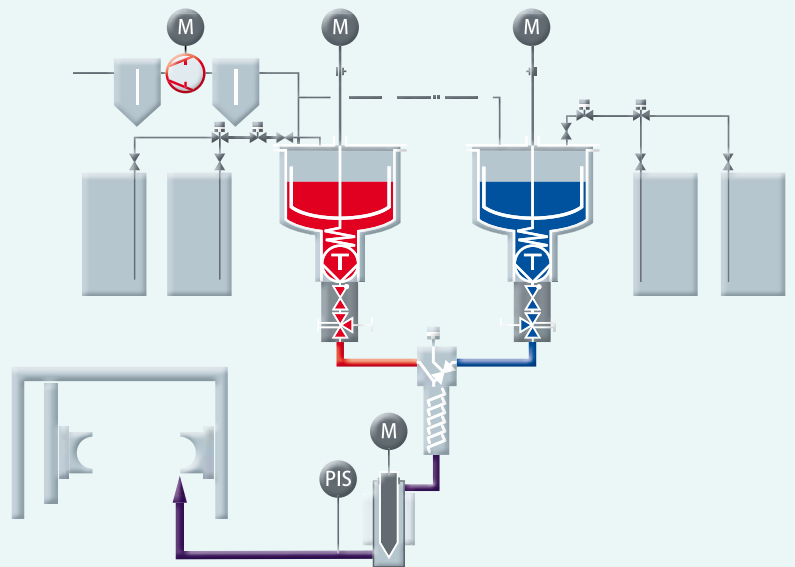


HÜBERS: SVT® – Silicone Vacuum Treatment





The Task: Eliminate Air Voids In Composite Hollow Insulators

The **appearance of air voids in the finished insulator** is an **immense problem in the production of hollow insulators** made of silicone. Air voids in the insulator material **compromise insulation capacity**. This can cause failures and short circuits, and has a negative effect on insulator service life.


In conventional production the voids are compressed after mould filling due to high cavity pressure. Hence **it is only**

possible to give a limited guarantee of a void-free product, and a great deal of surplus material is generated in the process.


We have tackled this problem. With the aid of our **Technical Development Centre**, we have developed new, **ground-breaking technology for silicone casting** in composite hollow insulators.

The Solution: SVT[®] – Silicone Vacuum Treatment


In order to purge the silicone components of air voids, we **begin right at the start of the production process**. By means of **vacuum pre-treatment** of the components, we make sure from the outset that they are **free of any air voids**.

 SVT[®] – Silicone Vacuum Treatment consists of a **vacuum mixing and metering system** with two evacuable containers each with metering pump. **Synchronous, uninterrupted filling** of the static mixer is guaranteed by means of **forced conveyance** through **metering pumps**. In addition, our **patented dosing control unit DCU** checks the pressure in the feed pipes – mixing errors and air voids are thus eliminated.

Downstream is a mass plunger which, when the mould is full, maintains a **constant, adjustable pressure on the mass feed** to the casting valves. It also allows **constant mass flow** during mould filling.

Our new  SVT[®] – Silicone Vacuum Treatment, i.e. the **pre-treatment of components**, also allows us to break new ground in the subsequent production process.

As the **casting components are freed from air voids**, approximately only **half of the clamping pressure** is required for mould filling.

Instead of using steel for the mould as previously,  SVT[®] – Silicone Vacuum Treatment thus allows us to use **less expensive aluminium alloy as the mould material**.

In turn, **only electric heating** is now required **to change the mould temperature** – the usual, energy-intensive water heating is no longer needed.

ng: SVT® – Silicone Vacuum Treatment



SVT® – and more ...

Degassing

The aluminium moulds used are equipped with **special degassing systems**. There are degassing channels along the contours and **additional upward pointing degassing bridges** with special geometric design (thickness and width) **on the sides**.


Heating/cooling

As an option, the **containers** and **feed pipes** to the **static mixer** are **heatable**, which leads to a **reduction in mould opening times**.

The static mixer and mass plunger are suitable for **heating and cooling**. The mixture can be cooled, e.g. during a break in production over a weekend, which **considerably extends its potlife**.

Clamping pressure

Due to **100 % clamping pressure** during mould filling there is very little surplus material and **flash is eliminated** – thus **minimising subsequent processing work**.

 **SVT® – Silicone Vacuum Treatment** brings you cost savings due to **flawless, void-free insulators, cost-effective aluminium moulds, low cost heating system, shorter mould opening times** and **less finishing** due to flash-free insulators.

SVT® – Silicone Vacuum Treatment

- Vacuum mixing and metering system
- Metering pump, metering screw, dosing control unit DCU and static mixer
- Mass plunger
- Special aluminium alloy mould
- Cost-efficient electric heating
- Clamping machine

Add-ons:

- Heatable containers and pipes
- Static mixer and mass plunger suitable for heating and cooling
- Continuous processing without interruptions
- Allows the addition of fillers
- Can be used with 200 l barrels or 1000 l Ecobulk/IBC containers

Benefits for the product:

- Void-free insulators
- Short mould opening times
- Extended potlife
- Virtually flash-free

What can we do for you?



We look forward to hearing from you. If you need more information on HÜBERS products and services, or have a specific request, just give us a call or send us an e-mail. We will respond immediately!

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More from our product range:

- Vacuum mixing and metering systems for the electrical and electronics industry
- Impregnation systems
- APG clamping machines
- Laboratory and special systems
- Compact mixing and metering
- Micro casting systems
- Oven systems/dryers



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