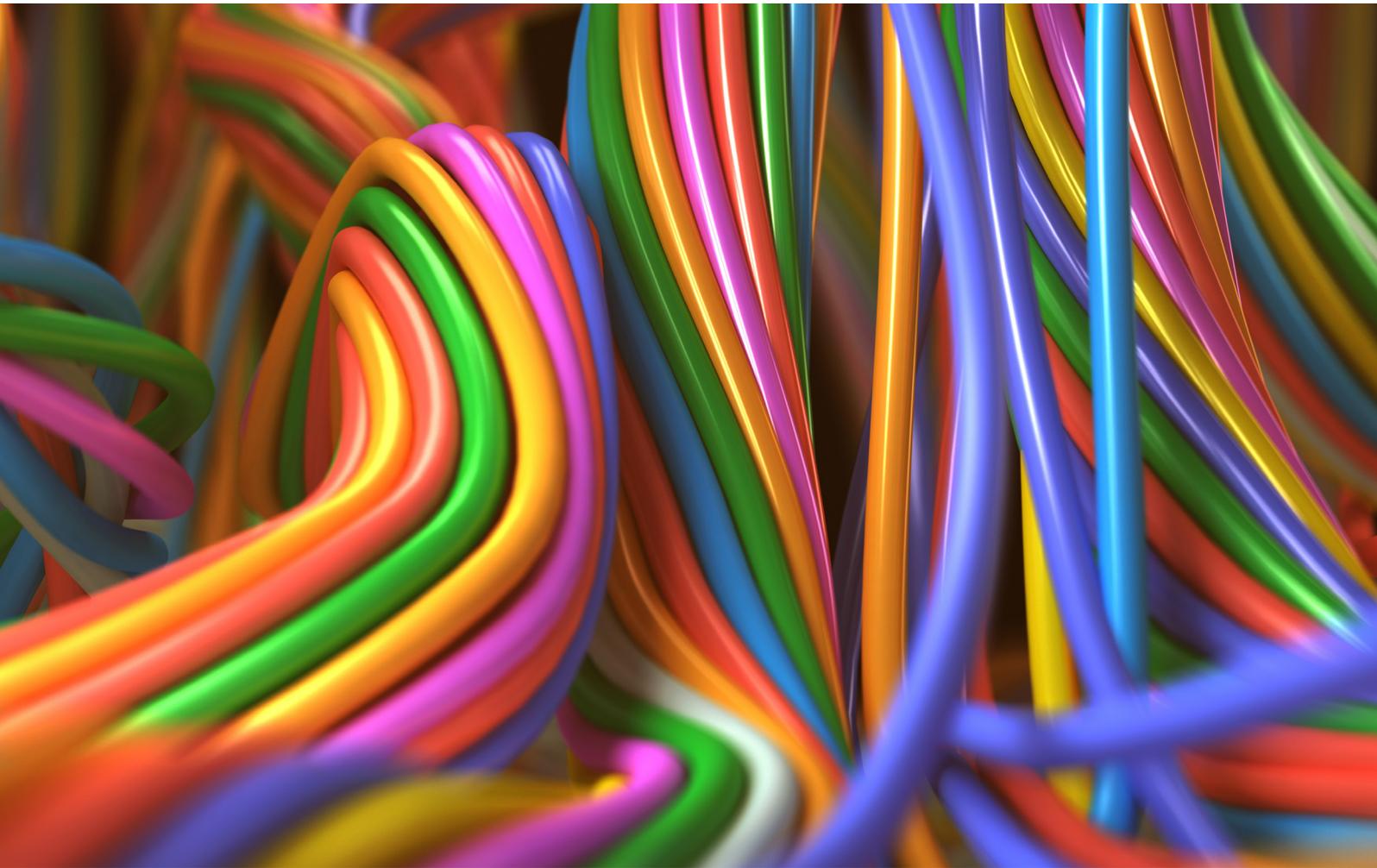


**MOULD TEMPERATURE CONTROL**

# Extrusion



# ADVANTAGES OF TOOL-TEMP TEMPERATURE CONTROL UNITS

## Extrusion with liquid heat transfer media

In extrusion, temperature control plays a decisive role during the entire processing procedure. During process steps such as melting, compounding, homogenising, conditioning and discharge, the temperature must be raised or lowered zone by zone, depending on the product and production process. Temperature control with liquid heat transfer media offers clear advantages here. In addition to homogeneous temperature distribution, it offers the decisive advantage of simultaneous heat supply and removal within one temperature control zone. Precise and fast-response temperature control improves the structure of the material conveyed and helps to achieve an optimum surface finish. The improved conveying behaviour enables higher throughputs with consistent quality and increased energy efficiency.

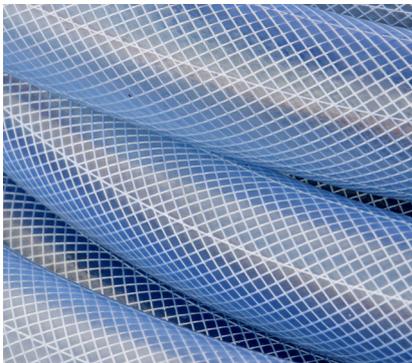
To meet the ever-increasing market demands for manufacturing and quality, we offer a wide range of powerful, responsive and precise temperature control units.

## Advantages of Tool-Temp temperature control units

Tool-Temp products are developed and manufactured exclusively in Switzerland. Even during the development phase, the utmost attention is paid to the selection of high-quality appliance components. All parts that come into contact with water are made of stainless steel or bronze. Tool-Temp does not use flexible connections in all units and deliberately uses stainless steel fixed piping. All units have integrated flow measurement, which continuously monitors the medium circulation.

Tool-Temp stands for seamless quality. Every single unit is tested. The high level of vertical integration allows high-quality solutions that would be inconceivable with bought-in parts due to the costs involved. Important components such as pumps, heat exchangers, flow meters and special switches and relays are produced at the Sulgen plant.

Short response times for customer-specific solutions are a matter of course for us and are part of our service.



Precision, high productivity and consistent quality thanks to the use of Tool-Temp temperature control units.





Tool-Temp AG offers customised solutions.

### Universal control units

**Temperatures:**

Water for 90 °C, Oil for 150 °C

**Heating capacity:**

3–18 kW

**System:**

Open system; the heat transfer medium is in direct contact with the atmospheric oxygen

**Special features:**

- Flow measurement and pressure display
- Leakstop operation and mould emptying
- Temperature measurement on the mould
- Interface controller
- Different pump types

### Pressurised control units

**Temperatures:**

up to 160 °C

**Heating capacity:**

6–48 kW

**System:**

Closed system, the boiling point is raised by the static pressure in the circuit

**Special features:**

- Flow measurement and pressure display
- Leakstop operation, booster pump
- Mould emptying with compressed air
- Temperature measurement at the mould
- Interface controller
- Magnetically coupled pump

### Water control units up to 90 °C

**Temperatures:**

up to 90 °C

**Heating capacity:**

3–144 kW

**System:**

Open system with large cooling capacity

**Special features:**

- Flow measurement and pressure display
- Leakstop operation and mould emptying
- Temperature measurement on the mould
- Interface controller
- Increased cooling capacity through the use of multiple heat exchangers

### Oil control units up to 360 °C

**Temperatures:**

up to 360 °C

**Heating capacity:**

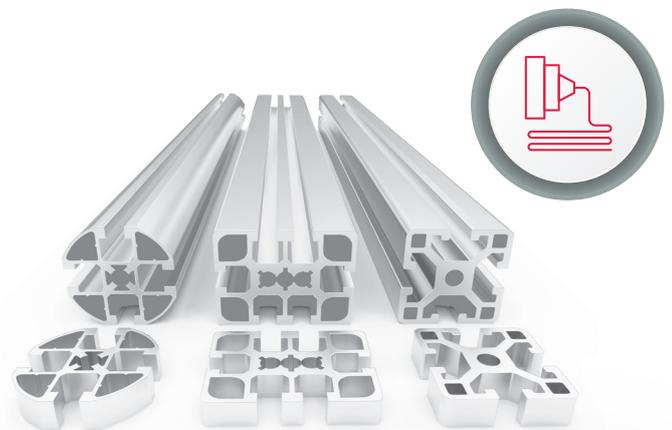
8–144 kW

**System:**

Closed hot oil circuit with superimposed cold oil supply

**Special features:**

- Flow measurement and pressure display
- Leakstop operation and mould emptying
- Temperature measurement at the mould
- Interface controller
- Magnetically coupled pump



# HERE FOR OUR CUSTOMERS



## Tool-Temp AG

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Switzerland

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### Produced in Switzerland – worldwide service

- Tool-Temp units are exclusively developed and manufactured in Sulgen, Switzerland. This guarantees a high quality workmanship.
- Over 40 country agents and 16 TOOL-TEMP subsidiaries ensure a reliable and professional distribution and after-sale service locally.
- Short reaction times and rapid spare parts supply thanks to large stocks of spares and units.

### Safety and reliability

- Constant quality thanks to the in-house development and manufacturing of core-components like pumps, heat exchangers, electro-technical parts, etc.
- Only well-selected high-class materials are used in manufacturing process.
- Clever safety circuits, acoustic and visual alarms to protect your installation.

### Cost efficiency and rapidity

- Our deep level of manufacturing penetration provides a fast time-to-market, also for customised solutions.
- No costly production off-times and repairs thanks to maintenance friendly units.
- Good costs / performance ratio guarantees a fast return on investment.

