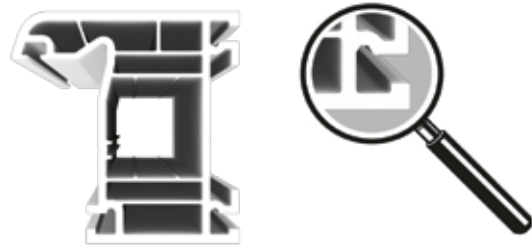




Profile sections of a window profile



Profile sections of a cable duct

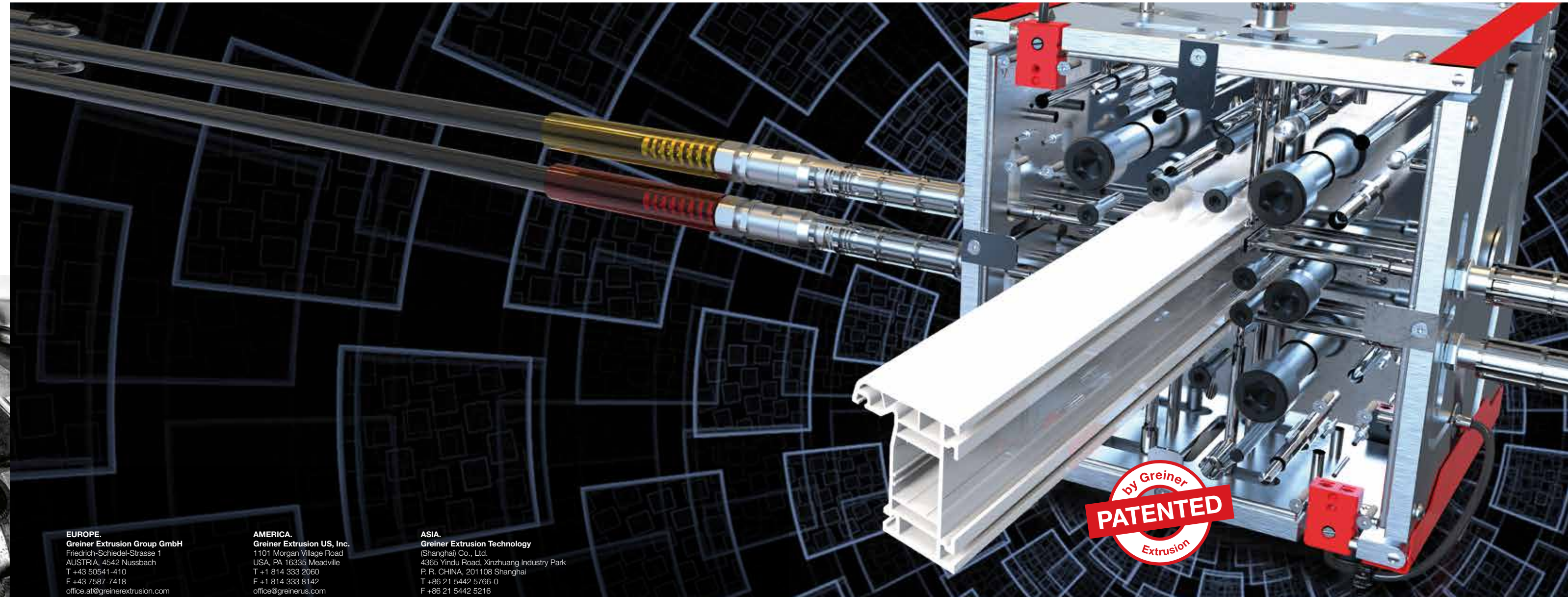


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**FLOW.CONTROL  
FLOW.MATIC**

Lowest material usage. Most precise profile geometries.  
Shorter start-up times.

www.greinerextrusion.com

# Actively control your profile sections

Lowest material usage. Most precise profile geometries. Shorter start-up times.

FLOW.CONTROL

You can sustainably improve your production with FLOW.CONTROL, an innovation from Greiner Extrusion. Individual profile sections are selectively decelerated or accelerated with cold or hot air by means of melt flow control.



Secure yourself considerable material savings, precise profile geometries and shorter start-up times with FLOW.CONTROL. The additional control capability also enhances line flexibility and significantly shortens reaction and intervention times in the event of environmental fluctuations. It is possible to retrofit the FLOW.CONTROL with the majority of Greiner die concepts.

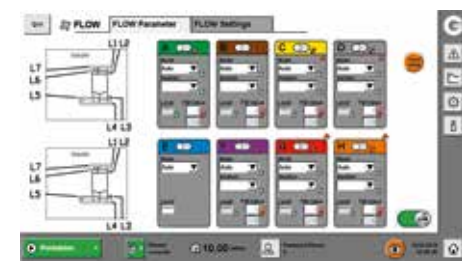
- Your benefits:**
- reduction in production costs
  - higher production flexibility
  - lower profile metre weight
  - extended service interval
  - guaranteed reproducibility

## FLOW.CONTROL pro: Integrated in the RED.CAL control system.

The FLOW.CONTROL pro is line-bound in connection with the GESS.TRONIC and integrated in the RED.LINE. The retrofitting of the GESS.TRONIC provides the precondition for using the FLOW.CONTROL pro.

## FLOW.CONTROL pro mobile: For all calibration tables.

The new FLOW.CONTROL pro mobile is independent of the system and can be used with all calibration tables. The mobile design ensures maximum flexibility in production.



Worth seeing! Our new FLOW.CONTROL and FLOW.MATIC animation on YouTube



Window



Tec Profile



# Extrusion 4.0 – FLOW.MATIC controls profile sections fully automatically

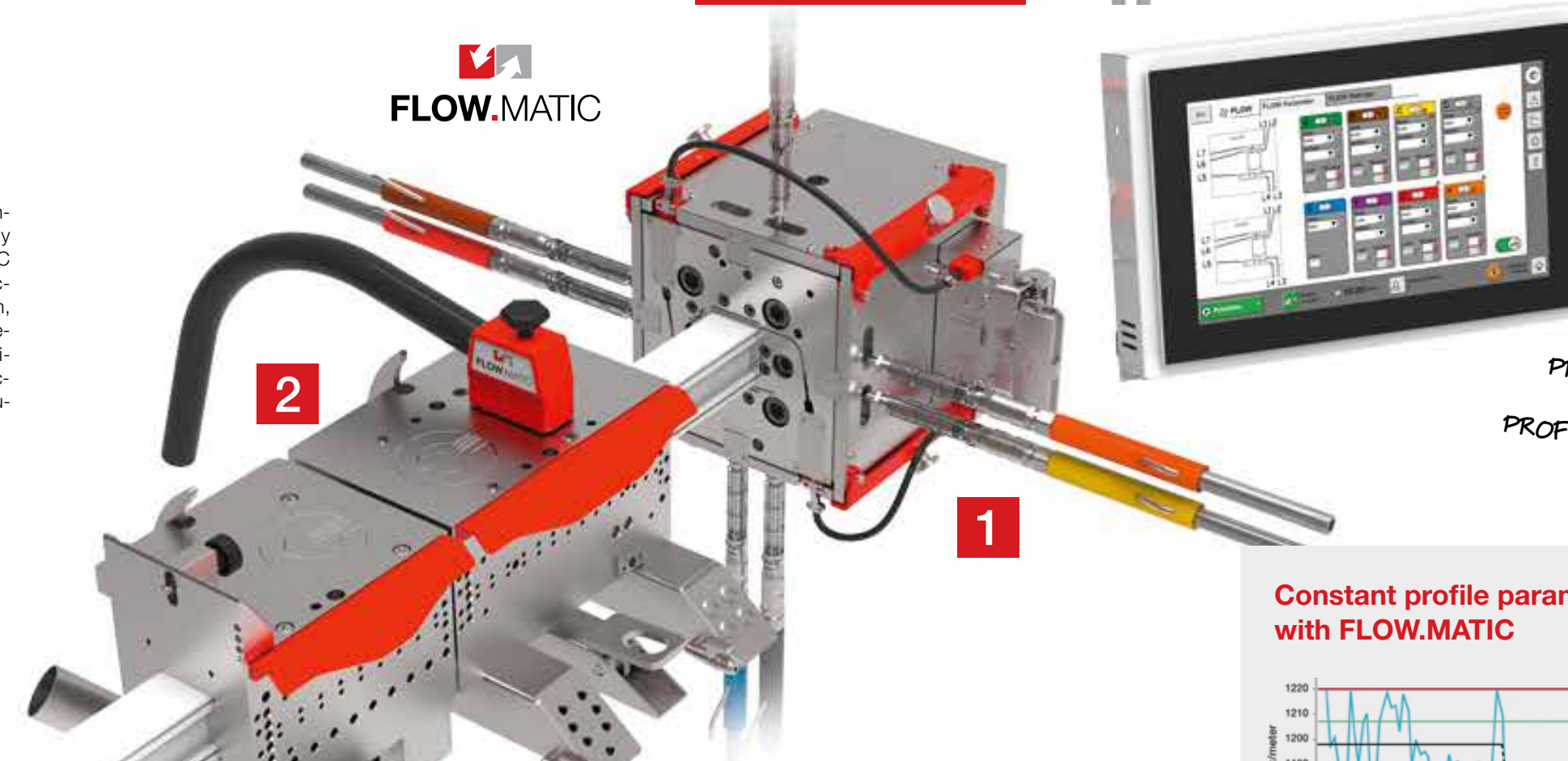
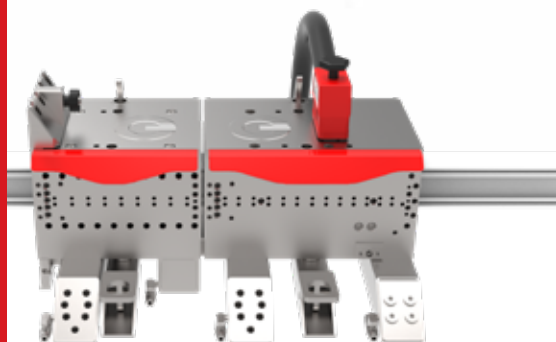
The functional dimensions of the profile sections can now be permanently ensured fully automatically and within seconds thanks to FLOW.MATIC – the further development of FLOW.CONTROL.

FLOW.MATIC builds on the proven FLOW.CONTROL technology. The temperature and with it the melt flow is directly controlled in the die by heating or cooling. The FLOW.MATIC then measures the filling level of the individual profile sections and, together with the FLOW.CONTROL die function, creates a fully automatic regulating circuit. The reaction becomes apparent within a few seconds. Uniform profile dimensions are the result, even when process fluctuations occur and between quality control cycles – without any manual intervention. The settings can be reproduced at any time.

- Your benefits:**
- fully automatic control of the profile sections
  - production close to the lowest profile weight tolerance
  - precise profile sections without manual intervention
  - guaranteed reproducibility
  - balancing of material fluctuations

## 2 Calibration

Calibration: with integrated FLOW.MATIC sensor system and central connection

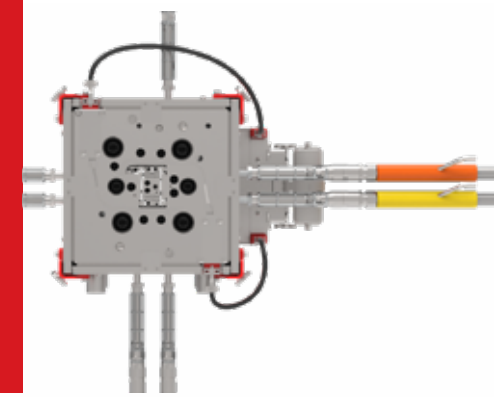


## 3 Operator unit

Operator unit: for FLOW.CONTROL and FLOW.MATIC

1 Die

Die: with integrated FLOW.CONTROL function

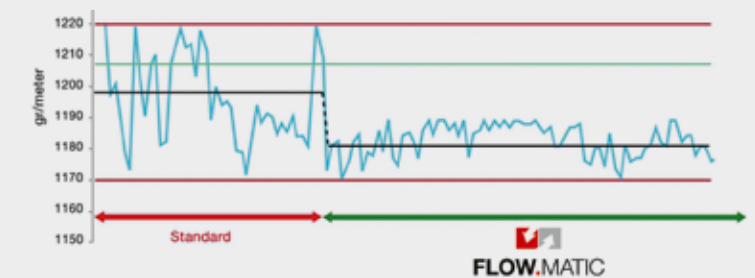


FLOW.MATIC

3

PRODUCTION CLOSE TO THE LOWEST PROFILE WEIGHT TOLERANCE

## Constant profile parameters with FLOW.MATIC



Cost-effectiveness through material savings and lower scrap rate \*)

FLOW.CONTROL: ~ €27,000 p. a.  
FLOW.MATIC: ~ €48,000 p. a. (Higher material savings and lower personnel costs)

\*) Window frame example: 1.2 kg/m, 5000 h/a production time, 1.2 €/kg material costs, 350 kg/h output