GÜNTHER®
HOT RUNNER TECHNOLOGY

blueMaster
pro

CONTROL TECHNOLOGY | SMART CONTROL. SYSTEMATIC.
blueMaster

The future of smart control

High-performance control technology maximizes productivity and production quality in GÜNTHER premium hot runner systems. This is because self-optimizing temperature control has a favorable effect on part quality and energy efficiency.

With not one but two innovative control units, GÜNTHER Hot Runner Technology takes temperature control to a new level: the blueMaster compact and the blueMaster pro boast optimum control characteristics, extensive connectivity and smart operation. With these two premium controllers, GÜNTHER Hot Runner Technology opens up new possibilities for users in preparation for Industry 4.0.

1 The blueMaster compact is controlled using an app on the user's phone.

2 This means the control unit can be positioned where required on the injection moulding machine.

blueMaster compact

The smart controller for sluggish and agile hot runner systems.

The compact controller for three or six control zones is designed as a control unit for smaller applications or for use in the servicing sector. Its automatic optimization of temperature control, its simple, user-friendly operation on an app and its attractive price make it an ideal starter unit.

The blueMaster compact offers the key advantages of the new GÜNTHER device generation.

Smart characteristics

The blueMaster compact is operated with an app and automatically optimizes control in the background. The innovative device thus adapts its control behavior to the connected load without user intervention. As a result, there is no need to adjust PID parameters. Even the smallest loads are controlled with high precision.

Four operating modes are available to users for each zone – adjust, control, master mode, and monitor. The blueMaster compact has a heating function and a temperature display that helps to interpret data more easily.

The load fuses can be accessed from the outside – there is no need to open the housing.

Thanks to the specially developed app, the blueMaster compact delivers a level of operating convenience that you otherwise only expect on your smartphone. The app guides you through the initial steps and assists you with the context help wizard when setting up your application.

Smart control on an app

Available for both iOS and Android, the blueMaster app provides convenient control of the hot runner controller. Contemporary menu navigation and temperature display feature among its benefits as does a semi-automatic tutorial with step-by-step instructions. Three different, password-secured user levels protect against accidental operating errors. Integrated language management ensures the app can be used in multiple languages.

Smart advantages at a glance

+   Mobile handset network connection possible

+   Consistently state-of-the-art thanks to regular updates*

+   Data export of measurement data and progress graphs*

+   A mobile handset to manage several controllers

+   An existing mobile handset can be used

+   Wireless charge module integrated for mobile handset

Three smart variants

The blueMaster compact is offered in three variants:

■ Standard version includes smartphone with installed app
■ With added theft protection: as standard, the smartphone is also encased in a protective sleeve that is permanently screwed to the device.
■ Without smartphone: as standard, but only includes the control unit

* Smartphone must be connected to the Internet.

The premium controller
for 24(+) control zones

The blueMaster pro premium controller with built-in
7 inch display is also able to operate complex hot
runner applications. A wide range of graphical user
interfaces allows users to select the interface they
consider optimal for their specific application. Users
can operate controls directly on the unit or in a browser
from wherever they happen to be.

The blueMaster pro is offered in four variants to provide reliable control of complex hot runner systems.
The variants are suitable for between six and 24 control circuits.

Smart benefit

The blueMaster pro can be controlled directly on the unit or in a browser. It can also be operated via a control console. The system is connected to the network via Ethernet or wireless LAN, so the injection moulding machine can be set up anywhere.

An assistance wizard not only helps to install new moulds; it also provides group management of systems with multi-component applications or systems with a high number of drops, for example. This means nozzles of the same size and type can be grouped together logically. A mould database and convenient user administration are integrated into the premium controller as standard.

OPC UA based on Euromap 82.2

Networked temperature control thanks to standardized data interface. The blueMaster pro supports OPC UA based on Euromap 82.2*, which is compatible with all common injection moulding machines. The controller can also be operated on the injection moulding machine control panel. This process goes far beyond a conventional smart control service and is the key basis for further development in preparation for Industry 4.0.

* Euromap 82.2 defines the interface for data exchange between injection moulding machines and hot runner regulators. It is based on the OPC Unified Architecture interface (OPC UA), a communication standard for secure, reliable data exchange in industrial automation.

The blueMaster pro features an assistant to set up new moulds.

Smart capabilities at a glance

+ Hot runner diagnosis
+ Heat-up function
+ Self-optimizing control
+ Highly precise control, even for tiny loads
+ Measurement data upload to the cloud
+ Full user account control with passwords and assignment of rights
+ Mould database
+ Display of temperatures as curve on graph for simplified interpretation
+ Help available in plain text directly on unit
+ Load fuses can be accessed from outside
+ Robust metal casing
+ Reduction function protects material from thermal damage

Our service for you

- Consultation to select the right unit for your application
- Demonstration on site by Technical Sales
- Assistance on site during commissioning

- Rapid remote assistance (via i4.0 Portal or app on mobile handset)
- Unit provided on loan in the event of repair
- Rental service for short projects

Benefit from the technical advantages of the blueMaster control technology:

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