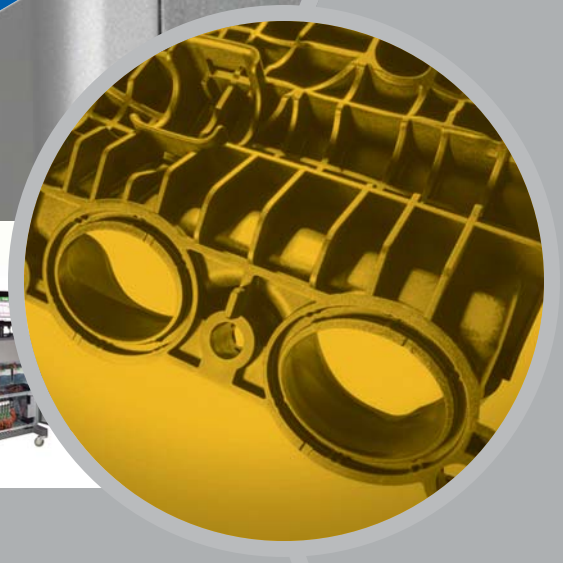


MONITOR & CONTROL

INTEGRATED CONTROL TECHNOLOGIES FOR OPTIMAL MOLDING

ELEVATE YOUR MOLDING PROCESS

Gammaflux®
A business of BARNES GROUP INC

PRIAMUS
A business of BARNES GROUP INC

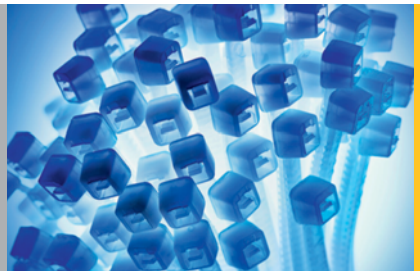
GAMMAFLUX CONTROLS INC. IS THE WORLD'S LEADING SUPPLIER OF TEMPERATURE AND SEQUENTIAL VALVE GATE CONTROL SYSTEMS TO THE PLASTICS INDUSTRY. An expert in process optimization, Gammaflux partners with plastics parts manufacturers to help them achieve higher quality, efficiency, and profitability.

Known as a pioneer in temperature control technology, Gammaflux developed the first products to anticipate temperature changes, sense wiring and heater problems, and react instantly to avoid serious mold damage.

All Gammaflux temperature controllers come with a full 5-year warranty and are backed by the industry-leading worldwide service and support.

WHY CHOOSE GAMMAFLUX

- Easier to Use
- Less Expensive
- Smaller
- Faster
- More Flexible
- Improved Interlocks
- Mold Doctor®
- Early Leak Detection
- 5 Year Warranty*
- All products OPC UA compatible



Gammaflux®
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GAMMAFLUX SYSTEMS ARE KNOWN FOR THEIR EASE OF USE, FLEXIBILITY, EXCELLENT TROUBLESHOOTING TOOLS AND GREAT PERFORMANCE.

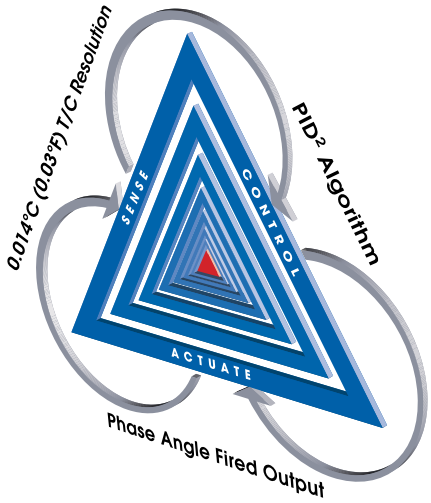
OUR PRODUCT LINE INCLUDES:

Temperature Controllers
G24 - for 18 to 480 zones of temperature control
LEC - for up to 24 zones of temperature control

Sequential Valve Gate Temperature Controllers
G24-SVGC - for integrated temperature or stand-alone sequential valve gate control applications

Benefits that can be realized from improving temperature control on your application include:
- Enhanced part quality
- Reduced scrap
- Improved part weight consistency
- Material savings
- Higher profit margins

All Gammaflux Systems feature the unique Triangulated Control Technology® that allows controllers to sense, control and actuate up to 20 times per second to achieve better temperature control.



EASY TO USE, EFFECTIVE AND VERSATILE CONTROL SYSTEMS
FROM PRIAMUS AND GAMMAFLUX

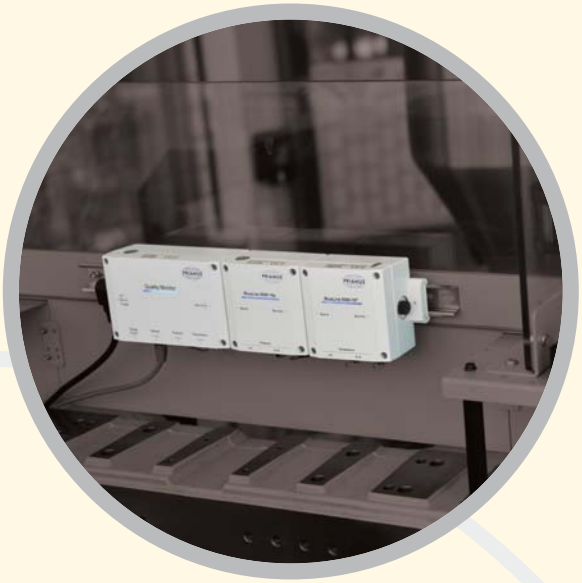
ELEVATE YOUR MOLDING PROCESS

Molding Solutions is a leader in the latest technologies for Industry 4.0 within the Injection Molding Industry. The integrated products from Gammaflux and Priamus are all OPC UA compatible.

PRIAMUS QUALITY MONITOR™

Process Monitor Designed for Networked Production, without Additional PC

- Good/bad part separation
- Monitoring on envelope curve and quality parameters
- Viscosity monitoring
- Automatic switchover to holding pressure by melt front detection
- Automatic fault detection by use of Flow-Hold-Cool concept
- Easy to use with intuitive software



PRIAMUS IS A LEADING SUPPLIER OF MEASURING AND CONTROL EQUIPMENT IN THE INJECTION MOLDING INDUSTRY.

Sensors:

- Fastest cavity temperature sensors in the industry
- Prisolaris cavity temperature sensors for detecting the melt front through the steel without contact to the plastic part
- All cavity pressure sensors are piezoelectric
- Patented technology for automatic sensor sensitivity reading
- Quick disconnect connection technology available for cavity temperature and pressure sensors
- Cavity pressure sensors with 90 degrees angled connectors available
- Quick disconnects with floating inserts available

BlueLine:

- Fully digital Varan bus system
- Fully modular system for connecting additional amplifiers and I/O modules to the system
- All connecting cables for temperature and pressure are shape and color coded
- All cables with connectors – no open wires – plug and play

Interfaces:

- Interfaces available for most major injection molding machine and hot runner controller manufacturers
- OPC UA client for all data and alarm messages included

Fillcontrol – The Modular Concept:

FreeViewer
Process visualization, analysis and statistics of existing data

Monitor
Data
– acquisition
– storage
– compression

Process visualization and monitoring

Individual alarm signals

Real time switchover signals to holding pressure

Switch
Real time switch signals for:
– rotary table
– core pull
– sequential molding (open loop)
– special applications

Control H
Hot runner balancing

Balancing with fixed balance times

Controlling weld line positions

Balancing of multi components molds, including cube molds

Control V
Automatic valve gate control

Balancing and controlling of the melt front

Suited for LSR cold runners

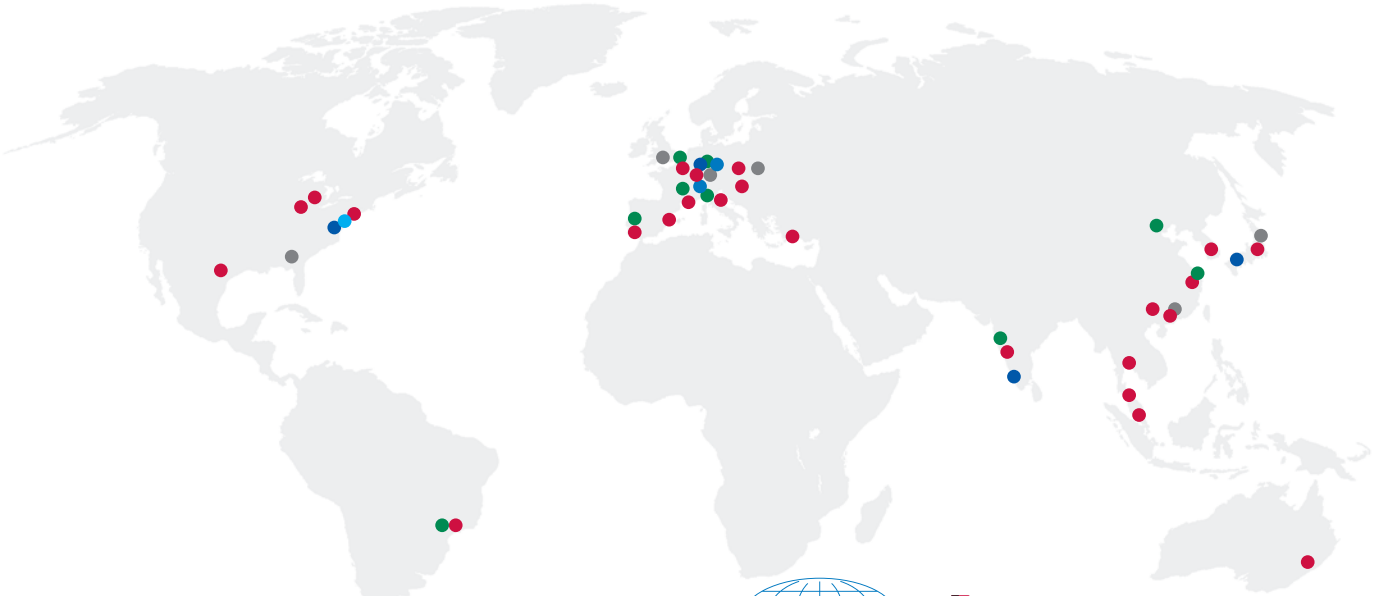
Balancing of family molds

Control P
(hot and cold runner)

Process control by automatic adaption of the injection speed and holding pressure of the IMM

MOLDING SOLUTIONS WORLDWIDE
WORKING TOGETHER TO BRING MOLDING TO THE NEXT LEVEL

Molding Solutions, a business unit of Barnes Group Inc, provides high quality hot runners, molds and control systems to meet the increasing demands of the global injection molding industry.



FOBOHA · Gammaflux · männer SOLUTIONS FOR PLASTICS · PRIAMUS · Synventive molding solutions · THERMOPLAY HotRunnerSystems

GAMMAFLUX
HEADQUARTERED IN STERLING, VA
LOCATIONS IN
– WIESBADEN, GERMANY
– UBE, JAPAN
– KOCHI, INDIA
– SUZHOU, CHINA

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