

MOOG

4 Channel 400 Point Modular Parison Controller



HALF OF A CENTURY OF EXCELLENCE IN MOTION CONTROL

Moog control systems have been fitted by blow moulding machine manufacturers worldwide, and also as retrofit equipment by many thousands of end users. The system is user configurable for accumulator head and continuous extrusion machines running single or multiple parisons. In addition to features you have come to expect from the most established leader in this field, you will find that this new system includes advanced features like automatic calibration, alarm log, selectable interpolation methods and many more. This is the most advanced parison programmer on the market, and gives unsurpassed precise parison wall thickness control for optimising material usage and uniform distribution.

SYSTEM OVERVIEW

User Interface

- TFT color LCD, 640x480 pixel
- Rotary control knob for a rapid and accurate set-up of functions
- Limited number of keys for an easy navigation
- LEDs to monitor the main states of the machine
- Scalable structure of screen maps to optimize each map upon machine configuration (e.g. number of channels, closed-loop/open-loop, etc.)
- 3 access levels for data protection
- Removable memory for recipes (calibration and process data)

System Architecture

- Logos IEC61131-3 standard programming system for Windows, ST language based on the Moog Plastic Controller, 400 Series.
- Modular structure (e.g. Fieldbus connectivity, Blow Pin management, etc.) for additional expansion modules.

BENEFITS

With 30 years experience designing and building many successful parison programmers and total machine control, (TMC, analog 25 point, digital Bloc 64, DigiPack) Moog has now developed a more advanced software platform in the new 4 Channel 400 Point Modular Parison Controller. This product enables machine manufacturers to control multiple heads and more points, with less material consumption and reduced scrap. In addition to the already known features of Moog's proven Parison Controllers, the 4 Channel 400 Point Modular Parison Controller offers the following benefits:

- Simple to install and easy to use for any operator
- Fully-featured menu
- Next generation equipment with TFT color LCD for an easy data type identification
- Multilanguage support (Asian and European languages)
- Independent channels
- From 10 point up to 400 point parison profile
- Customizable software and hardware architectures
- Ability to easily add open-loop control for hydraulic and electric blow pin velocity and positioning, and temperature, due to modularity of controller

FEATURES

- 4 independent channels for:

Head Parison Control (from 1 up to 4)

- Parison profile programmable from 10 to 400 points
- One single profile for all heads or independent profile
- 5 interpolation modes (even in the same profile)
- Up to 400 analog and digital markers (from 1 to 400)
- Open-loop or closed-loop manual and automatic calibration
- Handling of standard actuators and servoactuators with integrated electronics (hydraulic and electric)
- Different molds on the same head can be used in successive turns (alternate parison mode)
- Graphic feedback profile
- 2 independent starts for special machines
- Fixed or self-adjustable parison cycle time

Position Base Accumulator Heads

- Accumulator profile programmable from 10 to 400 points, selectable via software
- Open-loop and velocity closed-loop pushout control (in velocity closed-loop pushout mode you can set the pushout time).

Extruder Control

- Digital or analog extruder velocity control
- Parison length control can be used for continuous extrusion machines and accumulator position base.



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FUNCTIONALITY

- Users input data (numeric, profile, navigation) by rotary control knob for ease of operation
- Removable memory for recipes management
- LEDs indicating the configuration and the status of the machine
- Keys for direct command of purge, tooling



MAIN MENU PAGE

- User-friendly main menu
- Password level management



HEAD OPERATION PAGE

Editor for parison axis that shows these profiles:

- Working
- Editing
- Feedback
- Manages Synchronism
- Manages analog and digital markers
- Shows the working current point
- It allows inserting master and interpolation without limitations
- Handles purges and tooling commands



HEAD SETUP PAGE

Easy calibration, with the ability to select:

- Manual calibration in open-loop
- Manual calibration in closed-loop
- Automatic calibration in closed-loop

Easy head selection

Profile length correction

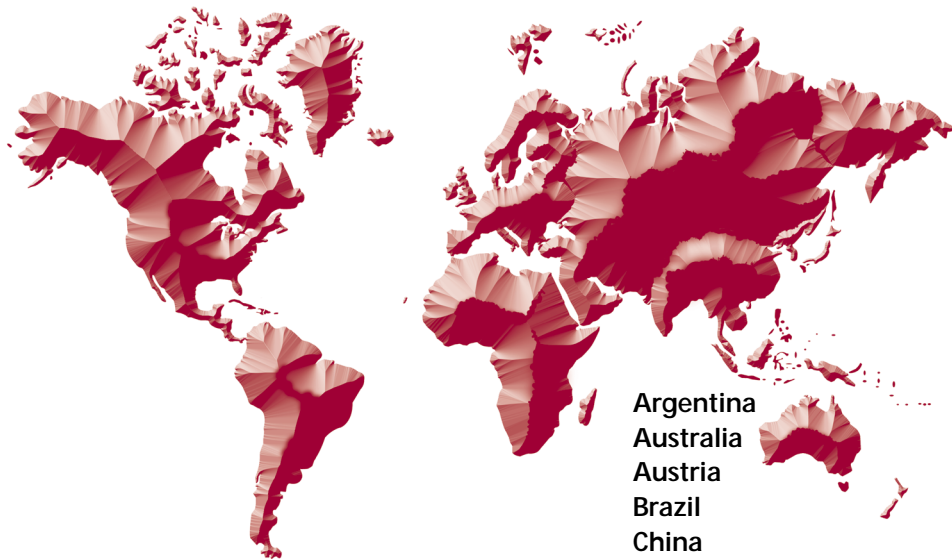
Choice of different actuators:

- Hydraulic/Electro-mechanical
- With or without feedback



INPUT/OUTPUT PAGE

Real time diagnostic of all digital and analogic I/O



**Argentina
Australia
Austria
Brazil
China
Finland
France
Germany
India
Ireland**



**Italy
Japan
Korea
Luxembourg
Norway
Russia
Singapore
South Africa
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Sweden
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MOOG

Via Quinzano 23/A-25020 Flero (BS) - Italy
Telephone: (+39) 030 2729.611
Fax: (+39) 030 2681.890
For the location nearest to you, contact
www.moog.com/worldwide

4 CHANNEL 400 POINT MODULAR PARISON CONTROLLER
CAS-024 EN 0905