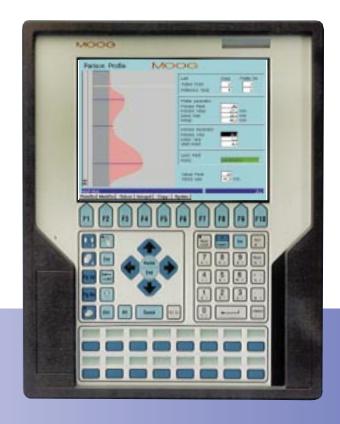


BM 400 SeriesBlow Molding Machine Controllers



PC-based MMI

- Based on standard PC components
- Microsoft Windows NT operating system
- Ability to run any Windows-compatible software package
- High resolution TFT-display
- Alpha-numerical keyboard
- Cursor keys
- 10 function keys
- 16 user-definable push-buttons
- Built-in network connection
- Connectors for external, optional devices: Mouse Parallel Printer Standard PC Keyboard CD-ROM drive
- Front-panel conforms to IP54



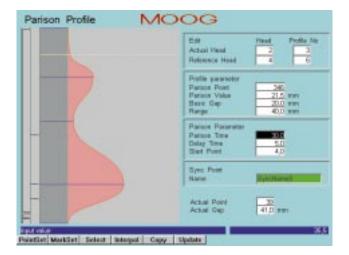
m 400 Modular Machine Controller

- Back Plane mounted modules
- Full range of modules:
 CPU modules
 Digital input modules
 Digital output modules
 Temperature control modules
 Analog input modules
 Analog output modules
 Control modules for B/W
 or color local displays
 Intelligent analog I/O modules
 (With imbedded CPU
 for precision closed loop)
- Dynamic addressing of modules
- Multi-processor structure

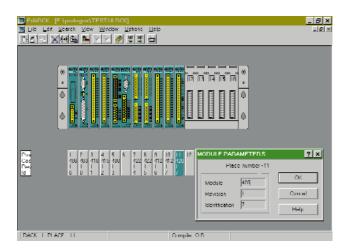


Application Software

Advanced Machine Control Features







Typical window for module configuration.

Typical window for ladder diagram editor.

Advanced Parison control functionality

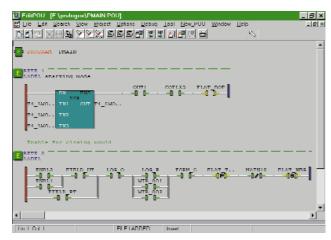
- Vertical profile display
- Independent profiles / Multi-head profile / Axial-Radial wall thickness control (PWDS)
- Wall thickness profile up to 400 points
- Up to 10 digital outputs to synchronize external events with parison profile
- Up to 10 analog markers and 1 digital output serial marker to aid profile set-up
- Programs for continuous-extrusion as well as for accumulator-head machines.
- Step, line or curvilinear interpolation, selectable between master points
- Correction programs for parison length, container weight and accumulator fill rate

Advanced Motion control functionality

- 10 step profile for position, velocity or pressure closed loop control
- Digital loop closure
- Up to 8 digital outputs to synchronize external events with motion

IEC1131-3 compliant development tool:

- Allows full flexibility for customization
- Ladder Diagram, Instruction List, Structured Text for easy machine sequence programming
- Modular operating system in real multitasking mode
- Quick & easy hardware configuration with Rack Editor
- Graphical display editor for customization of operator screens
- Multi-language text editor



Custom Terminals

Custom-built terminals provide the ideal layout of keyboard, controls and display for the specific application





Standard Intelligent Terminals



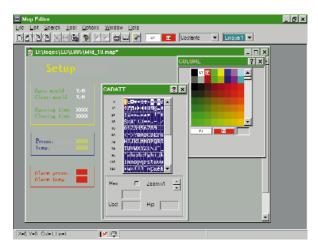
TVGA Graphic 640x480 color LCD



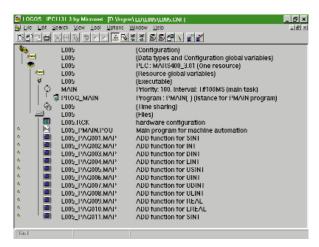
t256 Graphic 240x128 B/W LCD



t128 Graphic 240x64 B/W LCD



Typical window for screen pages with possibility to use different fonts.



Typical window for configuration file in graphic mode.



A Total Solution Supplier For Blow Molding Machines Control

30 years as systems supplier to the plastic blow molding market have made Moog the market leader and a trustworthy partner to the plastic processing industry. Moog, the worldwide leader in motion control solutions, has applied its know-how to the blow molding market, offering the best solution to all control func-

tions. Critical to satisfying the need for constant improvements in molded part quality, is the use of closed loop controls with high resolution interface, high speed PC's and high performance control technology. Along with this we deliver controls with user-friendly operators interface and fast and simple set-up, therefore you can just....

Set and go with Moog know how

Valves and Actuators



Servo Valve D631 HR Series



Proportional Control Valve D662 - Fail Safe Series



Proportional Control Valves D634 and D633 Series



Servo Hydraulic Actuators





Australia Mulgrave
Brazil São Paulo
China Hong Kong
Shanghai
Denmark Cöpenhagen
England Tewkesbury

Finland Espoo France Rungis



Germany Böblingen Hong Kong Hong Kong India Bangalore Ireland Ringaskiddy Italy Malnate Japan Hiratsuka Seoul Korea Philippines Baguio Singapore Singapore Spain Orio

Sweden Gothenborg USA East Aurora



Industrial Controls Division

Moog Inc., East Aurora, NY 14052-0018 Telephone: 716/655-3000 Fax: 716/655-1803

Toll Free: 1-800-272-MOOG