

## Efficient Production Runs, Improved Product Quality

The MAX Extrusion Control System provides integrated line control for all extrusion applications, including pipe, profile, tubing, sheet, reclaim, compounding, fiber, and film. R&B engineers design the MAX Control Systems to your specifications, including end-users' process requirements and preferred supplier hardware.

HMI can range from standard CE-based four-color touch panel to an industrial-strength PC running Windows SCADA software packages (GE IFix, Wonderware, Citect). These robust systems are built to withstand factory environment: High temperatures, dust, humidity, vibration, and other plant conditions.

The MAX Control System can be retrofitted for ALL makes and models of extruders. It also can be provided with R&B's MAX Extruder product line. Features include:

- PLC-based extrusion control system utilizing off-the-shelf components
- Utilizes all major platforms from automation manufacturers: Allen Bradley, Siemens, Barber-Colman, Beckhoff, Vario, BR, and more.
- HMI, PLC, and PC, can be used to control all required line functions, plus provide an interface to all process-related ancillary equipment.
- MAX controls systems provide alarm annunciation, historical trending, unlimited recipe storage, reporting, and multi-level security access.
- Easy-to-use controls come in English or optional Spanish language. The MAX system monitors or controls all temperatures, speeds, amperages, and pressures of the extrusion system, including all downstream and upstream equipment.
- All R&B systems have full industry-standard Ethernet/IP capabilities or Profibus field bus protocols for complete, integrated line control. This seamless integration of upstream and downstream equipment-data monitoring makes quality control and process analysis far more efficient with data requirements clearly identified.
- The MAX system provides real-time run data, allowing for operator line control and supervisory access to all production/process parameters. Time and date-stamped data records all line functions for shift reports, daily/weekly analysis and more.

## MAX Controls: Less Down-time and More Output

- Tailored to your needs: Each MAX control system is custom engineered and designed to your extrusion line requirements.
- All MAX products come with 24/7 service/support, user manuals, start-up service, and operator training.
- Measurable savings: Use the MAX Control system to cut costs on materials, energy, and production time.





## Custom-designed Operator Screens

The MAX controls system utilizes a large, HMI touch screen display. This **makes** controls function as clear as possible. A 17" operator screen utilizes straight-forward color graphics with customized drawings and easy-to-read touch screen buttons. Pictures represent actual equipment layouts. Operator control is simplified and allows for easy review and modification of process parameters. **Data point changes can be made "on the fly."** Line-function changes can be password protected, available only to supervisors or management personnel. MAX controls are adaptable to all makes and models of extruders.

## Robust • Adaptable • Easy to Use

R&B Plastics Machinery is an industry leader in manufacturing high-production, advanced technology extrusion systems for all applications.



Operators find R&B extrusion line functions are clearly identified with push-button controls and color touchscreens.

R&B's MAX Extrusion Controls Systems make integrated line control easy-to-use. Systems pay for themselves with cost savings in material, production time, and energy. The system can be retrofitted for all makes and models of extruders.

## Building partnerships with customers

For more information on the MAX extrusion controls system or **retrofit/modernization** of existing equipment, contact the Sales Dept. at 734-429-9421. E-mail project requirements to [sales@rbplasticsmachinery.com](mailto:sales@rbplasticsmachinery.com).

### The MAX Extrusion Control can be provided with a Supervisory Controls System:

MAX Extrusion Controls can provide integrated line control for all major extrusion functions including extrusion control and all downstream equipment. Ask for details.

Sample Co-Extruder screen used in blow molding containers on a high-speed container line. Note complexity of multi-stage operation including upstream and downstream equipment plus trimming equipment.

