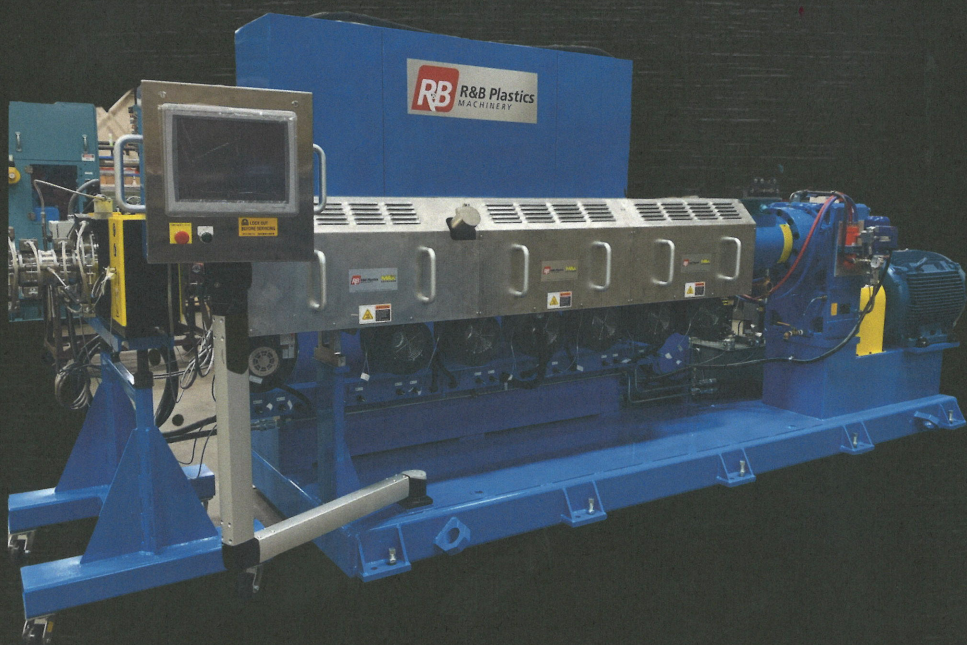




R&B Plastics
MACHINERY LLC

R&B MAX Extruder Series



**3.5" MAX Air Cooled
Extruder**

R&B 3.5" MAX Air Cooled Extruder Specifications

Extruder Base

- Stress relieved steel and precision-machined base assembly
- Centerline height – 50" Non-Adjustable Centerline Height

Gear Reducer rated for high performance, low noise and excellent efficiency

- Helical gear reducer w/internal forced lubrication
- Cast Iron box casing made to grade 25 standards
- Ground helical gears produced from 18NiCrMo5 steel and made to AGMA 10 Standards
- Quill design: Standard
- Fixed ratio with belt and pulley drive timed for 125RPM MAX screw speed
- 1.50 or greater safety factor

Motor

- 125 HP AC Motor, 1750 RPM, open drip proof with blower or fan
- Direct Drive to motor

Hopper and Material Magnet

- Bunting magnet and clean out
- Stainless-steel hopper

Feed Section

- Rectangular opening
- Internal water cooled jacket
- Removable Liner
- E-Stop button (for enhanced operator safety)

Extrusion Screw

- Two-Stage, 3-1/2" 32:1 L/D R&B Max Impact
- Extrusion Screw **MAX IMPACT**
- Colmonoy 57 flight lands
- Chrome plated (.001" thick)
- EvolutionTM Mixer
- Cored for cooling thru feed section
- Screw cooling assembly: pipe, rotary union, flow sight, water temperate gauge, and plumbing

Barrel, Vented

- X102 (or equivalent) bimetallic lined barrel
- Rupture disc mounted in barrel flange
- Breaker plate
- Separate Melt Temp. and Pressure Transducer (Gefran)
- Vent stack assembly

Barrel Temperature Control

- Seven electrically heated, cast aluminum, finned heaters
- High speed blowers for individual zone temperature control
- Stainless-steel barrel guards, for operator protection
- Dual thermocouples per barrel zone

Nordson Model HPU-15 Hydraulic Power Unit for Screen Changer

- 10 Gallon reservoir with 1.5 Gallon nitrogen accumulator
- Mounted to extrusion base with hard lines to front of base

Interlock with screen changer controls Base Mounted Air Condition Cooled Control Panel Designed for Easy Access to Include

- Front panel door access, safety interlocked, and air condition cooling unit
- HMI Enclosure Mounted to end of Cabinet
- Wired for 460V/3Ph/60Hz power connection to panel with main circuit
- Allen Bradley 125 HP AC Drive control with 0.5% speed regulation with line Reactor

R&B MAX Extrusion Control System to Include

- Compact Logix Platform with open architecture software for complete control of R&B MAX Extruder
- 15" HMI operator control station
- (7) Barrel heat/cool temperature zones (480V)
- (10) Die/Adapters/Screen Changer heat only temperature zones (230V)
- Individual solid-state contactors and breakers for all temperature zones
- Pressure monitoring indicator with self-tuning feature
- Melt temperature monitoring display
- Drive motor control and motor load monitoring display
- Screw RPM display
- Motor Load and Melt Pressure
- Basic Trending and Data Logger
- Ewon for remote access
- Recipes
- Cold start interlock
- Alarm annunciation and event logging
- Secured access levels
- Transformer for 230v equipment