The MAX Extruder Product line includes single-screw extruders ranging from 3/4” to 10” barrel diameter. R&B Plastics can design machines to meet your product applications and line specifications, including complete tooling specifications.

- Made in USA with high-quality standards and 32+ years of superior performance
- Useful for diverse applications in Pipe, Profile, Tubing, Sheet, Reclaim, Compounding, Fiber, and Film
- Smooth bore and grooved-feed technology
- Non-Vented and vented designs in all L/D ratios
- Standard 460V with all other power requirements available
- Customized extruder designs available for special processing needs
- Service/Support: 18-field service professionals with over 300-years collective experience

**Mechanical Advantages:**

- Extruder base precision-machined at component mounting surfaces for durability
  - Stress-relieved steel
  - Convenient mounting pads
- Hinged motor mount-support for easy belt tension
  - Direct coupled motor mounting available
- Zambello gear box with cast-iron housing
  - Double-Reduction and Triple-Reduction available to fit your application
  - Helical gears ground to AGMA 10
  - 1.50:1 (Std) Safety factor with higher safety factors available
  - Thrust-bearing assembly sized for HIGH B10 life
- Cast-iron feed section
  - Replaceable feed-section made from wear-resistant steel
  - Water-cooled internal flow
  - Grooved-feed designs also available
- Bimetallic-lined barrel
  - X102 (Std) Liner, X800 (High Wear) liner, and Inconel butt-welded X800 (High corrosive resistance)
  - Non-Vented and Vented designs in all L/D ratios
- Screw Design Technology
  - General purpose and barrier-screw designs with a myriad of mixers that meet your processing needs
  - Supports all types of wear-resistant materials from Colmonoy 56 to specialty coatings for highly abrasive applications
- Barrel Temperature Control
  - Air-cooled, cast aluminum finned heaters with integral shrouds
  - High-velocity blowers for individual zone temperature control
  - Water-cooling temperature control systems available
- Single-bolt heated clamp and bolt style available
  - Hinged die-head support available

www.rbplasticsmachinery.com
Specifications:

<table>
<thead>
<tr>
<th>Extruder Size</th>
<th>2 Inch (50 mm)</th>
<th>2 1/2 inch (65 mm)</th>
<th>3 Inch (75 mm)</th>
<th>3 1/2 inch (90 mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>L/D Ratio</td>
<td>24:1 30:1</td>
<td>24:1 30:1</td>
<td>24:1 30:1</td>
<td>24:1 30:1</td>
</tr>
<tr>
<td>Reduction Ratio</td>
<td>17.56:1</td>
<td>17.26:1</td>
<td>17.26:1</td>
<td>17.39:1</td>
</tr>
<tr>
<td>AGMA hp Rating@ 100RPM @ 1.25 S.F.</td>
<td>51</td>
<td>128</td>
<td>176</td>
<td>228</td>
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<tr>
<td>Thrust Bearing</td>
<td>216,000</td>
<td>150,000</td>
<td>411,000</td>
<td>225,000</td>
</tr>
<tr>
<td>Lif@ 100 RPM</td>
<td>5000 PSI Cont. Operation</td>
<td>10,000</td>
<td>10,000</td>
<td>10,000</td>
</tr>
<tr>
<td>Max Internal Barrel Pressure (PSI)</td>
<td>10,000</td>
<td>10,000</td>
<td>10,000</td>
<td>10,000</td>
</tr>
</tbody>
</table>

Above are estimates and actual values may vary due to extruder designs.

Electrical Advantages:
- PLC, PC, or Discrete control systems available for simple extruder control to complex line control – Allen-Bradley, Siemens, Danaher VARIO, West, Eurotherm
- R&B Max Supervisory SCADA System available
- NEMA-12 enclosure; NEC & NFPA 79 compliant; usable Short Circuit Current Rating; high speed fuse protection for Solid State Relays; On/Off Selector at die plug plate offers operator protection; only standard readily available parts are used
- Digital melt temperature, melt pressure, and screw speed readouts
- Marathon NEMA frame motor standard

See our fully equipped manufacturing plant (19’ crane height) with machine-building in progress, including “before and after” comparisons of retrofitted extruders.

MAX Extruders designed and built in Saline, Michigan, USA – 50 minutes west of Detroit, 30 minutes from DTW Airport. Corporate rate available at nearby hotels, contact us for details.

Complete rebuilding/modernization capabilities available for all extruder makes and models.

Call R&B Plastics Machinery to learn how the MAX extruder will boost capacity at your facility: 734-429-9421, or FAX: 734-429-1805.