### GENERAL PELLET MILL DIMENSIONS

<table>
<thead>
<tr>
<th>Model</th>
<th>Motor Shaft Speed</th>
<th>Total Drive Power</th>
<th>Number of Rolls</th>
<th>Roll Diameter</th>
<th>Roll Area</th>
<th>Track Speed</th>
<th>Die Speed</th>
<th>Die Area</th>
<th>Die Speed</th>
<th>Glasses Around</th>
<th>Track Speed</th>
<th>Roll Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>B-35A-105</td>
<td>1200/1800 RPM</td>
<td>250-300 HP</td>
<td>3</td>
<td>17-13/16&quot;</td>
<td>523 SQ. IN.</td>
<td>943 FPM</td>
<td>105/108</td>
<td>607 SQ. IN.</td>
<td>120/132 RPM</td>
<td>8-1/8&quot;</td>
<td>943/1,035 FPM</td>
<td>200/250 HP</td>
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<tr>
<td>B-60A-130</td>
<td>1800 RPM</td>
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<td>21-13/16&quot;</td>
<td>752 SQ. IN.</td>
<td>943/1,035 FPM</td>
<td>132/163 RPM</td>
<td>345 SQ. IN.</td>
<td>984/1,200 FPM</td>
<td>3</td>
<td>943/1,036 FPM</td>
<td>200/250 HP</td>
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<tr>
<td>B-200B-175</td>
<td>1200 RPM</td>
<td>250-300 HP</td>
<td>3</td>
<td>30&quot;</td>
<td>254 SQ. IN.</td>
<td>1,035 FPM</td>
<td>109/132 RPM</td>
<td>554 SQ. IN.</td>
<td>108/132 RPM</td>
<td>9-3/4&quot;</td>
<td>943/1,036 FPM</td>
<td>200/250 HP</td>
</tr>
<tr>
<td>B-150A-250</td>
<td>1800 RPM</td>
<td>300 HP</td>
<td>3</td>
<td>30&quot;</td>
<td>254 SQ. IN.</td>
<td>943/1,036 FPM</td>
<td>132/163 RPM</td>
<td>345 SQ. IN.</td>
<td>984/1,200 FPM</td>
<td>3</td>
<td>943/1,036 FPM</td>
<td>200/250 HP</td>
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<tr>
<td>B-200B-280</td>
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<td>250-300 HP</td>
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<td>1,035 FPM</td>
<td>109/132 RPM</td>
<td>554 SQ. IN.</td>
<td>108/132 RPM</td>
<td>9-3/4&quot;</td>
<td>943/1,036 FPM</td>
<td>200/250 HP</td>
</tr>
</tbody>
</table>

- Dimensions shown are in inches.
Developed from a design concept proven worldwide since its introduction in 1975, the range of Pioneer Pellet Mills continues to expand. Design features such as overall reliability, maximum efficiency, ease of operation and maintenance combine to provide lower operating costs to each owner. With the ability to provide a wide range of die sizes, die speeds and drive power, Bliss can more than meet your requirements for high quality at a reasonable cost.

**PELLETING CHAMBER**

The stainless steel pelleting chamber door can be hinged to the left or right, as your needs require. Easily adjusted, calibrated knives are fitted to the door for control over pellet length. Safety switches are integrated into the design to protect the operator from opening the door while the machine is in operation.

**BY-PASS CHUTE**

To prevent blockages of the die and to avoid an overload on the main drive, a by-pass chute is standard equipment. Fitted with a manual or an electrically controlled air cylinder, virtually all overloads and blockages can be eliminated.

**ROLL ADJUSTMENT SYSTEM**

Ease of manual roll adjustment is an essential feature of all Pioneer Pellet Mills. Quick-release rolls for ease of clearing plugs from pelleting chamber.

**DIES**

Pioneer Pellet Mills use easily reversible dies, promoting uniform wear on the die track, resulting in longer working life.

**ALTERNATE DOOR**

An alternate door is provided for quick access to the pelleting chamber.
The stainless steel pelleting chamber door can be hinged to the left or right, as your needs require. Easily adjusted, calibrated knives are fitted to the door for control over pellet length. Safety switches are integrated into the design to protect the operator from opening the door while the machine is in operation.

**PELLET MILL**

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Pioneer Pellet Mills use easily reversible dies, promoting uniform wear on the die track, resulting in longer working life.

**DIES**

An alternate door is provided for quick access to the pelleting chamber.

**ALTERNATE DOOR**

The balance and consistency of the Bliss pelleting chamber produces "even striations" throughout the body of the pellet. The result is uniform wear within the pelleting chamber and a higher quality finished product.

**FEED CONE SYSTEM**

The patented two-stage drive system forms the basis for ideal transmission ratios. The combination of resilient V-belts with a high torque cog belt reduces the noise level, allows the use of standard electric motors and permits the selection of a range of die speeds.

**TWO-STAGE TWIN DRIVE**

Motors mounted above the robust, fabricated steel body produce a space saving design.

**SPACE SAVING DESIGN**

An integral hoist permits the easy handling of dies, rolls, front plate and rotary feed cone.

**DIE HOIST**

The die and roller assembly is protected by a hydraulic or mechanical overload system which stops the main motors when an overload situation occurs. Re-setting is quick and easy.

**OVERLOAD PROTECTION**

As an option, an automatic lubrication system may be installed to ensure that roller and main shaft bearings receive proper lubrication at all times during operation of the pellet mill.

**AUTOMATIC LUBRICATION**

Shock-absorbing belts form the first stage of the Pioneer drive transmission with a hydraulic or mechanical system constantly maintaining the correct tension. With this method, slippage is eliminated and the belts have a longer operational life.

**BELT DRIVE TRANSMISSION**

Nothing is more important to your business than long term performance. All interior components of a Bliss Pellet Mill are selected for superior performance and wear. The result is maximum up-time that increases revenue and diminishes the chances of premature component failure.

**INCREASED UP-TIME**

Ease of manual roll adjustment is an essential feature of all Pioneer Pellet Mills. Quick-release rolls for ease of clearing plugs from pelleting chamber.

**ROLL ADJUSTMENT SYSTEM**

The Belt Drive Transmission will net the proper gear reduction to attain desired die speeds. Please note that the style of the Pioneer-style of belt drive transmission offers the most compact design available.

**BELT DRIVE TRANSMISSION**

BLISS OTHERS
The stainless steel pelleting chamber door can be hinged to the left or right, as your needs require. Easily adjusted, calibrated knives are fitted to the door for control over pellet length. Safety switches are integrated into the design to protect the operator from opening the door while the machine is in operation.

**PELLET MILL**

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**INCREASED UP-TIME**

**FEEDER/CONDITIONER SYSTEM**

The Bliss Feeder/Conditioner features fully adjustable picks that enable you to control the retention time of the product prior to pelleting. The unit features oversize side access doors for unobstructed access to all working components.

**BELT DRIVE TRANSMISSION**

The Belt Drive Transmission will net the proper gear reduction to attain desired die speeds. Please note that the style of the Pioneer-style of belt drive transmission offers the most compact design available.

**INDUSTRIAL STRENGTH EQUIPMENT**

**HAMMERMILL**

**PELLET MILL**

**OP>FLO COOLER**

**CRUMBLER**
**GENERAL DIMENSIONS**

*Dimensions are intended for general use only. Specific drawings available upon request. Dimensions shown are in inches.*

![Diagram of Pellet Mill](image)

### GENERAL PELLET MILL DIMENSIONS

<table>
<thead>
<tr>
<th>MODEL</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>I</th>
<th>J</th>
<th>K</th>
<th>L</th>
</tr>
</thead>
<tbody>
<tr>
<td>35A-105</td>
<td>10-7/8</td>
<td>7</td>
<td>14-7/8</td>
<td>38-1/2</td>
<td>41-1/2</td>
<td>65-3/4</td>
<td>27-1/2</td>
<td>7-1/2</td>
<td>42</td>
<td>64-5/8</td>
<td>47-7/8</td>
<td>95-1/4</td>
</tr>
<tr>
<td>120A-175</td>
<td>11-7/8</td>
<td>8-5/8</td>
<td>19-1/4</td>
<td>37</td>
<td>63</td>
<td>100</td>
<td>34-1/8</td>
<td>10-7/8</td>
<td>59</td>
<td>92</td>
<td>68-3/4</td>
<td>115-1/4</td>
</tr>
<tr>
<td>150A-250</td>
<td>16</td>
<td>10-1/4</td>
<td>21-1/4</td>
<td>37</td>
<td>63</td>
<td>100</td>
<td>38</td>
<td>18-7/8</td>
<td>59</td>
<td>102</td>
<td>68-3/4</td>
<td>125-1/4</td>
</tr>
</tbody>
</table>

**Key Features**

- Overall reliability
- Maximum efficiency
- Ease of operation
- Ease of maintenance
- Lower operating costs
- Wide range of die sizes, die speeds and drive power
- Reasonable cost

**Impacting Industries Worldwide.**

**Represented by:**

- AFIA Equipment Manufacturers Council.
- Industry Standard Safety Warning Labels
- Applied as recommended and prepared by the

**Operational Equipment**

- Power before rotating parts and shaft can cause severe injury.
- Lock out glasses around flying material.
- Wear safety eyewear around rotating parts and shaft.
-afia@bliss-industries.com

**Contact Information**

- P.O. Box 910
- Ponca City, Oklahoma U.S.A. 74602
- Phone (580) 765-7787
- Fax (580) 762-0111

**Internet:**

http://www.bliss-industries.com

**Additional Specifications**

- **Motor Shaft Speed**
  - 1200/1800 RPM
- **Total Drive Power**
  - 809/1,220 FPM
  - 173/262 RPM
  - 105/108 RPM

**Die I.D. Diameter**

- **Die Speed**
  - 8-1/8"
  - 5-9/16"
  - 6-3/8"
- **Die Track Width**
  - 523 SQ. IN.
  - 231 SQ. IN.
  - 105 SQ. IN.

**Roll Diameter**

- **Track Speed**
  - 15-7/8"
  - 23-3/8"
  - 68-3/4"
- **Roll Area**
  - 240 SQ. IN.
  - 276 SQ. IN.
  - 345 SQ. IN.

**Die Area**

- **DIE SPEED**
  - 120/132 RPM
  - 132 RPM
  - 1,036/1,211 FPM
- **DIE I.D. DIAMETER**
  - 173/262 RPM
  - 105 SQ. IN.
  - 30"
## PELLET MILL

### SPECIFICATIONS

<table>
<thead>
<tr>
<th>B-35A-105</th>
<th>B-60A-130</th>
<th>B-60A-170</th>
<th>B-120A-141</th>
<th>B-120A-175</th>
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</thead>
<tbody>
<tr>
<td>TOTAL DRIVE POWER</td>
<td>80/100/120 HP</td>
<td>100/120/150 HP</td>
<td>150/200 HP</td>
<td>200/250 HP</td>
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<tr>
<td>MOTOR SHAFT SPEED</td>
<td>1200/1800 RPM</td>
<td>1800 RPM</td>
<td>1800 RPM</td>
<td>1200 RPM</td>
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<tr>
<td>DIE I.D. DIAMETER</td>
<td>17-13/16&quot;</td>
<td>21-13/16&quot;</td>
<td>21-13/16&quot;</td>
<td>25-11/16&quot;</td>
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<tr>
<td>DIE SPEED</td>
<td>173/262 RPM</td>
<td>159/198 RPM</td>
<td>184/236 RPM</td>
<td>140/154 RPM</td>
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<tr>
<td>TRACK SPEED</td>
<td>809/1,220 FPM</td>
<td>906/906/1,053 FPM</td>
<td>1,053/1,347 FPM</td>
<td>943/1,036 FPM</td>
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<td>DIE TRACK WIDTH</td>
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<td>5-1/8&quot;</td>
<td>6-11/16&quot;</td>
<td>5-9/16&quot;</td>
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<tr>
<td>ROLL DIAMETER</td>
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<td>9-3/4&quot;</td>
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<td>231 SQ. IN.</td>
<td>351 SQ. IN.</td>
<td>458 SQ. IN.</td>
<td>448 SQ. IN.</td>
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<td>ROLL AREA</td>
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<td>157 SQ. IN.</td>
<td>205 SQ. IN.</td>
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<table>
<thead>
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<th>B-150A-141</th>
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<th>B-150A-210</th>
<th>B-150A-250</th>
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<tbody>
<tr>
<td>TOTAL DRIVE POWER</td>
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<td>250/300 HP</td>
<td>250/300 HP</td>
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<tr>
<td>MOTOR SHAFT SPEED</td>
<td>1200 RPM</td>
<td>1200 RPM</td>
<td>1200 RPM</td>
</tr>
<tr>
<td>DIE I.D. DIAMETER</td>
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<td>30&quot;</td>
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<tr>
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<td>943 FPM</td>
<td>943/1,035 FPM</td>
<td>943/1,035 FPM</td>
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<tr>
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<td>6-7/8&quot;</td>
<td>8-1/4&quot;</td>
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<tr>
<td>NUMBER OF ROLLS</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>DIE AREA</td>
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<td>649 SQ. IN.</td>
<td>779 SQ. IN.</td>
</tr>
<tr>
<td>ROLL AREA</td>
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<td>357 SQ. IN.</td>
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<table>
<thead>
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<th>B-200B-141</th>
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<th>B-200B-210</th>
<th>B-200B-250</th>
<th>B-200B-280</th>
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<tbody>
<tr>
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<td>250-300 HP</td>
<td>300-400 HP</td>
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<td>1200 RPM</td>
<td>1200 RPM</td>
<td>1200 RPM</td>
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<td>34-13/16&quot;</td>
<td>34-13/16&quot;</td>
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<td>957/984 FPM</td>
<td>984/1,200 FPM</td>
<td>984/1,200 FPM</td>
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<td>6-7/8&quot;</td>
<td>8-1/4&quot;</td>
<td>9-7/8&quot;</td>
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<td>NUMBER OF ROLLS</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>ROLL DIAMETER</td>
<td>15-7/8&quot;</td>
<td>15-7/8&quot;</td>
<td>15-7/8&quot;</td>
<td>15-7/8&quot;</td>
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<td>DIE AREA</td>
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<td>752 SQ. IN.</td>
<td>902 SQ. IN.</td>
<td>1,080 SQ. IN.</td>
</tr>
<tr>
<td>ROLL AREA</td>
<td>276 SQ. IN.</td>
<td>345 SQ. IN.</td>
<td>413 SQ. IN.</td>
<td>492 SQ. IN.</td>
</tr>
</tbody>
</table>

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**WARNING LABELS**

Industry Standard Safety Warning Labels are applied as recommended and prepared by the AFIA Equipment Manufacturers Council.