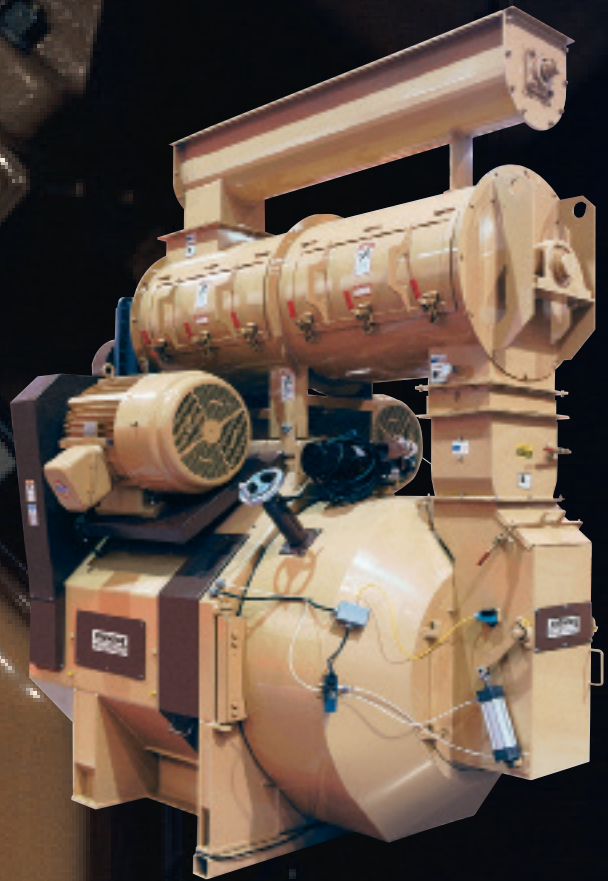


# ***PIONEER***

# **PELLET MILL**

**NEW  
MODEL  
B-200B-350**



**BLISS**  
INDUSTRIES, LLC.

*Impacting Industries Worldwide.*

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 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.



## DIE HOIST

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

## SPACE SAVING DESIGN

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

## BELT DRIVE TRANSMISSION

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.

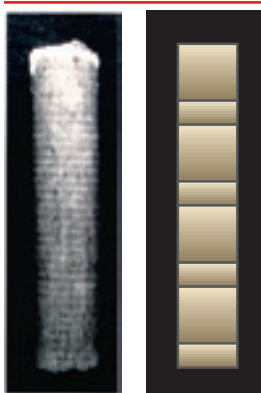
## TWO-STAGE TWIN DRIVE

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.

## FEED CONE SYSTEM

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.

Pellet Side View



BLISS

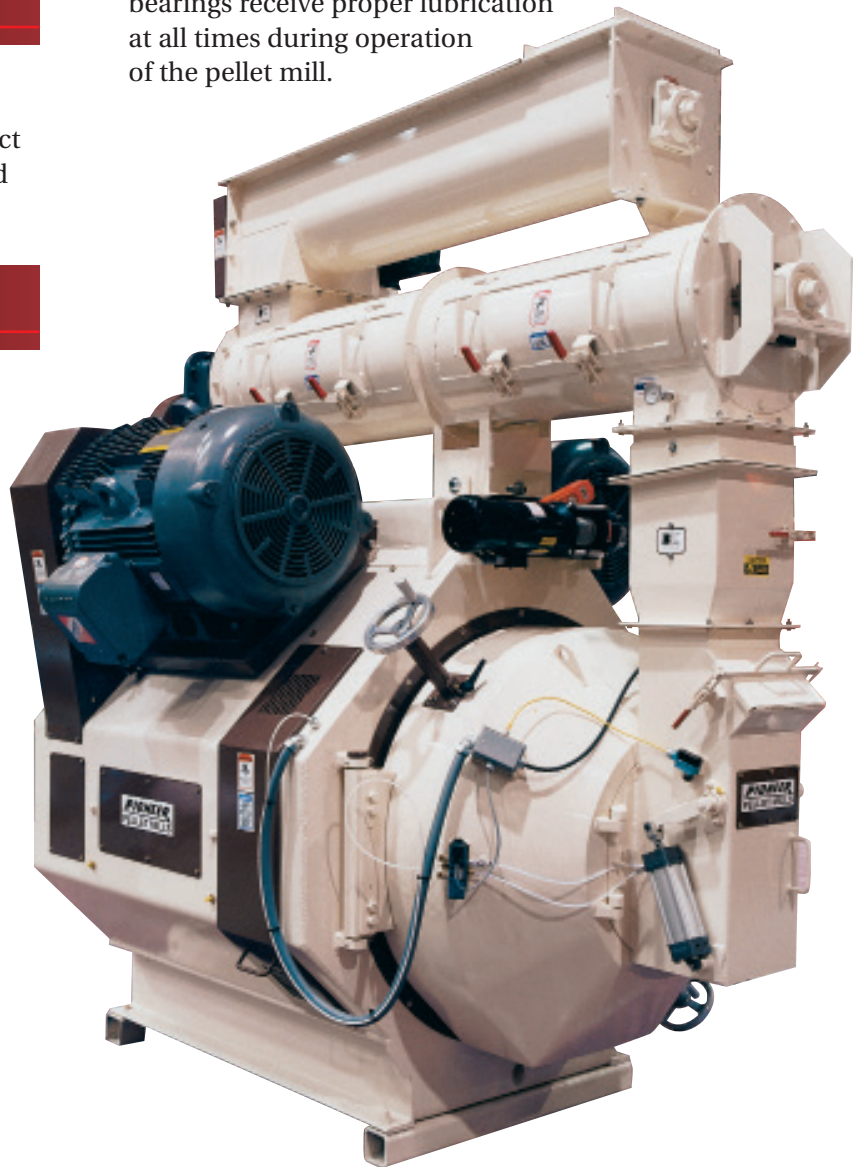
OTHERS

## OVERLOAD PROTECTION

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.

## AUTOMATIC LUBRICATION

The Bliss Pioneer Pellet Mill uses an automatic lubrication system to ensure that roller and main shaft bearings receive proper lubrication at all times during operation of the pellet mill.



*Impacting Industries Worldwide.*

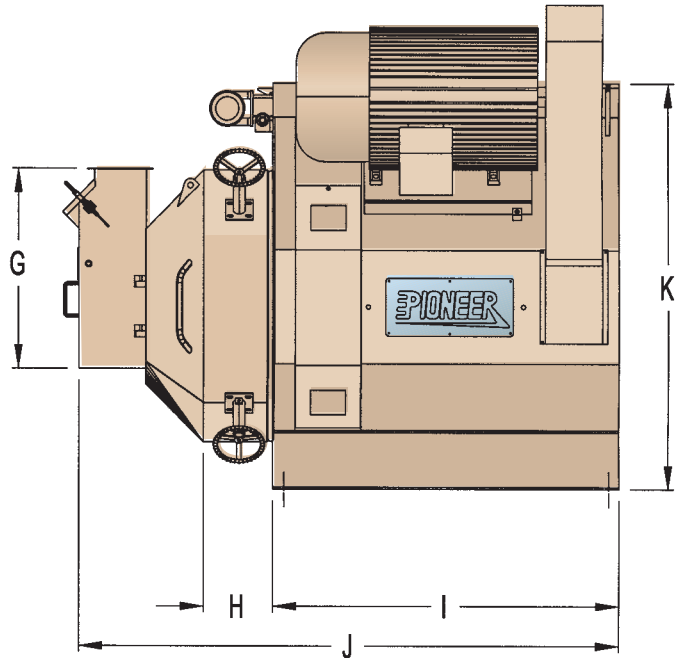
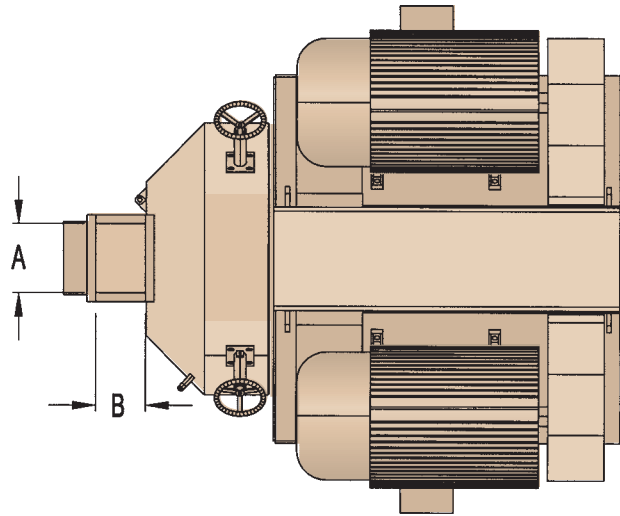
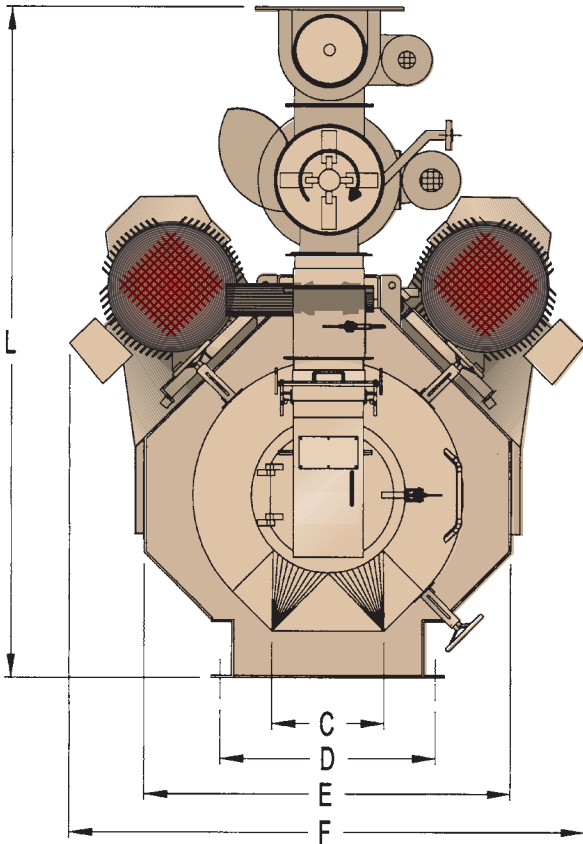


# GENERAL DIMENSIONS



*Impacting Industries Worldwide.*

- 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 —



## GENERAL PELLET MILL DIMENSIONS

| MODEL    | A      | B      | C      | D      | E      | F      | G      | H        | I      | J        | K      | L       |
|----------|--------|--------|--------|--------|--------|--------|--------|----------|--------|----------|--------|---------|
| 35B-105  | 10-7/8 | 7      | 14-7/8 | 38-1/2 | 41-1/2 | 65-3/4 | 27-1/2 | 7-1/2    | 42     | 64-5/8   | 47-7/8 | 92      |
| 60B-170  | 10-1/4 | 7-1/4  | 16-1/8 | 36-1/4 | 59-7/8 | 81     | 26-1/4 | 8-5/8    | 56-7/8 | 82-1/2   | 55-5/8 | 110     |
| 120B-175 | 11-7/8 | 8-5/8  | 19-1/4 | 37     | 63     | 100    | 34     | 10-7/8   | 59     | 92       | 69-1/4 | 119     |
| 200B-350 | 16     | 11-7/8 | 23-3/8 | 60-5/8 | 63     | 100    | 40-7/8 | 22-13/16 | 59     | 106-9/16 | 69-1/4 | 138-1/4 |

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

# SPECIFICATIONS

## PELLET MILL

| Specifications    | B35A-35       | B35A-75          | B35A-105      | B60A-100       | B-60A-130      |
|-------------------|---------------|------------------|---------------|----------------|----------------|
| Total Drive Power | 60/80 HP      | 60/80/100/120 HP | 80/100/120 HP | 100/120/150 HP | 100/120/150 HP |
| Motor Shaft Speed | 1200/1800 RPM | 1200/1800 RPM    | 1200/1800 RPM | 1200 RPM       | 1200 RPM       |
| Die I.D. Diameter | 17-13/16"     | 17-13/16"        | 17-13/16"     | 21-13/16"      | 21-13/16"      |
| Die RPM           | 165/250 RPM   | 165/250 RPM      | 165/250 RPM   | 123/151 RPM    | 123/151 RPM    |
| Track Speed (FPM) | 769/1165 FPM  | 769/1165 FPM     | 769/1165 FPM  | 705/866 FPM    | 705/866 FPM    |
| Die Track Width   | 1-3/8"        | 3"               | 4-1/8"        | 3-15/16"       | 5-1/8"         |
| Number of Rolls   | 3             | 3                | 3             | 3              | 3              |
| Roll Diameter     | 8-1/8"        | 8-1/8"           | 8-1/8"        | 9-3/4"         | 9-3/4"         |
| Die Area          | 79 Sq. In.    | 165 Sq. In.      | 231 Sq. In.   | 270 Sq. In.    | 351 Sq. In.    |
| Roll Area         | 35 Sq. In.    | 77 Sq. In.       | 105 Sq. In.   | 121 Sq. In.    | 157 Sq. In.    |

| B-60A-170     | B120A-100     | B-120A-141    | B-120A-175          | B-200B-120      | B-200B-141      |
|---------------|---------------|---------------|---------------------|-----------------|-----------------|
| 150/200 HP    | 200/250       | 200/250 HP    | 200/250/300 HP      | 300 - 500 HP    | 300 - 500 HP    |
| 1200 RPM      | 1200 RPM      | 1200 RPM      | 1200 RPM            | 1200 RPM        | 1200 RPM        |
| 21-13/16"     | 25-11/16"     | 25-11/16"     | 25-11/16"           | 34-13/16"       | 34-13/16"       |
| 152/219 RPM   | 140/161 RPM   | 140/161 RPM   | 140/161/180 RPM     | 116/138 RPM     | 116/138 RPM     |
| 866/1,249 FPM | 943/1,082 FPM | 943/1,082 FPM | 943/1,082/1,211 FPM | 1,037/1,254 FPM | 1,037/1,254 FPM |
| 6-11/16"      | 3-15/16"      | 5-9/16"       | 6-7/8"              | 4-3/4"          | 5-9/16"         |
| 3             | 3             | 3             | 3                   | 3               | 3               |
| 9-3/4"        | 11-11/16"     | 11-11/16"     | 11-11/16"           | 15-7/8"         | 15-7/8"         |
| 458 Sq. In.   | 318 Sq. In.   | 448 Sq. In.   | 554 Sq. In.         | 517 Sq. In.     | 607 Sq. In.     |
| 205 Sq. In.   | 145 Sq. In.   | 205 Sq. In.   | 254 Sq. In.         | 237 Sq. In.     | 276 Sq. In.     |

| B-200B-175      | B-200B-210      | B-200B-250      | B-200B-280      | B-200B-350      |                      |
|-----------------|-----------------|-----------------|-----------------|-----------------|----------------------|
| 300 - 500 HP    | 300 - 500 HP    | 300 - 500 HP    | 400 - 500 HP    | 600 HP          |                      |
| 1200 RPM        | 1200 RPM        | 1200 RPM        | 1200 RPM        | 1200 RPM        |                      |
| 34-13/16"       | 34-13/16"       | 34-13/16"       | 34-13/16"       | 34-13/16"       |                      |
| 116/138 RPM     | 116/138 RPM     | 156/175 RPM     | 156/175 RPM     | 156/175 RPM     |                      |
| 1,037/1,254 FPM | 1,037/1,254 FPM | 1,421/1,594 FPM | 1,421/1,594 FPM | 1,421/1,594 FPM |                      |
| 6-7/8"          | 8-1/4"          | 9-7/8"          | 11"             | 14"             |                      |
| 3               | 3               | 3               | 3               | 3               |                      |
| 15-7/8"         | 15-7/8"         | 15-7/8"         | 15-7/8"         | 15-7/8"         |                      |
| 752 Sq. In.     | 902 Sq. In.     | 1,080 Sq. In.   | 1,203 Sq. In.   | 1,526 Sq. In.   |                      |
| 345 Sq. In.     | 413 Sq. In.     | 492 Sq. In.     | 548 Sq. In.     | 681 Sq. In.     | Pellet Specs Jan '15 |

\* Specifications are subject to change without obligation or notice.



**Impacting Industries Worldwide.**

Bliss Industries LLC  
 P.O. Box 910 • Ponca City, Oklahoma U.S.A. 74602  
 Phone (580) 765-7787 • Fax (580) 762-0111  
 Toll Free 1-800-569-7787  
 Internet: <http://www.bliss-industries.com>  
 E-mail: [sales@bliss-industries.com](mailto:sales@bliss-industries.com)

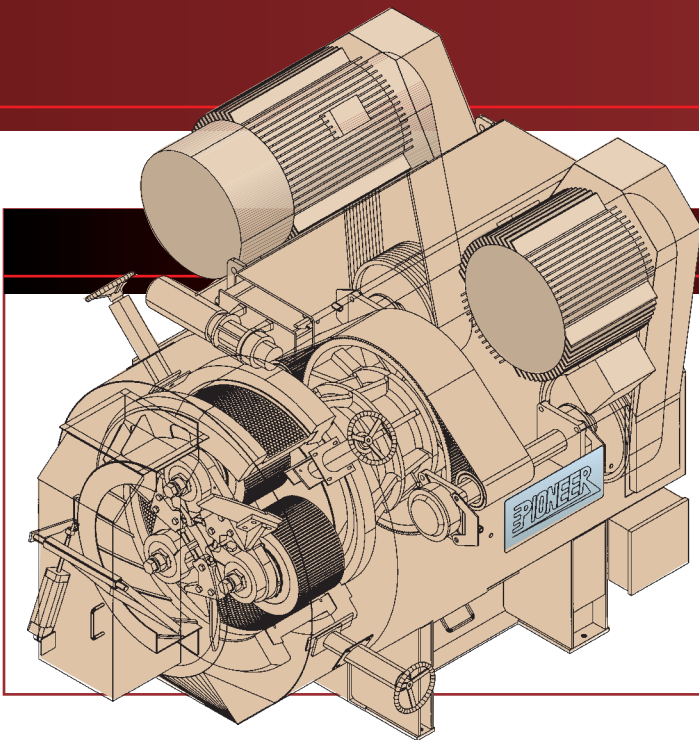


### WARNING LABELS

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

Represented by:





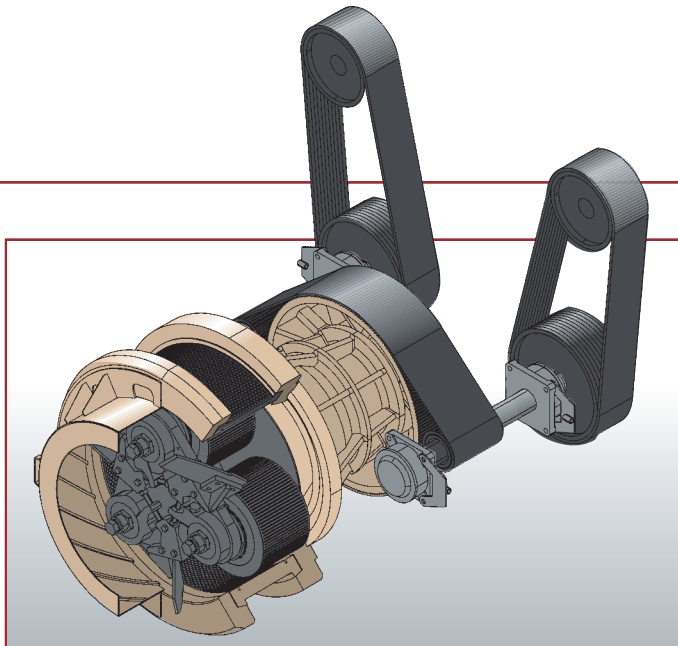
## INCREASED UP-TIME

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.



## 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 belt drive transmission offers the most compact design available.



## INDUSTRIAL STRENGTH EQUIPMENT



HAMMERMILL



PELLET MILL



OP<FLO COOLER



CRUMBLER