Grain mill

What's in the box?

**Custom Mounting Solutions:**

See the attached drawing for mounting your mill on a custom stand, cabinet, or conveyor system. The bolt pattern is the same for the top and bottom of the mill. Use M6x1 hardware for mounting the mill or custom hopper or grain handling equipment. Ensure there is at least 10mm (7/16") of threads engaged with the threads. For example, if you are mounting to 3/4" plywood (19mm), use at least 30mm long bolts. Temporary thread lock applied to threads is acceptable if preferred.

**Gap Calibration:**

**Warning: Moving parts can crush and cut. Do not operate the mill without hopper and guard installed. Unplug or lockout device before servicing.**



Ensure the unit is un-plugged, and the hopper is removed before proceeding. Included with your grain mill is a calibration plate to be used for finding the proper gap setting that produces a ASBC "normal" grist crush. In testing, we were able to produce a "normal" crush at 0.055" (1.4mm). Other mill designs might suggest to use a smaller gap, but the Blichmann mill operates with synchronized rollers with a large diameter which does not require a close gap to produce a desirable crush. To set the mill at this gap, pull the adjustment knob and rotate clockwise to the widest setting (18). Insert the plate into the top of the mill between the rollers. Pull the adjustment knob and rotate counterclockwise until rollers contact the gap tool. Document this number with permanent marker. Document the performance of the mash and make small gap adjustments to the gap setting as needed to improve efficiency without sacrificing sparge and recirculation rates.

**Sticker installation and instruction**




Place the included gap setting sticker on the adjustment side of the mill. There are 3 types of malt all ready listed for you. The .055" gap is the setting that produces a proven "Normal" rating crush with fresh two row barley. See the calibration instructions for how to determine this gap setting. Document your preferred setting on the space provided for your records. Use the other open spaces for your own preferred gap setting for other grain.

**Stand Assembly:**

The Mill has an optional stand available in two different sizes. Each are assembled in the same order. Only tighten fasteners finger tight until the entire assembly is put together. Adjust the straightness of the stand and then tighten each fastener no more than 1/8 turn past tight.

Tools Required:

10mm Combination Wrench

17mm wrench (Casters)

9/16" wrench (Feet)

1. Insert and press fit all the carriage bolts into the top board and lay the board down with the screw threads facing up.
2. Install the four leg mount angles with the large washers and nuts.
3. Install the legs and attach the 3 leg braces. The front of the board is the edge closest to the hole. Don't install a leg brace on the front of the stand, see diagram for designation.
4. If you are using a caster kit, attach the large board to the stand using the casters and hardware. Lock the caster to keep the stud from spinning during installation.



5. Install the canvas grain chute as shown. Note that one edge is longer than the other.

Hopper Assembly.

Tools Required:

#2 Phillips Screwdriver

3/8” Wrench

**Operation:**

**Warning: Moving parts can crush and cut. Do not operate the mill without hopper and finger guard installed. Unplug or lockout device before servicing.**

Adjust the gap setting knob to the desired setting. Fill the hopper and select “FWD”. You may stop the mill at any time and restart as required.

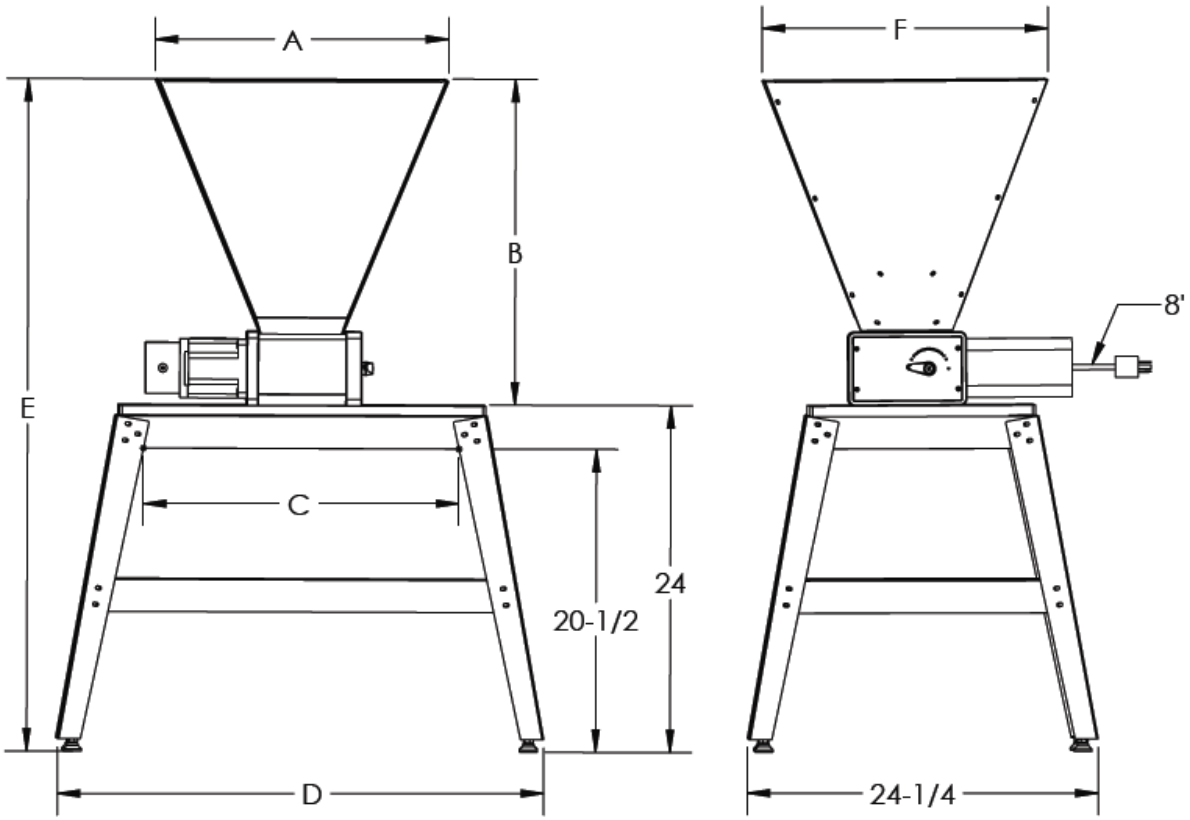
**Caution: Do not reverse direction of the mill without letting the mill come to a complete stop. This may damage the gear drive. Always let the mill come to a complete stop before changing directions from forward to reverse or reverse to forward.**

The “REV” selection is only required to clear the mill in the event of debris or a gap setting is adjusted too narrow. If the mill stops running, turn off the mill, unplug the device, and remove all the grain from the hopper. Verify that there is no debris in wedged in the mill and adjust the gap to the widest setting (18). Verify that mill operates without any grain, reset the gap setting to the normal crush setting and continue to mill grain.

**Toolless Gap Adjustments:**

With the mill set to the off position, pull the Knob until the pin clears the selection plate. Rotate the knob Clockwise for a wider gap setting and counterclockwise for a narrower setting. Each setting on the position plate adjusts the gap approximately 0.005” (.13mm). The wider spacing between some settings on the position plate adjust the gap the same distance because of the behavior of an eccentric adjustment system.

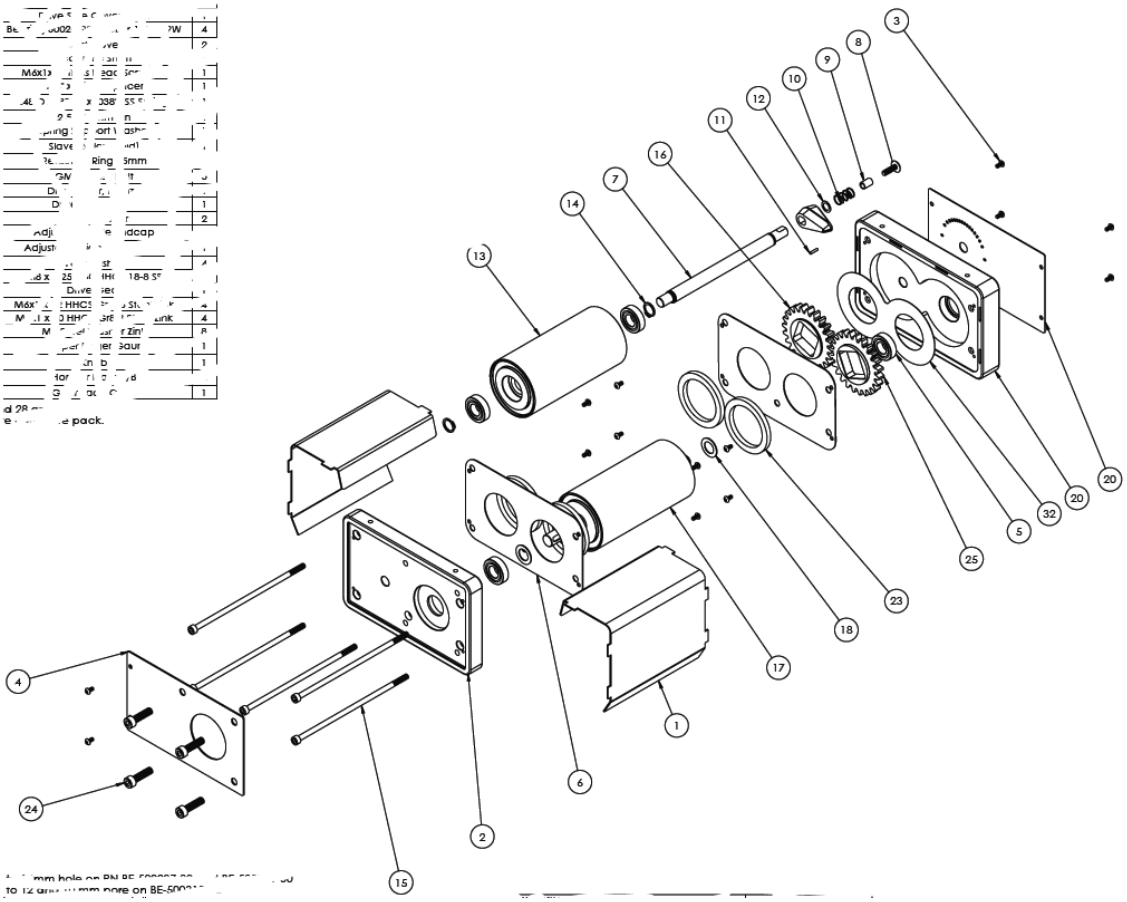
Mill dimensions:




| | Large Stand | | Small Stand | | |
|---|---|---|---|---|---|
| | 60 lb Hopper | 17 lb Hopper | 60 lb Hopper | 17 lb Hopper | |
| A | 20-1/4 | 14-1/4 | 20-1/4 | 14-1/4 | A |
| B | 20-3/4 | 15-1/2 | 20-3/4 | 15-1/2 | B |
| C | 22 | 22 | 14-1/4 | 14-1/4 | C |
| D | 34-1/4 | 34-1/4 | 26-1/2 | 26-1/2 | D |
| E | 46-3/4 | 39-1/2 | 46-3/4 | 39-1/2 | E |
| F | 20 | 14-1/2 | 20 | 14-1/2 | F |

All dimensions Approximate, subject to change without notice

Mill Exploded View


3
8
9
10
12
11
16
7
14
13
20
32
5
25
23
18
17
1
6
2
15
4
24

| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|---|---|---|---|
| 1 | BE-500305-02 | Side Chassis | 2 |
| 2 | BE-500297-06 | Drive Side End Cap | 1 |
| 3 | BE-500316-01 | M4 x .7 x 8 BHCS SS | 14 |
| 4 | BE-500298-02 | Drive Side Cover Plate | 1 |
| 5 | BE-500307-00 | Bearing 6002-2RS 32OD x 15ID x 9W | 4 |
| 6 | BE-500304-04 | Dust Cover | 2 |
| 7 | BE-500310-04 | Eccentric Shaft | 1 |
| 8 | BE-500314-01 | M6x1x20 Truss Head Screw SS | 1 |
| 9 | BE-500312-00 | 1/4" x .5inch Spacer | 1 |
| 10 | BE-500311-01 | .48"D x .875"L x .038"t SS Spring | 1 |
| 11 | BE-500315-02 | 2.5 x 12mm Pin | 1 |
| 12 | BE-500340-00 | Spring Support Washer | 1 |
| 13 | BE-500325-03 | Slave Roller (Solid) | 1 |
| 14 | BE-500309-00 | Retaining Ring 15mm | 2 |
| 15 | BE-500306-00 | GM Chassis Bolt | 5 |
| 16 | BE-500418-00 | Drive Gear, Bronze | 1 |
| 17 | BE-500324-04 | Drive Roller, Solid | 1 |
| 18 | BE-500308-01 | Thrust Washer | 2 |
| 20 | BE-500301-06 | Adjustable Side Endcap | 1 |
| 20 | BE-500302-02 | Adjustable Side Cover Plate | 1 |
| 23 | BE-500372-00 | Felt Washer | 4 |
| 24 | BE-500323-01 | M8 x 1.25 x 30 HHCS 18-8 SS | 4 |
| 25 | BE-500303-03 | Drive Gear | 1 |
| 26 | BE-500410-00 | M6x1 x 12 HHCS Gr 8.8 Steel Zink | 4 |
| 27 | BE-500411-00 | M6x1 x 30 HHCS Gr8.8 Steel Zink | 4 |
| 28 | BE-500412-00 | M6 Steel Washer Zink | 8 |
| 29 | BE-001414-00 | Hopper Finger Gaurd | 1 |
| 30 | BE-500313-03 | Knob | 1 |
| 31 | BE-001330-04 | Hopper Plate F/B | 2 |
| 32 | BE-001721-00 | Gear Face Glide | 1 |

Note: Item Number 26, 27, and 28 are not shown, but are included in a separate hardware pack.

Spare Parts List:

| Roller Hardware Parts Kit: BE-001722-00 | | |
|---|---|---|
| Description | PN: | Qty: |
| Bearing, 6002-2RS 32x15x9 | BE-500307-00 | 4 |
| Thrust Washers | BE-500308-00 | 2 |
| Felt Washers | BE-500372-00 | 4 |
| Retaining Ring | BE-500309-00 | 2 |

| Knob and Hardware Parts Kit: BE-001723-00 | | |
|---|---|---|
| Knob w/pin installed | BE-500313-03 | 1 |
| Pin | BE-500315-02 | 1 |
| Spring Support Washer | BE-500340-00 | 1 |
| Spring | BE-500311-01 | 1 |
| Spacer | BE-500312-00 | 1 |
| Truss Screw | BE-500314-01 | 1 |

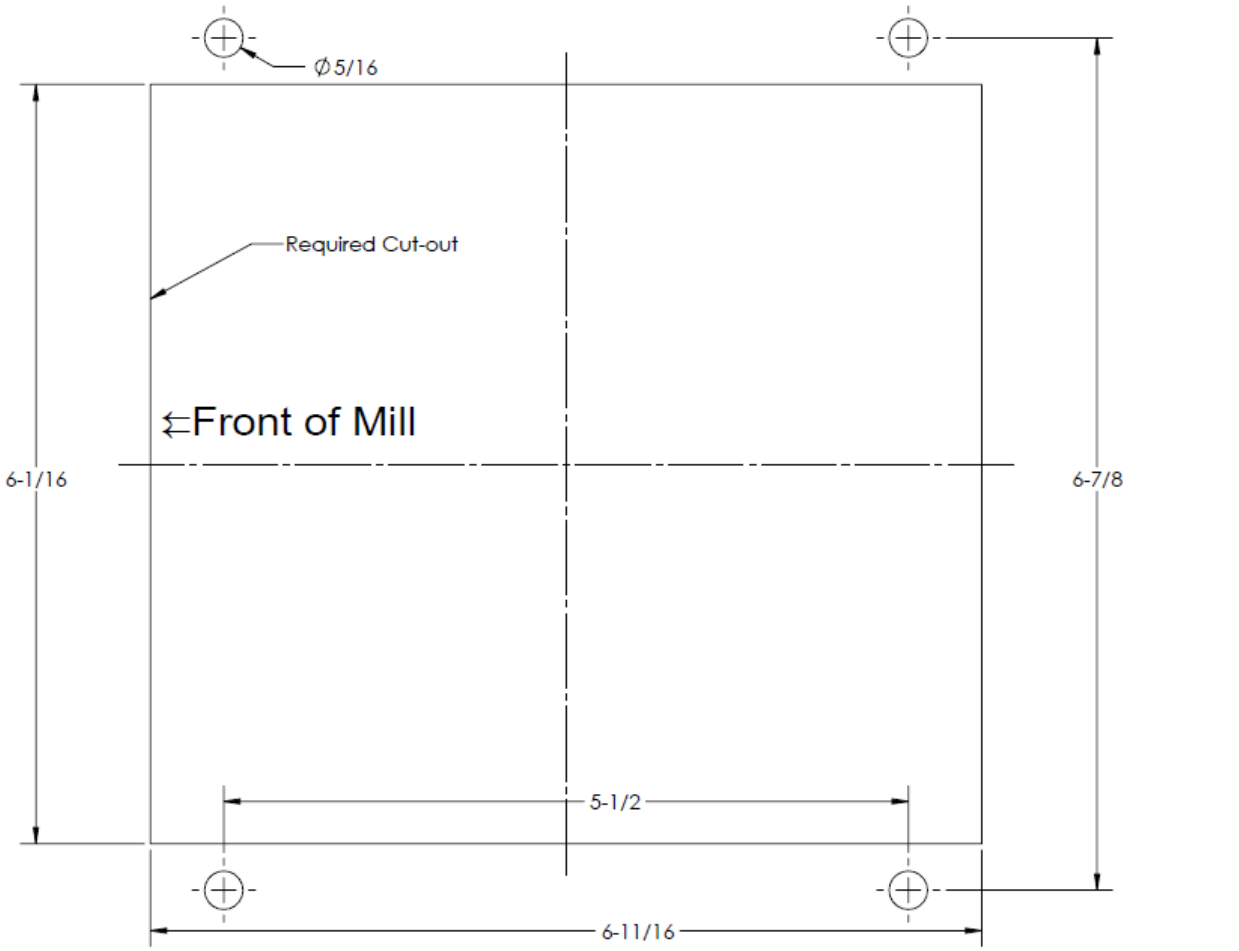
| Gear Set Parts Kit: BE-001724-00 | | |
|---|---|---|
| Drive Gear, Bronze | BE-500418-00 | 1 |
| Drive Gear, Steel | BE-500303-03 | 1 |
| Gear Face Glide | BE-001721-00 | 1 |

| Assy Hardware Parts Kit: BE-001725-00 | | |
|---|---|---|
| M4 x .7 x 8 BHCS SS Cover Screws | BE-500316-01 | 14 |
| Chassis Bolt | BE-500306-00 | 5 |
| M8 x 1.25 x 30 HHCS Motor Screw | BE-500323-01 | 4 |

| Mounting Hardware Parts Kit: BE-001726-00 | | |
|---|---|---|
| M6x1 x 12 HHCS Gr 8.8 Steel zink | BE-500410-00 | 4 |
| M6x1 x 30 HHCS Gr 8.8 Steel zink | BE-500411-00 | 4 |
| M6 Steel Washer Zink | BE-500412-00 | 8 |

| Motor Electronics Parts Kit: BE-001727-00 | | |
|---|---|---|
| Motor Switch 3PDT ON-OFF-ON | NA | 1 |
| Start Switch | Samusco ECS124L | 1 |
| Capacitor 100 uF | NA | 1 |
| Capacitor 40 uF | NA | 1 |

| Eccentric Shaft Parts Kit: BE-001728-00 | | |
|---|---|---|
| Eccentric Shaft | BE-500310-04 | 1 |
| Retaining Ring | BE-500309-00 | 2 |




Note: Printed to approximate scale, Varify dimensions before cutting.

Grain Mill Mount Dimensions V1
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Warranty Page