

Twin Roller Mill Assembly Instructions

Thank you for purchasing our roller mill.

Parts included in the box:

- 4 metal sides (2 with straight edges and 2 with flaps)
- 4 clear rubber protectors
- 1 roller mill connected (attached) to a wooden base
- 1 handle
- 1 bag with screws and nuts

Tools required:

- Set of pliers
- Phillips screwdriver

Assembly Instructions:

1) Ensure that you have all of the parts listed above before starting assembly.

2) For the first step, the four metal sides and 8 screws and nuts will be required

3) Lay one of the metal pieces with the flaps



Figure 1: Alignment of flap panel with flat piece

facing up on a counter

4) Take a flat side piece and align the holes of this piece with the flap metal piece, ensuring that the flaps are on the *outside*.

5) Screw in the top two holes using pliers and a screwdriver. *Do not attach bottom screw and nut.*

6) Using the other flat side piece, repeat steps 4 and 5 on the other side

7) Then, place the second metal piece with the flaps on the top, again ensuring to keep the flaps on the outside.

8) Screw in the top two holes on both sides using pliers and a screwdriver

9) You should now have a structure with two **flap** panels parallel to each other as well as two **flat** panels parallel. Only the top eight screws



Figure 2: Placement of clear protectors

should be in place.

10) On the wider section of the hopper, using a pair of gloves place the clear rubber protectors on the edges of the roller mill. This area can be sharp so take caution when applying

11) Cut off any excess rubber you have on the edges

12) Grab the wooden base and ensure that the roller portion is on securely. Ensure all screws are tight.

13) Gently slide the hopper into the roller base, ensuring



Figure 3: Alignment of hopper and roller base

that the screws align with the openings on the assembled hopper.

14) Once it has slid in securely, tighten the two internal screws

13) The roller frame has flaps that align with the bottom holes of the hopper. Once aligned, secure with four remaining screws.

14) Insert the handle into the shaft and tighten the screw



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Operating and Maintenance Instructions

Operating:

The Roller Mill consists of two long rollers with textured surfaces that aid in pulling grain through. One of the rollers on the grain mill is attached to a hand crank, whereas the second roller moves from the friction created when the grain is present. The rollers rotate in bearings, which are mounted in two precision aluminum-bearing plates.

Before using, you must adjust the spacing between the rollers in order to obtain the best results. This is done by first loosening the thumbscrews. After the thumbscrews are loosened, rotate the knobs on the sides until the desired distance is obtained. There are measurements on the sides of the mill to aid in finding an appropriate distance, but to obtain more accurate results "feeler gauges" can be used. The distance between the rollers should be the same throughout. Once you are satisfied with the positioning of the roller, retighten the thumbscrews. Please note that these should NOT be loosened or tightened with any tools. Finger tight is sufficient.



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The Roller Mill should be placed on a bucket while in use, so that your grain has somewhere to fall. The bottom of the roller mill has rubber feet and mounting screws that prevent it from shifting during operation. The feet can be adjusted for different sizes of buckets. The easiest way to use the roller mill is as follows: sit comfortably in a chair, using one hand to turn the hand crank and the other to press down on the base. The collecting container should be placed on the floor. The rubber feet can also be removed and the base clamped to the edge of a table, if this is more convenient.

Once you are set-up, place a handful of grain into the hopper and begin to crank. You should turn the crank clockwise, so that the rollers turn inwards and pull the grain through. At first you will face some resistance, but once the rollers get moving, it becomes much easier. If no problems are encountered at this stage, you can fill the hopper and continue cranking.

Maintenance:

In terms of maintaining your Roller Mill, we suggest the following:

- Cleaning the rollers with a soft brush *after each use*
- Ensuring the roller mill is *fully dry* before storing



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- Occasionally adding a few drops of vegetable oil to the bearings
- Running half a pound of grain through the mill *before the first use OR if the mill has been out of use for a long period of time*. This is done to remove the food grade oil placed on the rollers, which keeps them from rusting