

# Meet The GrainMaker® Family

Every GrainMaker® mill is proudly manufactured by Bitterroot Tool & Machine in their western Montana machine shop. Their family of mills easily handles many types of grains, seeds and legumes, from tiny flax seeds to kernels of corn and coffee beans.

GrainMaker® mills are distinctly hand-crafted of welded and machined steel and metal construction, instead of cast. Every part of the mill, including the body, handle, hopper, two augers both made from stainless steel and high-quality alloy grinding burrs are made on-site, living up to the "100% Made in America" standard. In addition, the exclusive grinding burrs are owner Randy Jones' unique design, and are individually machined using a process that enables GrainMaker® to include them as part of each mill's lifetime guarantee. Grain-Maker® mills also contain sealed bearings for smooth, maintenance-free operation, and, the larger mills feature an exclusive adjustable 'click and lock' control knob that allows the user to choose and easily adjust for coarse to fine grinding. The extended handle allows for better leverage, while the hardened steel burrs clean up easily. GrainMaker's® smooth, powder-coated red finish makes a handsome impression as it also permits trouble-free clean-up.

Four models are available permitting a variety of applications. The smallest mill, No. 35, utilizes a 3-cup hopper and 3-inch burrs, and is suitable for small, simple tasks such as grinding grains, coffee beans and herbs. The model No. 99 contains a 6-cup hopper, 5-inch burrs and a 12-inch flywheel, perfect for grinding or cracking modest batches of grains; while the largest of the group, model No. 116, is suitable for somewhat larger output, with 6-inch burrs and a 14-inch flywheel. The latest addition to the family of mills is the No. 275 Flaker mill, which rolls and crushes grains using 23/4-inch diameter rollers made of stainless steel. The Flaker mill is a fitting addition to any home brewing or small-scale feed operation.

For more rapid production, a custom-built geared electric motor is available that slides directly onto the shaft without bulky guards, pulleys, or belts; a do-it-yourself motorizing kit is also available that lets you use your own electric motor. For the more adventurous types, a bicycle kit can be purchased, which allows you to drive a mill with any standard geared bicycle.

Owners Randy and Bonnie Jones' desire to provide heirloom-quality mills and a distinguished all-American made product is



Clockwise from top: Model No. 275, Model No. 35, Model No. 116, Model No. 99.

reflected in their commitment to continuous improvement and superior customer service. Working directly with their customers, and providing a 30-day satisfaction guarantee also complement the GrainMakers® high-quality construction and lifetime guarantee.

Learn more and order online at [www.grainmaker.com](http://www.grainmaker.com). You can also write for more information: Bitterroot Tool & Machine, PO Box 130, Stevensville, MT 59870; call toll-free 855-777-7096, or email [sales@grainmaker.com](mailto:sales@grainmaker.com)

**Reader Inquiry No. 58**

## Easy-To-Use, Riding Mower Deck Washer

In 2002, Empire Products Company in Northern Wisconsin did a study and extensive controlled air-box testing with large multi-blade riding lawn mowers to determine the most effective method to remove fresh grass clippings from the underside of large mower decks. Using a common garden hose, it was determined that inducing water into the spinning blades (while parked) from **beneath** the blades allowed the water to enter into the rising air vortex at a 45 degree angle, thus utilizing the power of the mower engine and spinning blades to greatly increase the air/water velocity to the underside and outer inside edges of the mower deck.

After only a few minutes of operation, the underside of the mower deck will look like it was **power washed**. It was found that inducing water from the top or side of the mower deck did not have effective cleaning results. After testing, final design, patent application, manufacturing tooling, assembly quality, and packaging were complete, marketing started in 2005.

When done mowing, drive the mower to a flat washing area, (i.e. hard driveway), set the brakes, raise the mower deck to the

highest position and shut off the engine. Following directions included, slide the washer connected to a garden hose under the mower deck.

The washer can accommodate mower decks from 32 in. up to 60 in. Larger mower decks can be cleaned by doing one half of the mower deck at a time. To clean the deck, turn on the water hose, then sitting on the mower, engage the mower blades and run at high or mowing speed for a maximum air vortex and cleaning power. The washer will not strike the spinning blades due to the reverse force of the hose water pressure exiting the three cleaning nozzles, thus holding it down. Run the mower for a few minutes or until the mower deck is clean. It is recommended that the mower deck be cleaned after each mowing, before damp grass clippings dry and harden. A clean mower deck works and cuts much better than one clogged with dried grass clippings.

The Empire riding mower deck washer is made out of high quality, durable ABS



To clean the deck, you connect the washer to a garden hose and slide it all the way under the deck. Then you turn on the water and also turn on the mower.

material that won't warp, bend, crack or deteriorate and comes with operating instructions. Price for the mower washer is \$19.50 plus \$6.50 shipping.

To order or view an action video, go to our website [www.empirewasher.com](http://www.empirewasher.com) or [www.amazon.com](http://www.amazon.com), or email questions to [empire05@centurytel.net](mailto:empire05@centurytel.net)

The Empire riding mower deck washer carries a **100% money back performance guarantee**. It makes a great gift.

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