

ROTO GRIND

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BY

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MODEL 760

ROTO GRIND SPECIFICATIONS

GRINDER WEIGHT	3500 pounds.	MILL	Six sets of hammers with 18 standard hammers and 6 hard surfaced lead hammers, 13 inches long with 11-inch swing. Reversible, can be used on all four corners. 1000 R.P.M. required (Option) Six special alfalfa hammers (38 lbs. ea.) To be run at 540 R.P.M. (can be used in combination with standard hammers, for certain conditions.)
HITCH WEIGHT	660 pounds.		
HEIGHT	8 feet, 6 inches -Standard		
HEIGHT	7 feet, 6 inches -Low Profile		
TUB DIMENSIONS	9 feet at the top of the tub 8 feet at the bottom of the tub. 51 inches deep. Low Profile tub is 39 inches deep.	SHEAR	5 adjustable shear plates to control the fineness of grind. Individually adjustable from 0 to 2 1/2 Inches of movement per shear plate.
TUB SPEED	0 to 9 R.P.M., depending on tractor hydraulic volume.	CAPACITY	Depends on the type of material, condition of material (wet or dry), how fine it is being ground, and the size of the tractor, e.g. 80 to 90 horsepower on reasonably dry material should produce 15 tons per hour. H.P. Range from 70 to 200. Because of the variables, capacity can vary from 5 to 45 tons per hour.
TUB GOVERNOR	To stop tub if the tractor R.P.M. pulls down. Standard equipment. Works only in the clockwise rotation of the tub.		

MODEL 1090

ROTO GRIND SPECIFICATIONS

GRINDER WEIGHT	4000 pounds.	MILL	Six sets of hammers with 24 standard hammers and 12 hard surfaced lead hammers, Reversible, can be used on all four corners. 1000 R.P.M. required. Total of 36 Hammers.
HITCH WEIGHT	710 pounds.		
HEIGHT	8 feet, 6 inches -Standard tub	SHEAR	5 adjustable shear plates to control the fineness of grind. Individually adjustable from 0 to 2 1/2 Inches of movement per shear plate.
TUB DIMENSIONS	9 feet at the top of the tub 7-1/2 feet at the bottom of the tub. 51 inches deep.	CAPACITY	Depends on the type of material, condition of material (wet or dry), how fine it is being ground, and the size of the tractor, e.g. 150 to 200 horsepower on reasonably dry material should produce 35 tons per hour. Because of the variables, capacity can vary from 20 to 60 tons per hour.
TUB SPEED	0 to 9 R.P.M., depending on tractor hydraulic volume.		
TUB GOVERNOR	To stop tub if the tractor R.P.M. pulls down. Standard equipment. Works only in the clockwise rotation of the tub.		

ROTO GRIND



Model 760 Standard



Model 1090 Standard

**THE
MOST
VERSATILE
TUB
GRINDER
ON THE
MARKET!!**

Model 760 Standard



Model 1090 with Tub Flare Kit



Model 760 grinding wood chips.



DOES GRINDING PAY?

You bet it does! Improved feed conversions & consistent product *improves milk production, beef production* and overall health. Research stations and university tests have proven that grinding your forage saves up to 30% in feed waste, and in addition, feeder cattle will gain up to one pound per head per day more when feeding ground forage over unground forage. Grinding also enables you to blend inexpensive, poor quality forage that cattle would not consume into your feeding ration for utilization of feeds that are normally thrown away or used for bedding. Grinding your feed also knocks most of the mold out of the hay.

ADVANTAGES FOR DAIRY FEEDERS

Uniformity of the ration when feeding a TMR can easily be achieved when using the **ROTO GRIND**. Grinding your forages to the precise sizes required by your Nutritionist does improve rumen health, improved milk production, higher quality mixing in a TMR, faster feeding and mixing times, less labor and fuel costs, longer life for your mixer, and less feed waste with less feed sorting. Optional attachments allow you to grind high moisture corn, dry shelled corn, barley, milo, and all other grains from dry to high moisture. You can even grind ear corn. Use the **ROTO GRIND** to process lower quality feeds for your dry cows and replacement heifers. Many dairies also use the **ROTO GRIND** for chopping and spreading bedding materials on the go. Put the bedding material exactly where you want it. Products such as straw and corn stalks are also much more absorbent when processed for this application.

WHY CHOOSE ROTO GRIND?

The **ROTO GRIND** utilizes a unique shear plate system in conjunction with long heavy hammers to produce a simple machine that does not require screens and uses much less horsepower than conventional grinders. This means that there will be less strain on your tractor, less power take-off problems and less fuel consumed to do your grinding. Even when nature puts extra moisture on your forage you can still grind with the **ROTO GRIND**. No screens to plug with wet material. We can grind silage bales up to 70% moisture. With the **ROTO GRIND**'s unique grinding method, very few moving parts are required. Fewer moving parts mean less upkeep.

MULTIPLE USES:

- Hay & Straw
- All size round & square bales
- All types of grains from dry to high moisture
- Ear Corn
- Tree trimmings, small branches, tree leaves, wood chips, bark, paper, cardboard, composted materials, materials to be composted, and many other grinding applications

HIGH CAPACITY LOW COST GRINDS WET MATERIAL

The **ROTO GRIND** has no belt, chain or gear box drives to wear out. This simplicity of design allows the **ROTO GRIND** to be sold at such a low price.

The most astonishing feature of the **ROTO GRIND** is its lower horsepower requirements and smoother operation. The rotor cuts across the tub floor from the outside to the center and much of the grinding is done in the tub before the material reaches the main grinding area. The rotor is three to five times heavier per inch of shear length than competitive machines and this extra weight builds inertia that makes the **ROTO GRIND** the smoothest running grinder on the market and the easiest on tractor power take-offs.

The capacity will surprise you. Ten to twenty tons per hour in fairly dry conditions with 70 to 120 horsepower can be expected. Also the **ROTO GRIND** uses shear plates instead of screens which makes it even more desirable in wet, tough conditions.

Individually adjustable shear plates replace screens to control particle size, these shear plates are adjustable from ground level and can be adjusted with speed and ease.

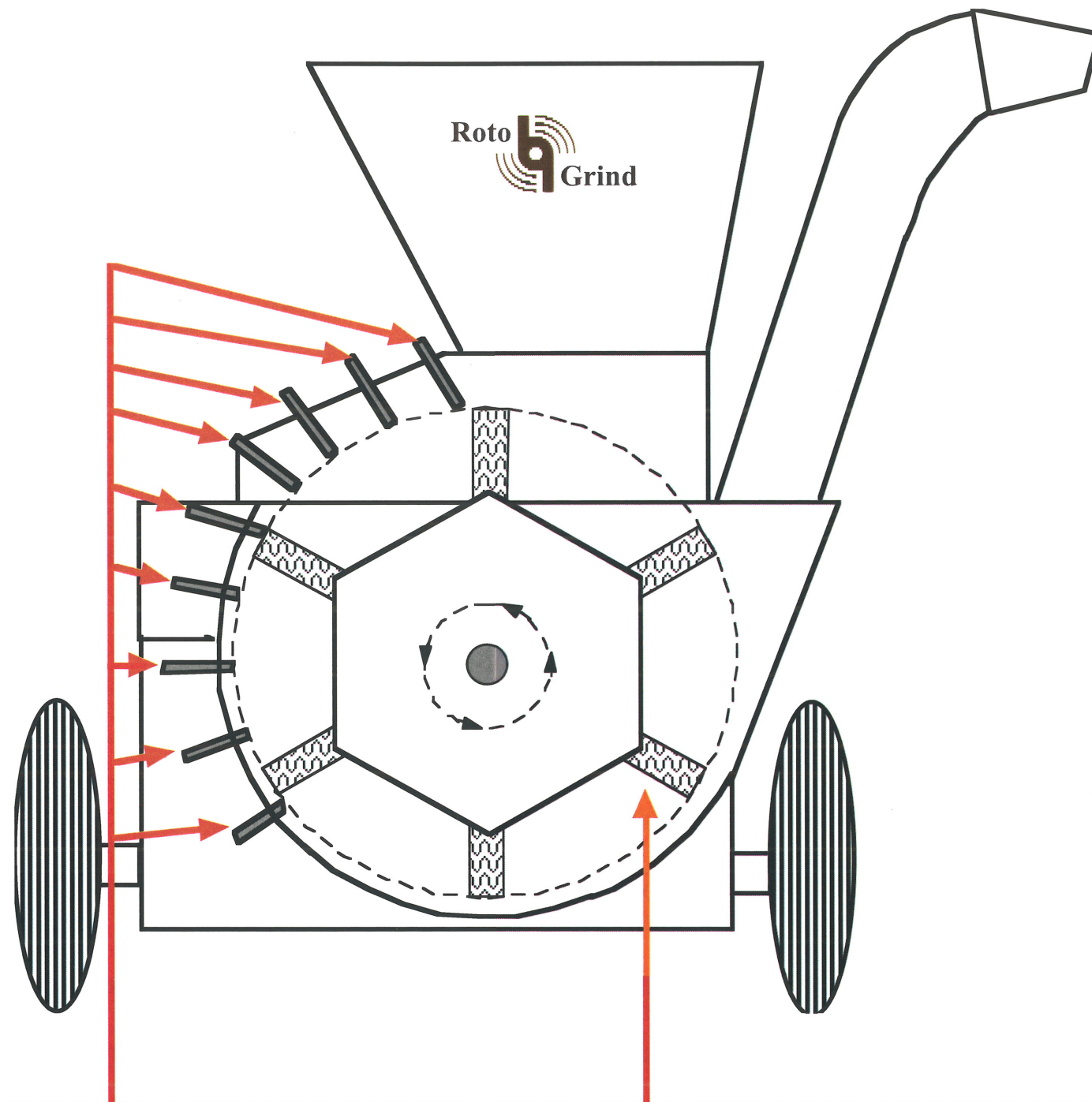
Now available with **HEAVY DUTY HARD SURFACED HAMMERS** as standard equipment for better performance in wet conditions and longer hammer life.

This is a 30 year proven concept in grinding. Call us today to arrange a demonstration in your area.

GRIND WHEN IT IS CONVENIENT FOR YOU. Because the **ROTO GRIND** is a simple, durable unit, there is no need to grind large stockpiles in advance. No waiting for the custom grinder to arrive, and remember, fresh ground forage is more palatable than stored material, with minimal weather loss. Ask for a demonstration. We think you will be surprised at how economical this **ROTO GRIND** is and how well it works in all kinds of conditions with less horsepower required.

DON'T WASTE YOUR FEED!
TURN IT INTO POUNDS OF BEEF OR ADDITIONAL MILK PRODUCTION.

FEATURES OF THE ROTO GRIND MILL



Exclusive, individually adjusted shear plates give easy control of fineness of grind. **NO** screens are used. Shear plate design allows grinding of wet material!

Free swinging, heat treated hammers. Hammers can be turned so all -4- corners can be used. 51 inch tip to tip diameter on hammers at full extension.

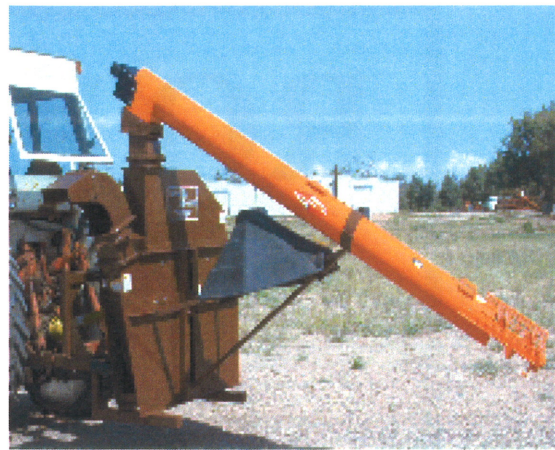
ROTO GRIND

Grain Grinders



Low Cost * High Capacity *** Low Maintenance**
Simple Design* Versatile *** Grinds Wet Material**

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ROTO GRIND GRAIN GRINDERS



Capacity Chart (all capacities listed in tons per hour)

Shelled Corn--Dry or High Moisture

Horsepower	Model GG-7	Model GG-10
70-100.....	12-20.....	N/A
100-135.....	15-30.....	N/A
135-160.....	25-38.....	30-45
160-200.....	25-38.....	45-60

Oats, Barley, Wheat, Milo

Horsepower	Model GG-7	Model GG-10
70-100.....	8-15.....	N/A
100-135.....	12-24.....	N/A
135-160.....	20-30.....	24-36
160-200.....	20-30.....	35-48

Grinder Settings- Shelled corn can usually be classified into -3- stages:

Fine Grind- Almost all corn is a very fine grind similar to corn meal with the largest kernel pieces about 1/8" in size.

Medium Grind- About 1/3 of the product is very fine with the rest in 1/4 to 1/2 size kernels.

Coarse Grind- 90-95% cracked kernels with about 5% unground and about 5% ground fine.

The capacity ranges listed cover an average of the grinder settings described above. For a given horsepower range, the lower capacity will be for a finer grind and the upper capacity will be for a coarser grind. Moisture content will also have some effect on the output capacity of the machines. The Roto Grinder Tub Grinders, when properly equipped, will have the same capacities as shown.

	Model GG-7	Model GG-10
PTO Speed.....	1000 RPM.....	1000 RPM
PTO shear yoke.....	Standard.....	Standard
Hammers.....	36 Standard Hammers.....	48 Standard Hammers
Available in 3 point style?.....	Yes.....	Yes
Available with loading auger?.....	Yes.....	Yes
Number of shear plates.....	9	9
Mill width / Rotor width.....	7" mill w/ 6" rotor.....	10" mill w/ 9" rotor
Water kit.....	Standard.....	Standard
3 Point Style Weight (approx.).....	1800.....	2000
Trailer/Auger Style Weight (approx.).....	2550.....	2750

Additional Standards:

3 Point Style: Includes fill hopper, hardened hammers & hardened hammer pins

Trailer/Auger Style: Includes hardened hammers & hardened hammer pins. Loading auger is 10" x 12 ft equipped with hydraulic motor, hoses and hydraulic flow control. Auger fill hopper & auger attachment swivel included.

The **Roto Grind Grain Grinders** are high capacity grain processors that allow you to control the consistency & size of grind **without** sacrificing capacity. University tests show increased milk production when using finely ground corn over rolled corn in the feed ration. Milk gains of 4 to 8 pounds per cow per day have been achieved!

The size of grind is easily adjusted. With **-9-** shear plates available, feed can be processed from a coarse grind, where grain is just cracked, to a very fine grind, where it is almost flour. The water valve kit allows water to be added as the grain is processed. Adding water gives you the option to raise moisture content to desired levels & controls dust during grinding. All types of grain, both high moisture & dry, can be processed by **Roto Grind Grain Grinders!**