



GRAIN TECH HI-EFFICIENCY ROLLER MILLS

Engineered for superior performance in producing consistently even sized product at optimum production output.

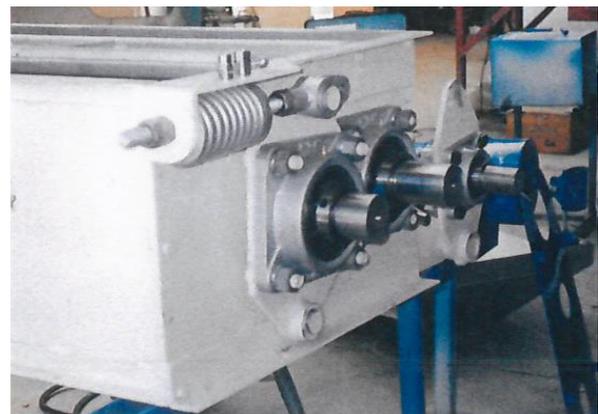
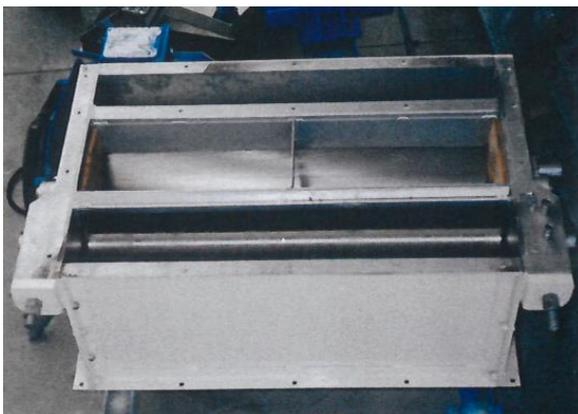
Standard Duty Roller Mills

1. The **Grain Tech Roller Mill** is available in two sizes:

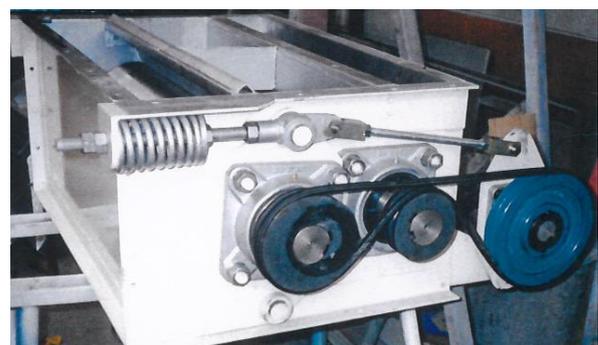
- 1000mm x 250mm diameter rolls
- 500mm x 250mm diameter rolls.

Both rolls are powered for greater capacity through a heavy duty, fully adjustable drive arrangement.

2. The **Grain Tech Roller Mill** is a modern, efficient machine, comprehensively designed to permit easy installation and ease of operation.



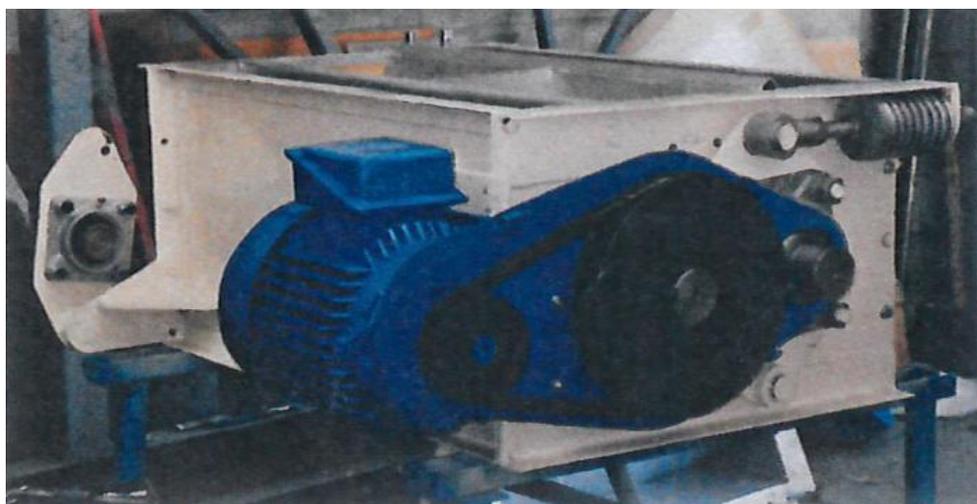
3. The roller mill comprises two hardened chill cast rolls which are fluted to suit the particular application and mounted in self-aligning bearings with the front roll being mounted on swing arms. This permits the rolls being readily adjusted for accurate sizing.



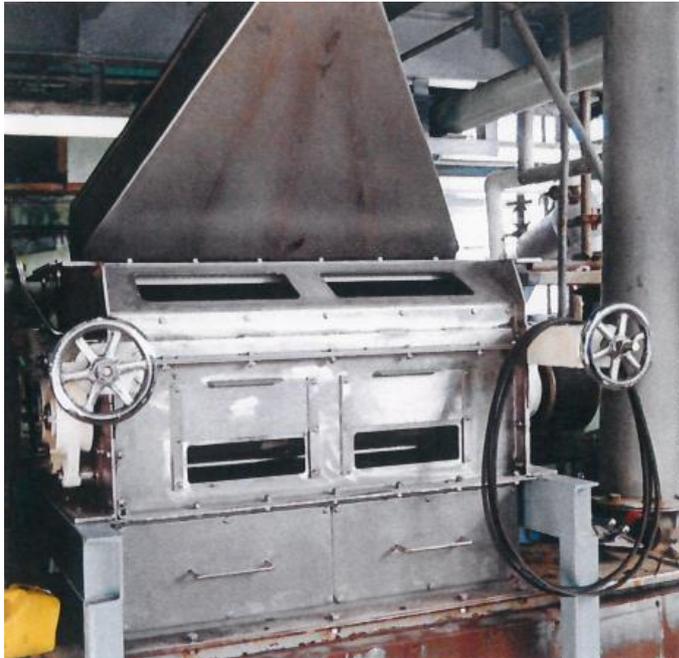
4. Construction is of heavy-duty end and side plates with heavy duty bearings and running gear. All items are machined to exacting tolerances to ensure that accurately, consistently finished particle sizing is maintained according to the particular setting.



5. Feeders may be of either the roll feeder, pin feeder or vibratory feeder type and each is fitted to be fully adjustable and with a controlled feed gate. A variable speed control drive may be incorporated where required for adjusting the feed rate for a wide variety of products to be processed. A by-pass gate can be fitted into the roller mill to enable product to be diverted past the grinding rolls.
6. Each roller mill is fitted complete with protective guarding and safety devices to prevent access while the machine is in operation.



7. The roll corrugations are selected to correspond to the size and type of product to be reduced and likewise, the speed differential between the pair of rolls is selected to produce the desired size reduction or finished product characteristics. Suitable flute profiles and differentials are available for cracking, coarse, medium or fine grinding, ultra-fine grinding, product sizing, flaking, crimping and crumbling. Double high stands can be incorporated where very selective size reduction is necessary.
8. Special versions fabricated in stainless steel with standard rolls or hard chrome plated rolls, are available for applications where high moisture content or corrosive products are to be processed.



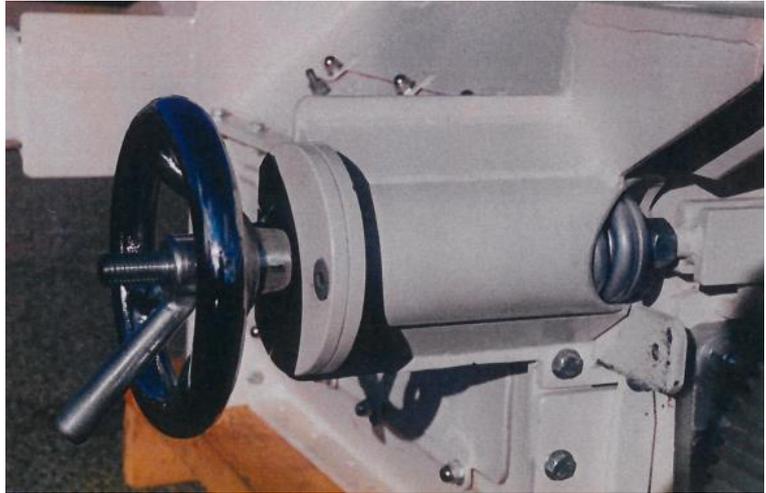
9. Special pre-cookers, cooler and feed arrangements may be supplied, as well as complete processing installations.

10.

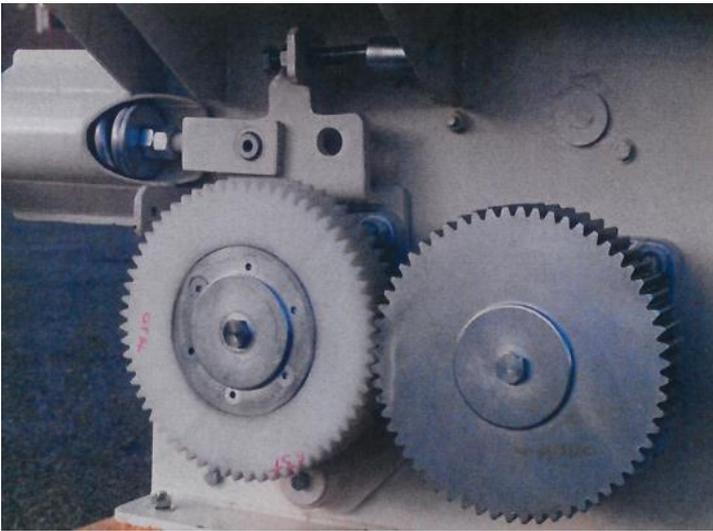


Different feeder types are supplied to suit the product being handled including roll feeders, pin feeders and vibratory tray type feeders. Adjustment is made to the product feed rate through alteration of the feed roll or tray speed or amplitude in combination with regulation of the adjustable feed gate.

11. Precise setting of the roll gap is maintained through the setting of the heavy duty handwheels fitted to each end which also combine a spring loading feature enabling the rolls to separate where extraneous materials may enter the roll gap. Safety back stops are fitted to prevent the rolls touching.



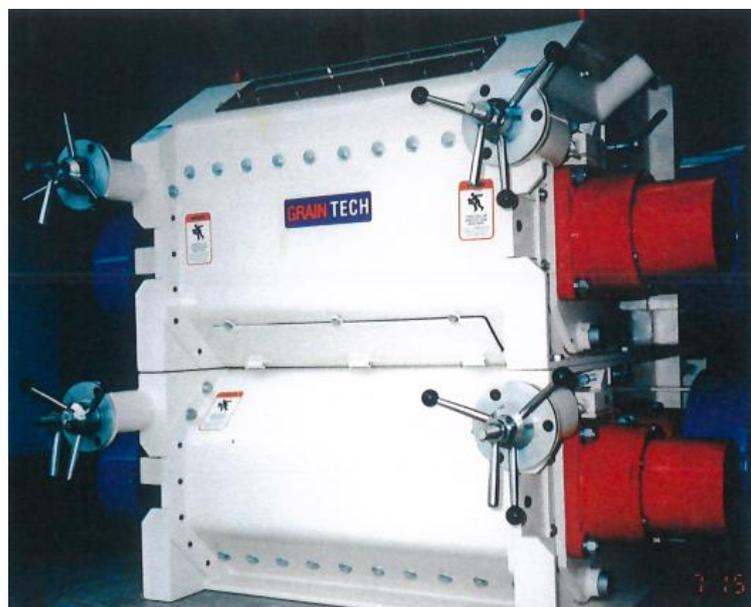
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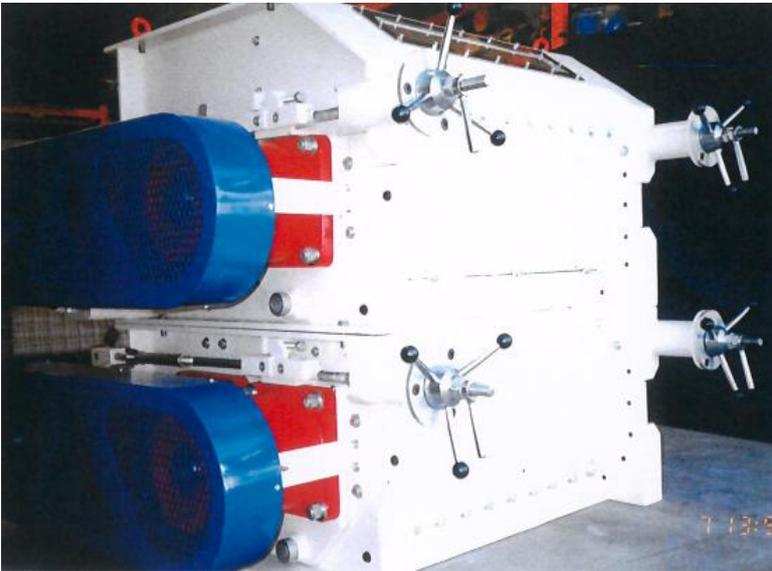
Roll speed and roll differentials are provided according to the type of material being milled and the finished product specification required, ranging from crimping and flaking through to coarse or fine particle sizes. The roll differential drive may optionally be driven via gears or twin "V" belts or timing belts.

Heavy Duty Roller Mills

1. Mills are available with roll sizes to suit the processing application from 400mm long to 1500mm long and 200mm diameter to 600mm diameter. Rolls may be smooth or fluted according to requirements. Single or double stand roller mills are available.



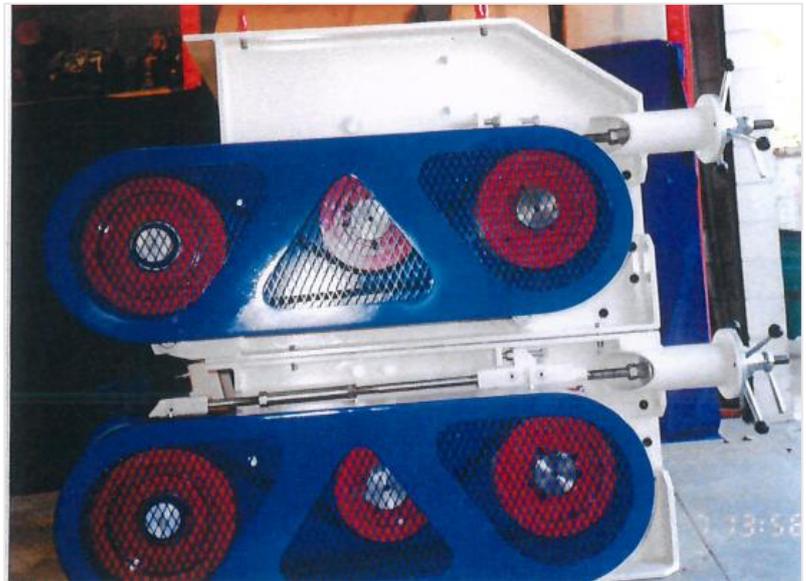
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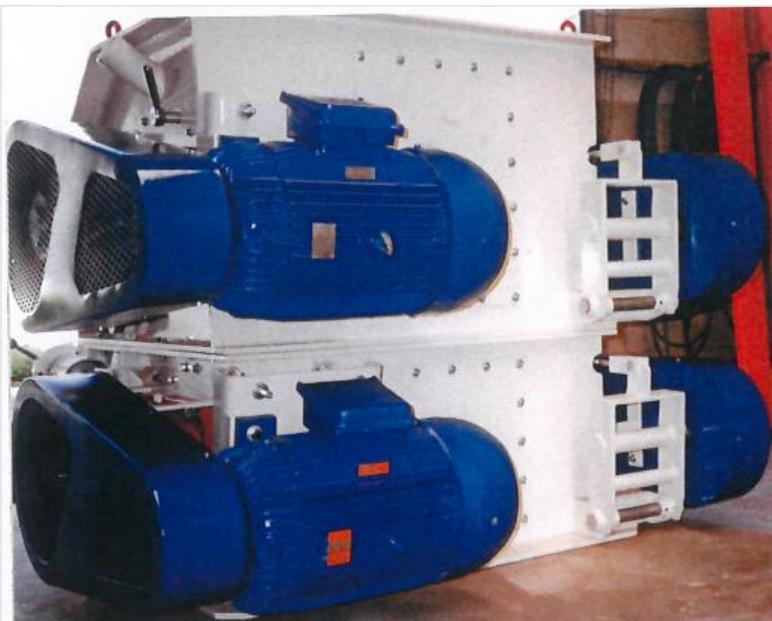
Heavy duty bearings and drive componentry ensure long life and high capacity throughput.

Note: Double stand machine shown

3. Double "V" belt drive arrangement complete with belt tensioning and spring loaded safety separation of the rolls in the event of foreign objects entering the nip of the rolls, is provided for and accurate grind adjustment is maintained through the micro-meter handwheel settings complete with locking lever.



4.



All drives and moving parts are guarded to OSHA standards with all adjustments being carried out from the outside of the machine. Machines are available in painted mild steel, galvanised finished mild steel or stainless steel finish.

Applications

1. Flaking mill with 1200mm L x 600mm diameter rolls installed for cereal flaking applications.



- 2.



Heavy duty flaking mill fitted with 1250mm L x 600mm diameter rolls for breakfast cereal flaking installation.

3. Maize grain flaking mill fitted with 1250mm L x 400mm diameter rolls within feed lot maize cooking and flaking application.



4.



Cereal milling roller mill with 1000mm L x 300mm diameter rolls with fluting suited to kibble production.



5. Two high roller mill complete with two pair of 1000mm L x 300mm diameter fluted rolls for general purpose grain crimping and grinding application.

6.



Two high capacity flaking roller mills installed within soya bean flaking arrangement.



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OFFERS TOTAL CAPABILITY IN
EQUIPMENT SYSTEMS & PROCESSORS FOR
Particle Size Reduction, Milling, Crushing, Sifting,
Classifying, Mixing, Pelleting, Agglomeration,
Extruding, Bulk Material Handling, Drying,
Cooling, Conveying & Packaging