

Goldens' Vertical Horse Power Cane Mills

New Model STANDARD or RED Mills

Two-Roller and Three-Roller

New Model LONG BARREL or GREEN Mills

Two-Roller and Three-Roller

EXPORT MODEL or BLUE Mills

Three-Roller

IN PRESENTING our present line of Two and Three-Roller Horse Power Cane Mills we feel that we not only have the Best Mills on the market today, but also "A Mill for Every Purpose."

Having had over fifty years experience in studying the needs of cane syrup makers, since we manufactured our first old model mill in 1882, coupled with the best equipped and most up-to-date plant in the South, we are confident that our New Model RED and GREEN Mills and our Export Model BLUE Mills are the strongest, most mechanical and modern Mills on the market.

These Mills were put on the market after patenting many new and valuable features, and are new Mills throughout as compared to those first manufactured, except where have been embodied points of proven worth in our old model mills. We have machine molded gears, rolls, etc., to reach the point aimed at: "The Best Mills Made." Not only are these Mills mechanically correct, but they have been thoroughly tested in the cane fields, not only in the United States, but also in many foreign countries, and the results have been highly gratifying to thousands of users.

To those who look only for the cheapest mills, there may be cane mill manufacturers who can furnish cheaper mills, but for "value received", Goldens' New Model and Export Model Mills are the cheapest in the end.

TOP PLATE

Of strong, solid construction. Extra heavy and materially reinforced for GREEN and BLUE Mills. All Top Plate bearing cavities are sufficiently large to be packed with oily waste so as to keep bearings well lubricated, and at the same time prevent loss of oil.

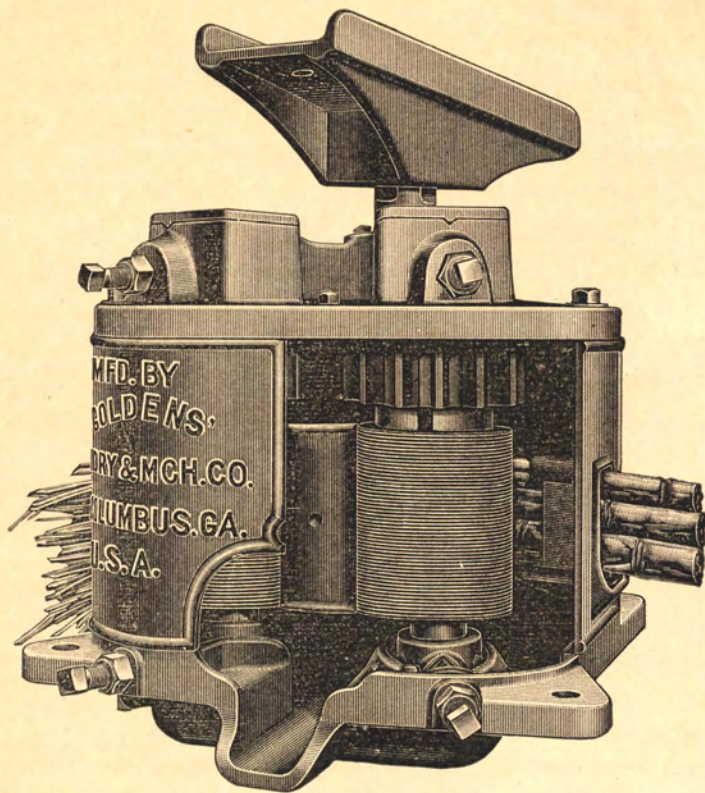
PANELS

Four to each Mill, with broad surfaces at top and bottom to insure firm contact with top and bottom plates. These Panels, together with Feed Box, practically totally enclose the Mill. This feature not only prevents loss of juice, but makes it perfectly safe for anyone to feed our Mills.

BOTTOM PLATE

Is strongly constructed for all Mills. They are extra heavy and reinforced for GREEN and BLUE Mills.

The design is such as to prevent any possibility of oil mixing with juice, at the same time giving freest flow of juice with the least chance of clogging. When in place, bearings can be easily reached, and oiled with common oil can which we furnish. Ample room is provided at each end of Mill for removal of cane chips that may collect in bottom.



ROLLS

Are machine molded, insuring the best that can be made, and All Rolls have large steel shaft.

In our RED and GREEN Mills all shafts are cast in the rolls, as is the case with small rolls of our BLUE Mills. The Large Rolls of BLUE Mills, however, are Bored, the Shaft then Turned, Pressed into place, and securely Keyed.

Journals, or bearing portions, of shafts in GREEN and BLUE Mills are considerably larger in diameter than for RED Mills, and are same diameter for all rolls, that is, three, or two, as case might be. In addition, for large roll of Three-Roller GREEN Mill and BLUE Mill, and for both rolls of Two-Roller GREEN Mill, shafts are bossed to considerably larger diameter where rolls are cast, or fit on. All bearing surfaces of shafts are nicely machined and bottom end runs in oil bath.

Large roll is turned to exact pitch of gear on same, with flange at each end to prevent cane from working off the rolls. All Rolls are Grooved.

A PATENTED feature of our Three-Roller Mills is in having the first small, or feed roll, $\frac{3}{8}$ " to $\frac{5}{8}$ " smaller in diameter than second small, or discharge

roll. This allows of feed roll operating farther from the large roll than does discharge roll, with gears remaining in correct working pitch. (On other Mills, where rolls are set properly, the gears do not mesh correctly.) Also, the discharge roll being larger, it tends to pull the cane from the feed roll, and helps eliminate choking.

GEARS

Are as near perfect as Cast Gears can be, since they not only are machine molded, but are made from machine cut iron patterns.

The general construction of the Gears for all our Mills is very substantial. For GREEN and BLUE Mills, in order to meet the more severe conditions, they are extra heavy and strong, having wide faces and coarse pitch.

The involute tooth is used, which not only makes a stronger Gear, but is of prime importance for Gears whose centers vary, as in Cane Mills.

The Gears are made separate from the Rolls, with clutches which engage like clutches on the rolls, and are easily removable.

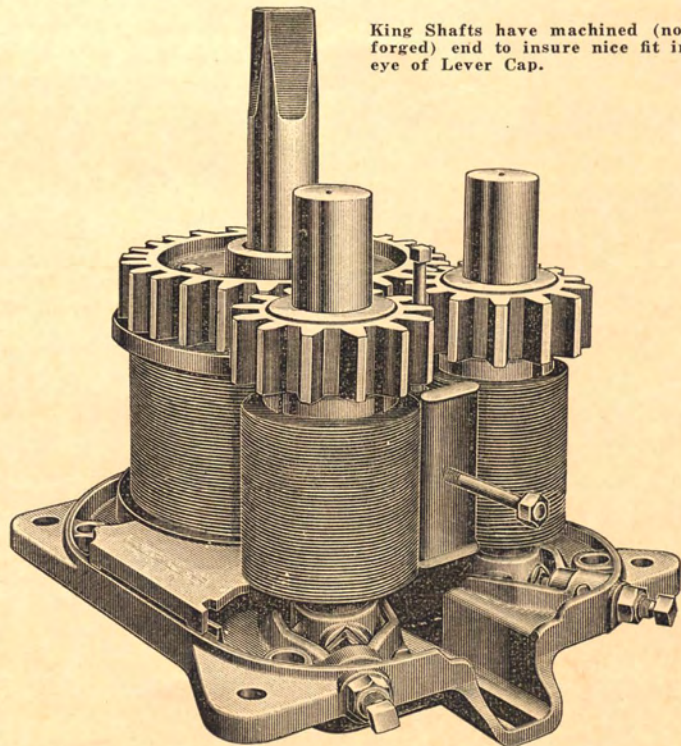
On GREEN and BLUE Mills Gears are Bored to fit shafts.

LEVER CAP

Is extra long, with eye nicely formed to insure a perfect fit on machined end of King Shaft. For GREEN and BLUE Mills Lever Caps are extra heavy, and reinforced materially for added strength necessary.

For RED Mills No. 1, No. 2 and No. 12, and BLUE Mill No. 22, we furnish and recommend the Single

King Shafts have machined (not forged) end to insure nice fit in eye of Lever Cap.



LEVER CAP (Continued)

Angle Lever. For all other sizes of Horse Power Mills the Double Angle Lever is furnished and recommended. However, when so specified, we will furnish either the Single Angle, Double Angle or Straight Lever Cap for any of these Mills.

CAUTION: In fitting sweep to the Lever Cap it should touch sides, but not bottom, so that in case of wood shrinking it may be pulled firmly to wedge-shaped sides of Cap, thus always being a tight fit.

FEED BOX

Our New Feed Box (Patented) is of special design. It not only entirely closes feed side of Mill, which in itself prevents great loss of juice, but it also has a projecting lip which catches juice spurting out on the cane and running down outside edges of the opening, and turns it back into the Mill thru a channel made for this purpose.

Openings in our New Feed Boxes are smaller when compared with other Mills on the market, and also Mills formerly made by us. With the old style Feed Box, where the opening extends the length of the rolls, the operator in feeding the Mill will invariably place the cane as far down or as far up as the opening will allow. The cane spreads in crushing, which causes it to turn under the flanges of the large roll or get into the gearing. This trouble is obviated in our New Feed Boxes with the smaller openings.

Feed Box can be changed from one side of Mill to the other. When this is done, the Small Rolls must be interchanged or the Mill will choke.

BEARINGS

All Bearings fit in their places nicely and can be easily removed and replaced. Bearings for **RED** Mills are Cast Iron Babbitted Boxes.

Bearings for Two-Roller **GREEN** Mills are Solid Brass Boxes for Long Journal Rolls, and Cast Iron Boxes with Heavy Brass Liners for Short Journal Rolls.

Bearings for Three-Roller **GREEN** Mills and **BLUE** Mills are Solid Brass Boxes for All Rolls.

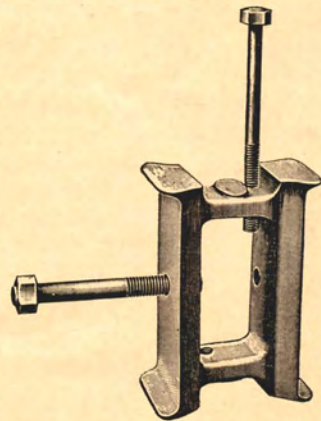
NOTE: Where Solid Brass Boxes are used for small roll bearings a square steel nut is cast in box at point where adjusting screw presses, thus preventing spreading of the brass.

GUIDE KNIFE

New Style (Patented) has Two Faces; when one wears out, turn the Knife end for end and use the other. It has a projection on top and bottom of each face which prevents cane and bagasse from going out of end of rolls into gears at top, or to the bottom of Mill; produces a tendency to draw cane to middle of rolls.

Adjust nut on bolt that passes thru top plate so that Guide Knife is spaced equally between top and bottom flanges of large roll. Then draw Knife firmly, but not too hard, against faces of the two small rolls by tightening nut on bolt projecting thru panels.

CAUTION: Before any roll adjustment is made nut on panel bolt of Guide Knife should be loosened so as to prevent breakage. After such roll adjustment is made, and before trying Mill, tighten panel bolt nut so as to again bring Knife firmly against faces of small rolls. Also, as Guide Knife becomes worn, panel bolt nut should be tightened to take up this wear.



SCRAPERS

Each Mill is provided with two Steel Scrapers, which not only keep the rolls clean, but serve as Guides for discharge of bagasse.

ADJUSTING SET SCREWS

Are large and made of steel, with case hardened points, and are provided with jam nuts, which keep the rolls in position when set. Unlike other Mills, our Adjusting Screws are above the base, where they can be easily reached.

FRAME BOLTS

Our Mills are tied rigidly together with Steel Bolts, with Nuts on bottom, after removing which the Mills may be easily taken apart.

NOTE

We furnish with each Mill a small box containing one Wrench for adjusting Mills, Bolts and Washers for Lever Cap, Bolts and Washers to fasten Mill to foundation, and one Oil Can.