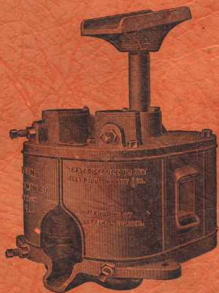


# GOLDEN CANE MILLS EVAPORATORS KETTLES



**GOLDEN  
CANE MILLS  
EVAPORATORS  
✦ KETTLES ✦**

*Handwritten:*  
H. M. F. F. F. F. F.  
H. M. F. F. F. F. F.  
H. M. F. F. F. F. F.  
H. M. F. F. F. F. F.

**CATALOGUE**  
**No. 53**  
**1933**

MANUFACTURED BY  
**GOLDENS' FOUNDRY & MACHINE CO.**  
COLUMBUS, GEORGIA  
U. S. A.

# INDEX

## STANDARD Three-Roller Horse Power Mills

### "The Red Mill"

No.	Horse	Power Required	Size Large Rolls	Size Small Rolls		Diam. Large Roll	Small Rolls	Cap. Gals. Juice Per Hr.	Apx. Net Weight	Price	
				Feed	Discharge						
No. 1	1 Horse	Light	10" x 5 1/2"	4 1/2" x 5"	5 1/2" x 5"	2 1/2"	1 1/2"	35	375	\$45.00	} Pages 5 and 6
No. 2	1 Horse	Heavy	12" x 6 1/2"	5 1/2" x 6"	6 1/2" x 6"	2 1/2"	2 1/2"	45	570	65.00	
No. 3	2 Horse	Light	14" x 7 1/2"	6 1/2" x 7"	7 1/2" x 7"	2 1/2"	2 1/2"	65	770	90.00	
No. 4	2 Horse	Heavy	16" x 8 1/2"	7 1/2" x 8"	8 1/2" x 8"	2 1/2"	2 1/2"	100	1100	130.00	

## LONG BARREL Three-Roller Horse Power Mills—EXTRA HEAVY

### "The Green Mill"

No.	Horse	Power Required	Size Large Rolls	Size Small Rolls		Diam. Journals	Cap. Gals. Juice Per Hr.	Apx. Net Weight	Price	
				Feed	Discharge					
No. 22X	1 Horse	Heavy	12" x 9 1/2"	5 1/2" x 9"	6 1/2" x 9"	2 1/2"	68	750	\$115.00	} Pages 7 and 8
No. 33X	2 Horse	Med.	14" x 10 1/2"	6 1/2" x 10 1/2"	7 1/2" x 10 1/2"	2 1/2"	98	1090	158.00	
No. 44X	2 Horse	Heavy	16" x 12 1/2"	7 1/2" x 12"	8 1/2" x 12"	3 1/2"	150	1530	215.00	

## EXPORT MODEL Three-Roller Horse Power Mills—EXTRA HEAVY

### "The Blue Mill"

No.	Horse	Power Required	Size Large Rolls	Size Small Rolls		Diam. Journals	Cap. Gals. Juice Per Hr.	Apx. Net Weight	Price	
				Feed	Discharge					
No. 22	1 Horse	Heavy	12" x 6 1/2"	5 1/2" x 6 1/2"	6 1/2" x 6 1/2"	2 1/2"	45	685	\$112.00	} Pages 9 and 10
No. 33	2 Horse		14" x 7 1/2"	6 1/2" x 7 1/2"	7 1/2" x 7 1/2"	2 1/2"	65	980	145.00	
No. 44	2 Horse	Heavy	16" x 8 1/2"	7 1/2" x 8 1/2"	8 1/2" x 8 1/2"	3 1/2"	100	1380	195.00	
No. 55	4 Horse		18" x 9 1/2"	8 1/2" x 9 1/2"	9 1/2" x 9 1/2"	3 1/2"	140	1915	234.00	

## STANDARD TWO-Roller Horse Power Mills

### "The Red Mill"

No.	Horse	Power Required	Size of Rolls		Diam. Journals	Cap. Gals. Juice Per Hr.	Apx. Net Weight	Price	
			Long Journal	Short Journal					
No. 12	1 Horse	Heavy	12" x 6 1/2"	12" x 6"	2 1/2"	45	605	\$ 72.00	} Pages 11 and 12
No. 14	2 Horse	Light	14" x 7 1/2"	14" x 7"	2 1/2"	70	835	100.00	
No. 16	2 Horse	Heavy	16" x 8 1/2"	16" x 8"	2 1/2"	100	1160	135.00	

## LONG BARREL Two-Roller Horse Power Mills—EXTRA HEAVY

### "The Green Mill"

No.	Horse	Power Required	Size of Rolls		Diam. Journals	Cap. Gals. Juice Per Hr.	Apx. Net Weight	Price	
			Long Journal	Short Journal					
No. 122X	1 Horse	Heavy	12" x 9 1/2"	12" x 9"	2 1/2"	70	780	\$120.00	} Pages 13 and 14
No. 143X	2 Horse	Med.	14" x 10 1/2"	14" x 10 1/2"	2 1/2"	110	1120	165.00	
No. 164X	2 Horse	Heavy	16" x 12 1/2"	16" x 12"	3 1/2"	155	1550	220.00	
No. 18XX	4 Horse	Light	18" x 13 1/2"	18" x 13 1/2"	3 1/2"	125-175	2200	325.00	
No. 20XX	4 Horse	Med.	20" x 15 1/2"	20" x 15"	4"	150-200	2930	400.00	

## Horizontal Belt Power Three-Roller Cane Mills

Description Pages 18-21—Repair Parts Pages 19-20

No.	H. P. Required	Gals. Juice Per Hour	Tons Cane 12 Hrs.	Size Large Rolls		Size Small Rolls Feed	Discharge	Pulley Inches	Rev. Per Min. of Pulley	Ratio Gear- ing	Apx. Net Weight	Price
				10 to 12	12 to 14							
No. 27	4 to 6	125 to 175	10 to 12	9" x 12 1/2"	5 1/2" x 12 1/2"	6 1/2" x 12 1/2"	24" x 6 1/2"	175	16 to 1	1,650	\$ 275.00	
No. 36	6 to 8	175 to 225	15 to 20	12" x 15 1/2"	7 1/2" x 15"	8 1/2" x 15"	30 x 8 1/2"	145	18 to 1	2,750	425.00	
No. 45	8 to 12	225 to 325	20 to 30	15" x 20 1/2"	9 1/2" x 20"	10 1/2" x 20"	40 x 8 1/2"	135	19 to 1	4,700	750.00	
No. 54	15 to 20	400 to 550	35 to 50	18" x 25 1/2"	11 1/2" x 25"	12 1/2" x 25"	48 x 10 1/2"	125	19 to 1	7,900	1260.00	
No. 63	25 to 30	550 to 650	50 to 60	21" x 30 1/2"	13 1/2" x 30"	14 1/2" x 30"	56 x 12 1/2"	100	20 to 1	13,000	2250.00	
No. 8	Horizontal Horse Power Three-Roller Cane Mills.....											Pages 15 and 16
No. 9												

No. 8 } Horizontal Horse Power Three-Roller Cane Mills.....Pages 15 and 16  
No. 9 }

We have DISCONTINUED Manufacturing the following Horse Power Mills:

Nos. 1X—2X—3X—4X Three Roller	} For Repair Parts, see Pages 47, 48, 49 and 50
Nos. 2XX—3XX—4XX Three-Roller	
Nos. 12X—14X—16X Two-Roller	
Nos. 12XX—14XX—16XX Two-Roller	

	See Page		See Page
Boiler Horse Power Needed for Steam Evaporators	37	Furnace Setting	32
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Bearing Bars for Evaporator Furnace	29	Furnace, Portable Rocker	30
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Evaporator, Golden-Cook	28	Syrup Plants	45, 46
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# 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

N 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.

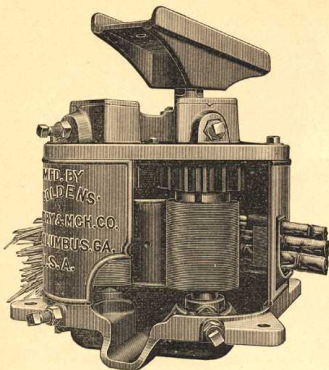
### PANELS

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.



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

### ROLLS

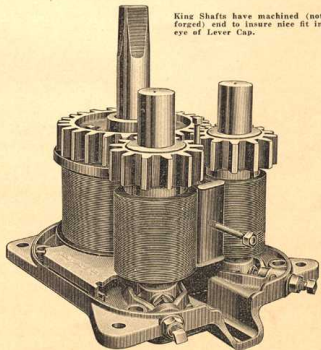
Are machine molded, insuring the best that can be made, and All Rolls have large steel shaft.

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  $\frac{1}{2}$ " smaller in diameter than second small, or 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.





## 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.

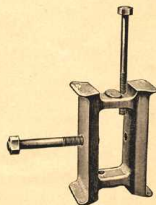
**NOTE:** Where Solid Brass Boxes are used for small roll bearings a square steel nut is cast in box at point where adjusting screw presses, thus preventing spreading of the brass.

## 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.

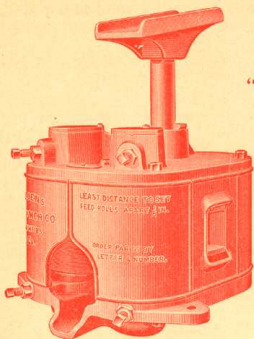
## NOTE

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.

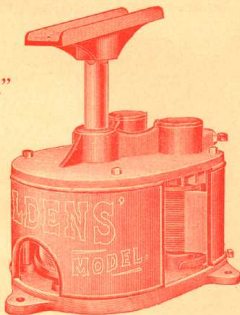
# Goldens' New Model STANDARD Three-Roller Horse Power Cane Mills

(PATENTED)

"The Red Mill"



SHOWING FEED BOX AND DISCHARGE SPOUT



SHOWING BACK AND ROLLS WITH SCRAPER

Moderate Price Mills, which have given excellent service to thousands of users, both domestic and foreign.

## GENERAL CONSTRUCTION—Plain and Strong

Bottom of Mill so designed as to prevent oil from mixing with juice.

Machine Molded Rolls and Gears.

Mills Practically Totally Enclosed, preventing loss of juice.

Feed Box (Patented) keeps juice from running out of Mill.

Guide Knife (New-Patented) prevents choking, and keeps cane from getting out of ends of rolls into Gears or Bottom of Mill.

Steel Journals, Babbitted Bearings, and Steel Set Screws with Jam Nuts so that Rolls can be positively set. Gears separable from Rolls.

## PRICE LIST

SIZE MILL	Apx. Power Required	LARGE ROLL Dia. Lgth.	SMALL ROLLS		Diam. Journals Large Roll	Journals Small Rolls	Cap. Gals. Juice Per Hour	Apx. Net Weight	Apx. Wght. Boxed for Export	Apx. Net Wght. Largest Piece	Price
			Feed Dia. Lgth.	Discharge Dia. Lgth.							
No. 1	1 Horse Light	10" x 5 1/2"	4 1/8" x 5"	5 1/8" x 5"	2 1/2"	1 1/8"	35	375	450	72	\$ 45.00
No. 2	1 Horse Heavy	12 x 6 1/2"	5 1/8" x 6"	6 1/8" x 6"	2 3/8"	2 1/8"	45	570	665	111	65.00
No. 3	2 Horse Light	14 x 7 1/2"	6 1/8" x 7"	7 1/8" x 7"	2 1/2"	2 3/8"	65	770	885	167	90.00
No. 4	2 Horse Heavy	16 x 8 1/2"	7 1/8" x 8"	8 1/8" x 8"	2 1/2"	2 1/2"	100	1100	1235	240	130.00

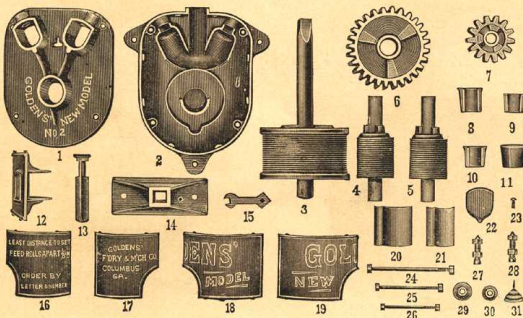
Length of Large Rolls is BETWEEN FLANGES.

For STYLES of Lever Caps, see page 44.

The Capacity of cane mills depends on how they are handled, size of cane to be ground, speed of horse or mule, length of lever, and how fed. As exactness is impossible, we have placed capacity of our mills at about average amount, BUT IT IS NOT GUARANTEED for reasons stated.

## PARTS OF

## Goldens' New Model STANDARD Three-Roller Horse Power Cane Mills



Order by Letters and Numbers and state "for Goldens' New Model STANDARD Three-Roller Mill," giving size also of Mill.

All parts of these Mills have letters and numbers cast on them. Letters indicate size of Mill. Figures indicate the part.

Description of Part	No. 1 Mill		No. 2 Mill		No. 3 Mill		No. 4 Mill	
	Part No.	Price	Part No.	Price	Part No.	Price	Part No.	Price
Top Plate .....	A-1	\$ 5.60	B-1	\$ 8.75	C-1	\$10.85	D-1	\$15.40
Bottom Plate .....	A-2	7.70	B-2	10.85	C-2	13.65	D-2	21.00
Large Roller .....	A-3	16.80	B-3	23.80	C-3	33.60	D-3	49.00
Small Grooved Feed or First Roller .....	A-4	9.80	B-4	13.30	C-4	18.20	D-4	26.60
Small Grooved Second or Discharge Roller .....	A-5	9.80	B-5	13.30	C-5	18.20	D-5	26.60
Large Gear .....	A-6	3.75	B-6	4.90	C-6	6.40	D-6	9.00
Small Gears, each .....	A-7	2.60	B-7	3.35	C-7	4.50	D-7	5.65
Top Box for Large Roller .....	A-8	1.50	B-8	1.70	C-8	2.10	D-8	2.65
Bottom Box for Large Roller .....	A-9	1.70	B-9	1.95	C-9	2.40	D-9	3.00
Top Box for Small Roller .....	A-10	1.30	B-10	1.50	C-10	1.90	D-10	2.40
Bottom Box for Small Roller .....	A-11	2.25	B-11	2.50	C-11	3.00	D-11	3.60
Feed Box .....	A-12	1.90	B-12	2.55	C-12	3.30	D-12	3.75
Guide Knife—as shown in above cut .....	A-13	2.25	B-13	2.50	C-13	2.95	D-13	3.40
Guide Knife (New Style-1928) See Page 4 .....	A-1113	3.00	B-2213	3.85	C-3313	5.50	D-4413	7.15
Lever Cap .....	A-14	3.75	B-14	4.90	C-14	6.40	D-14	8.25
Cast Iron Wrench .....	A-15	.40	B-15	.45	C-15	.45	D-15	.55
Left Hand Front Housing Panel .....	A-16	1.65	B-16	2.40	C-16	3.40	D-16	4.50
Left Hand Back Housing Panel .....	A-17	1.65	B-17	2.40	C-17	3.40	D-17	4.50
Right Hand Back Housing Panel .....	A-18	1.95	B-18	2.70	C-18	3.75	D-18	5.10
Right Hand Front Housing Panel .....	A-19	1.95	B-19	2.70	C-19	3.75	D-19	5.10
Steel Scraper for Large Roller .....	A-20	1.00	B-20	1.20	C-20	1.50	D-20	1.90
Steel Scraper for Small Roller .....	A-21	.75	B-21	.90	C-21	1.20	D-21	1.50
Lids and Nut Screws for Journals .....	A-22 A-23	.40	B-22 B-23	.45	C-22 C-23	.55	D-22 D-23	.60
Bolts for Housing, each .....	A-24	.30	B-24	.40	C-24	.45	D-24	.55
Bolts for Frame Timbers, each .....	A-25	.30	B-25	.30	C-25	.45	D-25	.55
Bolts for Lever Caps, each .....	A-26	.25	B-26	.30	C-26	.40	D-26	.55
Top Set Screws and Jam Nuts, each .....	A-27	.45	B-27	.65	C-27	.65	D-27	1.15
Bottom Set Screws and Jam Nuts, each .....	A-28	.50	B-28	.75	C-28	.85	D-28	1.50
Washers for Frame Timbers, each .....	A-29	.15	B-29	.18	C-29	.20	D-29	.25
Washers for Lever Caps, each .....	A-30	.15	B-30	.18	C-30	.20	D-30	.25
Oil Can .....	A-31	.15	B-31	.15	C-31	.15	D-31	.15

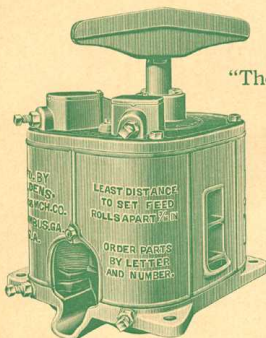


# Goldens' New Model LONG BARREL Three-Roller Horse Power Cane Mills

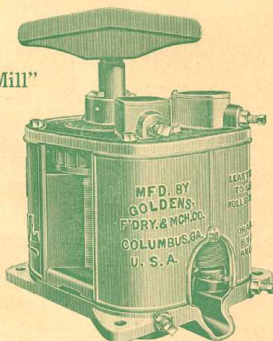
EXTRA HEAVY

(PATENTED)

"The Green Mill"



SHOWING FEED BOX AND DISCHARGE SPOUT



SHOWING STEEL SCRAPER AND DISCHARGE SPOUT

These Mills were designed to meet demand of some of our customers for a "Heavier Mill", especially adapted for Hard Stubble and Tropical Cane.

## GENERAL CONSTRUCTION

They have same general design and patented features of our STANDARD Three-Roller Mills, but in addition they are HEAVIER and STRONGER throughout.

## SPECIAL FEATURES

Rolls are Fifty Per Cent Longer than our Standard Rolls of same diameter.

Extra Large Steel Journals, Same Diameter for All Rolls.

Gears are Bored to fit Shafts, have Wide Faces and are Heavy and Strong.

Boxes are Solid Brass for All Rolls.

Shaft for Large Roll Bossed to Larger Diameter where Roll is cast on.

## PRICE LIST

SIZE MILL	Apx. Power Required	LARGE ROLL		SMALL ROLLS		Diam. Journals All Rolls	Cap. Gals. Juice Per Hour	Apx. Net Weight	Apx. Boxed for Export	Apx. Net Wght. Largest Piece	Price
		Dia.	LGth.	Feed Dia.	Discharge LGth.						
No. 22X...1 Horse Heavy		12"x 9 3/8"	5 5/8" x 9"	6 1/2" x 9"	2 1/4"	2 1/4"	68	750	865	173	\$115.00
No. 33X...2 Horse Medium		14 x 10 1/2"	6 3/8" x 10 1/2"	7 3/8" x 10 1/2"	2 1/2"	2 1/2"	98	1090	1225	267	158.00
No. 44X...2 Horse Heavy		16 x 12 3/8"	7 3/8" x 12"	8 3/8" x 12"	3 1/4"	3 1/4"	150	1530	1700	353	215.00

Length of Large Rolls is BETWEEN FLANGES.

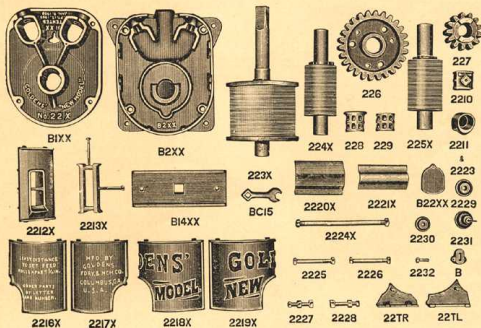
For STYLES of Lever Caps, see page 44.

The Capacity of cane mills depends on how they are handled, size of cane to be ground, speed of horse or mule, length of lever and how fed. As exactness is impossible, we have placed capacity of our mills at about average amount, BUT IT IS NOT GUARANTEED for reasons stated.

## PARTS OF

## Goldens' New Model LONG BARREL Three-Roller Horse Power Cane Mills

## EXTRA HEAVY



Parts in cut are from No. 22X Mill. Parts for 33X and 44X numbered in similar manner. See description and numbers for each mill below.

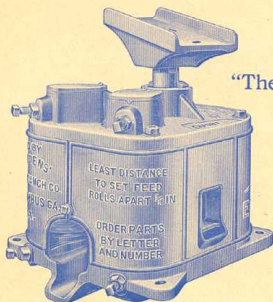
Description of Part	No. 22X Mill		No. 33X Mill		No. 44X Mill	
	Part No.	Price	Part No.	Price	Part No.	Price
Top Plate	B1XX	\$ 9.95	D1XX	\$13.30	D1XX	\$19.10
Bottom Plate	B2XX	12.60	D2XX	18.20	D2XX	27.30
Large Roller	223X	44.00	333X	67.00	443X	89.00
Small Grooved Feed or Front Roller	224X	20.00	334X	32.00	444X	45.00
Small Grooved Second or Discharge Roller	225X	20.00	335X	32.00	445X	45.00
Large Gear	226	7.75	336	11.00	446	15.35
Small Gears, each	227	2.95	337	4.20	447	6.90
Top Box for Large Roller, Brass	228	6.30	338	8.10	448	10.80
Bottom Box for Large Roller, Brass	229	4.50	339	6.30	449	7.20
Top Box for Small Roller, Brass, each	2210	5.80	3310	7.60	4410	9.90
Bottom Box for Small Roller, Brass, each	2211	9.00	3311	11.70	4411	16.20
Feed Box	2212X	3.90	3312X	6.00	4412X	8.10
Guide Knife	2213X	4.60	3313X	6.00	4413X	8.00
Lever Cap	B14XX	9.00	C14XX	11.70	D14XX	16.50
Cast Iron Wrench	B615	.45	B615	.45	D15	.55
Left Hand Front Housing Panel	2216X	4.10	3316X	5.70	4416X	7.30
Left Hand Back Housing Panel	2217X	4.10	3317X	5.70	4417X	7.30
Right Hand Back Housing Panel	2218X	4.50	3318X	6.00	4418X	8.10
Right Hand Front Housing Panel	2219X	4.50	3319X	6.00	4419X	8.10
Steel Scraper for Large Roller	2220X	1.90	3320X	2.25	4420X	2.65
Steel Scraper for Small Roller	2221X	1.50	3321X	1.90	4421X	2.25
Lids with Screws, each	B22XX	.45	C22XX	.55	D22XX	.60
Bolts for Housings, each	2224X	.55	3324X	.60	4424X	.70
Bolts for Frame Timbers, each	2225	.40	3325	.40	4425	.45
Bolts for Lever Cap, each	2226	.40	3326	.45	4426	.50
Top Set Screws and Jam Nuts, each	2227	.65	3327	.65	4427	1.15
Bottom Set Screws and Jam Nuts, each	2228	.75	3328	.85	4428	1.50
Washers for Frame Timbers, each	2229	.18	3329	.20	4429	.20
Washers for Lever Caps, each	2230	.18	3330	.20	4430	.25
Oil Can	2231	.15	3331	.15	4431	.15
Cap Screws for Large Gear, each	2232	.15	3332	.20	4432	.25
Discharge Table, Right Hand	22TR	.70	33TR	.90	44TR	1.25
Discharge Table, Left Hand	22TL	.70	33TL	.90	44TL	1.25
Guide Knife Washer	B		C		D	

# Goldens' EXPORT MODEL Three-Roller Horse Power Cane Mills

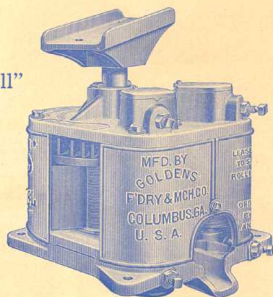
EXTRA HEAVY

(PATENTED)

“The Blue Mill”



SHOWING FRONT OR FEED SIDE



SHOWING DISCHARGE SIDE

These Mills were designed especially for EXPORT use. They are Very Heavy in every particular and will require very few repair parts.

## GENERAL CONSTRUCTION

They have same general design and patented features of our STANDARD Three-Roller Mills, but in addition they are EXTREMELY HEAVY in every respect.

## SPECIAL FEATURES

EXTREMELY HEAVY: All Parts—Top, Bottom, Panels, Lever Cap, Rolls, Boxes, etc., RE-INFORCED.

LARGE ROLL Bored and Pressed on Shaft and Keyed.

JOURNALS LARGE DIAMETER and Same Size on All Rolls.

BRASS BOXES Throughout and Solid.

GEARS EXTRA WIDE FACE and Bored to fit Shafts.

SHAFT for LARGE ROLL Bored to Larger Diameter where Key Seated for Roll fit.

## PRICE LIST

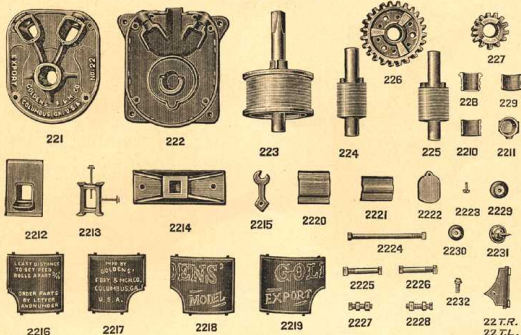
SIZE MILL	Apx. Power Required	LARGE ROLL		SMALL ROLLS		Diam. Journals All Rolls	Cap. Gals. Per Hour	Apx. Juice Net Weight	Apx. Boxed for Largest Export	Apx. Net Weight Pieces	Price
		Dia.	Lgth.	Feed Dia.	Discharge Lgth.						
No. 22...1 Horse Heavy		12" x 6 1/2"		5 1/2" x 6 1/2"		6 1/2" x 6 1/2"	45	685	775	164	\$112.00
No. 33...2 Horse		14 x 7 1/2		6 1/2 x 7 1/2		7 1/2 x 7 1/2	65	980	1085	230	145.00
No. 44...2 Horse Heavy		16 x 8 1/2		7 1/2 x 8 1/2		8 1/2 x 8 1/2	100	1380	1525	325	195.00
No. 55...4 Horse		18 x 9 1/2		8 1/2 x 9 1/2		9 1/2 x 9 1/2	140	1915	2110	455	234.00

Length of Large Rolls is BETWEEN FLANGES.

For STYLES of Lever Caps, see page 44.

The Capacity of cane mills depends on how they are handled, size of cane to be ground, speed of horse or mule, length of lever and how fed. As exactness is impossible, we have placed capacity of our mills at about average amount, BUT IT IS NOT GUARANTEED for reasons stated.

# PARTS OF Goldens' EXPORT MODEL Three-Roller Horse Power Cane Mills EXTRA HEAVY



Parts in cut are from No. 22 Mill. The first two numbers on any part indicate size of Mill and the other numbers following indicate the part itself. For instance the No. 22 top plate is No. 221 and No. 33 top plate is No. 331 and the No. 44 top plate is No. 441, etc.

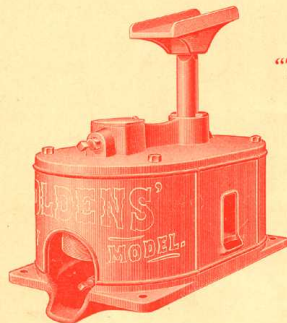
Description of Part	No. 22 Mill		No. 33 Mill		No. 44 Mill		No. 55 Mill	
	Part No.	Price	Part No.	Price	Part No.	Price	Part No.	Price
Top Plate .....	22 1	\$10.15	33 1	\$14.30	44 1	\$21.60	55 1	\$29.25
Bottom Plate .....	22 2	13.00	33 2	20.00	44 2	27.80	55 2	42.25
Large Roller .....	22 3	46.00	33 3	61.00	44 3	100.00	55 3	112.00
Large Roll without Shaft .....		27.00		36.00		60.00		68.00
Shaft and Key for Large Roll .....		19.00		25.00		40.00		44.00
Small Grooved Feed or First Roller .....	22 4	15.00	33 4	22.50	44 4	32.50	55 4	45.00
Small Grooved Second or Discharge Roller .....	22 5	15.00	33 5	22.50	44 5	32.50	55 5	45.00
Large Gear .....	22 6	7.75	33 6	11.00	44 6	15.35	55 6	22.00
Small Gears, each .....	22 7	2.95	33 7	4.20	44 7	6.90	55 7	16.00
Top Box for Large Roller, Brass .....	22 8	6.30	33 8	8.10	44 8	10.80	55 8	12.60
Bottom Box for Large Roller, Brass .....	22 9	4.50	33 9	6.30	44 9	9.20	55 9	9.90
Top Box for Small Rollers, Brass, each .....	22 10	5.80	33 10	7.60	44 10	7.90	55 10	15.30
Bottom Box for Small Roller, Brass, each .....	22 11	9.00	33 11	11.70	44 11	16.20	55 11	22.50
Feed Box .....	22 12	3.10	33 12	4.40	44 12	5.20	55 12	7.00
Guide Knife .....	22 13	3.85	33 13	5.50	44 13	7.15	55 13	11.55
Lever Cap .....	22 14	8.80	33 14	12.00	44 14	16.00	55 14	20.00
Cast Iron Wrench .....	22 15	.45	33 15	.45	44 15	.55	55 15	.55
Left Hand Front Housing Panel .....	22 16	2.65	33 16	3.95	44 16	4.85	55 16	5.50
Left Hand Back Housing Panel .....	22 17	2.65	33 17	3.95	44 17	4.85	55 17	5.50
Right Hand Back Housing Panel .....	22 18	3.40	33 18	4.40	44 18	5.50	55 18	6.40
Right Hand Front Housing Panel .....	22 19	3.40	33 19	4.40	44 19	5.50	55 19	6.40
Steel Scraper for Large Roller .....	22 20	1.20	33 20	1.50	44 20	1.90	55 20	2.30
Steel Scraper for Small Roller .....	22 21	.90	33 21	1.20	44 21	1.50	55 21	1.80
Lids and Nut Screws for Journals, Small Rollers, ea. .....	22 22	1.00	33 22	1.25	44 22	1.50	55 22	2.10
Bolts for Housing, each .....	22 24	.45	33 24	.55	44 24	.60	55 24	.70
Bolts for Frame Timbers, each .....	22 25	.40	33 25	.40	44 25	.45	55 25	.50
Bolts for Lever Caps, each .....	22 26	.40	33 26	.45	44 26	.50	55 26	.50
Top Set Screws and Jam Nuts, each .....	22 27	.65	33 27	.65	44 27	1.15	55 27	1.25
Bottom Set Screws and Jam Nuts, each .....	22 28	.75	33 28	.85	44 28	1.50	55 28	1.60
Washers for Frame Timbers, each .....	22 29	.18	33 29	.20	44 29	.20	55 29	.25
Washers for Lever Caps, each .....	22 30	.18	33 30	.20	44 30	.25	55 30	.25
Oil Can .....	22 31	.15	33 31	.15	44 31	.15	55 31	.15
Cap Screw, large gear, each .....	22 32	.15	33 32	.20	44 32	.25	55 32	.30
Discharge Table, Right Hand .....	22 TR	.70	33 TR	.90	44 TR	1.25	55 TR	2.00
Discharge Table, Left Hand .....	22 TL	.70	33 TL	.90	44 TL	1.25	55 TL	2.00



# Goldens' New Model STANDARD Two-Roller Horse Power Cane Mills

(PATENTED)

**"The Red Mill"**



SHOWING FEED BOX AND DISCHARGE SPOUT



SHOWING DISCHARGE SPOUT AND ADJUSTING SCREWS

These are Moderate Price Mills for which there has been a great demand since they were first placed on the market.

## GENERAL CONSTRUCTION—Plain and Strong

Bottom of Mill so designed as to prevent oil from mixing with juice.

Machine Molded Rolls and Gears.

Mills Practically Totally Enclosed, preventing loss of juice.

Feed Box (Patented) keeps juice from running out of Mill.

Steel Journals, Babbitted Bearings, and Steel Set Screws with Jam Nuts so that Rolls can be positively set. Gears separable from Rolls.

## PRICE LIST

SIZE MILL	Apex. Power Required	Long Journal Roll Dia. Lgth.	Short Journal Roll Dia. Lgth.	Diam. Journals Both Rolls	Cap. Gals. Juice Per Hour	Apex. Net Weight	Apex. Wght. Boxed for Export	Apex. Net Wght. Largest Piece	Price
No. 12....1 Horse Heavy		12"x 6 $\frac{1}{2}$ "	12 $\frac{1}{2}$ "x 6"	2 $\frac{1}{8}$ "	45	605	700	115	\$ 72.00
No. 14....2 Horse Light		14 x 7 $\frac{1}{2}$ "	14 $\frac{1}{2}$ x 7	2 $\frac{1}{2}$ "	70	835	950	165	100.00
No. 16....2 Horse Heavy		16 x 8 $\frac{1}{2}$ "	16 $\frac{1}{2}$ x 8	2 $\frac{3}{8}$ "	100	1160	1295	230	135.00

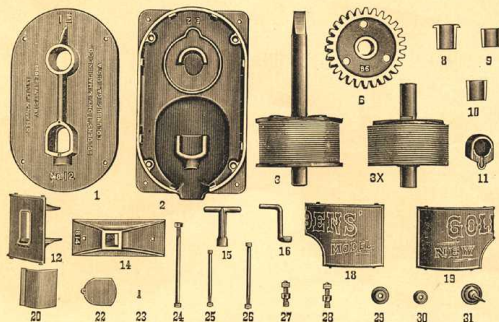
Length of Long Journal Rolls is BETWEEN FLANGES.

For STYLES of Lever Caps, see page 44.

The Capacity of cane mills depends on how they are handled, size of cane to be ground, speed of horse or mule, length of lever, and how fed. As exactness is impossible we have placed capacity of our mills at about average amount, BUT IT IS NOT GUARANTEED for reasons stated.

## PARTS OF

## Goldens' New Model STANDARD Two-Roller Horse Power Cane Mills



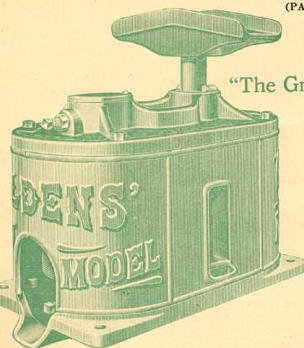
Order by Letters and Numbers and state "for Goldens' New Model STANDARD Two-Roller Mill," giving size also of Mill. All parts of these Mills have letters and numbers cast on them. Letters indicate size of Mill. Figures indicate part.

Description of Part	No. 12 Mill		No. 14 Mill		No. 16 Mill	
	Part No.	Price	Part No.	Price	Part No.	Price
Top Plate .....	E-1	\$ 9.80	F-1	\$13.30	G-1	\$18.90
Bottom Plate .....	E-2	14.00	F-2	18.90	G-2	27.30
Long Journal or King Roller .....	B-3	23.80	C-3	33.60	D-3	49.00
Short Journal Roller .....	E-3	20.30	F-3	28.70	G-3	43.40
Gear for either Roller, each .....	B-6	4.90	C-6	6.40	D-6	9.00
Top Box for Long Journal Roller .....	B-8	1.70	C-8	2.10	D-8	2.65
Bottom Box for Long Journal Roller .....	B-9	1.95	C-9	2.40	D-9	3.00
Top Box for Short Journal Roller .....	E-10	1.65	F-10	2.05	G-10	2.55
Bottom Box for Short Journal Roller .....	E-11	2.65	F-11	3.15	G-11	3.75
Feed Box .....	E-12	3.45	F-12	4.20	G-12	5.10
Lever Cap .....	B-14	4.90	C-14	6.40	D-14	8.25
Cast Iron T Wrench .....	EF-15	.75	EF-15	.75	G-15	1.05
Cast Iron S Wrench .....	EF-16	.50	EF-16	.50	G-16	.75
Front and Back Panels for Housings, each .....	B-18	2.70	C-18	3.75	D-18	5.10
Front and Back Panels for Housings, each .....	B-19	2.70	C-19	3.75	D-19	5.10
Steel Scrapers for either Roller, each .....	B-20	1.20	C-20	1.50	D-20	1.90
Lids with Screws for Short Journal Roller .....	E22 E-23	.55	F-22 F-23	.60	G-22 G-23	.70
Bolts for Housing, each .....	B-24	.40	C-24	.45	D-24	.55
Bolts for Lever Caps, each .....	B-25	.30	C-25	.45	D-25	.55
Bolts for Frame Timbers, each .....	B-26	.30	C-26	.40	D-25	.55
Top Set Screw and Jam Nuts .....	E-27	.65	F-27	.65	G-27	1.15
Bottom Set Screw and Jam Nuts .....	E-28	.65	F-28	.65	G-28	1.15
Washers for Frame Timbers, each .....	B-29	.18	C-29	.20	D-29	.25
Washers for Lever Cap, each .....	B-30	.18	C-30	.20	D-30	.25
Oil Can .....	B-31	.15	C-31	.15	D-31	.15

# Goldens' New Model LONG BARREL Two-Roller Horse Power Cane Mills

EXTRA HEAVY  
(PATENTED)

"The Green Mill"



SHOWING FEED BOX AND DISCHARGE  
SPOUT



SHOWING STEEL SCRAPER AND DISCHARGE  
SPOUT

These Mills have same general design and patented features of our STANDARD Two-Roller Mills, but in addition they are **HEAVIER** and **STRONGER** throughout.

## SPECIAL FEATURES

Rolls are Fifty Per Cent Longer than our Standard Rolls of same diameter.

Extra Large Steel Journals.

Gears are Bored to fit Shafts, have Wide Faces and are Heavy and Strong.

Boxes are Solid Brass for Long Journal Roll—For Short Journal Roll Cast Iron  
Boxes with Heavy Brass Liners are furnished.

Shafts for Both Rolls Bossed to Larger Diameter where Rolls are cast on.

## PRICE LIST

PRICE LIST									
SIZE MILL	Apx. Power Required	Long Journal Roll Dia. Lgth.	Short Journal Roll Dia. Lgth.	Diam. Journals Both Rolls	Cap. Gals. Juice Per Hour	Apx. Net Weight	Apx. Wght. Boxed for Export	Apx. Net Wght. Largest Piece	Price
No. 122X...	1 Horse Heavy	12"x 9 5/8"	12 5/8"x 9"	2 1/4"	70	780	895	172	\$120.00
No. 143X...	2 Horse Medium	14 x 10 1/4"	14 5/8 x 10 1/4	2 1/4"	110	1120	1255	269	165.00
No. 164X...	2 Horse Heavy	16 x 12 5/8"	16 5/8 x 12	3 1/8"	155	1550	1720	353	220.00
No. 18XX...	4 Horse Light	18 x 13 1/4"	18 5/8 x 13 1/4	3 3/8"	125-175	2200	2475	445	325.00
No. 20XX...	4 Horse Medium	20 x 15 5/8"	20 5/8 x 15	4"	150-200	2930	3330	610	400.00

Length of Long Journal Rolls is BETWEEN FLANGES.

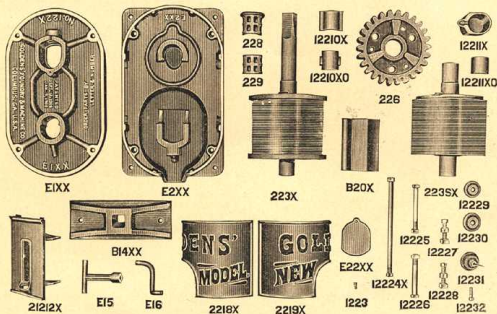
For STYLES of Lever Caps, see page 44.

The Capacity of cane mills depends on how they are handled, size of cane to be ground, speed of horse or mule, length of lever, and how fed. As exactness is impossible, we have placed capacity of our mills at about average amount, BUT IT IS NOT GUARANTEED for reasons stated.

## PARTS OF

## Goldens' New Model LONG BARREL Two-Roller Horse Power Cane Mills

## EXTRA HEAVY



Parts in cut are for No. 122X Mill. Parts for other sizes are indicated in table below.

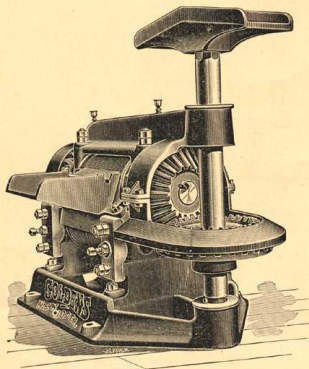
Description of Part	No. 122X Mill		No. 143X Mill		No. 164X Mill		No. 18XX Mill		No. 20XX Mill	
	Part No.	Price	Part No.	Price	Part No.	Price	Part No.	Price	Part No.	Price
Top Plate .....	E1XX	\$13.25	F1XX	\$19.25	G1XX	\$26.60	J1XX	\$36.40	K1XX	\$47.60
Bottom Plate .....	E2XX	16.50	F2XX	22.40	G2XX	33.60	J2XX	53.20	K2XX	57.40
Long Journal or King Roller .....	223X	44.00	333X	67.00	443X	89.00	J3XX	98.00	K3XX	126.00
Short Journal Roller .....	223SX	39.00	333SX	60.00	443SX	80.00	J3SX	84.00	K3SX	105.00
Gear for either Roller, each .....	226	7.75	336	11.00	446	15.35	J6XX	13.50	K6XX	17.65
Brass Top Box for Long Journal Roller .....	228	6.30	338	8.10	448	10.80	H8XX	24.30	I8XX	26.55
Brass Bottom Box for Short Journal Roller .....	229	4.50	339	6.30	449	7.20	H9XX	16.20	I9XX	20.70
Cast Iron Top Box for Short Journal Roller .....	12210X	.65	14310X	.90	16410X	1.40	J10XX	3.00	K10XX	4.50
Top Brass for Short Journal fits C. I. Box .....	12210X	3.00	14310XO	4.00	16410XO	7.50	J10XXO	6.30	K10XXO	7.65
C. I. Bottom Box for Short Journal Roller .....	12211X	1.60	14311X	1.85	16411X	2.30	J11XX	4.90	K11XX	6.00
Bottom Brass for Short Journal fits C. I. Box .....	12211XO	3.00	14311XO	4.00	16411XO	7.50	J11XXO	6.30	K11XXO	7.65
Feed Box .....	21212X	6.60	31412X	9.00	41612X	15.60	J12X	7.80	K12X	9.90
Lever Cap .....	B14XX	9.00	C14XX	11.70	D14XX	16.50	J14XX	15.75	K14XX	21.00
Cast Iron T Wrench .....	EF15	.75	EF15	.75	G15	1.05	J15	1.25	K15	1.50
Cast Iron S Wrench .....	EF16	.50	EF16	.50	G16	.75	J16	1.00	K16	1.25
Front and Back Panels for Housings, each .....	2218X	4.50	3318X	6.00	4418X	8.10	H18X	12.60	I18X	15.90
Front and Back Panels for Housings, each .....	2219X	4.50	3319X	6.00	4419X	8.10	H19X	12.60	I19X	15.90
Steel Scrapers for either Roller, each .....	B20X	1.90	C20X	2.25	D20X	2.65	J20X	2.75	K20X	2.85
Lids with Screws, each .....	E22XX	.25	F22XX	.30	G22XX	.40	J22XX	.90	K22XX	1.15
Bolts for Housings, each .....	12224X	.55	14324X	.60	16424X	.70		.75		.90
Bolts for Lever Cap, each .....	12225	.40	14325	.45	16425	.55		.60		.75
Bolts for Frame Timbers, each .....	12226	.40	14326	.45	16426	.55		.70		.85
Top Set Screw and Jam Nuts .....	12227	.65	14327	.65	16427	1.15		1.85		2.75
Bottom Set Screw and Jam Nuts .....	12228	.65	14328	.65	16428	1.15		1.85		2.75
Washers for Frame Timbers, each .....	12229	.15	14329	.20	16429	.25		.30		.40
Washers for Lever Cap, each .....	12230	.15	14330	.20	16430	.25		.30		.40
Oil Can .....	12231	.15	14331	.15	16431	.15		.15		.15
Cap Screw for Gear, each .....	12232	.15	14332	.20	16432	.25		.30		.35
Collar for Geared Mill .....								.65		.70



## GOLDENS' NEW MODEL

## Self-Contained Three-Roller Horizontal Horse Power Cane Mills

(PATENTED)



The Horizontal Belt Power Cane Mills of any size are conceded to be superior to the Vertical Style Mills of that size as it is possible to make a more rigid Mill with finer and more positive adjustments in the Horizontal Mill than in the Vertical Mill.

Our New Model Belt Power Cane Mills of different sizes have been designed and patented to supply the demands for this style of Mills, and where the Mills can be run by belts are preferable. There is, however, a demand for Horizontal Mills to be run by Horse Power, and in our New Model Self-Contained Horizontal Horse Power Mills we can supply this demand.

The Rolls, as in our Belt Power Mills, are held in rigid housings, with adjustable boxes for journals. The housings are mounted on a heavy bed plate with a ribbed extension containing a babbitted bearing for driving shaft journals.

The upper end of the shaft is supported by a yoke which attaches both top boxes for roll and shaft bearings in one rigid piece, which piece is firmly bolted to the housing.

The rolls are driven by bevel Gears, with a proportion of one and one-half to one, which gives a faster surface speed of rolls, than where the driving shaft is attached direct to roll as in Vertical Mills, thus giving a greater production for the same size and length of rolls, with the same speed of horse.

All parts having bearings are machined, where necessary, as in the case of our regular Belt Power Mills. Our New Style of Feed Box is used, with guard to prevent juice from being wasted from above, and a guard below to prevent the juice from squirting out, also the reversible guide knife and the discharge chute with scrapers for rolls and provision for leading juice back into the mill, as in our Horizontal Belt Power Mills. This juice is usually lost by running out with bagasse in other makes of mills. The Feed Box and Discharge Chute are reversible. These, in fact, are our No. 27 and 36 Horizontal Belt Power Mills, adapted to run by Horse Power.

While it might be possible, for a short time, to feed a Vertical Mill fast enough to obtain the same production as on a Horizontal Mill, with the same surface speed the average man would feed much more cane in a day to the Horizontal Mill, and with the rolls geared one and one-half to one, produce a much greater quantity of juice than is possible in the same size Vertical Mill.

As in our other NEW MODEL Cane Mills, these Mills have been thoroughly tested before putting them on the market, and we feel confident that they will prove entirely satisfactory to those wanting and buying these Mills.

## PRICE LIST

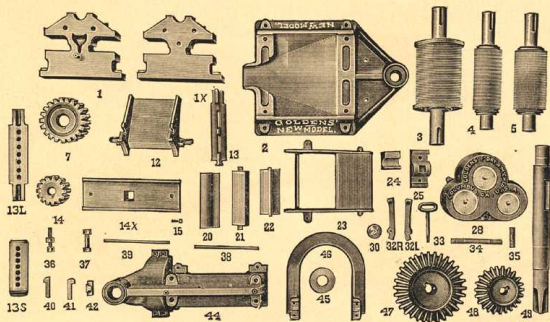
SIZE MILL.	Apx. Power Required	LARGE ROLL Dia. Lgth.	SMALL ROLLS		Cap. Gals. Juice Per Hour	Apx. Net Weight	Apx. Boxed for Export	Apx. Net Wght. Largest Piece	Price
			Feed Dia. Lgth.	Discharge Dia. Lgth.					
No. 8.....2 Horse Extra Heavy	.....	9"x12½"	5½"x12½"	6½"x12½"	.....125.....	1350.....	1650.....	205.....	\$203.00
No. 9.....2 Horse Extra Heavy	.....	12 x15½"	7½" x15	8¾" x15	.....175.....	2370.....	2870.....	335.....	356.00

For STYLES of Lever Caps, see page 44.

The Capacity of cane mills depends on how they are handled, size of cane to be ground, speed of horse or mule, length of lever, and how fed. As exactness is impossible, we have placed capacity of our mills at about average amount, but IT IS NOT GUARANTEED for reasons stated.

# PARTS OF GOLDENS' NEW MODEL

## Self-Contained Three-Roller Horizontal Horse Power Cane Mills



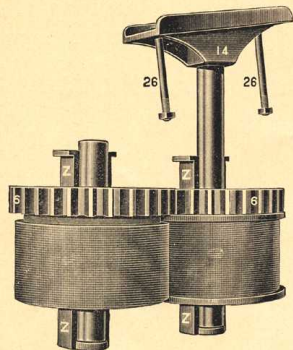
Order by Letters and Numbers and state "for Golden's NEW MODEL Self-Contained Three-Roller Horizontal Horse Power Cane Mill."

All parts of these Mills have letters and numbers cast on them. Letters indicate size of Mill. Figures indicate part.

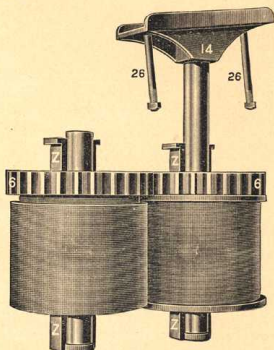
Description of Part	No. 8 Mill		No. 9 Mill		Description of Part	No. 8 Mill		No. 9 Mill	
	Part No.	Price	Part No.	Price		Part No.	Price	Part No.	Price
R. H. Housing .....	PA-1	\$26.45	PB-1	\$35.55	L. H. Adj. Lever for Small				
L. H. Housing .....	PA-1X	26.45	PB-1X	35.55	Roll Scraper .....	PA-32L	\$ .80	PB-32L	\$ .95
Base .....	HA-2	42.65	HB-2	73.50	Guide Knife Handle .....	PA-33	1.60	PB-33	2.35
Large Roll .....	PA-3	44.10	PB-3	72.75	Vertical Frame Stud, four				
First Small Roll .....	PA-4	29.40	PB-4	56.45	pieces, each .....	PA-34	.95	PB-34	1.25
Second Small Roll .....	PA-5	29.40	PB-5	56.45	Horizontal Frame Stud,				
Large Roll Plain Spur Gear..	PA-7	11.05	PB-7	16.55	eight pieces, each .....	PA-35	.95	PB-35	1.25
Feed Box .....	PA-12	9.45	PB-12	14.95	Adj. Set Screw for Small				
Guide Knife .....	PA-13	3.00	PB-13	4.30	Rolls, four pieces, each ..	PA-36	.85	PB-36	1.10
Guide Knife for No. 8 Mill					Bolts for attaching housing				
only, used since 1921 .....	PA-13L	4.00			to base, four pieces, each..	PA-37	.95	PB-37	1.25
Guide Knife Shim No. 9 Mill					Large Roll Scraper Rod .....	PA-38	.80	PB-38	1.10
to fit on Reg. Guide Knife..			PB-13S	2.00	Small Roll Scraper Rod .....	PA-39	.80	PB-39	1.10
Small Roll Gear, two pieces,					Special Gib Key for Large				
each .....	PA-14	7.55	PB-14	11.00	Roll Spur Gear .....	PA-40	3.15	PB-40	3.95
Lever Cap .....	C-14	6.40	D-14XX	16.50	Special Gib Key for Small				
Adj. Screw for Scraper Lev-					Roll Spur Gear .....	PA-41	2.35	PB-41	3.15
er, two pieces, each .....	PA-15	.30	PB-15	.65	Turn Plate Bar .....	PA-42	.65	PB-42	.80
Large Roll Scraper .....	PA-20	2.35	PB-20	3.15	Top Bearing and Caps Com-				
Small Roll Scraper .....	PA-21	1.60	PB-21	2.35	bined .....	HA-44	37.80	HB-44	64.60
Movable Juice Guard .....	PA-22	2.35	PB-22	2.85	Cover for Top and Bottom				
Bagasse Discharge Chute ..	PA-23	11.35	PB-23	15.10	Bearings of Upright Shaft,				
Small Roll Journal Box, four					two pieces, each .....	HA-45	1.60	HB-45	2.70
pieces, each .....	PA-24	2.85	PB-24	3.45	Bevel Gear and Pinion Cover	HA-46	3.95	HB-46	6.70
Side Housing Cap, four					Large Bevel Gear (Specify				
pieces, each .....	PA-25	3.60	PB-25	4.10	number teeth wanted) .....	HA-47	20.50	HB-47	35.45
Triple Gear Guard .....	PA-28	9.45	PB-28	15.25	Small Bevel Gear (Specify				
Oil Can .....	PA-30	.15	PB-30	.15	number teeth wanted) .....	HA-48	13.40	HB-48	22.85
R. H. Adj. Lever for Small					Upright Shaft .....	HA-49	18.90	HB-49	32.30
Roll Scraper .....	PA-32R	.80	PB-32R	.95					

# Goldens' Two-Roller Horse Power Cane Mills

WITHOUT FRAMES



STANDARD Mill Without Frame



LONG BARREL Mill Without Frame

## PRICE LIST

### STANDARD Two-Roller Cane Mills Without Frames

	SIZE OF ROLLS		Style of Lever Cap	Size of Journals	Weight of Two Rolls with Cap, Gear and Boxes	Price
	Long Journal	Short Journal				
No. 24.....	12" x 6 $\frac{1}{8}$ "	12 $\frac{1}{8}$ " x 6"	No. 1	2 $\frac{7}{8}$ "	365	\$45.00
No. 28.....	14 x 7 $\frac{7}{8}$ "	14 $\frac{1}{8}$ x 7	No. 2	2 $\frac{1}{4}$ "	475	69.00
No. 32.....	16 x 8 $\frac{7}{8}$ "	16 $\frac{1}{8}$ x 8	No. 2	2 $\frac{1}{2}$ "	650	90.00

### LONG BARREL Two-Roller Cane Mills Without Frames

	SIZE OF ROLLS		Style of Lever Cap	Size of Journals	Weight of Two Rolls with Cap, Gear and Boxes	Price
	Long Journal	Short Journal				
No. 37XX.....	18" x 13 $\frac{1}{2}$ "	18 $\frac{1}{8}$ " x 13 $\frac{1}{2}$ "	No. 2	3 $\frac{3}{4}$ "	1220	\$187.50
No. 40XX.....	20 x 15 $\frac{1}{8}$ "	20 $\frac{1}{8}$ x 15	No. 2	4"	1725	262.50

Boxes are always shipped with above Mills.

The Top and Bottom Boxes for Rolls for this style of Mill have Square Sides and Back for the purpose of adjusting with wooden wedges as used in the old style wooden framing.

Box Z-1 is Top Box of Long or Short Roll of No. 24 Mill. Z-2 is Bottom Box for same.

Box Z-3 is Top Box of Long or Short Roll of No. 28 Mill. Z-4 is Bottom Box for same.


Box Z-5 is Top Box of Long or Short Roll of No. 32 Mill. Z-6 is Bottom Box for same.

Box Z-7 is Top Box of Long or Short Roll of No. 37XX Mill. 3 $\frac{3}{4}$ " before 1915. Z-8 is Bottom Box for same. 3 $\frac{3}{4}$ " before 1915.

Box Z-9 is Top Box of Long or Short Roll of No. 40XX Mill. 3 $\frac{3}{4}$ " before 1915. Z-10 is Bottom Box for same. 3 $\frac{3}{4}$ " before 1915.

Box Z-11 is Top Box of Long or Short Roll of 37XX Mill since 1915. Z-12 is Bottom Box for same.

Box Z-13 is Top Box of Long or Short Roll of 40XX Mill since 1915. Z-14 is Bottom Box for same.

 These Mills are fitted with Steel Shafts, and Boxes are lined with Anti-Friction Metal. Gears are separate from Rollers.

# **Goldens' NEW MODEL Horizontal Belt Power Three-Roller Cane Mills**

**SELF-CONTAINED, WITH SELF-OILING BEARINGS**

**(PATENTED)**

The Mill is extra heavy and is designed somewhat after the lines of large mills used in sugar manufacturing plants. The smallest size mill has an approximate capacity of 150 gallons per hour, while the largest has an approximate capacity of 600, and require approximately, 5, 7, 10, 20, and 30 H. P. for the five sizes.

## **BED PLATE**

The Bed Plate is massive and supports the housings, rolls, gears, driving pulleys, etc., and is machined where housings rest on it, making a rigid, self-contained mill, which once set up ready for running at our shops, remains so and can be shipped anywhere and started up without the trouble usually experienced where the mill and driving gear have separate supports. One heretofore objectionable feature in other power mills has been the exposed gearing, making them wear fast, and dangerous to operate. This feature we remedy by using a system of gearing enclosed in gear covers, except the large gear, which being an internal gear makes its own guard besides making a close, compact and safe mill to operate.

## **HOUSINGS OR UPRIGHTS**

Are heavy and machined top and bottom, and also the roll journal caps are machined to fit housings. They are tied with horizontal and vertical bolts.

## **ROLLS**

The Rolls are relatively longer than in other mills with the same diameter rolls, thus giving greater capacity. The large roll shell is extra heavy with extra large journals resting in babbitted boxes or bearings, while the small rolls are solid, with extra large journals in babbitted bearings. All the rolls are grooved, and their journal boxes have horizontal screw adjustment. The first small roll can be adjusted to give any opening desired from  $\frac{1}{4}$ " up to  $\frac{1}{2}$ " between the first feed roll and the large roll, there always being  $\frac{1}{4}$ " opening when roll driving gears are in proper position, as the first small roll is approximately  $\frac{1}{4}$ " smaller in diameter than the pitch circle of its driving gear. The second small roll is approximately the same diameter as the pitch circle of the gear driving roll, and is always screwed tightly against the face of the large roll. This arrangement brings the gear in proper working position when feed roll is set out from large roll.

## **REVERSIBLE FEED**

By changing the position of the first and second small rolls, and changing feed box discharge chute to opposite sides, the mill may be fed from opposite side, thus enabling operator to put mill in any desired position, and avoiding using crossed belt for driving.

## **GUIDE KNIFE OR TURNPLATE**

The Guide Knife is self-adjusting whichever side the mill is fed from without regard to the adjustment of the rolls, and can be removed through gear teeth by removing gear cover, moving back small gear, screwing handle into knife and drawing out. To remove the plate in the other mills it can only be done by taking off main roll caps and lifting large roll, gear and shaft from housings, requiring considerable power and time.

## **FEED BOX**

A great deal of juice is usually lost in power mills by squirting outside of mill, above and below feed box. Our new feed box saves the juice heretofore lost by a self-adjusting guard in the top of the box in combination with a projection on the bottom of box, making it practically impossible for the juice to get outside of mill.

## **DISCHARGE CHUTE**

Our New Sheet Steel Scraper is attached to the top of the discharge chute, to clean the large roll, while another scraper is attached to the bottom, cleaning second small roll, this scraper being furnished with a screw adjustment for firm contact, and also leads escaping juice from discharge chute back into trough of mill.

## **SELF-OILING DEVICES**

The adjustable journal boxes are supplied with oil from top of housings by brass oil cups with wicking through tubes, while the journals for large roll and pulley and pinion shaft journal are supplied with wick oiling caps of large capacity. This self-oiling arrangement for cane mills is a new feature, not used on other mills.

## **GEARING**

We use the involute style of gearing, with ample width of face for the power required throughout; this style being especially adapted for transmission where the rolls which gear drive need to be adjusted, as in the first feed roll. All gearing and driving pulley is keyed to shafts.

## **SET SCREWS**

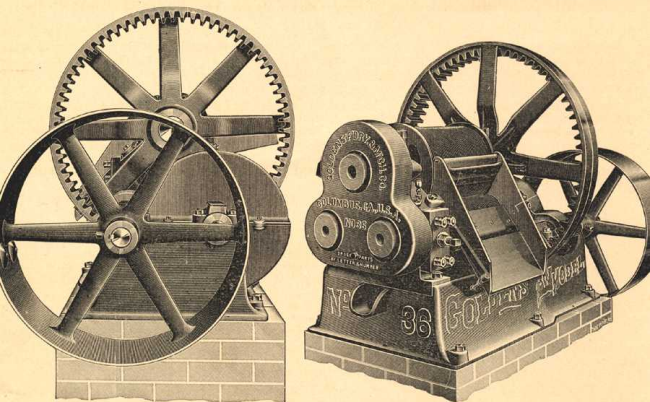
Are large and made of steel, with case hardened point and jam nuts, which hold the rolls in positive position.

## **MACHINED SURFACES**

All surfaces that have bearings on other surfaces are machined, where necessary.

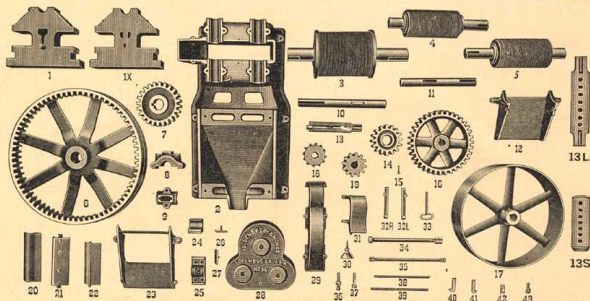


# Goldens' NEW MODEL Horizontal Belt Power Three-Roller Cane Mills



END VIEWS—SHOWING GEARS GUARDED

## PARTS OF Goldens' NEW MODEL Horizontal Belt Power Three-Roller Cane Mills



Order by Letters and Numbers and state "for Goldens' NEW MODEL Horizontal Belt Power Three-Roller Mill," giving size also of Mill. Letters indicate size of Mill. Figures indicate part. See page 20 for prices.

# Goldens' NEW MODEL Horizontal Belt Power Three-Roller Cane Mills

SIZE MILL.	Horse Power Required	Gallons of Juice Per Hour		Tons Cane 12 Hours	Diam. of Rolls			Lgth of Rolls		Size of Dbl. Belt Pulley	Rev. Per Minute of Pulley	Ratio of Gearing	Appx. Net Weight	Price
					Large	Feed	Small Dis.	Large	Small					
No. 27	4 to 6	125 to 175	10 to 12	9"	5 1/2"	6 1/2"	12 1/2"	12 1/2"	24" x 6 1/2"	175	16 to 1	1,650	\$ 275.00	
No. 36	6 to 8	175 to 225	15 to 20	12	7 1/2"	8 1/2"	15 1/2"	15	30 x 8 1/2"	145	18 to 1	2,750	425.00	
No. 45	8 to 12	225 to 325	20 to 30	15	9 1/2"	10 1/2"	20 1/2"	20	40 x 8 1/2"	135	19 to 1	4,700	750.00	
No. 54	15 to 20	400 to 500	35 to 50	18	11 1/2"	12 1/2"	25 1/2"	25	48 x 10 1/2"	125	19 to 1	7,900	1260.00	
No. 63	25 to 30	500 to 600	50 to 60	21	13 1/2"	14 1/2"	30 1/2"	30	56 x 12 1/2"	100	20 to 1	13,000	2250.00	

NOTES: We recommend larger of Horse Power Indicated for Mill. Capacities based on Ribbon Cane. Speeds as given are advised. If Mills are run faster much juice is liable to be carried off with bagasse.

## PARTS OF

# Goldens' NEW MODEL Horizontal Belt Power Three-Roller Cane Mills

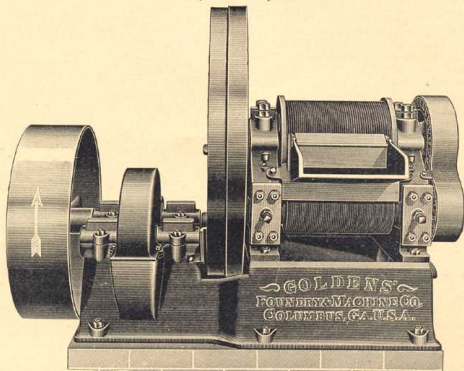
(See cuts on opposite page)

Description of Part	No. 27 Mill		No. 36 Mill		No. 45 Mill		No. 54 Mill		No. 63 Mill	
	Part No.	Price	Part No.	Price	Part No.	Price	Part No.	Price	Part No.	Price
R. H. Housing	PA-1	\$26.45	PB-1	\$35.55	PC-1	\$	60.00	PD-1	\$	99.00
L. H. Housing	PA-1X	26.45	PB-1X	35.55	PC-1X	60.00	PD-1X	99.00	PE-1X	192.00
Base	PA-2	70.55	PB-2	110.95	PC-2	165.65	PD-2	252.00	PE-2	379.00
Large Roll	PA-3	44.10	PB-3	72.75	PC-3	138.20	PD-3	235.20	PE-3	399.85
First Small Roll	PA-4	29.40	PB-4	56.45	PC-4	108.80	PD-4	191.10	PE-4	338.10
Second Small Roll	PA-5	29.40	PB-5	56.45	PC-5	108.80	PD-5	191.10	PE-5	338.10
Internal Gear	PA-6	58.30	PB-6	90.25	PC-6	156.70	PD-6	232.30	PE-6	371.70
Large Roll Plain Spur Gear	PA-7	11.05	PB-7	16.55	PC-7	27.95	PD-7	47.25	PE-7	78.75
Cap for Large Roll, two pieces, each	PA-8	6.30	PB-8	7.85	PC-8	11.50	PD-8	24.80	PE-8	47.50
Cap for Bed Plate Housing, four pieces, each	PA-9	3.30	PB-9	4.25	PC-9	5.90	PD-9	11.70	PE-9	19.00
Pulley Shaft with two Keys	PA-10	7.10	PB-10	8.65	PC-10	11.00	PD-10	13.55	PE-10	16.70
Pinion Shaft with two Keys	PA-11	7.10	PB-11	7.85	PC-11	10.25	PD-11	14.50	PE-11	20.50
Feed Box	PA-12	9.45	PB-12	14.95	PC-12	20.95	PD-12	33.40	PE-12	53.55
Guide Knife	PA-13	3.00	PB-13	4.30	PC-13	6.60	PD-13	14.15	PE-13	30.45
Guide Knife for No. 27 Mill only, used since 1921	PA-13L	4.00								
Guide Knife Shim for Nos. 36, 45, 54, 63 to fit on Regular Guide Knife			PB-13S	2.00	PC-13S	3.50	PD-13S	7.00	PE-13S	10.00
Small Roll Gear, two pieces, each	PA-14	7.55	PB-14	11.00	PC-14	17.30	PD-14	25.20	PE-14	36.55
Adjusting Screw for Scraper Lever	PA-15	.30	PB-15	.65	PC-15	.95	PD-15	1.25	PE-15	1.75
Spur Gear on Pinion Shaft	PA-16	15.75	PB-16	21.25	PC-16	29.30	PD-16	54.35	PE-16	100.55
Driving Pulley	PA-17	18.90	PB-17	29.90	PC-17	49.45	PD-17	72.45	PE-17	105.90
Double Shrouded Pinion	PA-18	7.85	PB-18	12.30	PC-18	16.70	PD-18	26.80	PE-18	42.50
Single Shrouded Pinion	PA-19	7.55	PB-19	10.70	PC-19	15.15	PD-19	22.85	PE-19	34.50
Large Roll Scraper	PA-20	2.35	PB-20	3.15	PC-20	4.75	PD-20	7.10	PE-20	10.65
Small Roll Scraper	PA-21	1.60	PB-21	2.35	PC-21	3.95	PD-21	6.30	PE-21	10.10
Movable Juice Guard	PA-22	2.35	PB-22	2.85	PC-22	5.20	PD-22	15.45	PE-22	45.90
Bagasse Discharge Chute	PA-23	11.35	PB-23	15.10	PC-23	21.10	PD-23	32.45	PE-23	49.60
Small Roll Journal Box, four pieces, each	PA-24	2.85	PB-24	3.45	PC-24	7.70	PD-24	15.00	PE-24	32.50
Side Housing Cap, four pieces, each	PA-25	3.60	PB-25	4.10	PC-25	6.00	PD-25	9.45	PE-25	15.15
Oil Cover for Large Roll Cap, two pieces, each	PA-26	.30	PB-26	.65	PC-26	.95	PD-26	1.25	PE-26	1.75
Oil Cover for Bed Plate, four pieces, each	PA-27	.30	PB-27	.65	PC-27	.95	PD-27	1.25	PE-27	1.75
Triple Gear Guard	PA-28	9.45	PB-28	15.25	PC-28	22.05	PD-28	41.90	PE-28	79.55
Double Gear Guard	PA-29	12.60	PB-29	13.55	PC-29	20.15	PD-29	34.25	PE-29	58.30
Oil Can	PA-30	.15	PB-30	.15	PC-30	.15	PD-30	.15	PE-30	.15
Gear Guard for Internal Gear and Pinion	PA-31	2.70	PB-31	3.15	PC-31	3.95	PD-31	6.30	PE-31	10.10
R. H. Adj. Lever for Small Roll Scraper	PA-32R	.80	PB-32R	.95	PC-32R	1.10	PD-32R	1.25	PE-32R	1.50
L. H. Adj. Lever for Small Roll Scraper	PA-32L	.80	PB-32L	.95	PC-32L	1.10	PD-32L	1.25	PE-32L	1.50
Guide Knife Handle	PA-33	1.60	PB-33	2.35	PC-33	3.60	PD-33	5.50	PE-33	8.35
Vertical Frame Bolts or Studs, 4 pieces, each	PA-34	.95	PB-34	1.25	PC-34	1.90	PD-34	2.50	PE-34	3.40
Horizontal Frame Bolts or Studs, 4 pieces, each	PA-35	.95	PB-35	1.25	PC-35	1.75	PD-35	2.05	PE-35	2.35
Adj. Set Screws for Small Rolls, 4 pieces, each	PA-36	.85	PB-36	1.10	PC-36	1.65	PD-36	3.25	PE-36	4.50
Stud Bolts for att'ch'g housing to base, 4 pcs. ea.	PA-37	.95	PB-37	1.25	PC-37	1.60	PD-37	1.90	PE-37	2.20
Large Roll Scraper Rod	PA-38	.80	PB-38	1.10	PC-38	1.60	PD-38	2.05	PE-38	2.35
Small Roll Scraper Rod	PA-39	.80	PB-39	1.10	PC-39	1.60	PD-39	2.05	PE-39	2.35
Special Gib Key for Large Roll Spur Gear	PA-40	3.15	PB-40	3.95	PC-40	5.50	PD-40	7.90	PE-40	11.25
Special Gib Key for Small Roll Spur Gear	PA-41	2.35	PB-41	3.15	PC-41	4.40	PD-41	6.30	PE-41	9.05
Turn Plate Bar	PA-42	.65	PB-42	.80	PC-42	.95	PD-42	1.25	PE-42	1.75
Stud for Bed Plate Cap, eight pieces, each	PA-43	.95	PB-43	1.10	PC-43	1.60	PD-43	2.35	PE-43	3.55
Extra Pieces Not Numbered, Being Standard:										
Brass Oil Cups, each		.80		.80		1.10		1.25		1.50
Cap Bolts for Feed and Discharge Boxes, each		.50		.65		.80		1.10		1.50
Cap Bolts for Triple Gear Guard, each		.30		.50		.65		.95		1.45
Cap Bolts for Internal Gear Guard, each		.30		.50		.65		.95		1.45
Cap Bolts for Double Gear Guard, each		.30		.50		.65		.95		1.45
Cap Bolts for Triple Gear Guard, each		.80		.95		1.20		1.45		1.75

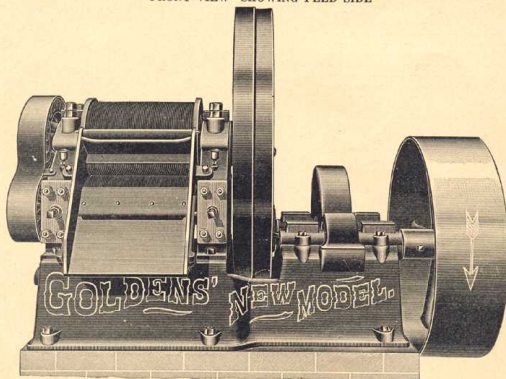
\* PLEASE NOTE: All No. 45 Mills sold during 1930 and later have PC-7N Gear in place of PC-7 and PC-14N Gears in place of PC-14.

# Goldens' NEW MODEL Horizontal Belt Power Three-Roller Cane Mills

SELF-CONTAINED, WITH SELF-OILING BEARINGS  
(PATENTED)



FRONT VIEW—SHOWING FEED SIDE



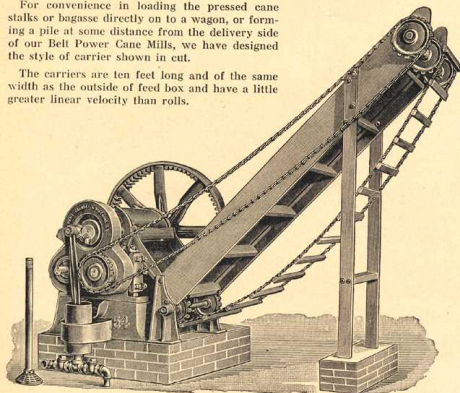
REAR VIEW—SHOWING DISCHARGE SIDE

## BAGASSE CARRIER

FOR BELT POWER CANE MILLS

For convenience in loading the pressed cane stalks or bagasse directly on to a wagon, or forming a pile at some distance from the delivery side of our Belt Power Cane Mills, we have designed the style of carrier shown in cut.

The carriers are ten feet long and of the same width as the outside of feed box and have a little greater linear velocity than rolls.



Our Standard No. 27 and No. 36 Mills are not made with small Roller Shaft extended for sprocket for driving Bagasse Carrier, as Mills being small we think Bagasse Carriers are not needed.

For customers wishing No. 27 or 36 Mill made special with shaft extended, we are willing to make same.

**Net Prices to be Added to Price of Mill.**

For extending small shaft,  
No. 27 Mill .....\$4.50  
For extending small shaft,  
No. 36 Mill ..... 5.25  
Extra charge for drive sprocket if wanted.

### LIST PRICES OF BAGASSE CARRIERS

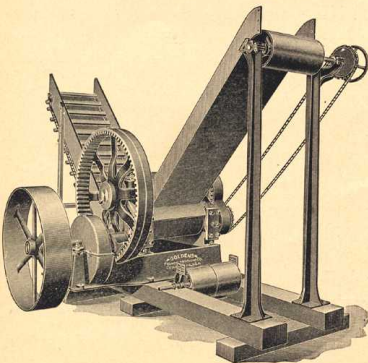
(Including driving sprocket and chain.)

10' Carrier complete for	
No. 27 Mill .....	\$135.00
10' Carrier complete for	
No. 36 Mill .....	167.00
10' Bagasse Carrier complete for No. 45 Mill....	200.00
10' Bagasse Carrier complete for No. 54 Mill....	230.00
10' Bagasse Carrier complete for No. 63 Mill....	287.00
Iron Trough Feed Carrier for No. 63 Mill as below without belt....	625.00

## No. 63 MILL

Price, page 20. Price does not include Feed Carrier and Bagasse Carrier shown in cut. For Price on these see above.

Having had calls for a larger mill than our No. 54, we have gotten up patterns for our No. 63 Mill shown on this page. This mill is made in the same way and of the same design as our Nos. 27, 36, 45 and 54, which are described on pages 18 and 21 inclusive.

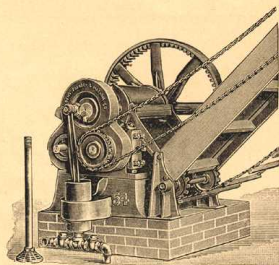




## Goldens' Single Acting Juice Pump, for Belt Power Cane Mills

When furnished with Mill, Pump and Mill connected as shown. Pump can be attached to old mills, by drilling 2 holes in mill base, drilling gear, and cutting gear cover and spout.

Number of Mill	Apx. Cap. Gals. Juice Per Hour	Juice Pump Fitted on Mill List Price	Weight
27.....	175.....	\$ 52.00.....	65 lbs.
36.....	225.....	68.00.....	105 lbs.
45.....	325.....	94.00.....	170 lbs.
54.....	500.....	120.00.....	220 lbs.
63.....	600.....	180.00.....	360 lbs.

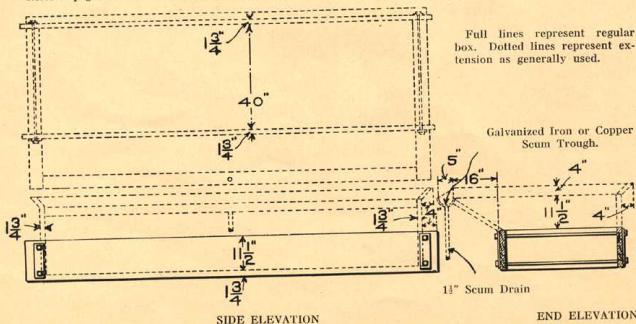


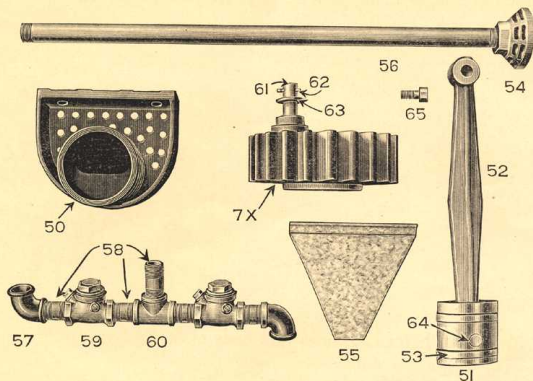
## Method of Extending Sides and Ends of Steam Evaporators

In order to use our Steam Evaporators for making syrup, it is necessary to extend sides and ends of boxes, so that when juice is boiled down from 8 or 10 to 1, cubical contents, the finished product will cover the steam pipes.

Due to the fact that there is such a difference of opinion among users as to how these boxes should be built up, and also for convenience in shipping, we have decided that it is best to let each individual user build up the box that we furnish as he thinks best. As a guide, however, to those who have had no experience in this line, we show below a diagram illustrating how the sides and ends of our standard box may be built up for use.

Refer to pages 33 to 37 for detailed description and prices of Steam Evaporators.





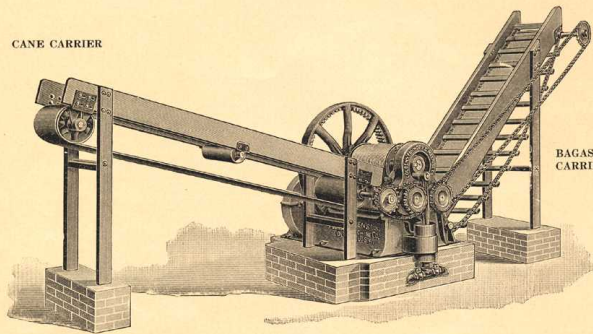
## PARTS OF

# Golden's Single Acting Juice Pump, for Belt Power Cane Mills

Number of Cut	Name of Piece	LIST PRICE OF PARTS				
		No. 27 Pump	No. 36 Pump	No. 45 Pump	No. 54 Pump	No. 63 Pump
7X	Special Gear .....	\$13.50	\$19.50	\$32.00	\$52.00	\$84.00
50	Pump Cylinder .....	11.00	19.60	29.70	42.00	63.30
51	Piston Head .....	10.00	11.20	18.40	22.40	27.50
52	Connecting Rod .....	6.20	8.80	10.60	15.80	20.60
53	Ring, two pieces, each .....	2.90	3.70	4.50	5.50	6.60
54	Foot Strainer .....	2.00	3.00	4.00	6.00	9.00
55	Drip Plate .....	.55	.70	.85	1.10	1.30
56	Long Nipple .....	2.80	3.50	4.20	4.20	5.60
57	Elbow, two pieces, each .....	.20	.40	1.00	1.40	1.75
58	Short Nipple, five pieces, each .....	.40	.55	.70	.85	1.00
59	Check Valve, two pieces, each .....	4.20	5.60	7.60	10.70	23.80
60	Tee .....	.50	.85	1.25	1.80	2.10
61	Rod Stud .....	5.20	8.40	9.50	13.30	18.00
62	Cotter Pin .....	.05	.05	.05	.05	.05
63	Washer .....	.05	.06	.07	.08	.09
64	Piston Pin .....	2.50	2.65	3.40	3.90	4.20
65	Cap Screw, two pieces, each .....	.10	.10	.15	.15	.20

CANE CARRIER

BAGASSE CARRIER



**Mill Fitted With Cane Carrier, Bagasse Carrier and Juice Pump**

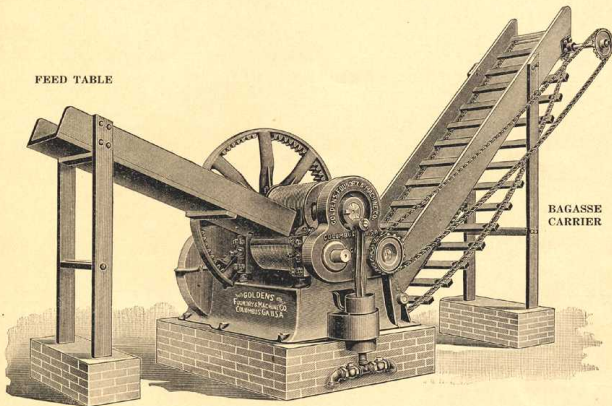
For Prices of Mills, see page .....	20
For prices of Bagasse Carriers, see page .....	22
For prices of Juice Pumps, see pages .....	23-24

**LIST PRICES OF CANE CARRIERS WITHOUT BELT**

No. 27 .....	\$60.00
No. 36 .....	68.00
No. 45 .....	76.00
No. 54 .....	84.00
No. 63 .....	92.00

Cane Carrier can be made Flat instead of as shown above. See diagram on page 27.

FEED TABLE

BAGASSE  
CARRIER

## Mill Fitted With Feed Table, Bagasse Carrier and Juice Pump

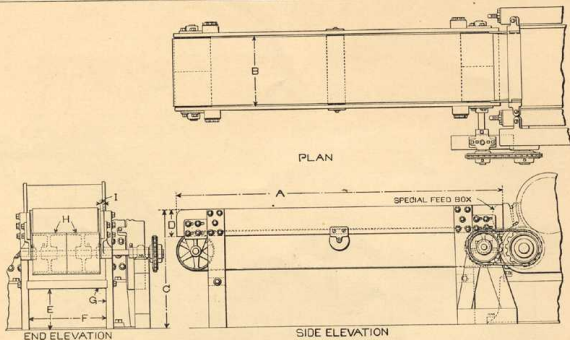
For prices of Mills, see page.....	20
For prices of Bagasse Carriers, see page.....	22
For prices of Juice Pumps, see pages.....	23-24

### LIST PRICES OF FEED TABLES

No. 27 .....	\$18.00
No. 36 .....	21.00
No. 45 .....	24.00
No. 54 .....	28.00
No. 63 .....	32.00

See diagram of Feed Table on page 27.

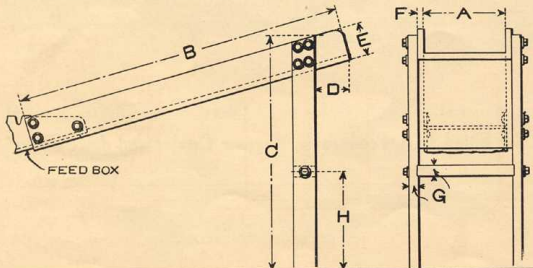




GENERAL DIMENSIONS OF POWER CANE MILL, CANE CARRIER  
(Customer can build wood work, and we will furnish iron work, if desired.)

No. of Mill	A	B	C	D	E	F	G	H	I
27	10' 0"	10 $\frac{1}{2}$ "	23 $\frac{1}{2}$ "	6"	6"	13 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "	1- 8 x 10 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "
36	10 0	13 $\frac{1}{2}$ "	28 $\frac{1}{2}$ "	7 $\frac{1}{2}$ "	9 $\frac{1}{2}$ "	16 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "	2- 8 x 6 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "
45	10 0	18 $\frac{1}{2}$ "	31 $\frac{1}{2}$ "	7 $\frac{1}{2}$ "	10 $\frac{1}{2}$ "	21 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "	2- 10 x 9	1 $\frac{1}{2}$ "
54	10 0	24	36 $\frac{1}{2}$ "	7 $\frac{1}{2}$ "	12	26 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "	2- 12 x 11 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "
63	10 0	29	40	7 $\frac{1}{2}$ "	15	31 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "	2- 12 x 14	1 $\frac{1}{2}$ "

For List Prices of Cane Carriers, Without Belt, see page 25.



GENERAL DIMENSIONS OF POWER CANE MILL, FEED TABLE

No. of Mill	A	B	C	D	E	F	G	H
27	10 $\frac{1}{2}$ "	54"	36 $\frac{1}{2}$ "	6"	5 $\frac{1}{2}$ "	1"	1 $\frac{1}{2}$ "	16"
36	13 $\frac{1}{2}$ "	57"	40 $\frac{1}{2}$ "	6 $\frac{1}{2}$ "	6"	1"	1 $\frac{1}{2}$ "	17 $\frac{1}{2}$ "
45	19 $\frac{1}{2}$ "	60"	49"	7"	7"	1 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "	18"
54	24 $\frac{1}{2}$ "	60"	53 $\frac{1}{2}$ "	7"	7 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "	22"
63	29 $\frac{1}{2}$ "	60"	51"	7"	8"	1 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "	22"

For List Prices of Feed Tables see page 26.

# GOLDEN-COOK EVAPORATORS

MADE OF GALVANIZED IRON OR COPPER  
(PATENTED)



The Golden-Cook Evaporator, while similar to the Cook model in general, is better and stronger, and is not equaled by any on the market. Price of Golden-Cook Evaporators net per foot as per discount sheet.

GENERAL DATA					No. and Approximate Weight of Slats Necessary to Strip in Accordance with Consolidated Freight Classification.	
No.	Size in Inches	Capacity, Gallons Syrup per 12 hr. Day	Weight Copper Pans	Weight Galvanized Pans	Number	Weight
2	44 x 72	35 to 50	74	62	14	23 lbs.
3	44 x 90	50 to 75	84	78	17	30 lbs.
4	44 x 108	65 to 100	100	92	20	33 lbs.
5	44 x 126	80 to 125	118	109	23	38 lbs.
6	44 x 144	100 to 175	135	128	26	42 lbs.
7	44 x 180	125 to 200	170	150	32	51 lbs.

Weight of Slats to be added to Weight of Pan when Necessary to put them on.

Note—With each Copper Evaporator is furnished two Copper Skimmers, and with each Galvanized Evaporator is furnished two Tin Skimmers.

If Evaporator is ordered and kind of metal not specified we always ship Galvanized Evaporator.

The ordinary style Cook Evaporator is made with 18" sections, with a length equal to the width of pan, and one section is connected to another by simply turning the top of one section over another as shown in Figure 1.

Three rods are generally used to tie pan together, without regard to length of pan, one rod in center near a joint as in Figure 1, and one at each end, none of which rods support the sections, which have a tendency to sag in the middle, the whole making a cheap as well as poor construction.

In the Golden-Cook Patented Evaporator (see cut above) the patented connection is constructed as shown in Figure 2. A, being one section to be connected to section C, by clip or thimble D, as shown connected at B.

The rod E supports both sections and clip, passing through side of pan as shown in Figure 3, and in connection with clip or thimble D, between wooden sides of pan, holds pan rigidly at top, while the bottom of pan is securely nailed to side in the usual manner, as shown in Figure 3.

In addition to making a stronger, neater joint at the joining of all sections EVERY section has a tie rod, as well as rods at each end of pan.

This gives a much stiffer, more durable pan in all sizes than the old pans, being proportionately stiffer as length of pan increases.



FIG. 1  
OLD STYLE  
CONNECTION

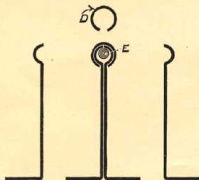


FIG. 2  
GOLDEN'S PATENTED CONNECTION

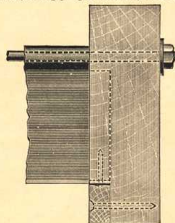


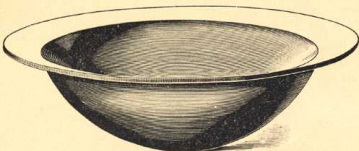
FIG. 3



Showing Cross-Section of Pan

While most other manufacturers bend the sections by hand, our sections are made entirely by machinery, which gives a better and more uniform pan throughout. Instead of being bolted together at each end and the middle only, our pans have a rod bolt at the joint of all sections (18 inches apart) as well as rod bolts at each end of pan.

# KETTLES



New York Pattern

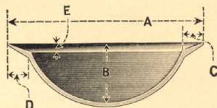
## PRICE LIST OF KETTLES

No.	Capacity	Weight	Price
00	20 Gallons	110	\$10.00
0	30 Gallons	120	12.00
1	40 Gallons	160	16.00
1½	50 Gallons	240	20.00
2	60 Gallons	290	24.00
3	80 Gallons	380	32.00
4	100 Gallons	420	40.00
5	150 Gallons	700	60.00
6	200 Gallons	1040	90.00

Note—Weights are approximate.

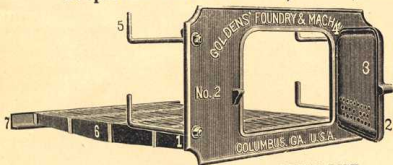
Our Kettles are of the New York Pattern, and are good, smooth and sound Castings, and hold full capacity in gallons as listed.

## GENERAL DIMENSIONS



Capacity	A	B	C	D	E
20 Gallons	2' 10½"	12"	3¼"	3"	1½"
30 Gallons	3	13½	4	3	1½
40 Gallons	3	14½	4½	3½	1½
50 Gallons	4	14½	4½	3½	1½
60 Gallons	4	15½	4½	3½	1½
80 Gallons	4	16½	4½	3½	1½
100 Gallons	5	17½	5	4	1½
150 Gallons	5	21½	5½	5½	1½
200 Gallons	6	24	5½	4½	2½

## Evaporator Furnace Fronts, Grates, Bearing Bar and Anchors



With No. 1 Front use No. 2 or No. 3 Evaporator

With No. 2 Front use No. 4 or No. 5 Evaporator

With No. 3 Front use No. 6 or No. 7 Evaporator

## PRICE LIST

No.	Size of Fronts Height Length	Size of Door Opening Height Length	Size of Grates Width Length	No. of Bars	Total Weight	Price Complete with Grate Bars	Price Complete without Grate Bars
1	15" 26½"	10" 12"	20" 30"	5	180	\$21.00	\$11.25
2	16" 30½"	11" 15"	24" 36"	6	245	28.50	13.50
3	18" 35½"	12" 18"	28" 42"	7	343	40.50	18.00

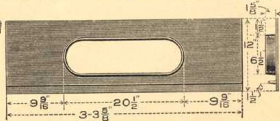
## EVAPORATOR GRATE BARS

## BACK PLATE (With Collar for Pipe)



## PRICE LIST

Length	Width	Depth	Openings	Weight	Price
30"	4"	2½"	¾"	21	\$2.50
36	4	2½	¾	26	3.10
42	4	2½	¾	32	3.90

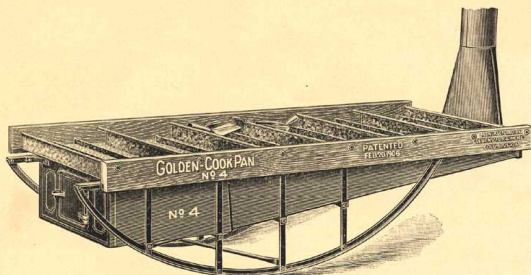


Price, \$4.90

Weight 40 pounds

## PORTABLE ROCKER FURNACES

This cut represents Evaporator Pan on Furnace merely to show its completeness, but they are priced separately.



### LIST PRICES OF FURNACES WITH GRATE AND CHIMNEY—NO PAN

No.	Size of Pan	Weight	List Price
2	44 ins. x 72 ins.	200 lbs.	\$35.00
3	44 ins. x 90 ins.	215 lbs.	40.00
4	44 ins. x 108 ins.	225 lbs.	45.00
5	44 ins. x 126 ins.	250 lbs.	55.00
6	44 ins. x 144 ins.	260 lbs.	60.00
7	44 ins. x 180 ins.	325 lbs.	80.00

The practical utility of the Rocker Furnace has long been recognized, hence a lengthy description is unnecessary.

### FOR SETTING UP AND OPERATING ROCKER FURNACES

The rockers should be set in trenches so the furnace will be steady.

Preferably, the furnace should be set level; although it may be inclined very slightly towards the chimney-end—barely enough to cause the juice to flow very slowly.

A Rocker Furnace should be lined inside with brick on edge all the way up to the top of the furnace. Care should be taken to have the top of the Furnace smooth along both sides. A very thick lining of clay mortar (preferably fire-clay) may be used, but it is unsafe and not usually satisfactory.

Sand, fire-clay or ashes should be spread over bottom of furnace all the way up to the stack so as to prevent excessive heat from burning or warping it.

Sprinkle ashes or fine sand all along the sides and across each end of furnace, about one-half inch deep, or sufficiently so the Evaporator Pan will embed itself into it and thus make a tight joint, thereby conserving heat and preventing it from damaging the wooden sides of Pan, causing leakage.

Give plenty of draught so fire will burn briskly.



## STANDARD GRATE BARS



Width 2½ in.

No. 8—TWO FINGER BAR

Opening ⅝ in.



Width 6 in.

No. 9—FIVE FINGER BAR

Openings ⅝ in.



Width 6 in.

No. 10—FISH-GILL BAR

Openings ⅞ in.

## PRICE LIST OF STANDARD GRATE BARS

### No. 8—TWO FINGER BARS

Length	Width	Depth	Openings	Wt.	Price	Length	Width	Depth	Openings	Wt.	Price
3 ft. 0 in.....	2½ in.	4½ in.	⅝ in.	38	\$3.50	5 ft. 0 in.....	2½ in.	5 in.	⅝ in.	71	\$6.50
3 ft. 6 in.....	2½ in.	4½ in.	⅝ in.	41	3.75	5 ft. 6 in.....	2½ in.	5½ in.	⅝ in.	83	7.50
4 ft. 0 in.....	2½ in.	4½ in.	⅝ in.	52	4.65	6 ft. 0 in.....	2½ in.	6 in.	⅝ in.	101	9.10
4 ft. 6 in.....	2½ in.	4½ in.	⅝ in.	60	5.00						

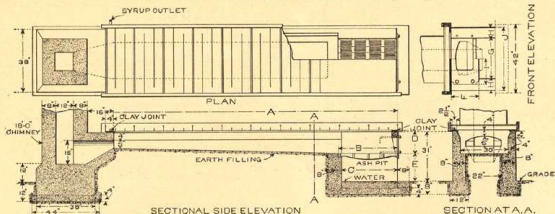
### No. 9—FIVE FINGER BARS

Length	Width	Depth	Openings	Wt.	Price	Length	Width	Depth	Openings	Wt.	Price
2 ft. 6 in.....	6 in.	5 in.	⅝ in.	54	\$5.00	4 ft. 6 in.....	6 in.	5 in.	⅝ in.	99	\$ 9.00
3 ft. 0 in.....	6 in.	5 in.	⅝ in.	63	5.75	5 ft. 0 in.....	6 in.	5 in.	⅝ in.	112	10.00
3 ft. 6 in.....	6 in.	5 in.	⅝ in.	68	6.15	6 ft. 0 in.....	6 in.	5 in.	⅝ in.	146	13.00
4 ft. 0 in.....	6 in.	5 in.	⅝ in.	84	7.60						

### No. 10—FISH-GILL BARS

Length	Width	Depth	Openings	Wt.	Price	Length	Width	Depth	Openings	Wt.	Price
2 ft. 6 in.....	6 in.	5 in.	⅞ in.	56	\$5.00	4 ft. 6 in.....	6 in.	5½ in.	⅞ in.	108	\$ 9.75
3 ft. 0 in.....	6 in.	5 in.	⅞ in.	67	6.00	5 ft. 0 in.....	6 in.	6 in.	⅞ in.	121	11.00
3 ft. 4 in.....	6 in.	5 in.	⅞ in.	80	7.25	5 ft. 6 in.....	6 in.	6½ in.	⅞ in.	135	12.15
3 ft. 6 in.....	6 in.	5 in.	⅞ in.	84	7.60	6 ft. 0 in.....	6 in.	6½ in.	⅞ in.	153	13.80
4 ft. 0 in.....	6 in.	5½ in.	⅞ in.	96	8.65						

## DIAGRAM OF FURNACE SETTING



GENERAL DIMENSIONS FOR GOLDEN-COOK EVAPORATOR, FURNACE SETTINGS.

Number of Pan	Size of Pan	Furnace Front Used	A	B	C	D	E	F	G	H	I	J
2	44" x 72"	No. 1	72"	30"	28"	13 1/2"	18 1/2"	15"	22"	8"	13 1/2"	38"
3	44" x 90"	No. 1	90"	30"	28"	13 1/2"	18 1/2"	15"	22"	8"	13 1/2"	38"
4	44" x 108"	No. 2	108"	36"	34"	14 1/2"	17 1/2"	16 1/2"	26"	6 1/2"	15 1/2"	39"
5	44" x 126"	No. 2	126"	36"	34"	14 1/2"	17 1/2"	16 1/2"	26"	6 1/2"	15 1/2"	39"
6	44" x 144"	No. 3	144"	42"	40"	16"	18"	18"	30"	4"	17 1/2"	38"
7	44" x 180"	No. 3	180"	42"	40"	16"	18"	18"	30"	4"	17 1/2"	38"

## GENERAL DIRECTIONS FOR FURNACE SETTINGS, AND THE PROCESS OF MAKING CANE SYRUP.

Locate brick or concrete settings for stationary pans so that front or furnace end faces prevailing winds.

The chimney should be 18 to 20 feet high for the longest pans, and may be proportionately lower for shorter pans. Set pan on walls right side up and level from side to side with water.

The end of pan receiving juice should be at front end of furnace, the end delivering syrup at chimney end.

The pan should have a slight pitch lengthwise, the front end of pan being slightly lower than the rear end, so as to fill the first channel about two-thirds full of water, when the last channel at outlet is barely covered.

Wedges should be used at the chimney end to give pitch to pan, then using wedges as a guide finish top of wall with mortar, using a clay joint between mortar and pan, to exclude smoke or ashes from pan.

Juice from settling tank to pan should be strained through cloth, or fine mesh wire, somewhat finer than ordinary window screen, and tank should be located high enough to allow juice to run to pan by gravity, the quantity of juice to pan being regulated by a faucet.

In the continuous process, first put enough water in pan, to protect same, until water boils all over pan, then slightly open faucet of juice tank, and outlet of pan, letting juice follow water at such rate of flow, that syrup of desired quality, will come from outlet continuously; the syrup should be kept as shallow as possible at the outlet end.

When cooking properly the juice in its travel becomes so thick as to practically fill the pan with foam, but if the supply at inlet and outlet is kept right, by faucet gates, and outlet plug, with uniform heat, the quality and quantity of syrup should remain constant.

Care should be taken to avoid flooding any of the channels in pan by too sudden changes of gates, as this makes dark colored poor syrup.

Do not let syrup at outlet get too low without a supply following it, as it is apt to burn or make dark syrup.

The fire should be kept hot and regular to keep the operation continuous, it also keeps scum and juice from mixing, and throws scum to side of pan where it can be removed.

Unless pan is sheltered from wind, evaporation will be retarded and syrup will take longer to finish.

Ash pit should be filled with water.

Any dents in pan can be removed by using a flat headed wooden mallet, with a smooth flat piece of wood beneath to hammer on.

In stopping operations for the day, water should follow juice until juice has been reduced to syrup, then wash pan and fill with clean water, and let it stand over night, using it to start with the next morning, as already described. Clean all pans, skimmers, etc., and renew straw or hay used for filtering in juice tank each night.

To insure success, you should use fresh juice, sour juice may be used but it makes poor syrup.

The most important point in syrup making, is the keeping of a shallow depth of juice, and a steady high heat continuously, this will keep the scum and impurities thrown to sides of pan, and as juice boils more rapidly when shallow, the syrup will be of lighter color, and better grade.

Should the syrup become cooked before reaching the last channel it is because of improper regulation of juice flow, too much heat at center of pan, or improper pitch of pan (the same general directions apply to rocker furnaces, as to setting for stationary pan).

Should green scum follow syrup through pan it may be caused by changing the inclination of rocker furnace too suddenly or lack of a hot steady fire.

If back end of pan floods, close faucet, lower front or juice inlet end so there will be but little syrup or juice in last channel, make a hot fire under pan, and when syrup comes right, adjust furnace as before trouble started.

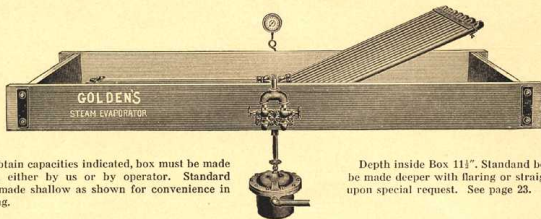
When syrup is cooking properly green scum will form in first channels, gradually becoming lighter in color and less in quantity as it flows through channels, until it disappears.

Do not skim until scum is thick.

The rapidity of the process of cooking the syrup requires careful constant attention to produce a satisfactory grade of syrup. A Baume hydrometer should be used to get a uniform grade of syrup, ordinarily it should read from 32 degrees to 35 degrees. (The hot syrup will show 2 degrees to 3 degrees lower than when cold). Syrup from some cane shows a tendency to turn to sugar sooner than from other cane, so that the proper degree to boil syrup to, should be determined low enough so it will not sugar.

# GOLDENS' IMPROVED STEAM EVAPORATOR No. 1

TWO SECTIONS  
1" GALVANIZED PIPE



To obtain capacities indicated, box must be made higher, either by us or by operator. Standard boxes made shallow as shown for convenience in shipping.

Depth inside Box 11½". Standard boxes can be made deeper with flaring or straight sides upon special request. See page 23.

Where an Evaporator of greater capacity than the one shown on the following page is desired, we make an Evaporator composed of two sections, each section being independent of the other; section located 5" on center of trunnions. With this style of Evaporator the operator can boil a part of the juice if he so desires, or all of it at one time. This style Evaporator can be made up in any length by using two standard sections. Each section includes the fittings given for a single section. This Evaporator should be used with the Collector shown in cut and described on page 38.



## Price List of Two 1 Inch Single Pipe Sections as Shown Above

AND  
PRICE AND SIZE OF POPLAR EVAPORATOR BOX

Size of Box	Capacity Gals. Syrup Per Hour	Holds Two Sections of Pipe	Price of Poplar Evaporator Box only	Length of each Section	Price of Two Pipe Sections Complete without Evaporator Box	Price of Two Pipe Sections Complete with Extra Valves and Evaporator Box	Price of Two Pipe Sections Complete with Extra Valves and Evaporator Box. Bottom Lined with Galvanized Iron	Price of Two Pipe Sections Complete with Extra Valves and Evaporator Box. Bottom Lined with Copper.
9' x 44"	10	4' 0" Each	\$ 67.50	4' 0"	\$129.00	\$207.00	\$228.00	\$273.00
11 x 44	12	5 0 "	82.50	5 0 "	133.00	225.75	251.25	305.25
13 x 44	15	6 0 "	97.50	6 0 "	136.50	244.50	274.50	339.00
15 x 44	17	7 0 "	112.50	7 0 "	141.00	264.00	298.50	372.00

Add for Collector and Fittings, if wanted..... \$67.50

Add for Steam Gage and Fittings, if wanted..... 10.50

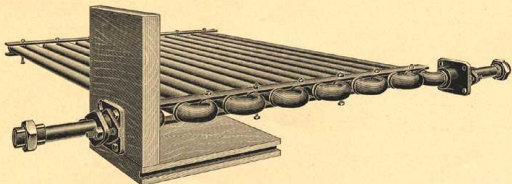
Add for Saccharometer, if wanted..... 3.00

### OPERATION OF No. 1 STEAM EVAPORATOR

The regulation of heat in this Evaporator is effected by control of the steam at the inlet, and by opening the valves wider or closing them, more or less heat can be obtained. The piping of this Evaporator is connected with plain return bends, and the steam that is admitted at the inlet traverses the entire length of each pipe of the section. When first starting up the Evaporator it is well to turn in just enough steam to heat the juice without boiling for when the juice becomes heated the scum rises to the top, and if it is not allowed to boil the scum can be easily removed with skimmers, which we furnish with the Evaporator. After all the scum has been removed then turn on steam sufficient to boil the juice as much as necessary. One advantage the Steam Evaporator has over old style fired Evaporator, is there is no danger of burning or scorching the juice as long as pipes are well covered. Should this occur it ruins the syrup.

# Section of Goldens' Improved Steam Evaporator No. 1

1" GALVANIZED PIPE



Cut A

The above cut shows a section for our No. 1 Steam Evaporator, composed of 1" Galvanized Iron Pipe and Fittings.

These sections are made up in lengths of 4', 5', 6', 7', 8', 10', 12' and 14', all 39½" wide to elbows that bear against stuffing boxes.

In this style Evaporator connections are made for inlet and outlet for waste pipe or collector and for inlet valves to control steam.

The following articles compose a section, 14 pieces, 1" Galvanized Pipe, 13—1" Galvanized Return Bends, 2—1" Galvanized Elbows, 2—1" Unions, 2—1" Nipples 7½" long, 2 Stuffing Boxes with Glands and Studs, 4 Galvanized Iron Straps and Bolts, and 8—½"x2" Lag Screws.



## Price List of One 1 Inch Single Pipe Section as Shown Above

AND

### PRICE AND SIZE OF POPLAR EVAPORATOR BOX

Size of Box	Capacity Gals. Syrup Per Hour	Holds Standard Section of Pipe	Price of Poplar Evaporator Box only	Length of Section	Price of Pipe Section Complete without Evaporator Box	Price of Pipe Section with Extra Valves and Evaporator Box.	Price of Pipe Section Complete with Extra Valves and Evaporator Box, Bottom Lined with Galvanized Iron	Price of Pipe Section Complete with Extra Valves and Evaporator Box, Bottom Lined with Copper
5' x 44"	5	4' 0"	\$ 37.50	4' 0"	\$ 64.50	\$106.50	\$118.50	\$141.00
6 x 44	6	5 0	45.00	5 0	66.50	116.00	129.50	158.00
7 x 44	7½	6 0	52.50	6 0	68.25	125.25	141.00	174.75
8 x 44	8½	7 0	60.00	7 0	70.50	135.00	153.00	192.00
9 x 44	10	8 0	67.50	8 0	72.75	144.75	165.75	210.75
11 x 44	12	10 0	82.50	10 0	78.00	165.00	190.50	244.50
13 x 44	15	12 0	97.50	12 0	84.00	186.00	216.00	280.50
15 x 44	17	14 0	112.50	14 0	90.00	207.00	241.50	315.00

Add for Collector and Fittings, if wanted.....\$67.50

Add for Steam Gage and Fittings, if wanted..... 10.50

Add for Saccharometer, if wanted..... 3.00

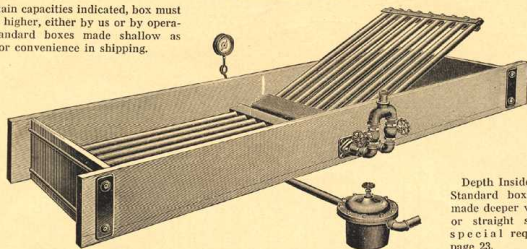
The above price list includes the straps, bolts, lag screws, pipe, return bends, elbows, nipples, unions, and stuffing boxes complete, as shown in Cut A. These sections are used in making Steam Evaporators containing one section only, or two sections as desired. If single section Evaporator, as shown in Cut A, is wanted, or complete in poplar box with Fittings and Collector, price would be as above.



# GOLDENS' IMPROVED STEAM EVAPORATOR No. 1 1/2

TWO SECTIONS  
1 1/2" GALVANIZED PIPE

To obtain capacities indicated, box must be made higher, either by us or by operator. Standard boxes made shallow as shown for convenience in shipping.



Depth Inside Box 11 1/2". Standard boxes can be made deeper with flaring or straight sides upon special request. See page 23.

This Evaporator is composed of two sections, each section being similar to the one described on the following page. Each section is pivoted on a trunion and can be easily raised to allow the Evaporator to be cleaned. This Evaporator should be used with the Collector shown in cut and described on page 38. Evaporators can be made any length desired by using two sections the proper length.



## Price List of Two 1 1/2 Inch Double Pipe Sections as Shown Above

AND

### PRICE AND SIZE OF POPLAR EVAPORATOR BOX

Size of Box	Capacity Gals. Syrup Per Hour	Holds Two Sections of Pipe	Price of Poplar Evaporator Box only	Length of Each Section	Price of Two Pipe Sections Complete without Evaporator Box	Price of Two Pipe Sections Complete with Extra Valves and Evaporator Box	Price of Two Pipe Sections Complete with Extra Valves and Evaporator Box. Bottom Lined with Galvanized Iron	Price of Two Pipe Sections Complete with Extra Valves and Evaporator Box. Bottom Lined with Copper
9' x 44"	14	4' 0" Each	\$ 67.50	4' 0"	\$195.00	\$283.50	\$304.50	\$349.50
11 x 44	17	5 0 "	82.50	5 0 "	205.00	308.25	333.75	387.75
13 x 44	20	6 0 "	97.50	6 0 "	214.50	333.00	363.00	427.50
15 x 44	24	7 0 "	112.50	7 0 "	224.30	357.75	392.25	465.75

Add for Collector and Fittings, if wanted..... \$82.50

Add for Steam Gage and Fittings, if wanted..... 10.50

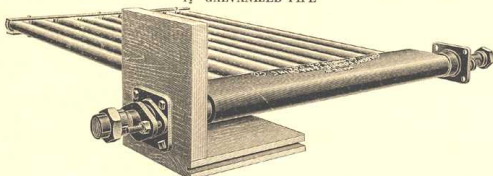
Add for Saccharometer, if wanted..... 3.00

### SACCHAROMETER

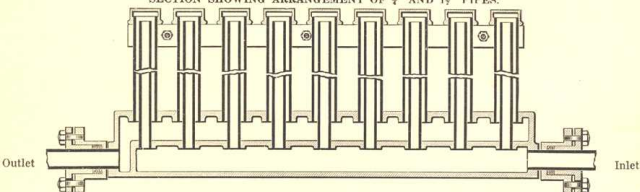
This is a delicate instrument, consisting of a weighted bulb and a stem five or six inches long, so graduated as to indicate in figures the strength or density of any solution, according to the scale suggested by Mr. Baume. It is used by dropping it into a deep test cup, containing liquid to be tested. It will sink to a certain point and there remain at rest. The number of degrees of the scale which appear above the surface of the fluid marks the density in degrees. In soft water the Saccharometer will sink to zero; in cane juice it will mark from 5 to 10 degrees, according to the richness of the juice, the higher figures indicating the richer juice; in syrup it will mark from 6 to 40 degrees. Boiling hot juice will show from 2 to 3 degrees less than cold juice, and boiling hot syrup about 4 degrees less density than when cold. The temperature for which the scale is graduated is 60 degrees.

# Section for Goldens' Improved Steam Evaporator No. 1½

1½" GALVANIZED PIPE



SECTION SHOWING ARRANGEMENT OF ½" AND 1½" PIPES.



This Evaporator is of very different construction from our No. 1 Evaporator, as will be noted. Each section consists of a Cast Iron Manifold with nine 1½" Galvanized pipes, and inside of each Galvanized pipe there is a ½" black pipe running nearly the full length of the larger pipe. Steam is admitted into the manifold and conveyed through the ½" pipe nearly to the end of the large pipe, then returning on inside of large pipe and over the hot ½" pipe reduces condensation to a minimum and gives more uniform heat. These sections are made up in lengths of 4', 5', 6', 7', 8', 10', 12' and 14' all 40" wide. Connections are made for inlet or outlet and to waste pipe, or to Collector and waste pipe, with valves to control steam.

The following articles compose a section: 9 pieces 1½" Galvanized Pipe, 9 piece ½" Black Pipe (inside 1½" pipe), 2 short pieces Galvanized Pipe for Trunions, 9—1½" Galvanized Caps, 1 Cast Iron Manifold, 2 Galvanized Iron Straps and Bolts, 2—1½" Stuffing Boxes and Glands, complete with 8 Lag Screws to bolt Stuffing Box to Evaporator, 2—1½" Unions.



## Price List of One 1½ Inch Double Pipe Section as Shown Above

AND

### PRICE AND SIZE OF POPLAR EVAPORATOR BOX

Size of Box	Capacity Gals. Syrup Per Hour	Holds Standard Section of Pipe	Price of Poplar Evaporator Box only	Length of Section	Price of Pipe Section Complete without Evaporator Box	Price of Pipe Section Complete with Extra Valves and Evaporator Box	Price of Pipe Section Complete with Extra Valves and Evaporator Box, Bottom Lined with Galvanized Iron	Price of Pipe Section Complete with Extra Valves and Evaporator Box, Bottom Lined with Copper
5' x 44"	7	4' 0"	\$37.50	4' 0"	\$ 97.50	\$145.50	\$157.50	\$180.00
6 x 44	8½	5 0	45.00	5 0	102.50	158.00	171.50	200.00
7 x 44	10	6 0	52.50	6 0	107.25	170.25	186.00	219.75
8 x 44	12	7 0	60.00	7 0	112.15	183.00	201.00	240.00
9 x 44	14	8 0	67.50	8 0	117.00	195.00	216.00	261.00
11 x 44	17	10 0	82.50	10 0	126.75	219.75	245.25	299.25
13 x 44	20	12 0	97.50	12 0	136.50	244.50	274.50	339.00
15 x 44	24	14 0	112.50	14 0	146.25	268.50	303.75	377.25

Add for Collector and Fittings, if wanted..... \$82.50

Add for Steam Gage and Fittings, if wanted..... 10.50

Add for Saccharometer, if wanted..... 3.00

## OPERATION OF No. 1 1/2 STEAM EVAPORATOR

The control of heat in this Evaporator is effected in the same manner as in the No. 1 Evaporator, that is by valves located at the inlet. The arrangement of the piping in this Evaporator is very different from our No. 1. The steam is admitted into a manifold having nine outlets. This Manifold has two sections—the inner section into which the steam is admitted has 1/2" outlets; and the outer section which carries the steam to the outlet, has 1 1/2" openings. The 1/2" openings are in line with the 1 1/2" openings so that when fitted up, the 1/2" pipe is inside the 1 1/2" pipe. The steam is conveyed through the 1/2" pipe to the end of the 1 1/2" pipe and then returns on the outside of the small pipe and inside the large pipe. The large pipe being in contact with the cold juice, has a tendency to condense the steam, but the 1/2" pipe, over which the steam passes, being very hot, counteracts, in a great measure, the effect of the cold pipe and reduces loss by condensation to a minimum. The pipe in contact with the juice being larger than in the other Evaporator, gives a greater heating surface, giving quicker results.

Care should be used in starting operation, not to boil the juice before the scum is all taken off. By heating the juice, without boiling, the scum rises to the top and can be easily removed with skimmers which we furnish. Be very careful to have ample juice in box, so when boiled to syrup pipe coils will be well covered by finished syrup. If coils are not well covered syrup will burn.

### APX. CAPACITY, GALLONS OF SYRUP PER HOUR, OF GOLDENS' STEAM EVAPORATORS.

Number 1	With 2-4 Foot Sections,	Apx. 10 Gals. Syrup Per Hour.
Number 1	With 2-5 Foot Sections,	Apx. 12 Gals. Syrup Per Hour.
Number 1	With 2-6 Foot Sections,	Apx. 15 Gals. Syrup Per Hour.
Number 1	With 2-7 Foot Sections,	Apx. 17 Gals. Syrup Per Hour.
Number 1 1/2	With 2-4 Foot Sections,	Apx. 14 Gals. Syrup Per Hour.
Number 1 1/2	With 2-5 Foot Sections,	Apx. 17 Gals. Syrup Per Hour.
Number 1 1/2	With 2-6 Foot Sections,	Apx. 20 Gals. Syrup Per Hour.
Number 1 1/2	With 2-7 Foot Sections,	Apx. 24 Gals. Syrup Per Hour.

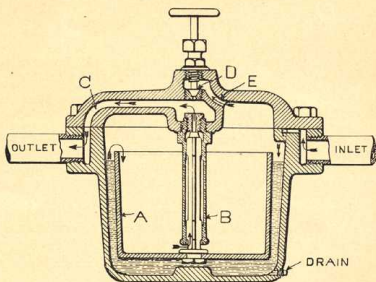
Note: Owing to the variation of quantity of juice required to make a gallon of syrup it is impossible to give exact capacity of Evaporators.

### APX. HORSE POWER OF BOILERS NEEDED FOR STEAM EVAPORATORS WITH TRAPS (COLLECTORS)

Number 1	Evaporator With 2- 4 Ft. Sections and Trap	Needs 4	H. P. Boiler.
Number 1	Evaporator With 2- 5 Ft. Sections and Trap	Needs 5	H. P. Boiler.
Number 1	Evaporator With 2- 6 Ft. Sections and Trap	Needs 6	H. P. Boiler.
Number 1	Evaporator With 2- 7 Ft. Sections and Trap	Needs 7	H. P. Boiler.
Number 1	Evaporator With 1- 4 Ft. Section and Trap	Needs 2	H. P. Boiler.
Number 1	Evaporator With 1- 5 Ft. Section and Trap	Needs 2 1/2	H. P. Boiler.
Number 1	Evaporator With 1- 6 Ft. Section and Trap	Needs 3	H. P. Boiler.
Number 1	Evaporator With 1- 7 Ft. Section and Trap	Needs 3 1/2	H. P. Boiler.
Number 1	Evaporator With 1- 8 Ft. Section and Trap	Needs 4	H. P. Boiler.
Number 1	Evaporator With 1-10 Ft. Section and Trap	Needs 5	H. P. Boiler.
Number 1	Evaporator With 1-12 Ft. Section and Trap	Needs 6	H. P. Boiler.
Number 1	Evaporator With 1-14 Ft. Section and Trap	Needs 7	H. P. Boiler.
Number 1 1/2	Evaporator With 2- 4 Ft. Sections and Trap	Needs 5 1/2	H. P. Boiler.
Number 1 1/2	Evaporator With 2- 5 Ft. Sections and Trap	Needs 6 1/2	H. P. Boiler.
Number 1 1/2	Evaporator With 2- 6 Ft. Sections and Trap	Needs 7 1/2	H. P. Boiler.
Number 1 1/2	Evaporator With 2- 7 Ft. Sections and Trap	Needs 9	H. P. Boiler.
Number 1 1/2	Evaporator With 1- 4 Ft. Section and Trap	Needs 2 1/2	H. P. Boiler.
Number 1 1/2	Evaporator With 1- 5 Ft. Section and Trap	Needs 3 1/2	H. P. Boiler.
Number 1 1/2	Evaporator With 1- 6 Ft. Section and Trap	Needs 3 3/4	H. P. Boiler.
Number 1 1/2	Evaporator With 1- 7 Ft. Section and Trap	Needs 4 1/2	H. P. Boiler.
Number 1 1/2	Evaporator With 1- 8 Ft. Section and Trap	Needs 5 1/2	H. P. Boiler.
Number 1 1/2	Evaporator With 1-10 Ft. Section and Trap	Needs 6 1/2	H. P. Boiler.
Number 1 1/2	Evaporator With 1-12 Ft. Section and Trap	Needs 7 1/2	H. P. Boiler.
Number 1 1/2	Evaporator With 1-14 Ft. Section and Trap	Needs 9	H. P. Boiler.

Note: For best results, Steam pressure should be 70 lbs. and above at inlet to Evaporator. Allowance should be made for extra H. P. of Boiler, running as high as 50% additional to figures shown in above table, when Boiler is at a distance from Evaporator.

## GOLDENS' CONDENSED STEAM COLLECTOR (TRAP)



These Collectors are made in two sizes, No. 1 for the No. 1 Steam Evaporator, and No. 1½ for the No. 1½ Steam Evaporator. The object of this Collector is to discharge the water condensed from the steam, and at the same time retain the live steam in the pipes. By using these Collectors in connection with the Steam Evaporators, a more uniform heat is obtained, the efficiency of the Evaporator is increased, and the fuel consumption is reduced.

Collector	List Price
No. 1, for 1" pipe.....	\$56.25
No. 1½, for 1½" pipe.....	75.00



### Operation of Golden's Condensed Steam Collector

The Collector consists of a cast-iron pot with two holes near the top—one connects to discharge from Evaporator and the other is for waste pipe discharging water from Collector. There is a plug in bottom of Collector for draining. The cap is securely bolted to the bottom with rubber packing ring between, making a water and steam tight joint. In the center of Cap a guide tube "B" is screwed, with an opening in the center connecting with hole in Cap which leads to outlet thru passage "C". A valve slides up and down in the guide tube, to the bottom of which is bolted a float "A" with open top. In the operation of the Collector, the bottom is partially filled with water, to bring valve stem in guide tube up against seat at top, which prevents steam or water from passing from inlet to outlet. As the condensed water runs into the Collector ahead of the steam, it gradually fills up bottom above the level of top of float and runs into the float. This causes the float to sink lower, opening the valve at the top of guide tube and allowing the steam behind the water to force the water out through this valve. When a sufficient amount of water has been thus forced out to cause the float to rise again, it automatically closes the valve and prevents the escape of steam. This operation is repeated automatically as often as enough water collects to cause float to sink. The valve "D" in the Cap is a by-pass, and is kept closed during the operation of the Collector. The object of this valve is to blow any obstruction out of waste pipe by direct steam pressure, thru passage "E" to passage "C", and does not affect the working of the Collector.

# VERTICAL COMBINATION HORSE AND BELT POWER CANE MILLS

Horse Power Mills Arranged With Gearing to Make Them Belt Driven

## Goldens' New Model Combination Mills

### FOR HORSE OR BELT POWER

Owing to the demand for a mill with vertical rolls which can be driven by either belt or horse power, as well as a demand for suitable gearing that can be adapted to horse power mills now in use, we have designed suitable gearing to single or double gear our STANDARD Three-Roller Mills, pages 5 and 6, our LONG BARREL Three-Roller Mills, pages 7 and 8, and two sizes, No. 18XX and No. 20XX, of our LONG BARREL Two-Roller Mills, pages 13 and 14.

These mills can be furnished complete with wood framing as per cuts, or the mills and gearing can be furnished alone, the customer doing the framing himself. The gearing is also suitable for driving any make of mill, according to size of rolls. In ordering gearing to fit customer's mill the diameter and length of rolls, as well as the diameter of the journals, should be specified. Key-seating of journal for large gear to be done by owner of mill.

While a lighter type of single gearing is already on the market, it is not adapted to the small high speed gasoline engines so commonly used for farm purposes, nor high speed shafts, as it runs the mill too fast to extract the juice properly without wasting, or takes so small a pulley to drive it, that it is not practical.

Where the engine or driving shaft runs at the proper slow speed to give mill the right surface speed of rolls for getting the best extraction without waste of juice, the single gearing is satisfactory; otherwise the double gearing is preferable.

The double gearing is geared two and a half times as fast as the single gearing, which variation with the proper driving pulley on engine or driving shaft, makes these combination mills adapted to all ordinary conditions.

Blue prints for construction of wood work will be sent purchaser of gearing on application.

To run mills at the average proper surface speed of rolls, we recommend the following pulley diameter and face, and revolutions per minute of pulley shaft:

12" Rolls, Single Gearing, Pulley 30" Diameter, 6 $\frac{1}{2}$ " Face	} Pulley Shaft 50 R. P. M.
14" Rolls, Single Gearing, Pulley 36" Diameter, 7 $\frac{1}{2}$ " Face	
16" Rolls, Single Gearing, Pulley 40" Diameter, 8 $\frac{1}{2}$ " Face	
18" Rolls, Single Gearing, Pulley 44" Diameter, 10 $\frac{1}{2}$ " Face	
20" Rolls, Single Gearing, Pulley 48" Diameter, 12 $\frac{1}{2}$ " Face	

12" Rolls, Double Gearing, Pulley 30" Diameter, 6 $\frac{1}{2}$ " Face	} Pulley Shaft 125 R. P. M.
14" Rolls, Double Gearing, Pulley 36" Diameter, 7 $\frac{1}{2}$ " Face	
16" Rolls, Double Gearing, Pulley 40" Diameter, 8 $\frac{1}{2}$ " Face	
18" Rolls, Double Gearing, Pulley 44" Diameter, 10 $\frac{1}{2}$ " Face	
20" Rolls, Double Gearing, Pulley 48" Diameter, 12 $\frac{1}{2}$ " Face	

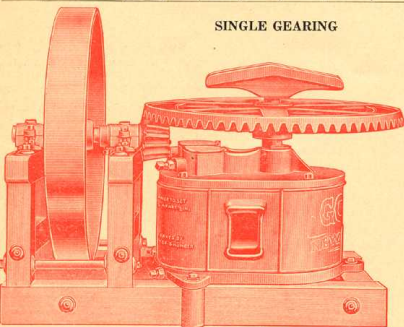
These combination mills are not intended to take the place of our regular Belt Power Mills, but are designed to fill the demand for a gearing that will permit the horse power mill to be changed to a Belt Power, and for this purpose they are the best combination mills upon the market, as in this case we have followed our usual custom of making a heavier and stronger combination mill than our competitors.



# Goldens' Combination Mill, Adapting Nos. 2, 3 and 4 to Belt Power

Number of Mill	Horse Power Required	Large Bevel Gear Diam. Face		Small Bevel Gear Diam. Lgth.		Shaft Diam. Lgth.		Size of S. B. Pulley	Rev. Per Minute Pulley Shaft	Apx. Weight	List Price
2	2½ to 3½	30"	3"	6"	3"	1½"	20"	30 x 6½	} 50 R.P.M.	952	\$171.00
3	3½ to 4½	36	3½	6	3½	1½	22	36 x 7½		1,349	232.50
4	4½ to 6	40	4	6.66	4	2½	24	40 x 8½		1,834	300.00

## SINGLE GEARING



Surface speed of Cane Mill Rolls should be about 27 feet per minute.

A Lever Cap is furnished as shown in cut, to allow Mills to be driven by horse power if necessary.

See page 41 for Combination Single and Double Geared Mills, No. 22X, No. 33X, and No. 44X.

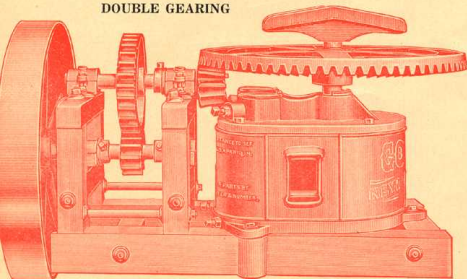
See page 42 for Combination Single and Double Geared Mills, No. 18XX and No. 20XX.

See page 39 for description of gearing.

# Goldens' Combination Mill, Adapting Nos. 2, 3 and 4 to Belt Power

Number of Mill	Horse Power Required	Large Bevel Gear Diam. Face		Small Bevel Gear Diam. Face		Large Spur Gear Diam. Face		Small Spur Gear Diam. Face		Top Shaft	Bottom Shaft	Size of S. B. Pulley	Rev. Per Minute Pulley Shaft	Apx. Weight	List Price
2	2½ to 3½	30"	3"	6"	3"	11½"	2½"	4½"	2½"	1½" x 20"	1½" x 25"	30 x 6½	} 125 R. P. M.	1,040	\$208.50
3	3½ to 4½	36	3½	6	3½	14½"	2½"	5½"	3"	1½" x 22"	1½" x 25½"	36 x 7½		1,464	280.50
4	4½ to 6	40	4	6.66	4	15½"	2½"	6½"	3"	2½" x 24"	2½" x 29"	40 x 8½		1,970	355.50

## DOUBLE GEARING



Surface speed of Cane Mill Rolls should be about 27 feet per minute.

A Lever Cap is furnished as shown in cut, to allow Mills to be driven by horse power if necessary.

See page 41 for Combination Single and Double Geared Mills No. 22X, No. 33X and No. 44X.

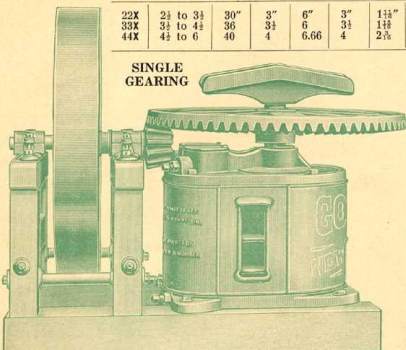
See page 42 for Combination Single and Double Geared Mills, No. 18XX and No. 20XX.

See page 39 for description of gearing.

# Goldens' Combination Mill, Adapting Nos. 22X, 33X and 44X to Belt Power

Number of Mill	Horse Power Required	Large Bevel Gear		Small Bevel Gear		Shaft		Size of S. B. Pulley	Rev. Per Min. Pulley Shaft	Apx. Weight	List Price
		Diam.	Face	Diam.	Face	Diam.	Lgth.				
22X	2½ to 3½	30"	3"	6"	3"	1½"	20"	30 x 6½	} 50 R. P. M.	1,159	\$226.00
33X	3½ to 4½	36	3½	6	3½	1½"	22	36 x 7½		1,652	301.00
44X	4½ to 6	40	4	6.66	4	2"	24	40 x 8½		2,241	397.00

## SINGLE GEARING



Surface speed of Cane Mill Rolls should be about 27 feet per minute.

A Lever Cap is furnished as shown in cut, to allow Mills to be driven by horse power if necessary.

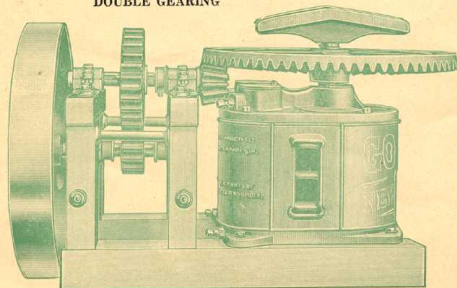
See page 40 for Combination Single and Double Geared Mills, No. 2, No. 3, No. 4.

See page 39 for description of gearing.

# Goldens' Combination Mill, Adapting Nos. 22X, 33X and 44X to Belt Power

Number of Mill	Horse Power Required	Large Bevel Gear		Small Bevel Gear		Large Spur Gear		Small Spur Gear		Top Shaft	Bottom Shaft	Size of S. B. Pulley	Rev. Per Minute Pulley Shaft	Apx. Weight	List Price
		Diam.	Face	Diam.	Face	Diam.	Face	Diam.	Face						
22X	2½ to 3½	30"	3"	6"	3"	11½"	2½"	4½"	2½"	1½" x 20"	1½" x 25"	30 x 6½	} 125 R. P. M.	1,247	\$265.00
33X	3½ to 4½	36	3½	6	3½	14½"	2½"	5½"	3	1½" x 22"	1½" x 25½"	36 x 7½		1,757	349.00
44X	4½ to 6	40	4	6.66	4	15½"	2½"	6½"	3	2" x 24"	2" x 29"	40 x 8½		2,427	453.00

## DOUBLE GEARING



Surface speed of Cane Mill Rolls should be about 27 feet per minute.

A Lever Cap is furnished as shown in cut, to allow Mills to be driven by horse power if necessary.

See page 40 for Combination Single and Double Geared Mills, No. 2, No. 3 and No. 4.

See page 39 for description of gearing.

# Goldens' Combination Mill, Adapting Nos. 18XX and 20XX to Belt Power

Number of Mill	Horse Power Required	Large Bevel Gear		Small Bevel Gear		Shaft		Size of S. B. Pulley	Rev. Per Minute Pulley Shaft	Apx. Weight	List Price
Diam.	Face	Diam.	Face	Diam.	Face	Diam.	Length				
18XX	6 to 8	42"	4½"	7"	4½"	2 7/16"	27"	44 x 10½	} 50 R. P. M.	3,130	\$565.50
20XX	8 to 10	44	5	7.33	5	2 1/8"	31	48 x 12½		4,247	675.00

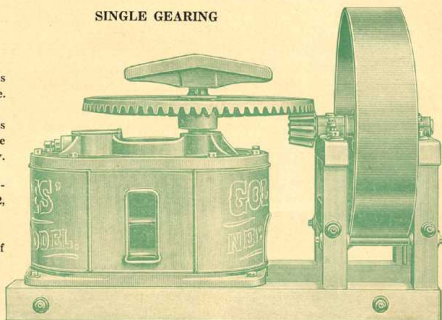
## SINGLE GEARING

Surface speed of Cane Mill Rolls should be about 27 feet per minute.

A Lever Cap is furnished, as shown in cut, to allow Mills to be driven by horse power if necessary.

See page 40 for Combination Single and Double Geared Mills, No. 2, No. 3, and No. 4.

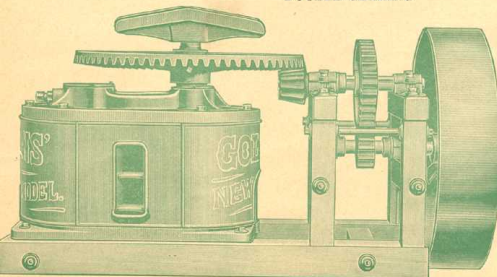
See page 39 for description of gearing.



# Goldens' Combination Mill, Adapting Nos. 18XX and 20XX to Belt Power

Number of Mill	Horse Power Required	Large Bevel Gear		Small Bevel Gear		Large Spur Gear		Small Spur Gear		Top Shaft	Bottom Shaft	Size of S. B. Pulley	Rev. Per Minute Pulley Shaft	Apx. Weight	List Price
Diam.	Face	Diam.	Face	Diam.	Face	Diam.	Face	Diam.	Face						
18XX	6 to 8	42"	4½"	7"	4½"	16 1/8"	3"	6 1/8"	3 1/2"	2 7/16" x 27"	2 7/16" x 33 1/2"	44 x 10½	} 125 R. P. M.	3,318	\$630.00
20XX	8 to 10	44	5	7.33	5	17 1/8"	3 1/2"	7 3/8"	3 1/2"	2 1/8" x 31"	2 1/8" x 39"	48 x 12½		4,475	792.00

## DOUBLE GEARING



Surface speed of Cane Mill Rolls should be about 27 feet per minute.

A Lever Cap is furnished as shown in cut, to allow Mills to be driven by horse power if necessary.

See page 40 for Combination Single and Double Geared Mills, No. 2, No. 3 and No. 4.

See page 39 for description of gearing.

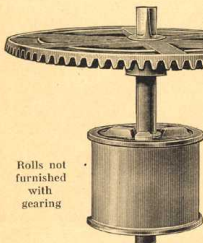
# General Dimensions, Price and Weight of Gearing for Cane Mills

## SINGLE GEARING

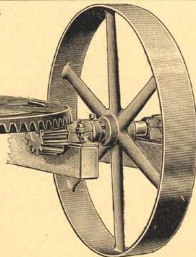
For Roll Diam.	Large Bevel Gear Diam.	Large Bevel Gear Face	Small Bevel Gear Diam.	Small Bevel Gear Face	Single Belt Pulley Diam.	Single Belt Pulley Face	Bore	Shaft Diam.	Shaft Length	Rev. Per Minute Pulley Shaft	Weight Gearing Without Roll	List Price Gearing Without Roll
12"	30"	3"	6"	3"	30"	6½"	1½"	1½"	20"	50 R. P. M.	298	\$ 73.50
14	36	3½	6	3½	36	7½	1½	1½	22		436	97.50
16	40	4	6.66	4	40	8½	2½	2½	24		589	123.00
18	42	4½	7	4½	44	10½	2½	2½	27		784	153.00
20	44	5	7.33	5	48	12½	2½	2½	31		969	186.00

Surface speed of Cane Mill Rolls should be about 27 feet per minute.

### SINGLE GEARING



Rolls not furnished with gearing



In ordering, give diameter and length of Roll, and size of Journal to be fitted to.

The following parts comprise the single gearing for each size of Roll:

1 Large Bevel Gear K. S. and S. S., with Key, bored to fit journal; 1 Small Bevel Gear K. S., with Key; 2 Competition Pillow-Blocks with Hanger Screws, 1 Competition Set Collar, 1 Single Belt Pulley K. S., with Key, 1 Pulley Shaft K. S.

See page 40 for Combination Single and Double Geared Mills, No. 2, No. 3 and No. 4.

See page 41 for Combination Single and Double Geared Mills, No. 22X, No. 33X and No. 44X.

See page 42 for Combination Single and Double Geared Mills, No. 18XX and 20XX.

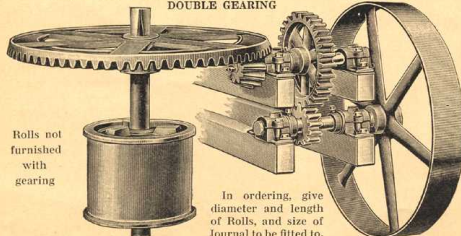
See page 39 for description of gearing.

### DOUBLE GEARING

For Roll Diam.	Large Bevel Gear Diam.	Large Bevel Gear Face	Small Bevel Gear Diam.	Small Bevel Gear Face	Single Belt Pulley Diam.	Single Belt Pulley Face	Top Shaft Diam.	Top Shaft Length	Bottom Shaft Diam.	Bottom Shaft Length	Large Spur Gear Diam.	Large Spur Gear Face	Small Spur Gear Diam.	Small Spur Gear Face	R. P. M. Pulley Shaft	Weight Without Roll	List Price Without Roll
12"	30"	3"	6"	3"	30"	6½"	1½"	20"	1½"	25"	11½"	2½"	4½"	2½"	125 R.P.M.	376	\$111.00
14	36	3½	6	3½	36	7½	1½	22	1½	25½	14½	2½	5½	3		549	145.50
16	40	4	6.66	4	40	8½	2½	24	2½	29	15½	2½	6½	3		725	180.00
18	42	4½	7	4½	44	10½	2½	27	2½	33½	16½	3	6½	3½		960	219.00
20	44	5	7.33	5	48	12½	2½	31	2½	39	17½	3½	7½	3½		1,193	262.50

Surface Speed of Cane Mill Rolls should be about 27 feet per minute.

### DOUBLE GEARING



Rolls not furnished with gearing

In ordering, give diameter and length of Rolls, and size of Journal to be fitted to.

The following parts comprise the Double Gearing for each size of Roll:

1 Large Bevel Gear K. S. and S. S., with Key, bored to fit Journal; 1 Small Bevel Gear K. S., with Key; 4 Competition Pillow-Blocks with Hanger Screws, 3 Competition Set Collars, 1 Single Belt Pulley K. S. with Key; 1 Pulley Shaft K. S., 1 Gear Shaft K. S., 1 large Spur Gear K. S.-S. S., with Key; 1 Small Spur Gear K. S., with Key; 1 Cast Iron Spacing Collar.

See page 40 for Combination Single and Double Geared Mills, No. 2, No. 3 and No. 4.

See page 41 for Combination Single and Double Geared Mills, No. 22X, No. 33X and No. 44X.

See page 42 for Combination Single and Double Geared Mills, No. 18XX and No. 20XX.

See page 39 for description of gearing.



## STYLES OF LEVER CAPS



No. 1  
Single Angle  
Standard for Mills  
Nos. 1, 2, 12 and 22.



No. 2  
Double Angle  
Standard for Mills Nos. 3, 4, 14,  
16, 33, 44, 55, 22X, 33X, 44X,  
122X, 149X, 161X, 8 and 9.



No. 3  
Straight  
Sent in Place of  
Nos. 1 and 2 if Order  
Particularly Specifies Same.

## CARE IN OPERATION

In operating a Three-Roller Cane Mill, care should be taken in setting Rollers properly before starting up Mill. In no case should the first small Roller be jammed against the large one; it should be set one-quarter to one-half an inch from large Roller, as it is only intended to mash, not to grind the cane. The second small Roller should be set up close against large Roller, but not too tight for purpose of grinding.

If first small Roller is set too close, the bagasse so ground, being in fine particles, will get between Rollers and choke the Mill, causing probable breakage of some part of Mill, and considerable annoyance to operator.

Should the operator desire to change the Feed Box on the Three-Roller Mills, in order to grind from the opposite side, it will also be necessary to change the two small Rollers at the same time.

See that your Mill is properly oiled.

We see that every Mill is in good running condition before it leaves our works.

## NOTICE

IT IS OUR DESIRE TO PLEASE our customers, and at all times ship out the goods wanted by them. If they will plainly state what they need, we feel sure we will not ship them something they did not order, nor waste time in writing them for additional information. Therefore we wish to impress firmly in the minds of our customers the necessity of being concise and stating plainly their wants when ordering goods from us. Examine our catalogue and order from it, calling the articles by name, number and letters, as the case may be. It will save both time and money.

Previous to the year 1904, we manufactured and called our cane mills "The Golden Mill." During the year 1904, and since that time, we have manufactured and put on the market our new mills which we call and advertise as "Goldens' New Model Mills" and "Goldens' Export Model Mills." When ordering repair parts please be sure and specify whether they are for "The Golden Mill," or whether for "Goldens' New Model Mill" or "Goldens' Export Model Mill."

If uncertain as to model of mill, send old pieces to be duplicated.

**RESPONSIBILITY:** All agreements are contingent upon strikes, accidents or other causes beyond our control. After goods have been delivered by us to Railroad or other common carriers, and receipt taken therefor in good condition, our responsibility ceases, and we are not accountable for damage done, or for delay or loss caused by such common carriers through their carelessness or otherwise.

**FREIGHT RATES:** On all shipments made, we get through Bills Lading and insert through freight rates when possible, but we do not, ourselves, guarantee such rates; and should there be an overcharge, the consignee must make claim against common carrier. We will, however, at all times assist our customers in collecting such overcharges, as far as possible.

**GUARANTY:** We do not guarantee against breakage, but guarantee these goods for a period of one season's use, which only covers breakage caused by defects, i. e., should any part break, and it is clearly shown to be on account of defect in material, then we will ship another part to take the place of broken one free of charge, but we do not pay freight or express charges on such parts furnished. All parts broken, for which claim is made on account of defects, must be returned immediately to us to examine before we will consider claim. Also, information must be given as to how long mill has been in use. We do not assume any responsibility for damages, such as delay, time expended or other expenses caused by such breakage.

**TERMS AND PAYMENTS:** All goods are sold on specified time, and such time is stated in our quotations and invoices. When accounts are due, we expect to have them paid, and if not paid when due they are subject to sight draft with exchange and cost of collecting. All accounts are payable by exchange on New York, or by checks on our local banks.

**HOW SHIPPED:** All goods are shipped Released, at purchaser's risk, unless otherwise instructed.





4 BARRELS PER DAY CAPACITY SYRUP PLANT—No. 27 MILL

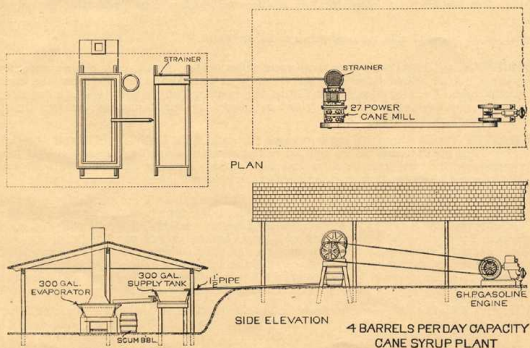
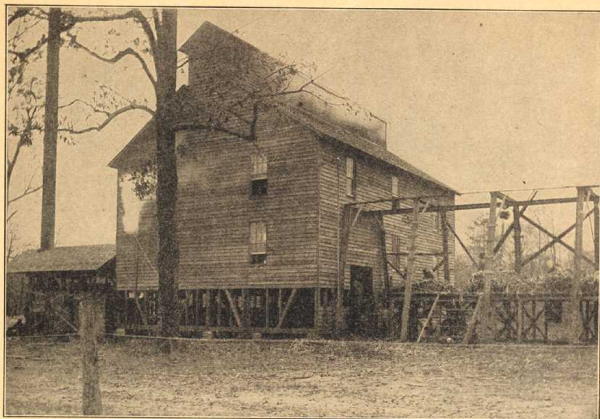


DIAGRAM SHOWING INTERIOR OF ABOVE PLANT



20 BARRELS PER DAY CAPACITY SYRUP PLANT—No. 63 Mill

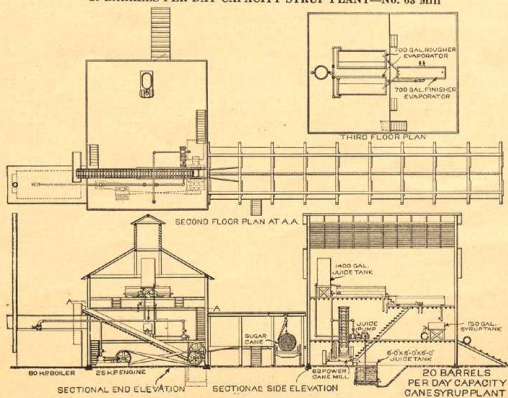
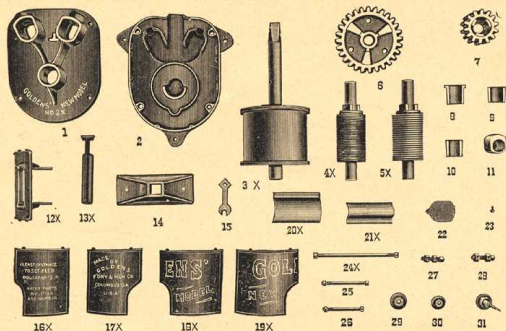


DIAGRAM SHOWING INTERIOR OF ABOVE PLANT

## DISCONTINUED MILLS

## PARTS OF

## Goldens' NEW MODEL Three-Roller Horse Power X Cane Mills



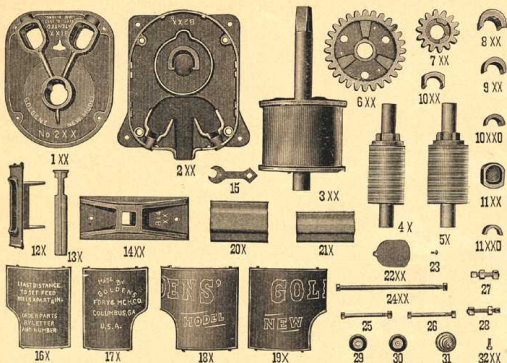
Order by Letters and Numbers and state "for Goldens' NEW MODEL Three-Roller X Mill," giving size also of Mill. All parts of these mills have letters and numbers cast on them. Letters indicate size of Mill. Figures indicate the part.

Description of Part	No. 1X Mill		No. 2X Mill		No. 3X Mill		No. 4X Mill	
	Part No.	Price	Part No.	Price	Part No.	Price	Part No.	Price
Top Plate .....	A-1X	\$ 5.60	B-1X	\$ 8.75	C-1X	\$10.85	D-1X	\$15.40
Bottom Plate .....	A-2	7.70	B-2	10.85	C-2	13.65	D-2	21.00
Large Roller .....	A-3X	21.85	B-3X	30.95	C-3X	43.70	D-3X	63.70
Small Grooved Feed or Front Roller .....	A-4X	12.75	B-4X	17.30	C-4X	23.65	D-4X	34.60
Small Grooved Second or Discharge Roller .....	A-5X	12.75	B-5X	17.30	C-5X	23.65	D-5X	34.60
Large Gear .....	A-6	3.75	B-6	4.90	C-6	6.40	D-6	9.00
Small Gears, each .....	A-7	2.60	B-7	3.35	C-7	4.50	D-7	5.65
Top Box for Large Roller .....	A-8	1.50	B-8	1.70	C-8	2.10	D-8	2.65
Bottom Box for Large Roller .....	A-9	1.70	B-9	1.95	C-9	2.40	D-9	3.00
Top Box for Small Roller .....	A-10	1.30	B-10	1.50	C-10	1.90	D-10	2.40
Bottom Box for Small Roller .....	A-11	2.25	B-11	2.50	C-11	3.00	D-11	3.60
Feed Box .....	A-12X	2.25	B-12X	3.00	C-12X	4.20	D-12X	5.10
Guide Knife .....	A-13X	2.50	B-13X	2.95	C-13X	3.55	D-13X	4.30
Lever Cap .....	A-14	3.75	B-14	4.90	C-14	6.40	D-14	8.25
Cast Iron Wrench .....	A-15	.40	B-15	.45	C-15	.45	D-15	.55
Left Hand Front Housing Panel .....	A-16X	2.10	B-16X	3.05	C-16X	4.30	D-16X	5.70
Left Hand Back Housing Panel .....	A-17X	2.10	B-17X	3.05	C-17X	4.30	D-17X	5.70
Right Hand Back Housing Panel .....	A-18X	2.50	B-18X	3.45	C-18X	4.80	D-18X	6.55
Right Hand Front Housing Panel .....	A-19X	2.50	B-19X	3.45	C-19X	4.80	D-19X	6.55
Steel Scraper for Large Roller .....	A-20X	1.50	B-20X	1.90	C-20X	2.25	D-20X	2.65
Steel Scraper for Small Roller .....	A-21X	1.15	B-21X	1.50	C-21X	1.90	D-21X	2.25
Lids and Nut Screws for Journals .....	A-22	.40	B-22	.45	C-22C-23	.55	D-22D-23	.60
Bolts for Housings, each .....	A-24X	.40	B-24X	.50	C-24X	.60	D-24X	.70
Bolts for Frame Timbers, each .....	A-25	.30	B-25	.30	C-25	.45	D-25	.55
Bolts for Lever Cap, each .....	A-26	.25	B-26	.30	C-26	.40	D-26	.55
Top Set Screws and Jam Nuts, each .....	A-27	.45	B-27	.65	C-27	.85	D-27	1.15
Bottom Set Screws and Jam Nuts, each .....	A-28	.50	B-28	.75	C-28	.85	D-28	1.50
Washers for Frame Timbers, each .....	A-29	.15	B-29	.18	C-29	.20	D-29	.25
Washers for Lever Cap, each .....	A-30	.15	B-30	.18	C-30	.20	D-30	.25
Oil Can .....	A-31	.15	B-31	.15	C-31	.15	D-31	.15

## DISCONTINUED MILLS

PARTS OF

## Goldens' NEW MODEL Three-Roller Horse Power XX Cane Mills



Order by Letters and Numbers and state "for Goldens' NEW MODEL Three-Roller XX Mill," giving size also of Mill. All parts of these Mills have letters and numbers cast on them. Letters indicate size of Mill. Figures indicate the part.

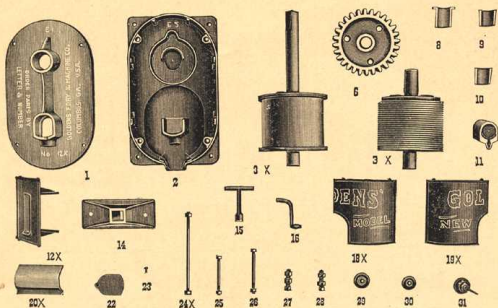
Description of Part	No. 2XX Mill		No. 3XX Mill		No. 4XX Mill	
	Part No.	Price	Part No.	Price	Part No.	Price
Top Plate .....	B- 1XX	\$ 9.95	C- 1XX	\$13.30	D- 1XX	\$19.10
Bottom Plate .....	B- 2XX	12.60	C- 2XX	18.20	D- 2XX	27.30
Large Roller .....	B- 3XX	33.60	C- 3XX	47.60	D- 3XX	65.10
Small Grooved Feed or Front Roller .....	B- 4X	17.30	C- 4X	23.65	D- 4X	34.60
Small Grooved Second or Discharge Roller .....	B- 5X	17.30	C- 5X	23.65	D- 5X	34.60
Large Gear .....	B- 6XX	7.15	C- 6XX	9.00	D- 6XX	12.00
Small Gears, each .....	B- 7XX	3.75	C- 7XX	4.90	D- 7XX	6.00
Top Box for Large Roller, Solid Brass .....	B- 8XX	6.30	C- 8XX	8.50	D- 8XX	10.80
Bottom Box for Large Roller, Solid Brass .....	B- 9XX	4.95	C- 9XX	6.75	D- 9XX	7.20
Top Box for Small Roller, Cast Iron without Brass .....	B-10XX	1.50	C-10XX	1.90	D-10XX	2.40
Top Brass, Small Roll Fits C. I. Top Box .....	B-10XXO	1.80	C-10XXO	3.15	D-10XXO	4.50
Bottom Box for Small Roller, Cast Iron without Brass .....	B-11XX	2.50	C-11XX	3.00	D-11XX	3.60
Bottom Brass, Small Roll Fits C. I. Bottom Box .....	B-11XXO	1.80	C-11XXO	2.70	D-11XXO	3.60
Feed Box .....	B-12X	3.00	C-12X	4.20	D-12X	5.10
Guide Knife .....	B-13X	2.95	C-13X	3.55	D-13X	4.30
Lever Cap .....	B-14XX	9.00	C-14XX	11.70	D-14XX	16.50
Cast Iron Wrench .....	BC-15	.45	BC-15	.45	D-15	.55
Left Hand Front Housing Panel .....	B-16X	3.05	C-16X	4.30	D-16X	5.70
Left Hand Back Housing Panel .....	B-17X	3.05	C-17X	4.30	D-17X	5.70
Right Hand Back Housing Panel .....	B-18X	3.45	C-18X	4.80	D-18X	6.55
Right Hand Front Housing Panel .....	B-19X	3.45	C-19X	4.80	D-19X	6.55
Steel Scraper for Large Roller .....	B-20X	1.90	C-20X	2.25	D-20X	2.65
Steel Scraper for Small Roller .....	B-21X	1.50	C-21X	1.90	D-21X	2.25
Lids and Nut Screws for Journals .....	B-22XX	.45	C-22XX	.55	D-22XX	.60
Bolts for Housings, each .....	B-24XX	.55	C-24XX	.60	D-24XX	.70
Bolts for Frame Timbers, each .....	B-25	.30	C-25	.45	D-25	.55
Bolts for Lever Caps, each .....	B-26	.30	C-26	.40	D-26	.55
Top Set Screws and Jam Nuts, each .....	B-27	.65	C-27	.65	D-27	1.15
Bottom Set Screws and Jam Nuts, each .....	B-28	.75	C-28	.85	D-28	1.50
Washers for Frame Timbers, each .....	B-29	.18	C-29	.20	D-29	.25
Washers for Lever Cap, each .....	B-30	.18	C-30	.20	D-30	.25
Oil Can .....	B-31	.15	C-31	.15	D-31	.15
Cap Screw for Large Gear, each .....	B-32XX	.15	C-32XX	.20	D-32XX	.25



## DISCONTINUED MILLS

## PARTS OF

## Goldens' NEW MODEL Two-Roller Horse Power X Cane Mills



Order by Letters and Numbers and state "for Goldens' NEW MODEL Two-Roller X Mill," giving size also of Mill. All parts of these Mills have letters and numbers cast on them. Letters indicate size of Mill. Figures indicate part

Description of Part	No. 12X Mill		No. 14X Mill		No. 16X Mill	
	Part No.	Price	Part No.	Price	Part No.	Price
Top Plate .....	E- 1X	\$ 9.80	F- 1X	\$13.30	G- 1X	\$18.90
Bottom Plate .....	E- 2	14.00	F- 2	18.90	G- 2	27.30
Long Journal or King Roller .....	B- 3X	30.95	C- 3X	43.70	D- 3X	63.70
Short Journal Roller .....	E- 3X	26.40	F- 3X	37.30	G- 3X	56.40
Gear for either Roller, each .....	B- 6	4.90	C- 6	6.40	D- 6	9.00
Top Box for Long Journal Roller .....	B- 8	1.70	C- 8	2.10	D- 8	2.65
Bottom Box for Long Journal Roller .....	B- 9	1.95	C- 9	2.40	D- 9	3.00
Top Box for Short Journal Roller .....	E-10	1.65	F-10	2.05	G-10	2.55
Bottom Box for Short Journal Roller .....	E-11	2.65	F-11	3.15	G-11	3.75
Feed Box .....	E-12X	4.35	F-12X	5.35	G-12X	6.00
Lever Cap .....	B-14	4.90	D-14	6.40	D-14	8.25
Cast Iron T Wrench .....	EF-15	.75	EF-15	.75	G-15	1.05
Cast Iron S. Wrench .....	EF-16	.50	EF-16	.50	G-16	.75
Front and Back Panels for Housings, each .....	B-18X	3.45	C-18X	4.80	D-18X	6.55
Front and Back Panels for Housings, each .....	B-19X	3.45	C-19X	4.80	D-19X	6.55
Steel Scrapers for either Roller, each .....	B-20X	1.90	F-20X	2.25	D-20X	2.65
Lids with Screw for Short Journal Roller .....	E-22	E-23	F-22	F-23	G-22	G-23
Bolts for Housings, each .....	B-24X	.50	C-24X	.60	D-24X	.70
Bolts for Lever Cap, each .....	B-25	.30	C-25	.45	D-25	.55
Bolts for Frame Timbers, each .....	B-26	.30	C-26	.40	D-26	.55
Top Set Screw and Jam Nuts .....	E-27	.65	F-27	.65	G-27	1.15
Bottom Set Screw and Jam Nuts .....	E-28	.65	F-28	.65	G-28	1.15
Washers for Frame Timbers, each .....	B-29	.18	C-29	.20	D-29	.25
Washers for Lever Cap, each .....	B-30	.18	C-30	.20	D-30	.25
Oil Can .....	B-31	.15	C-31	.15	D-31	.15



