Our Prosperity Implements

Chilled Plows
Combination Plows
Disc Plows
Double Shovel Plows
Plow Repairs
Cane Mills
Evaporators
Furnaces
Sugar Kettles
Corn and Cotton Planters

Chattanooga Plow Co.
Chattanooga, Tennessee
U. S. A.
A Few Points on PLOWS
Both Plain and Cutter

There is a great deal of difference in soils and incidentally—in people. If this were not so, we would make only one kind of plow, and everybody would want the best and "only."

But the difference does exist. We recognize it, and therefore make plows of different shapes and sizes for the different soils and the different people. It's simply a question of selection. There is no doubt about the name, it's "CHATTANOOGA"—but what shape is best? Right here is where intelligence comes in. Anybody can remember "CHATTANOOGA."—it's a household word—but it takes "horse sense" to know whether a "high front" or "low front" plow with a "convex" or "concave" moldboard is suitable for the soil.

A plow that will shed is a "joy forever." We make it. It is shown in this catalogue. We do the whole thing except select it, and would do that if we knew the land to be plowed.

At this point lies the secret of success in the plow business, whether the Manufacturer, the Salesman, or the Farmer is considered.

"It's the Right Plow for the Right Soil"

Most plows have merits when used in soils for which their shape and construction is adapted. Some plows will work creditably under more conditions than others, but as a matter of fact most of the trouble with good plows is not that they are in bad hands, but that they are in wrong soils. Their selection by both the buyer and the farmer for the work was unfortunate.

"Won't work" is the verdict when really it's the "grey matter" that does not work.

A WORD WITH THE BUYER

No goods on commission.
No goods returned without our consent.
No drayage charged.
Quotations are F. O. B. Chattanooga.
Goods shipped "knocked down and released" unless ordered otherwise.
We will not be responsible for delays caused by strikes, differences with workmen, accident at works, delays in transportation, or other causes not under our control.
In case of overcharge send the "expense bill" to this office at once and we will make claim against the initial line which made the rate.
Lowest obtainable freight rate inserted, but we do not guarantee freight rates.
Our responsibility ceases when we have delivered goods to the transportation company, and received a bill of lading acknowledging receipt in "good order."
When an order for repairs amounts in quantity to one or more barrels, we will, by request, so pack them without extra charge, save for cost of barrel, say from 20c to 25c, or extra heavy barrels for export, 75c to $1.00. Goods thus packed are less liable to breakage or nicking, and in some cases a lower rate of freight is obtained.
Don't forget that the railroad will charge for one hundred pounds when the shipment is less than one hundred pounds.
Don't forget to say right or left hand in ordering plows or repairs.
Don't forget to give casting numbers when ordering cane-mill or disc-plow repairs.
Don't forget to give shipping point when not located on a railroad.
Chattanooga Chilled Plows
One-Horse No. 2. Plain Share

The Old Reliable

This is an old and respected member of our Prosperity Family. One of the “Four Hundred.” Not a “degenerate son,” but a “worthy sire.” It is an all-round good plow and we take pride in branding it Chattanooga. Buyers everywhere, never forget to order a “good sprinkling” of No. 2 Plows.

It is right hand only, and wood beam only.
Two bolts fasten beam to standard and two bolts fasten point.
Sloping landside and wrought iron brace between moldboard and landside.
High polish and elegant finish.
Specially adapted to clay soils.

<table>
<thead>
<tr>
<th>Capacity</th>
<th>Weight</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. 2</td>
<td>8 x 9</td>
<td>$4.50</td>
</tr>
</tbody>
</table>

“Chattanooga” Shares

Have a ribon under side which fits against the lower edge of standard. All the working strain of the share is thus brought against the edge of standard instead of against the moldboard. This rib strengthens the share. Being held in its place by two bolts, the share is firm and not liable to break.

The Plow for Sandy Land

There are sandy soils and these plows were built for them. That was our design and it is their design.

They are of the most simple construction, right hand and have wood beams only.
Straight landsides, very large, bold moldboards, and extra wide shares, specially adapted to orange culture.
The handles are bolted to the standard.

<table>
<thead>
<tr>
<th>Capacity</th>
<th>Weight</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. 32</td>
<td>8 x 9</td>
<td>$4.00</td>
</tr>
<tr>
<td>No. 32 F</td>
<td>8 x 11</td>
<td>4.00</td>
</tr>
<tr>
<td>No. 32 FC</td>
<td>8 x 11</td>
<td>4.00</td>
</tr>
</tbody>
</table>

The Crop Makers—6
Chattanooga Chilled Plows

One-Horse No. 62. Plain Share

A Plow With a Record

If there be such a thing as a "Favorite Son" this plow is "IT."
It breaks records "without a break," and always wears the blue ribbon
when given a Fair Show.

We put twenty years experience in this plow, and the results have met
our most sanguine expectations. It is a model one-horse plow.

You will know it by its being a right hand plow either in wood or steel
beam, with a large easy turning moldboard, high standard, sloping landside,
two bolts in share, and handles bolted to standard.

You will also recognize it by its superior finish and name—

CHATTANOOGA No. 62

<table>
<thead>
<tr>
<th>Capacity</th>
<th>Weight</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wood Beam</td>
<td>55</td>
<td>$4.00</td>
</tr>
<tr>
<td>Steel Beam</td>
<td>70</td>
<td>5.00</td>
</tr>
</tbody>
</table>

The Crop Makers—8

Chattanooga Chilled Plows

One-Horse No. 72. Cutter Share

A Plow That Is Different

"The same old store but with a new front."
This plow is high and bold, with a sharp cutting edge, and gets a New
Cutter with each new share.

It meets with favor by all who appreciate this feature in a two-horse
plow, as it is equally good in a one-horse plow.

We designed and made it on the suggestion of those who plow—those who
know.

It will attract attention and make friends by its style, symmetry, and we
may say new if not novel feature.

Has two bolts in share, and an extra long beam.
This plow is right-hand only, and steel beam only.
Handles exchange with No. 62 and No. 63 plows.

<table>
<thead>
<tr>
<th>Capacity</th>
<th>Weight</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. 72...</td>
<td>6 x 9</td>
<td>70</td>
</tr>
<tr>
<td></td>
<td></td>
<td>$5.50</td>
</tr>
</tbody>
</table>

The Crop Makers—8
Chattanooga Chilled Plows

Medium Front. Plain Share. Four sizes for two and three horses. 20 Series

A Plow With Individuality

Anybody can be like other folks but it takes courage and character to be different.

This plow has "talking points" all its own, and they have stood the test of time and competition.

No Other Plow has the Landside and Cutter in One Piece.

This feature is protected by patent or there would be "others."

The principle is worth illustration and description, and is given on opposite page.

We furnish this plow in right and left hand in steel or wood beam, (wood beam fastened to standard with two bolts.)

High, straight standard to avoid choking, and a large, shapely moldboard that is a good turner.

It is superb in finish and a "revered" in service.

<table>
<thead>
<tr>
<th>Capacity</th>
<th>Weight Wood Beam</th>
<th>Weight Steel Beam</th>
<th>Price W.B.</th>
<th>Price S.B.</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. 23...</td>
<td>8 x 10</td>
<td></td>
<td>$7.00</td>
<td>$8.00</td>
</tr>
<tr>
<td>No. 24...</td>
<td>9 x 11</td>
<td></td>
<td>8.50</td>
<td>9.50</td>
</tr>
<tr>
<td>No. 25...</td>
<td>10 x 12</td>
<td></td>
<td>9.00</td>
<td>10.00</td>
</tr>
<tr>
<td>No. 26...</td>
<td>12 x 14</td>
<td></td>
<td>9.50</td>
<td>10.50</td>
</tr>
</tbody>
</table>

The Crop Makers—10

Chattanooga Chilled Plows

A ONE PIECE LANDSIDE AND CUTTER

Nos. 23, 24, 25 and 26

"In Union There is Strength"

The way this plow is connected insures the strongest Chilled Plow made. The back of the Cutter fits against the front edge of the standard and is bolted to it. This prevents the heel of the landside from rising up and taking the suction out of the bottom of the plow. A fault too common and serious to need comment. Experience shows that the Cutter when chilled will last as long as the heel of the landside will wear, and they should be renewed at the same time. Since the Cutter landsides are furnished at the same price as plain landsides, this feature is economy to the user.

A Cutter in a separate piece simply increases the number of pieces, weakens the plow, and adds to expense.

Note that we do not bolt the handles to the moldboard, but to a wrought iron brace. This adds strength to the frame of the plow because it does not weaken it as by the common method.

This plow is a favorite in grass, stubble and weeds, where choking is the trouble.
Chattanooga Chilled Plows

High Front. Cutter Share. Two and Three Horse. 40 Series

The Best Known Plow, Made the Best Known Way

This type of plow may fairly be called popular.

Every plow-maker makes it but every plow-maker don’t make the same quality. There are “good, bad and indifferent” plows of this style. We do not claim originality in design, we simply claim to make it the best we can, as good as we can, which is safely good.

There is a quality, a finish, an interchange of parts, and a something in a “Chattanooga” that is not found in “everybody’s” plow. We make this pattern both wood and steel beam, and either right or left hand. The landside is sloping, and the moldboard either of chilled iron or steel, is concave, strongly but gracefully curved. It has a high bold front with a thin, sharp cutting edge. A plain share and a separate cutter can be put on this plow if desired.

There is a rear brace from landside to moldboard that strengthens the plow and avoids breakage of moldboards.

It is a Plow that Plows

<table>
<thead>
<tr>
<th>Capacity</th>
<th>Weight Wood Beam</th>
<th>Weight Steel Beam</th>
<th>Price W. B.</th>
<th>Price S. B.</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. 43.</td>
<td>8 x 10</td>
<td>90</td>
<td>100</td>
<td>$ 7 00</td>
</tr>
<tr>
<td>No. 44.</td>
<td>9 x 11</td>
<td>100</td>
<td>110</td>
<td>8 00</td>
</tr>
<tr>
<td>No. 45.</td>
<td>Medium</td>
<td>120</td>
<td>130</td>
<td>9 00</td>
</tr>
<tr>
<td>No. 46.</td>
<td>Heavy</td>
<td>140</td>
<td>160</td>
<td>10 00</td>
</tr>
</tbody>
</table>

The Crop Makers—12

Chattanooga Chilled Plows

Low Front. Cutter Shares, 60 Series
Four sizes, for two and three horses

The Plow that Sheds Where Others Fail

This is a Chilled Plow modeled and constructed after the type of steel plows. We were the first to make it, and—well, it has made us. Why? Because it is lighter draft and sheds soils no other Chilled Plow will. In a word, it has proved to be a “short cut” to satisfaction and good crops.

We furnish this plow right or left hand in sizes to suit Ponies or Percherons, Steel Beam only, Chilled Cutter Share, Sloping Landside, and Long Convex Moldboard, either chilled metal or steel.

The Rear Brace from Landside to Moldboard strengthens the plow and prevents moldboard from breaking.

The finish and style attract like a magnet.

The front is so low, and the plow so “rakish” that nothing sticks to it—except farmers.

<table>
<thead>
<tr>
<th>Capacity</th>
<th>Weight</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. 63. Very light two-horse</td>
<td>8 x 10</td>
<td>100</td>
</tr>
<tr>
<td>No. 64. Light two-horse</td>
<td>9 x 11</td>
<td>120</td>
</tr>
<tr>
<td>No. 65. Medium two-horse</td>
<td>10 x 12</td>
<td>135</td>
</tr>
<tr>
<td>No. 66. Heavy two-horse</td>
<td>12 x 14</td>
<td>150</td>
</tr>
</tbody>
</table>

13—The Crop Makers
The Right Plow for the Place

We have enlarged and improved our family of Reversible or Hillside Plows, not because there are more hillsides, but because there are more people who want to plow them the best way.

There is no doubt that a Reversible Plow will turn hillside land better, quicker, and with less draft than a level land plow. This means economy and more return for labor. It also means less washing of soil because the plowing is deeper and more uniform.

The whole question is quality in the plow and simplicity in reversing.

Examine a No. 53 or 55 and you will find a Malleable Latch that latches, adjusted to take up wear, and no springs to get out of order.

A Malleable Tripod that will not break. Steel or Chilled Moldboard. Chilled Share and Landside. Separate Cast Frog. Reversible Clevis Shackles and a Steel or Wood Beam.

Parts are interchangeable between 52 and 53; also between 54 and 55, except the latches.

All with a "Chattanooga" finish.

<table>
<thead>
<tr>
<th>Capacity</th>
<th>Weight</th>
<th>Price Steel Mold</th>
<th>Price Chilled Mold</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. 52, Light two-horse, Wood Beam</td>
<td>75</td>
<td>$6.50</td>
<td></td>
</tr>
<tr>
<td>No. 53, Light two-horse, Steel Beam</td>
<td>80</td>
<td>$8.00</td>
<td>7.50</td>
</tr>
<tr>
<td>No. 54, Regular two-horse, Steel Beam</td>
<td>120</td>
<td>$8.00</td>
<td></td>
</tr>
<tr>
<td>No. 55, Regular two-horse, Wood Beam</td>
<td>125</td>
<td>10.00</td>
<td>9.00</td>
</tr>
</tbody>
</table>

Special Plows for Special Work

The "Middle Breaker" Series are popular and favorite plows in all sections where "bedding" and "terracing" is done. No other plow can do the work so thoroughly and cheaply. The secret and key to success is not "tickling" the earth, but plowing deep; holding the winter rains and preventing washing. That is what the "Middle Breaker" does.

We make this plow in Wood and Steel Beam, combination, so that it can be converted into a "Subsoil Plow," or a "Potato Digger."

<table>
<thead>
<tr>
<th>Weight</th>
<th>Price</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. 17, Subsoil</td>
<td>65</td>
<td>$5.00</td>
</tr>
<tr>
<td>No. 17, Double Moldboard, 12 inch</td>
<td>70</td>
<td>105</td>
</tr>
<tr>
<td>No. 17, Potato Digger</td>
<td>70</td>
<td>105</td>
</tr>
</tbody>
</table>

The Crop Makers—14
Chattanooga Chilled Plows

CONTRACTORS' PLOW

No. 81
Weight 220 pounds
Price with Wheel $20.00
Heavy cast iron beam. Steel handles. Heavy steel bar point. For breaking up hard pan, gravel or Macadam. Use any number of horses.

RAILROAD OR GRADERS' PLOW

No. 85
Weight 200 pounds
Price with Wheel $25.00
Wood beam only. Chilled share and moldboard. Strong, heavy and durable. For use with four or more horses.

Chattanooga Chilled Plows

ATTACHMENTS

Wheels—Have malleable arms and clamps. Fit any plow. Face of arms rounding with clamp hollowing, and slotted so that by moving clamp forward or back the wheel may be made to lead to right or left, to suit the set of beam. Points last longer when a wheel is used.

Rolling Coulters—Have malleable hangings and best quality steel blades. Fit any plow. For two-horse plow 12 or 13 inch diameter should be used.

Jointers—Have malleable standards and arms, and chilled moldboards and shares. Fit any plow. Same shares fit right and left hand.

The Crop Makers—16

17—The Crop Makers
A Double Shovel With Double Value

Why double value? Simply because of superior material and construction.

To those who know the Chattanooga Double Shovel Plow no argument is necessary. We are “lifting our hat” to the stranger to attract his attention. He wants what we have if he only knew we had it.

READ THIS: High Carbon Steel Blades fastened with two bolts. Steel Feet with correct bend so they don’t need resetting before used. Width between blades adjustable.

The best material, fashioned and finished in the best way. That is all, and—it is enough.

Hamiton Combination Planter

For Cotton, Corn and Peas. Made with or without Fertilizer Distributor

We have no hesitancy in claiming the “Hamilton” to be the best combination planter ever made. It is as near perfect as a planter can be made. It will pay for itself every season in the saving of seed, as none is wasted. The “Hamilton” is guaranteed to plant perfectly corn, cotton, peas and sorghum. The change from planting one kind of seed to another is easily and quickly made. Corn or peas can be planted 6, 12, 18, 24 or 48 inches apart.

In planting cotton the flow of seed is regular, from one to two seed at a time. If the seed or grain is sound, a perfect stand is guaranteed; it does not crack or mash the seed. The feed is positive and regular, so there is no danger of skips. The depth of planting the seed may be regulated. This planter is made of best grade of steel.

For Simplicity, Durability and Perfect Work there is no Planter that compares with the Hamilton.

<table>
<thead>
<tr>
<th>Item</th>
<th>Weight</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Planter</td>
<td>100</td>
<td>$12.00</td>
</tr>
<tr>
<td>Planter with Fertilizer Attachment</td>
<td>110</td>
<td>$15.00</td>
</tr>
</tbody>
</table>

The Crop Makers—20

21—The Crop Makers
The Chattanooga-Hancock
Single Disc Plow

For two or three horses.
Draft lighter than any other Disc Plow.
Turns corners either right or left.
Low steel frame. Weight 800 pounds.

Principle Right. Construction Right.
Results Right.

What It Does
It handles more cubic inches of soil with less draft than any plow on earth.
It turns under stalks, trash, and weeds completely.
It breaks up "hard pan" and pulverizes the soil.
It leaves the ground at bottom of furrow porous and natural.
It prepares the soil to withstand either a wet or dry season.
It insures better crops than any other method of plowing.

What It Is
It is so simple in design, so few in parts and so perfect in construction that any one can operate it, and its durability beyond question.

The Crop Makers—22

The Chattanooga-Hancock
Double Disc Plow

For three or four horses.
Draft lighter than any other Disc Plow.
Turns corners either right or left.
Low steel frame.
Weight 725 pounds.

Principle Right. Construction Right.
Results Right.

What It Does
It handles more cubic inches of soil with less draft than any plow on earth.
It turns under stalks, trash, and weeds completely.
It breaks up "hard pan" and pulverizes the soil.
It leaves the ground at bottom of furrow porous and natural.
It prepares the soil to withstand either a wet or dry season.
It insures better crops than any other method of plowing.

What It Is
It is so simple in design, so few in parts and so perfect in construction, that any one can operate it, and its durability beyond question.

The Crop Makers—23
The Chattanooga-Hancock
Triple Disc Plow

For four horses.
Draft lighter than any other Disc Plow.
Turns corners either right or left.
Low steel frame.
Weight 825 pounds.

Principle Right. Construction Right.
Results Right.

What It Does
It handles more cubic inches of soil with less draft than any plow on earth
It turns under stalks, trash, and weeds completely.
It breaks up "hard pan" and pulverizes the soil.
It leaves the ground at bottom of furrow porous and natural.
It prepares the soil to withstand either a wet or dry season.
It insures better crops than any other method of plowing.

What It Is
It is so simple in design, so few in parts and so perfect in construction that any one can operate it, and its durability beyond question.

The Chattanooga Reversible
Disc Plow

Plows "A Goin' and a Comin'."

The "Chattanooga" is the only successful Reversible Disc Plow built.
On steep hillside, where a team can walk and draw a plow, it works perfectly.
The combination of features in The Chattanooga Reversible make it the most valuable of all Disc Plows. It can be used right or left hand, plowing around the land, or Reversible, throwing furrows all one way. Will plow between terraces without leaving a water-furrow.

We Guarantee
Our
Reversible
Disc Plows
to do
Good Work

Not only in hard, dry and sticky ground, but to do good work in any fallow ground, either clean or trashy, on hillsides or level land; in short, to be good anywhere, at any time, when plowing can be done, except in sod land. We warrant against breakage for twelve months, caused by defects in material or workmanship.

The Crop Makers—24

25—The Crop Makers
Chattanooga Cane Mills

Patent Improved Three-Roll
Vertical Horse Power

Chattanooga Cane Mills

For Animal Power

The Old Red Mill

Ranging in size from light one-horse to four-horse.
Correctly proportioned according to mechanical principles.
Strong, light running, and the finest finished cane mills made.
For all varieties of sorghum and sugar cane.

We make more Cane Mills than any Factory in the World

The Crop Makers—26

Export Mill

No. 22. Large One-Horse Mill.
No. 24. Large Two-Horse Mill.
No. 23. Medium Two-Horse Mill.
No. 25. Medium Four-Horse Mill.

Highest Award World's Columbian Exposition

27—The Crop Makers
Chattanooga Cane Mills

Chattanooga

Three-Roll
Horse-Power

Cane Mills

Flange Roll
Detached and
Clutch Gearling

GOOD THINGS

Chattanooga Cane Mills have rolls and gear wheels connected by solid clutches. Also flanges on the large roll that work both above and below the edges of the small roll, keeping the cane in place. (See cut above.)

Chattanooga Cane Mills have gear wheels cast separate from the rolls. When a cog wears out or breaks, a new gear wheel can be produced at little expense, even if sent by express. When gear wheels are cast solid with the roll, breakage means large expense or long delay.

Chattanooga Cane Mills have the working parts enclosed so that a child can operate them safely.

Chattanooga Cane Mills have monkey wrench, oil can, bolts, and everything necessary to set them up, securely boxed and attached to mill.

Chattanooga Cane Mills have sloping lerer caps, which are the most simple and sensible. Either "straight" or "angle" caps will be furnished instead of sloping, if ordered that way. (See cuts below.)

Chattanooga Cane Mills demonstrate that a cane mill can be mechanically designed and constructed, and as well finished as other standard machinery.

Chattanooga Cane Mills have steel shafts, therefore they run with least friction.

Chattanooga Cane Mills have steel set-screws to adjust the rolls and regulate the pressure. They will not give way nor mash at ends.

Chattanooga Cane Mills have steel bolts which add strength and durability. They also have the nuts on top of mill instead of underneath, so that any part can be reached without lifting or moving the mill.

Chattanooga Cane Mills have patent bottoms which prevents juice from wasting or getting into oil boxes. There is ample room for removing cane chips and fibers.

Chattanooga Cane Mills have open channels leading into the lower oil boxes that will not clog. All parts of the mill can be oiled with a short-spool can.

Chattanooga Cane Mills have reversible feed boxes that will attach to either side of mill and require only a moment to change. Changing rests the stock and makes the mill run lighter and last longer.

Chattanooga Cane Mills have heavy brass boxes and malleable iron guide knives that will not break.

Chattanooga Cane Mills have rolls without "pin holes" that are perfectly round and tight on shafts.
 Chattanooga Cane Mills

For Steam Power

No. 72 and No. 76. Our Latest Design

All parts are on a single bed plate, so that they cannot get out of place and cause breakage or friction. The housings are same design as used in the largest Sugar-House Mills. The counter-gearing is at the end of the mill out of operator's way. All joints are planed. The rolls are turned true and are tight on shafts. Gear wheels are made from machine-cut metal patterns. Shafts, bolts and set-screws are steel. Boxes are Brass.

These mills geared for steam power can also be bolted to shafts driven by Turbine Water Wheels.

Water Wheel Irons consist of 2 Flanges, 2 Boxes, 1 Pair Clutch Couplings, 1 Shaft, and 32 Bolts for arms.

Water Wheels of the following sizes will furnish about the right power for Chattanooga Cane Mill:

<table>
<thead>
<tr>
<th>For No. 72 Cane Mill</th>
<th>For No. 76 Cane Mill</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diameter</td>
<td>Water Wheel</td>
</tr>
<tr>
<td>6 feet</td>
<td>6 feet, 20</td>
</tr>
<tr>
<td>12 feet</td>
<td>3 feet, 10</td>
</tr>
<tr>
<td>24 feet</td>
<td>1½ feet, 5</td>
</tr>
</tbody>
</table>

Uphard or Breast Water Wheels should be twice the size of Over-shot Water Wheels to give the same power.

Two Roll

Have steel shafts and chilled boxes. Gearing made from machine-cut patterns and cast separate from the rolls. Rolls and shafts are turned true. They have rolls 14 inches in diameter and 8 inches long, with all parts complete, ready for wood frame.
SELF-SKIMMING EVAPORATORS

Are made of heavy cold rolled copper or of galvanized steel made expressly for us. No solder is exposed to fire. The bars run entirely across and are bolted to the sides of the evaporator so that there can be no sagging in the center. They are durable, cleanly, simple and effectual in operation.

We recommend using same number evaporator as mill with Nos. 11, 12, 13 and 14 mills. If any variation is made from this rule, one number larger evaporator than the mill should be used.

We send extra sides to make evaporator deeper, and wood bars to set on top of any bar to divide evaporator into larger sections.

Where seams are necessary they are made double and at top of the bars.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
<th>Weight Steel</th>
<th>Weight Copper</th>
<th>Capacity (Gallons Syrup per Day)</th>
</tr>
</thead>
<tbody>
<tr>
<td>11</td>
<td>44 x 63</td>
<td>60</td>
<td>70</td>
<td>25 to 35</td>
</tr>
<tr>
<td>12</td>
<td>44 x 72</td>
<td>70</td>
<td>80</td>
<td>35 to 50</td>
</tr>
<tr>
<td>13</td>
<td>44 x 90</td>
<td>80</td>
<td>100</td>
<td>50 to 75</td>
</tr>
<tr>
<td>14</td>
<td>44 x 108</td>
<td>100</td>
<td>120</td>
<td>65 to 100</td>
</tr>
<tr>
<td>15</td>
<td>44 x 126</td>
<td>120</td>
<td>140</td>
<td>80 to 125</td>
</tr>
<tr>
<td>16</td>
<td>44 x 144</td>
<td>150</td>
<td>150</td>
<td>100 to 175</td>
</tr>
<tr>
<td>18</td>
<td>44 x 180</td>
<td>175</td>
<td>200</td>
<td>125 to 300</td>
</tr>
<tr>
<td>21</td>
<td>60 x 180</td>
<td>250</td>
<td>300</td>
<td>200 to 250</td>
</tr>
</tbody>
</table>

STANDARD COOK PANS

We make six sizes of these popular evaporators in both galvanized steel and copper, and sell them by the running foot.

Order by number to avoid mistake.

<table>
<thead>
<tr>
<th>WIDTH</th>
<th>LENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. 2</td>
<td>42 inches</td>
</tr>
<tr>
<td>No. 3</td>
<td>42 inches</td>
</tr>
<tr>
<td>No. 4</td>
<td>42 inches</td>
</tr>
<tr>
<td>No. 5</td>
<td>42 inches</td>
</tr>
<tr>
<td>No. 6</td>
<td>42 inches</td>
</tr>
<tr>
<td>No. 8</td>
<td>42 inches</td>
</tr>
</tbody>
</table>

Rocker Furnaces

We make rocker furnaces on order, but do not carry them in stock; the price is same as our regular furnaces.
PORTABLE STEEL FURNACES AND EVAPORATORS

Chattanooga furnaces are constructed of angle and sheet steel. They are very heavy and set squarely on legs. Broad bearings at the top allow the evaporator to rest evenly and prevent the fire from getting through and burning its sides.

We do not depend on sheet iron for strength of furnace. We depend on a frame made of angle steel, then add the strength of heavy sheet steel riveted on.

We make the heaviest, strongest and most durable portable furnace on the market.

An entire outfit may be loaded on a wagon and moved from place to place. Eight to thirty-two feet (according to size of furnace) of 12-inch pipe sent with each furnace. Legs are made truss form and will not bend or break. Front has a cast iron lining which keeps it from cracking.

Follow directions carefully for “setting up” and using portable furnaces.

CAST IRON KETTLES

Our kettles are heavy and smooth. They hold the number of gallons represented.

<table>
<thead>
<tr>
<th>Size</th>
<th>Weight</th>
<th>Diameter</th>
<th>Depth</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>20 gallons</td>
<td>85 pounds</td>
<td>37 inches</td>
<td>11 inches</td>
<td>$4.00</td>
</tr>
<tr>
<td>25 gallons</td>
<td>100 pounds</td>
<td>38 inches</td>
<td>12 inches</td>
<td>5.00</td>
</tr>
<tr>
<td>30 gallons</td>
<td>130 pounds</td>
<td>40 inches</td>
<td>13 inches</td>
<td>6.00</td>
</tr>
<tr>
<td>40 gallons</td>
<td>180 pounds</td>
<td>42 inches</td>
<td>14 inches</td>
<td>7.00</td>
</tr>
<tr>
<td>50 gallons</td>
<td>200 pounds</td>
<td>45 inches</td>
<td>15 inches</td>
<td>8.00</td>
</tr>
<tr>
<td>60 gallons</td>
<td>280 pounds</td>
<td>51 inches</td>
<td>16 inches</td>
<td>10.00</td>
</tr>
<tr>
<td>80 gallons</td>
<td>380 pounds</td>
<td>56 inches</td>
<td>17 inches</td>
<td>12.00</td>
</tr>
<tr>
<td>100 gallons</td>
<td>600 pounds</td>
<td>61 inches</td>
<td>18 inches</td>
<td>15.00</td>
</tr>
<tr>
<td>150 gallons</td>
<td>900 pounds</td>
<td>67 inches</td>
<td>20 inches</td>
<td>20.00</td>
</tr>
<tr>
<td>200 gallons</td>
<td>1200 pounds</td>
<td>76 inches</td>
<td>24 inches</td>
<td>30.00</td>
</tr>
</tbody>
</table>

Fittings for Brick and Stone Furnaces

- Furnace front and door: $4.00
- Heavy furnace front and door: 8.00
- No. 72 heavy furnace front and door: 8.00
- Back plate, with collar for pipe: 2.50
- Grate: 3.00
- 6 heavy grate bars and bearing bar: 8.00
- 9 heavy grate bars and bearing bar: 12.00
- Pipe, per joint, 10 or 12 inch: 75
- Skimmer: 35
- Saccharometer: 75
- Saccharometer tubes: 50

Hose and pipe: Write for prices

Galvanized steel

Sheet copper

Copper nails

Copper rivets

Gallon measures

Dippers
Setting Portable Furnace. Place the front toward the prevailing winds. Set flat stones in ground, level with the surface, for legs to rest on. Set level. Line the sides and bottom with brick or stone and mortar or clay. Let top edge of lining be the width of a brick. Dig an ash pit under the grate and fill with water so that fire dropping from the grate will be extinguished. Set the grate in its place with hollows up, and fill the hollows with clay.

Building Brick or Stone Furnaces. Lay the foundation 42 inches wide for 44-inch evaporator, and 54 inches wide for 60-inch evaporator, and as long as necessary for the evaporator and the chimney. Start the walls at the bottom of the furnace 12 inches thick, leaving a space for the ash pit 15 inches wide. Build these 12-inch walls, also a cross wall to support the back end of grate 18 inches high. Set grate and furnace front. Above grate draw outside and inside to 4 inches wide at top.

Place evaporator on furnace, with finishing end next chimney, wedge it up until water shows it level. Remove evaporator and spread mortar on furnace, level with the top of wedges, then set the evaporator permanently. Be careful that fire can not get between the top of the furnace and evaporator. It will burn the sides of evaporator.

Before commencing syrup making, provide good wood—not over three feet long—a supply of water, a juice tank and cooler for syrup and plug for finishing outlet. For large evaporators, troughs or pipes for conveying the juice to tanks will save labor. Put enough water in evaporator to cover bottom and prevent burning. Start fire and when water boils partially open faucet of tank and plug at outlet, and let the juice slowly follow the water through the sections. Regulate the flow so that the syrup is finished when it arrives at the outlet. A continuous process is always the aim.

The juice should be kept below the tops of the bars in the front end, and as shallow as possible at the finishing end. As the juice boils the foam may rise so as to cover the bars, but the mass of liquid will continue its flow through its sections. If a regular heat is kept up and the flow of the juice is regulated, no change of faucet or plug need be made, and the syrup will flow uniformly at any density desired.

If heat is irregular, use plugs in the cups to regulate the flow of the juice. Be careful not to change the plugs in the cups suddenly, nor allow any part of the evaporator bottom to become dry, and guard against flooding in any of the departments, as it causes a mixture of juices and requires a longer exposure to heat, rendering the syrup dark in color.

A shallow body of juice, with a high heat, insures the greatest speed and purest syrup. The scum should be taken off only as it collects at the sides of the evaporator. Wind blowing on the evaporator retards evaporation. Clean tubs and skimmers, and renew straw in the juice tank every evening.

When quitting work let water follow the juice until all the latter is reduced to syrup, then wash evaporator and leave full of water.

To insure success, follow the above rules.