

CARRIAGE MACHINE EQUIPMENT

Dairy Processing and Packaging Solutions



Bottle Filler & Capper (Automatic).....	2
Capper Attachments	3,5
Custom Conveyors	3
Bottle Filler & Capper (Semi-Automatic)...	4
Bottle Template Trays & Pushers	5

Semi-Autocycle	6
Caster Option	7
Milk Pump Assembly	7
Butter Churns	8-10
Yogurt Drain Crates	11

CONTENTS

Photo Gallery & Custom Equipment...	12-13
Plastic Bottles.....	14
Replacement Parts	16-18
Replacement Butter Churn Parts.....	19

Fully Automatic

4070 Bottle Filler & Capper

Bottle your milk with simple efficiency with the help of our Fully Automatic Bottle Filler & Capper! Place your empty glass or plastic bottle on the conveyor, and the machine will do the rest, perfectly prepping it for the store shelf.

The unique craftsmanship of our machinery, designed for grade A use, and its digital operating screen makes for quick and easy operation. To simplify things further, add an optional product pump and level control. This machine can be operated by just one person, so get ready to amp up for production and your sales!

- Fills glass or plastic bottles
- Compatible with SC2, DBJ screw cap, or Stanpac Snap Caps
- Choice of capper (see next page)
- Removable star wheels to accommodate different bottle sizes
- Adjustable filler bowl to accommodate different bottle heights
- High capacity Fogg fill valve w/ 6 gallon adjustable reservoir
- Lid for storage vat equipped with ports and a vent
- Fills up to 200 gallons or 300 1/2 gallons per hour
- Touchscreen for user-friendly operation
- Cycle counters for tracking production
- Includes infeed and outfeed conveyor
- Stainless steel construction with rounded corners for easy cleaning
- Polycarbonate bottle shield
- Adjustable feet for leveling

Shown with 4070 Screw Cap Capper for Plastic and Auto Cycle.



Dimensions	
L	10ft
W	3ft
H	6ft 8in

4070 Screw Cap Capper for Plastic

- Adjustable torque screw cap tightener
- All food-grade plastic
- Easy wash-down design
- Inclined belt cap sorter
- Stainless cap chute with cap level sensor
- Clear polycarbonate conveyor covers
- Adjustable height chute for various bottle sizes
- Cap bin



4070 Stanpac Glass Capper

- Automatic cap stomper
- All food-grade plastic
- Easy wash-down design
- Inclined belt cap sorter
- Stainless cap chute with cap level sensor
- Clear polycarbonate conveyor covers
- Adjustable height chute for various bottle sizes
- Cap bin



4070 Snap Cap Capper for Plastic

- Automatic cap stomper
- All food-grade plastic
- Easy wash-down design
- Spinner cap sorter design
- Stainless cap chute
- Adjustable height chute for various bottle sizes
- Cap bin



CAPPER

CHOOSE BOTTLE SIZE TEMPLATES MADE TO FIT

Various sized star wheels, guides & lifters



Fogg filler valve spacer rings and extra O-rings



TEMPLATE

Fully Automatic Bottle Filler & Capper in operation



Custom Conveyors

Any length you need!



OPTIONS



Semi-Automatic 4060 Bottle Filler & Capper

Get ready to bottle more milk with our **Semi-Automatic Bottle Filler & Capper** equipment! The unique craftsmanship of this machine makes both operating and cleaning a breeze. Designed for grade A use, this machine works with both glass and plastic bottles.

Add on the optional product pump, level control and Auto Cycle options with a sleek, clean digital operating screen. Perfect for low volume product runs. This process can be overseen by just one person, but to maximize efficiency, it works best with two. Get ready to crank out the milk and crank up your sales today!

Shown with 4060 Screw Cap Capper for Plastic and Auto Cycle and 4064 Semi Auto Cycle option.

- Fills glass or plastic bottles
- Compatible with SC2, DBJ screw cap, or Stanpac Snap Caps
- Choice of capper (see next page)
- Removable template to accommodate different sized bottles
- Adjustable filler bowl to accommodate different height bottles
- High capacity Fogg fill valve
- Lid for storage vat equipped with ports and a vent
- Fills up to 200 gallons or 300 1/2 gallons per hour
- Stainless steel construction with rounded corners for easy cleaning
- Polycarbonate bottle shield
- Counterbalanced manual foot pedal or Auto Cycle
- Adjustable feet for leveling
- Caster option



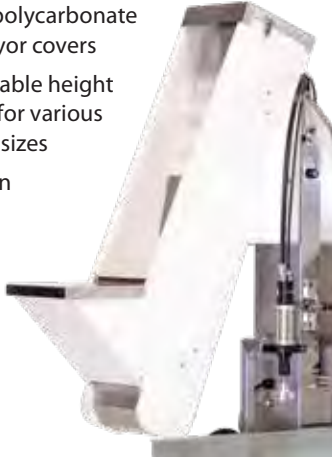
Castors available

Dimensions

L	5 ft
W	2 ft
H	7 ft

4060-SCREW Screw Cap Capper for Plastic

- Adjustable torque screw cap tightener
- All food-grade plastic
- Easy wash-down design
- Inclined belt cap sorter
- Stainless cap chute with cap level sensor
- Clear polycarbonate conveyor covers
- Adjustable height chute for various bottle sizes
- Cap bin



4060-GLASS Stanpac Glass Capper

- Automatic cap stomper
- All food-grade plastic
- Easy wash-down design
- Inclined belt cap sorter
- Stainless cap chute with cap level sensor
- Clear polycarbonate conveyor covers
- Adjustable height chute for various bottle sizes
- Cap bin



4060-SNAP Snap Cap Capper for Plastic

- Automatic cap stomper
- All food-grade plastic
- Easy wash-down design
- Spinner cap sorter design
- Stainless cap chute
- Adjustable height chute for various bottle sizes
- Cap bin



CAPPER

Bottle Template Trays & Pushers

- Heavy gauge stainless steel
- Adjustable
- Quick change
- Easy to clean



4023A Bottle Pusher for templates C, D & H



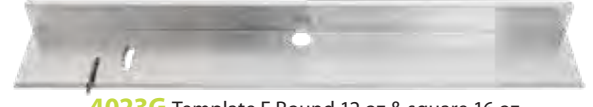
4023B Bottle Pusher for templates E, F, G & I



4023E Template C for tall quart



4023F Template D for round pint



4023G Template E Round 12 oz & square 16 oz



4023C Template A for plastic gallons



4023G Template F StanPac glass half gallon



4023D Template B for plastic half gallon & squat quart



4023I Template G StanPac glass quart & squat pint

TEMPLATE



Manual Foot Pedal Setup

Cost effective, low-maintenance setup for your bottler! Comes standard.

- Counterbalanced manual foot pedal
- No air supply required
- Simple operation



(rear view)



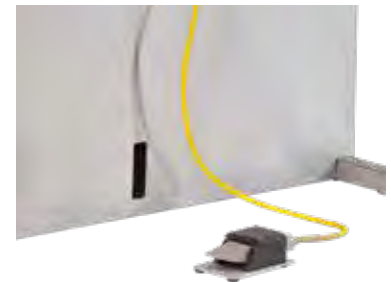
4064 Semi Auto Cycle

Easier and less strenuous on your bottler operator compared to the manual version!

- Automated foot pedal
- Manual & auto modes
- Automated capper
- Job cycle counters for tracking production
- Requires air supply 90 psi
- Timed fill time



(rear view)



4106 Swivel Caster Option

Swivel casters make machine transporting easy!



4070 unit



4060 unit





4044 Milk Pump Assembly

This product pump boasts premium stainless steel as well as a 1HP TEch Top Motor and a Ben Anderson Style Milk Pump with a 4 blade impeller. Built to handle high-pressure wash-downs, this versatile pump just might make your life a whole lot easier. This pump is ready to plug in and transfer milk from tank to pasteurizer or tank to tank. You can expect up to 50 GPM depending on total milk solids.

- 1 HP
- 110V, 60Hz, single phase
- 50 GPM
- Stainless steel
- Wash-down capable

4044 MPCB Vari-speed Control Box



- 110V, 60Hz, Single phase power source
- 220 3-phase output
- Heavy duty plastic box construction
- Dual selector switch for probe level controller or manual operation
- 1 HP frequency drive

4044 PIPE KIT

- Basic SS Piping and Check Valve for Pump System Connection to Fillers



4044 PROBE Level Controller

- SS probe
- Stainless level adjustment bracket



4044 PUMP

- Ben Anderson milk pump
- 1HP Tech top wash-down motor
- Available in 110 single phase or 220 3-phase for frequency drive box
- 4 blade impeller style



8-Gallon 4050-8BC Butter Churn

**MOST
POPULAR
SIZE!**

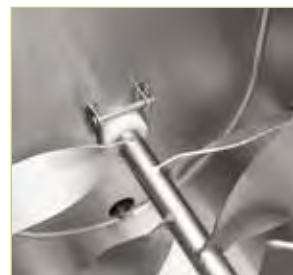
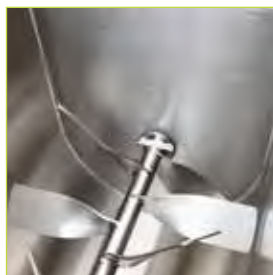
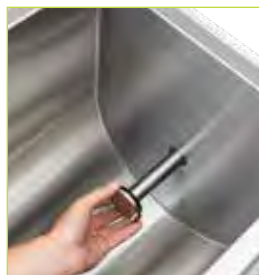
The stainless steel **8-Gallon Butter Churn** allows small farmers to take butter-making to the next level! This sturdy, reliable piece of equipment offers a fast and efficient way to turn gallons of cream into delicious, farm-fresh butter.



- Variable frequency drive to adjust different speeds
- Removable paddle and rounded edges for easy cleaning
- Adjustable angles for draining and washing
- Plugs into a regular 110 volt outlet
- Water jacket for adjusting temperature
- Minimum fill: Approximately 30% of total capacity = 2.5 gallons
- Maximum fill: 8 gallons

Dimensions

L	40"
W	22"
H	40"



Removable paddle & drive shaft designed for easy cleaning.

35-Gallon

4051-35BC Butter Churn

The stainless steel **35-Gallon Butter Churn** allows small farmers to take butter-making to the next level! This sturdy, reliable piece of equipment offers a fast and efficient way to turn gallons of cream into delicious, farm-fresh butter.

- Variable frequency drive to adjust different speeds.
- Removable paddle and rounded edges for easy cleaning.
- Adjustable angles for draining and washing.
- Plugs into a regular 220 single phase outlet
- Water jacket for adjusting temperature.
- Minimum fill: Approximately 30% of total capacity = 10 gallons
- Maximum fill: 35 gallons



Dimensions

L	72"
W	30"
H	42"



Churn can rock back & forth to work the butter and remove all buttermilk. Also helpful for washing.



Enclosed water-proof electrical control box with frequency drive for speed control.



2-Gallon

4003 Homeowner's Butter Churn

(Drill not included)

A simple way for any homeowner to turn a gallon of cream into butter!

- FDA approved food-grade plastic bucket w/ snap-on lid
- Stainless steel paddle
- Powered by drill
- 2 gallon capacity
- Strong handle
- Can be disassembled completely for washing

MAKES
A GREAT
GIFT!



Homemade Butter Instructions

Step 1: Proper Temperature

Clean and sterilize the butter churn. Fill bucket halfway with cream and allow cream to warm to 50-55° F in summer and 55-60° F in winter for churning.

Step 2: Churning

Insert paddle into small housing on bottom of bucket and feed shaft through bucket's lid. Tightly secure lid and attach power drill to the paddle's shaft. Run drill at medium speed until butter has separated from the liquid (takes 10-15 minutes if conditions are right).

Knowing when to stop: Churn until the butter granules start to "chunk up" and stick together and separate from the liquid (buttermilk).

Step 3: Washing the Butter

Pour contents of bucket into a strainer set over a bowl. Reserve the buttermilk for cooking or drinking (refrigerate immediately). Rinse under very cold water while squeezing and kneading the butter until the water

runs clear. *The cloudy water is buttermilk which must be washed out or it will produce off-flavors in the butter. Discard this cloudy liquid.*

Step 4: Shaping

When the butter is clean, work with a wooden spoon or rubber spatula to press out any remaining liquid. Discard this liquid. If desired, add salt to the butter. (Salted butter will keep longer.)

Step 5: Storage

Transfer the butter to a clean container or plastic wrap for keeping, pressing with a wooden spoon or spatula to dispel any air bubbles. Refrigerate or freeze until ready to use.

For a delicious twist, try adding

- Honey & cinnamon
- Fresh parsley, tarragon & thyme
- Roasted red pepper & garlic
- Lemon zest, lemon juice, fresh dill

Be sure to thoroughly wash and dry the bucket and paddle after each use!

4028 CRATE

Yogurt Drain Crate

Cost effective whey drainage system for the small creamery!

- For Greek style yogurt
- Heavy duty stainless steel
- Stackable design
- 8 gallon capacity
- Lift handles

Dimensions	
L	19.5"
W	16"
H	7"



4028 Drain Crate Stacking Cart & Stacking System

Get organized! Turn your yogurt drain crates into a system for easy whey collection and mobility.

- Heavy duty stainless steel
- Heavy duty casters
- Stainless dividers
- Drain port
- 24 gallon bottom collection pan
- Holds 24 trays

Dimensions	
L	70"
W	22"
H	60"

EASY TO MOVE AROUND!





Product Gallery

See some of our products in action, along with recent custom equipment we've built. Feel free to call anytime to discuss your unique needs and we'll work to fit you with the best equipment or create a new solution just for you!

Yogurt Draining Crate System for Eli Franklin of NY



35 gal. butter churn for Halsey Cheese



Automatic bottle filler and conveyor line for Stanpac glass bottles at Keystone Pacific

Cap applicator chute on the Automatic Bottle Filler



Custom cupping machine for Valley View Cheese of NY



Parts rack for Valley View Cheese of NY






Your Quality Products Deserve Classy Packaging

**SAFE
ALTERNATIVE
TO GLASS**



- Safe alternative to glass to keep products fresh
- Great for milk, juices, cider, yogurt smoothies, & other liquids
- Freezable
- SCII neck finish for the snap cap
- P.E.T.E. bottle (polyethylene terephthalate)
- Recyclable plastic #1 (most commonly accepted plastic in curbside recycling programs) 
- BPA Free
- MADE IN THE USA



MILK PROCESSING EQUIPMENT WARRANTY

12 MONTH LIMITED WARRANTY:

Your milk processing equipment from Carriage Machine Shop LLC (CMS LLC) is warranted for a period of 12 months from the date of manufacture, subject to the terms & conditions as follows:

- CMS LLC will repair or replace any part of our milk processing equipment which becomes faulty within a period of 12 months from purchase, provided the milk processing equipment is returned to us, shipping paid, and that the milk processing equipment has only been used in the normal and correct way. We reserve the right to change/improve specifications from time to time without notice. **Any repairs or modifications performed by anyone other than CMS LLC automatically voids this warranty.**
- Parts: CMS LLC will replace, at no charge to the owner, any defective parts which CMS LLC determines affects the operation of the milk processing equipment. Replacement parts will be shipped to the owner. Owner is responsible for shipping costs.
- Labor: The owner may at his option and with CMS LLC approval, have the milk processing equipment shipped to our shop for repair. All labor and material costs for repair at the factory will be borne by CMS LLC, but the owner assumes all shipping costs. **Should the owner choose a source other than CMS LLC to repair the milk processing equipment, this warranty will be voided and CMS LLC no longer assumes responsibility for the milk processing equipment.**
- Warranty applies to original owner only.

SHIPPING DAMAGES:

Shipping damages must be reported within 24 hours of delivery. Please keep your milk processing equipment and all packing materials for possible inspection. If the milk processing equipment returned under this clause is found to be perfect and in full working order, the equipment will be returned to you and an administration fee of 15% of the purchase price plus the shipping cost back to you will be charged.

RETURNS:

No returns will be accepted unless authorized by a representative of CMS LLC. Merchandise will be credited when it is in our warehouse. Return shipping costs must be prepaid. A 25% restocking fee applies to all returned or refused merchandise. No returns will be accepted after 30 days unless upon agreement. Items to be returned must be in original condition.

NOTICE: Carriage Machine Shop will not be liable or responsible for any type of accident that may arise from any of our products. Use all of our products at your own risk.

**For replacement parts or service,
please contact the manufacturer:**



REPLACEMENT PARTS

A211SS-024-D

ARO 4 way 1/8" Solenoid / Spring Valve 24 volt (A211SS-024-D) Includes the air supply and exhaust fittings



SA2000

SA-2000/2010-2S-55-DD Mounted Capping Power Unit (No Chuck or Inserts)



5128A44

Low-Profile Hold-Down Toggle Clamp, Open Arm, 18-8 Stainless Steel, 500 lbs. Holding Capacity



4061M2

1LPW2 DC Gearmotor 21 RPM 90V 50.0 in/lb TENV



4063M1 (KIT)

Spinner Capper MOTOR PARTS KIT Includes (Capacitor, capacitor Bracket and rubber, cord Breaker, din rail and switch parts,



70355K99

Power Cord, NEMA 5-15 Plug, 14 Wire Gauge, 9 Feet Long, SJTW



STPU-2000-2S

STPU-2000-2S-4 stainless steel capping head for SA-2000/2010 capping machines. (No Chuck or Inserts)



4070G10-1

Silicone Rubber Bottle Grip Disc



315L075

L Series Timing Belt 84 Teeth 31.5 Outer Circle .75 wide



4063M2

Spinner Capper GearMotor Only 115 VAC 1 Phase 139 RPM 1/25 HP 12.1:1 Gear Ratio Permanent Split Capacitor Type



4063 TOP FEED

Snap Cap Top Feed Chute Assembly



4063

Snap Cap Applicator Chute



4062A

Screw-Glass Capper Top Feed Chute



4062K

DBJ Screw Cap Applicator Chute



2531K162

Bolt-Down Swivel Leveling Mount with Cushion, 3" Long 5/8"-11 Threaded Stud and 3" Base Diameter



7880T344

Push-to-Connect Tube Fitting for Air and Water, Through-Wall Adapter, 1/4" Tube OD x 1/4 NPT Female bulkhead



83685T16

Corrosion-Resistant Swivel Leveling Mount, 304 Stainless Steel with 3/8"-16 Threaded Stud, 700 lbs. Capacity



SA2000

Chuck



9268K85 (SET)

Plastic Connector with Knobs, for 1/2" Diameter Rod



4062J

Glass Cap Applicator Chute



6890K2

303 SS Easy-Clean Knob with 5/16"-18 Threaded Stud



6026T12

SS Aro Quick Disconnect Hose Coupling



94135K16

302 Stainless Steel Corrosion-Resistant Extension Spring with Loop Ends, 2.5" Long, 0.188" OD, 0.023" Wire Diameter



S37102742062

Flexible Draw Latch Lever Stainless Steel



94135K72

302 Stainless Steel Corrosion-Resistant Extension Spring with Loop Ends, 1.125" Long, 0.234" OD, 0.020" Wire Dia



9268K137

5" Long Hollow Mounting Rod with Two Bolt Clamp for Conveyor Guide



503-222

Fogg Valve Sleeve Tool



1145

Valve Kit



110-0555

Fogg Spacer Seal 0.38 LG 0.98 ID 2.00 OD



110-0055

Fogg Spacer Seal 0.13 LG 0.98 ID 2.00 OD



110-0175

Fogg Spacer Seal 0.25 LG 0.98 ID 2.00 OD



503-133-VKI

Fogg Filler Valve Kit



SA 2000 LINER

L134A White Rubber Liner 55 Durometer



503-104A

Fogg 4FA Valve Diaphragm (32 D)



503-134

Fogg Valve Sleeve R1.125 x 1.50



MQ-5862-120

Fogg Spacer Kit



EZ10438

1-1/2 Milk Pump Check Valve assembly



503-624

Fogg Splash Deflector



4059 FILL TUBE

Fill Tube for Vat



4059 VAT

Bottler Vat with Fogg spud welded in



4059 LID

14" LID with ports for Vat



Butter Churn Parts

UCF20928KML

1-3/4 Face Mount Bearing
(35 Gallon BC)



2833T521

Swivel w/ Lock Caster



4051M4

Brass Drive Shaft Receiver Assembly
(35 Gallon BC)



2833T55

Rigid Caster



4051M5

Stainless Removable Drive Shaft
assembly
(35 Gallon BC)



SO003739405004

Swivel SS Caster Total Lock



UCF20824KML

1.5" Flange Mount Bearing
(8 Gallon BC)



SO003739405004

Straight Ss Caster



4050V4

Brass Drive Shaft Receiver Assembly
(8 Gallon BC)



98470A385

Shoulder-Style Ring-Grip Quick-
Release Pin, 18-8 Stainless Steel, 3/8"
Diameter, 2-1/2" Usable Length



4050V5

SS Removable Drive Shaft assembly
(8 Gallon BC)



92391A044

18-8 Stainless Steel Hairpin Cotter
Pin for 5/16"- 3/8" Pin Diameter, 5/64"
Wire Diameter, 1/4" Eye Diameter

9562K48

Stretch Fit Seal For Shaft





Manufactured by:



Carriage Machine Shop, LLC
250 Maple Avenue
Bird-in-Hand PA 17505
717-397-4079



MADE IN USA