OVER 75 LINES INSTALLED WORLD WIDE!

BEST IN CLASS
- TPO’s Guaranteed
- Fill Level Accuracy
- CO₂ Retention

BEER & BEVERAGE CAN COUNTER PRESSURE FILLING & SEAMING TECHNOLOGY

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## Counter Pressure Versus Open Top Filling Systems

**Counter Pressure** | **Open Top Competitors**
---|---
**Fills at Nominal Volume** | Yes | No *
- Counter pressuring filling does not create foaming during fill, unless beer is above 36°F. Counter Pressure filling leaves 0.50” headspace, required by can manufacturers for product expansions and potential warming during distribution. Open top filling foams during fill with loss of carbonation and less accurate fills at nominal volume.

**Foams during Fill** | No | Yes **
- **Open top must foam during filling to clear head space. This type of fobbing is high in oxygen and creates high DO’s in head space. Most open top fills are to the top of can flange to minimize air in the head space. This lowers yield.**

**Overfills to Clear Head Space** | No | Yes ***
- **Open top filling requires over filling to top of flange to eliminate oxygen in the head space. Most mobile canners only monitor low fills and allow over fills for keeping TPO down.**

**Fobs after Fill** | Yes | No ****
- **Counter pressure fillers fob with water or beer jet after fill to eliminate head space and exposure to atmosphere. Jet fobbing is the practice used by major breweries.**

**Calculated TPO Measured @ Fill Added** | <100PPB | >100PPB *****
- **** We have tested with our own Hach 3100 DO meter many open top fillers at breweries in Chicago and none have ever been lower than cans filled on our CraftBloc systems. This has also been confirmed by Hach service specialist who have tested cans filled on our CraftBloc and open top competitors.

**Speeds Greater Than 100 CPM** | Yes | No
**Fills Beer @ Greater Temperature Range** | <38°F | <32°F
**Used by Major Craft or Commercial Breweries** | Yes | No
**Are TPO Claims Guaranteed?** | Yes | No
**Are Fill Level Accuracy Guaranteed?** | Yes | No
**Are Speed Claims Guaranteed with Beer Above 32°F?** | Yes | No

**Summary:** While our low range 50 CPM fillers are typically $40,000.00 higher in cost to open top systems, our CraftBloc canning lines offer production grade systems that lower man power, provide higher quality fills, and more dependable seams.
CRAFTINLINE™

In-Line Counter Pressure with Purge to Atmosphere Technology
Beer and Beverage Can Filling and Seaming Systems
25-30 Cans Per Minute Production

Fill Head
• Our 5-head filler with 316SS ProPurge valves provides a true purge to atmosphere and laminar product flow for unagitated fills and low oxygen pick up.
• 316SS filler tank is hygienically designed with CIP recirculation and Sanitation. Easy installed valve caps for complete cleaning during CIP.
• Down Stream CO2 Bubble Breaker and Jetting for head space purge.
• Our conveyor is stainless steel frame with spray ports for easy cleaning. Rexnord belting with Nord drive and wash down grade lube free bearings.
• Optional Liquid Nitrogen Dosing unit for Head Space purge for still and low foaming products.

Seam Head
• Our single head seamer design is servo driven with cam actuated double 1st and 2nd operation rolls. With stainless steel gearbox and drive components.
• Single Head All Stainless Mechanical Seamer is hygienic, easy to adjust, and maintain.
• Our tooling chucks are titanium nitride coated for B64, CDL profiles and mounted to stainless shaft assembly. Our 1st and 2nd operation roll assemblies are titanium carbide coated with stainless steel sealed roller bearings for long life and easy maintenance.
• Optional Sterile filling with enclosed cabinet and sanitation misting.
• The pneumatic can lift assembly is easy to adjust for counter sink depths.

End Feeder
• Our proven end feeder assembly is screw feed into a drop chute with spring loaded lid placement roller for consistent make up. Lid under cover gassing is standard. Lid tamper rail for added stability into tool head.
• SMC Pneumatics are wash down grade throughout system.

Electrical
• Stamped Electrical and Safety. We use NEMA4x cabinets with IP67 field electrics. Includes system status light and CAT3 safety doors. 230V/60/50HE/3 Phase

Small Foot Print
• 7 feet x 3 feet

Service and Support
• Installation. Our technicians will help startup, run production and train within a week at additional cost.
• On-Going support. Our technical services and parts support are unmatched in the industry.
• Seam Training. We provide on-site and in-house training in theoretical and hands on applications.

Optional Equipment
• Manual De-Pal and empty can rinse.
• Packoff or feed tables
• Discharge conveyor with rinse, dry and pack.
• WaveGrip G1 Manual 4/6 packing unit.
• Pressure sensitive labeler

Can Types
• Standard, sleek or slim

Can Volumes
• Any
**CRAFTBLOC™**

Rotary counter pressure with purge to atmosphere technology
beer and beverage can filling and seaming systems

60-600 cans per minute production

**Features:**
- Rotary counter pressure filling
- Compact Monobloc design
- Purge to atmosphere ProPurge™ valve technology
- USA made valve components
- Interlocked safety doors
- USA made can lift assemblies
- Stainless steel seamer—USA design/Taiwan made
- Automated line control
- CO₂ under-lid gassing manifold
- Enclose cabinet
- USA made seam tooling and components
- 3A sanitary-compliant filler bowl with passivation ASTM A967
- Stainless steel frame and base plate
- Stainless steel seam head and base

**General operating specifications:**
- Adjustable production speed: 60-700 cans per minute
- Filling valves: 12/24/36/48/60/72
- Seaming heads: 1/4/6/8/12
- Filling accuracy: <5 grams (5 ml)
- Filling temperature: <35° F
- Voltage: 230/480v/3-phase/60 Hertz/400v optional
- CO₂ consumption: 6-10 CFM @ 60 PSI
- Air consumption: 2-6 CFM @ 80 PSI
- UL/CE/CSA electrical and safety compliant
Main Systems Features:
• Total enclosed system with polycarbonate glass windows and 304 stainless steel platform and tray
• 304 stainless steel bowl design with precision interior polishing – 3A-compliant – 316 optional
• USA-made, ProPurge™ filling valves
• Operating panel with HMI touch screen
• PLC control for entire system and synchronization of filler, seamer, and can conveyance
• “No Can/No Fill” sensor
• “No Scratch” UHMW can handling
• Mechanical cam-driven seaming – heavy duty – Continental 450
• Seaming tooling – Titanium Carbide and Nitride coated rolls and chucks with ceramic bearings
• CIP connection for rinsing and cleaning
• CIP valve caps

Component Specifications:
• Main drive motor: 5-10 HP
• Main bearing: Slewing Type (stainless)
• UL listed electrical and CAT3 safety
• Electrical Nema 4X enclosures
• Electromagnetic control valve
• Taper bearings: Koyo-FAG-Timken
• Roller bearings: EZO-SKF
• VFD: Schneider
• Touch screen: Siemens
• PLC: Siemens
• Contactors: Schneider
• Breakers: Schneider
• Pneumatic components: SMC
• Valve seals: FDA Viton
• Proximity switch: Schneider
• Conveyance: Rexnord/System Plast
PROPURGE™
Can Filling Valves

Features:
- Purge to atmosphere technology
- Fluid flow nozzle
- Separate sniffer port
- Valve screen
- Check ball gas tube
- Bayonet type CIP cap

Benefits:
- Low oxygen in solution less than 25 ppb
- Accurate fill levels within +/- 2ml of nominal
- Lowers CO² consumption reduced foaming
- Less fill agitation
- No product in sniffer block
- Positive valve shutoff
CRAFTInLine CAN FILLING AND SEAMING

30 CPM (2400 CPH) based on 12 oz.
CRAFTInLine CAN FILLING AND SEAMING
CRAFTBLOC 24/4-200 CPM FILLER/SEAMER
Empty can stainless steel de-palletizer

**Highlights:**
- Less < 0.1% down cans
- Stainless steel design/washdown
- UL/CE/CSA electrical and safety compliant
- 3-year warranty
- Zero can dents
- Low maintenance machinery
- Based on good pallets without voids or bent tier sheets

**Features:**
- Palmer Canning Systems features an automatic de-palletizer on our canning lines.
- Automatic de-pal for 50-700 CPM canning lines. This de-pal has a small foot print yet is full of innovations for keeping canning line labor down and efficiency up.
- Quick changeover features for all size cans. Handles full height 44" x 56" can pallets. Euro pallets too!
- Loads with low profile pallet jack or fork lift.

**System Highlights:**
- Automatic pallet lift for all size cans
- Automatic discharge of cans
- Automatic layer sheet removal w/stacking tray
- Automatic top frame removal

**System Features:**
- Stainless steel frame
- Low air consumption
- Touch screen HMI
- Inter-locked safety door
- UL safety and electrical
- Leveling pads

**Complete Solutions Offered:**
- Mass and single file conveyors
- Can wash tank and gravity fittings
- Pallet conveyor

**Technology Highlights:**
- IGUS linear slide
- SMC pneumatic control system
- 6" HMI color interface
- Nema 4X enclosures
- Built-in VFDs
- Igus linear bearings

**Optional:**
- Dunnage elevator
- Pallet feed conveyor
- Platform & stairs
- Ionized air rinse
- Down can chutes

**Utilities:**
- Electrics: 208-480V / 60 Hertz / 3 Phase
- Air - 70 PSI @ 4 CFM
- Power requirement: 25 Amps
DE-PALLETIZER WITH SINGLE FILE CONVEYOR

CRAFTBULK DE-PALLETIZER 30-800 CPM

PALLETON CONVEYOR

60” MASS FLOW
CRAFTBULK DE-PAL WITH DUNNAGE ELEVATOR AND PLATFORM
CRAFTBULK DE-PALLETIZER
OPERATION CONTROL SCREENS

PLC/HMI Programming
## CraftBulk De-Pal Versus Other Manufacturers

<table>
<thead>
<tr>
<th>Feature</th>
<th>CraftBulk</th>
<th>Others</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stainless Steel Frame Design</td>
<td>Standard</td>
<td>Optional</td>
</tr>
<tr>
<td>Vacuum Type Tier Sheet Removal</td>
<td>Standard</td>
<td>Optional</td>
</tr>
<tr>
<td>Tier Sheet Accumulation Tray</td>
<td>Standard</td>
<td>Optional</td>
</tr>
<tr>
<td>Top Frame Removal</td>
<td>Standard</td>
<td>No</td>
</tr>
<tr>
<td>Accumulation for Pallet Change-Over</td>
<td>Standard</td>
<td>Optional</td>
</tr>
<tr>
<td>Stainless Steel Single File Conveyor</td>
<td>Standard</td>
<td>Optional</td>
</tr>
<tr>
<td>UL Safety and Electrical Certified</td>
<td>Standard</td>
<td>Optional</td>
</tr>
<tr>
<td>7” Color HMI Screen</td>
<td>Standard</td>
<td>Optional</td>
</tr>
<tr>
<td>Cat 4 Safety Standard</td>
<td>Standard</td>
<td>Optional</td>
</tr>
<tr>
<td>Waterless Ionized Air Rinse</td>
<td>Standard</td>
<td>Optional</td>
</tr>
<tr>
<td>Stainless Steel Twist and Rinse Box</td>
<td>Standard</td>
<td>Optional</td>
</tr>
<tr>
<td>S-Type Compact Can Rinse/Twist</td>
<td>Optional</td>
<td>No</td>
</tr>
<tr>
<td>Leveling Pads for Easy Installation</td>
<td>Standard</td>
<td>Optional</td>
</tr>
</tbody>
</table>
CRAFTRINSE™
Ionized waterless empty can rinsing system

Highlights:
• Waterless ionized air
• Quick change features
• S-Type compact designs
• Specialty can sizes, slim and sleek
• Stainless steel design

IONIZE RINSE BOX 310680
WATER RINSE BOX 310290
CRAFTDRY™

Powerful, flexible, and low energy consumption for efficiently drying beverage cans

Highlights:
• W2.5 - 20 HP direct drive blowers
• Air nozzles can be fitted for top, bottom, and sides of cans
• Stainless steel stand and hood with vibration pad mounting
• Optional enclosure over conveyor
• VFD and blower disconnect standard
• 230-450V 3-phase motor TEFC
• Nema - Class B insulation
• UL/CSA/CE certified
DATE CODE WHEEL

Quality resolution and 100% coverage for bottom of the can date code printing

Benefits:
• Spacing and accuracy for higher resolution printing
• Increased production coverage

Features:
• Up to 200 cans per minute
• Servo driven starwheel
• Electrical control package
• Wash down design
• Safety guarding
• Easy to install and use
• Electrical: 230 Volt/60 HZ/3 Phase
• NEMA 4X panel
• UL list electrical

Notes:
• Does not include printer
• Correct conveyance required
• Must be placed downstream before multi-packer
WaveGrip is an innovative new solution to your can collation needs which is easily applied to the rim of your cans to turn them into safe and secure multi-packs.

Suitable for all kinds of canned drinks producers - WaveGrip will give you value for money with the widest choice of equipment for the lowest cost.

Available in four models
G1- Manual .................. 10 CPM
G1-Auto ....................... 100 CPM
G2 Model ..................... 100 – 300 CPM
G3 Model ..................... Up to 2,000 CPM
WAVEGRIP

G1 Manual Applicator – 30 CPM

G1 Auto Applicator – 100 CPM

G2 Applicator – 100-300 CPM

G3 Applicator – Up to 2,000 CPM

Features:
• Continuous feed design
• Compression applied
• Servo driven
• Wash down design
• HMI touch screen
• UL/CE/CSA electrical and safety compliance
• 4/6/8 packing – 2 across
• Runs standard 202/211 cans or 202/204 sleek can with change parts
• Manual lift for can height changes: 12, 16, 19.2 and 22 ounce standard volumes

Benefits:
• WaveGrip enables you to reap all the commercial benefits that packing your canned beer and beverages in multi-packs can bring
• Unique and efficient application systems designed to easily integrate within your existing canning operation whilst providing operational efficiencies
• Value engineered to give you the most competitive can collation solution available
• WaveGrip will give you value-for-money and our G1 and G2 systems replace the need for expensive collation equipment

• Cost effective – the lowest entry cost multi-pack solution
• The lowest cost carriers on the market
• More environmentally friendly than existing collation options
• Multiple pack format and film options available
• High speed – over 2,000 CPM
• Low speed and manual systems available
• Future development potential

UL

CE
WAVEGRIP CARRIER APPLICATOR

G2 — 100-300 CPM

MADE IN USA

WaveGrip

WAVEGRIP CARRIER APPLICATOR
CRAFTBLOC PUMP KITS

PUMP KIT 515

PUMP KIT 1040
CRAFTBLOC 12/1 - 60 CPM L-SHAPED LINE CONFIGURATION #1
CRAFTBLOC 12/1 - 60 CPM L-SHAPED LINE CONFIGURATION #2
CRAFTBLOC 12/1 - 60 CPM LINEAR LINE CONFIGURATION
CRAFTBLOC 12/4 - 100 CPM U-SHAPED LINE CONFIGURATION
Palmer Canning Systems first canning line was installed in June 2013 and since that time has strived and succeeded to continuously improve the quality and reliability of our equipment. Today we now have over 65 canning lines installed and we still continue to improve our equipment with every new line. Our CraftBloc™ can filling and seaming systems are qualified as “Assembled in the USA” per USA Federal Trade Commission (FTC) guidelines. Our CraftInLine™ filler, CraftBulk™ de-pal, CraftRinse™ twist rinse, CraftDry™ can blower, and conveyance is all FTC qualified “Made in the USA”. Since our start we have increased our manufacturing space and number of employees to meet the demand. Today, we have over 30 employees and 15,000 square feet of manufacturing and assembly space. In 2016 we added systems automation department with electrical panel design and build, plus in-house PLC programming. We setup stainless steel structural and sanitary welding capabilities in house. Also, we increased our in-house CNC machining operation capabilities by adding new equipment and machinists. The parent company of PCS, Palmer-Tech Services, Inc. celebrated its 21st anniversary in 2017.

Some new canning line product features for 2018 include:
• CraftInLine™ New counter pressure filler
• CraftBulk™ De-pal now removes top frame automatically
• CraftBulk™ De-pal has optional tier sheet and top frame collection elevator
• CraftRinse™ Empty Can Rinse is now standard waterless ionized rinsing
• CraftBloc™ Bowl level control is upgraded from float valve to IFM level sensor
• ProPurge™ New high performance filling valves for better fill level control and pre-purging to atmosphere
• CraftBloc™ Monobloc cabinet is now enclosed for less micro and O2 exposure
• CraftSeam™ is now nearly 100% stainless

WaveGrip
Palmer Canning System has entered an agreement with WaveGrip poly can carriers for North American distribution and licensed manufacturer of automated carrier application systems. The low cost, but dependable and sustainable way to 2-4-6-8 pack aluminum beverage cans. The polymer carrier with universal pitch can be applied with manual system up to 30 CPM and automated systems from 50-300 CPM. The systems are USA Made in our Lafayette facility.

Our goals for 2017 is to work with customers on new improvements and features that will continue to improve the performance of our canning line. This year will look to increase our manufacturing space and add quality and manufacturing tools to further improve our in-house capabilities.

Any questions or queries can be made to:

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