2021 CATALOG

Palmer Beverage Systems

ENGINEERING • AUTOMATION • CONVEYANCE

+1 (773) 666-5051
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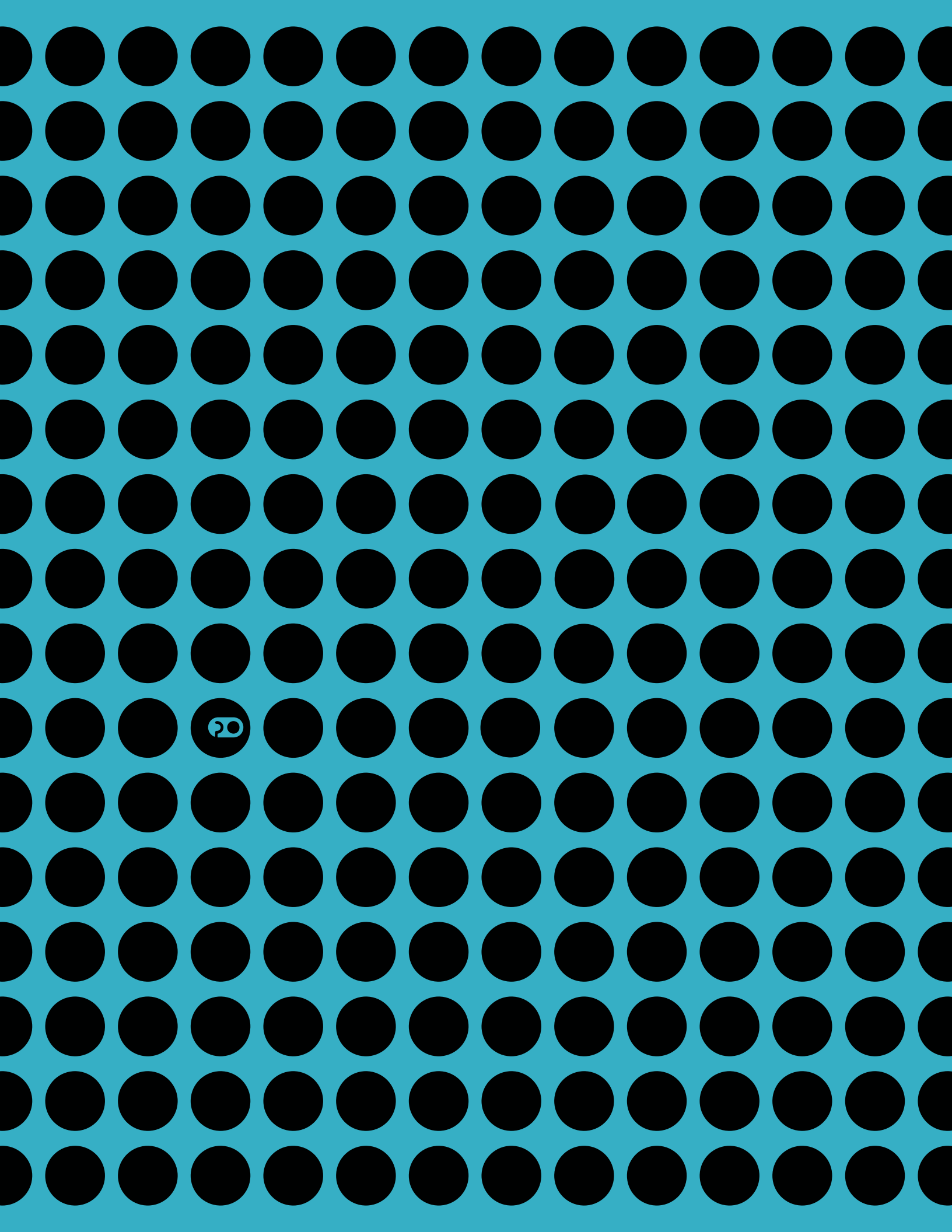
hello@palmerbeverage.systems



Palmer Beverage Systems

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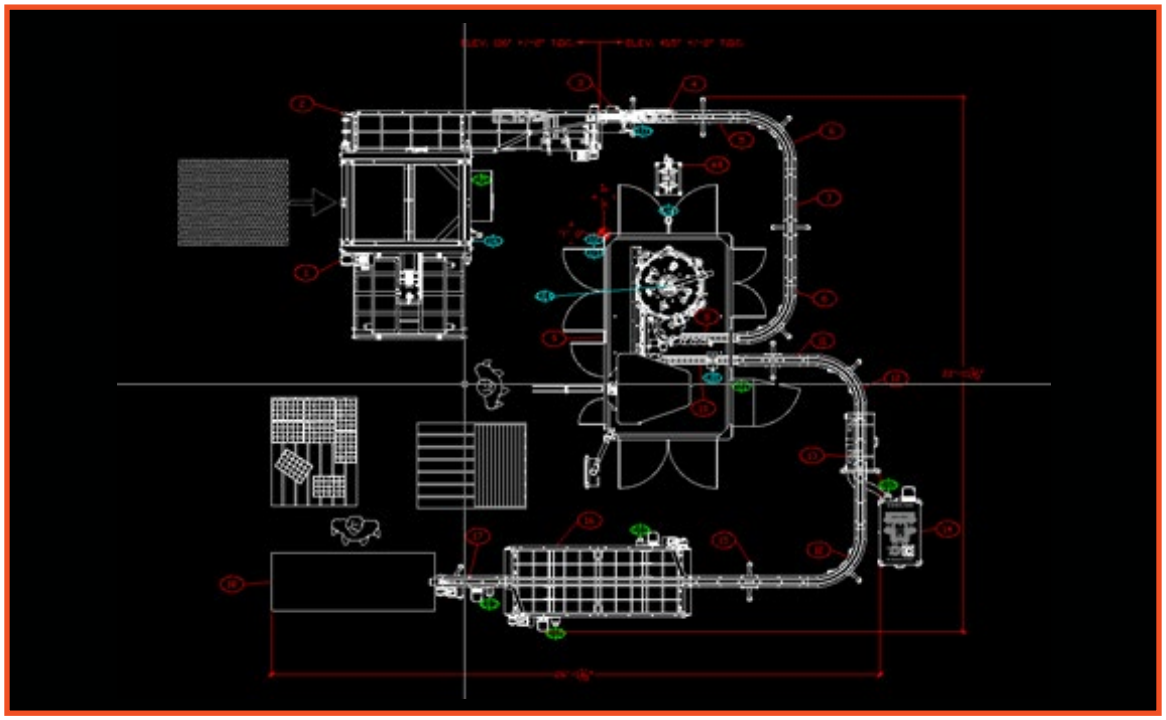
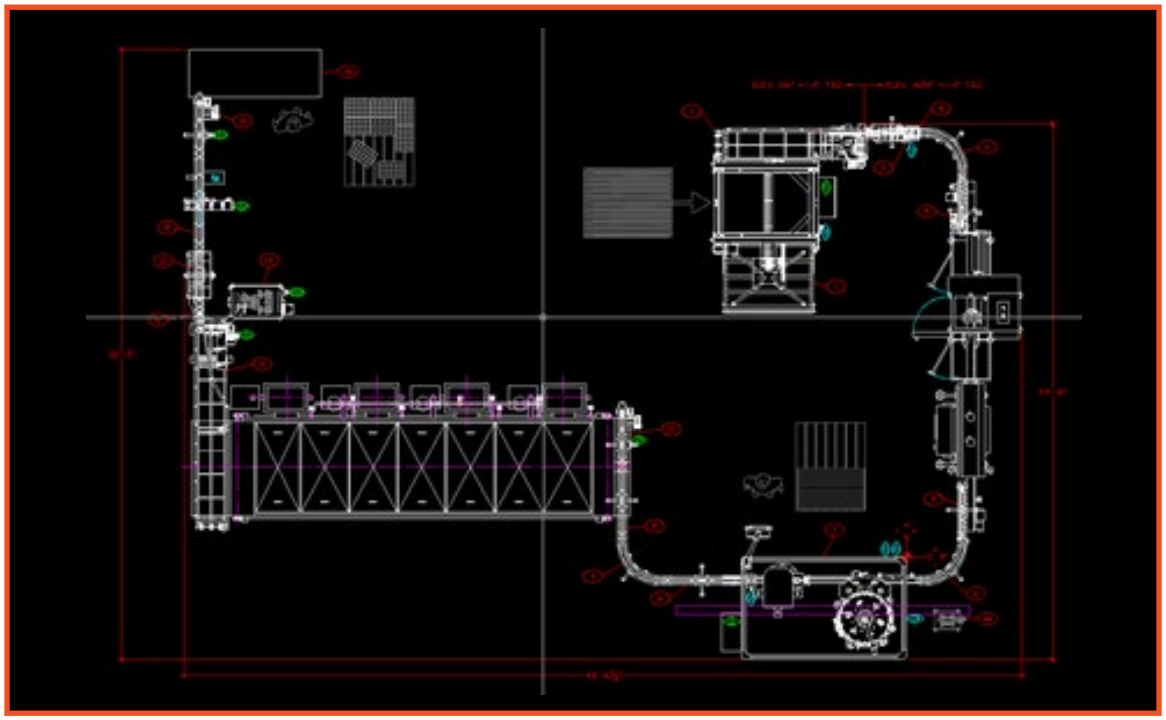
ENGINEERING SERVICES

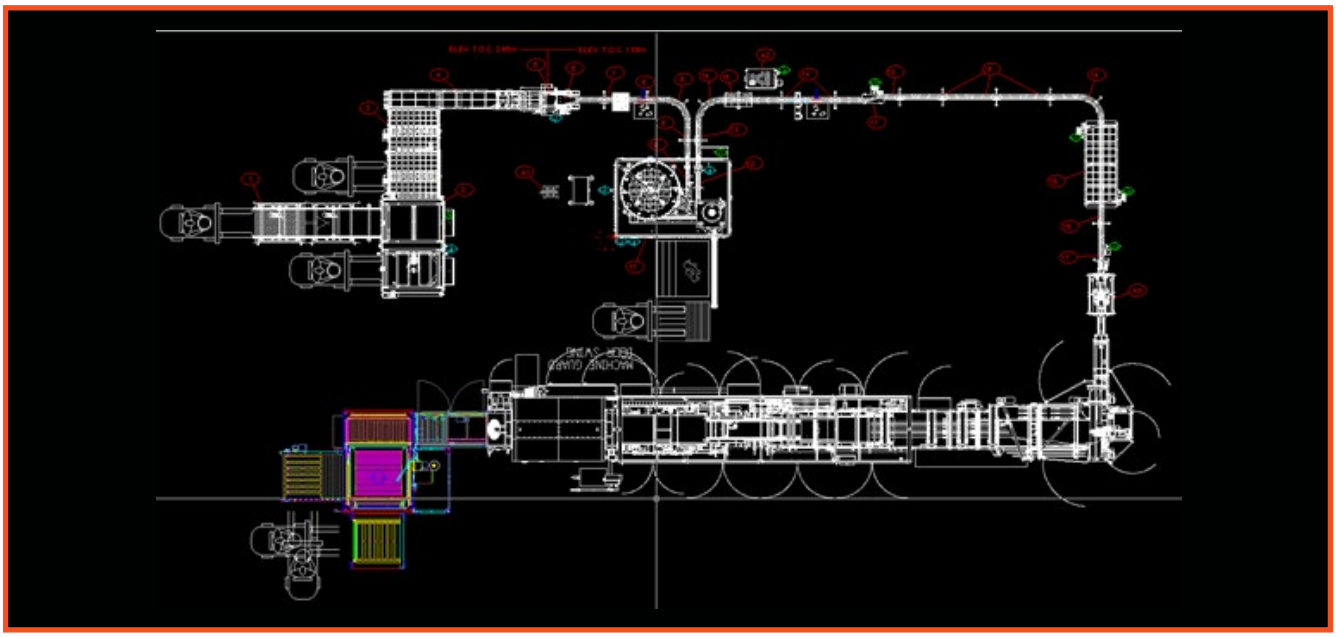
Palmer Beverage Systems is capable of providing full engineering services to compliment our full product line. All Palmer Beverage equipment is fully scalable to allow for future flexability. We provide full layout services to ensure seamless transition from concept to installation. We can integrate third party equipment into our lines and provide custom solutions to meet your needs. Please contact us to get started on your line today.



12/4 Palmer Beverage Layout – Up to 100 C.P.M. – Standard Configuration



12/1 Palmer Beverage Layout – Up to 50 C.P.M. – Custom configuration added sleever on infeed with custom outfeed including pasturizer tunnel with custom infeed and outfeed and filtech level monitoring system.



36/6 Palmer Beverage Layout – Up to 350 C.P.M. – Custom configuration added fully automated depalletizer with pallet handling system and dual lane rinser assembly on infeed. Custom outfeed including filtech level monitoring system, reflow accumulation, custom can ring applicator, tray packing and wrapping system and automated skid loader and wrapper.

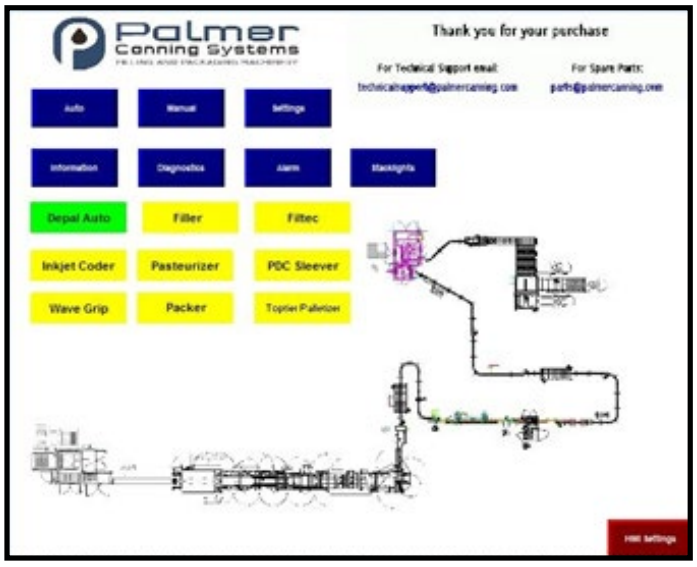
Integrated filler – 250CPM - custom configuration added fully automated depalletizer with pallet handling system, dual mass flow, dual lane rinser assembly and operator mezzanine on infeed. Custom zoned outfeed for added product management; including filtech level monitoring system, dual reflow accumulation, sleever applicator, custom can ring applicator, tray packing and wrapping system and automated skid loader and wrapper.

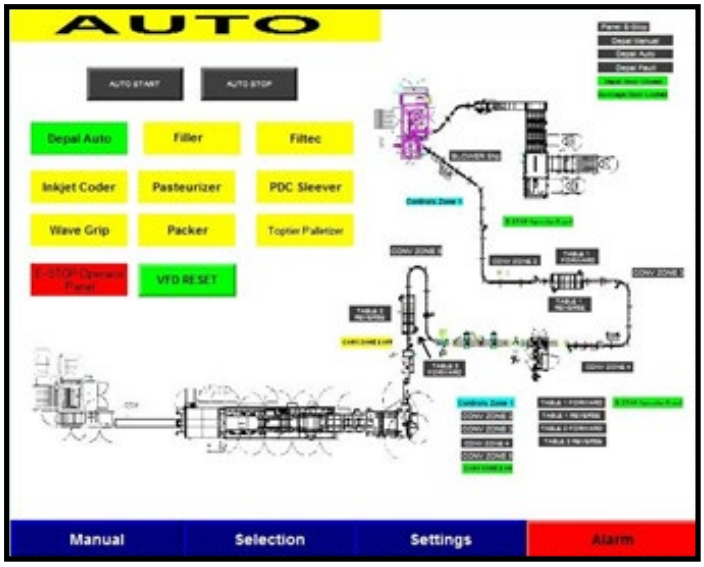
LINE CONTROL AUTOMATION

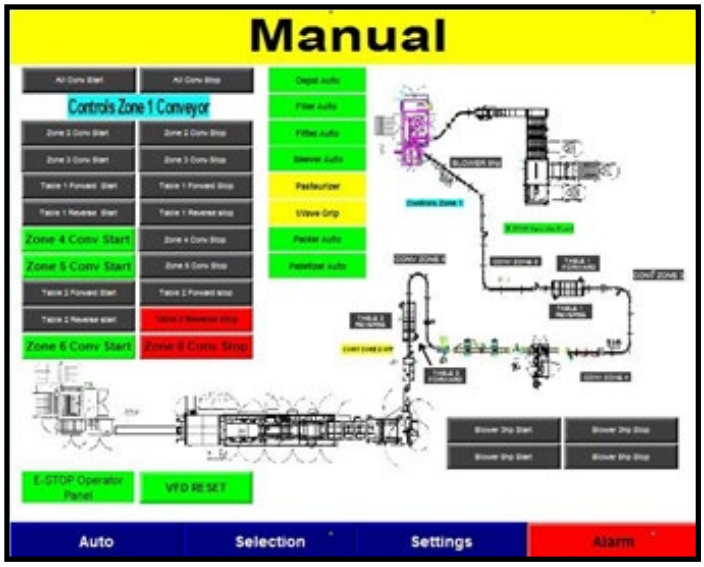
Palmer Beverage Systems is fully equipped to provide full line controls automation to provide you with the solutions to design, build, and program control systems for canning lines to increase line efficiency, production visibility, and operator improvements required for todays demanding packaging environment. We use Allen Bradley as our standard platform but we are fully versed with siemens and other standard platforms to maintain continuity of your processes.

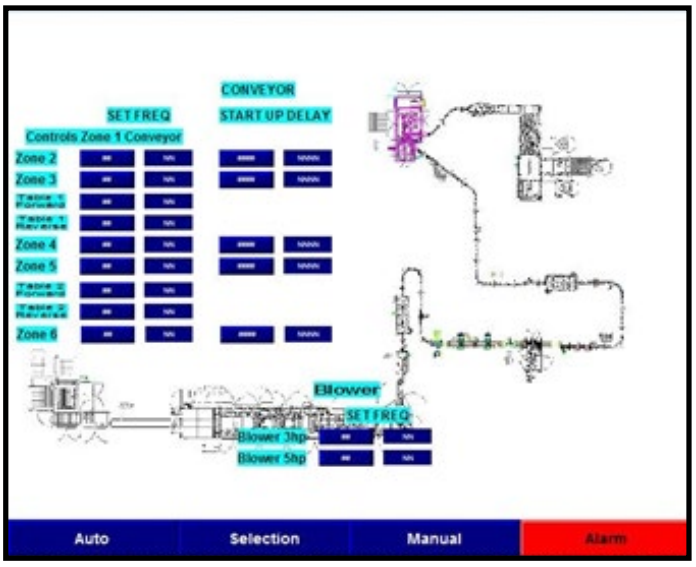
Palmer Beverage Systems

Allen-Bradley
by ROCKWELL AUTOMATION









INTEGRATION ACCOMPANIMENTS

In addition to our standard products available Palmer Beverage Systems is proud to work with other O.E.M.'S to provide perrifial equipment to compliment our lines. We are fully capable of intergrating and providing custom mounting and communication solutions to provide the customer with streamlined solutions to navigate todays packaging enviornment. Below are some of the equipment and vendors we work with please contact sales@palmerbeverage.systems or hello@palmerbeverage.systems.

Palmer Beverage Systems

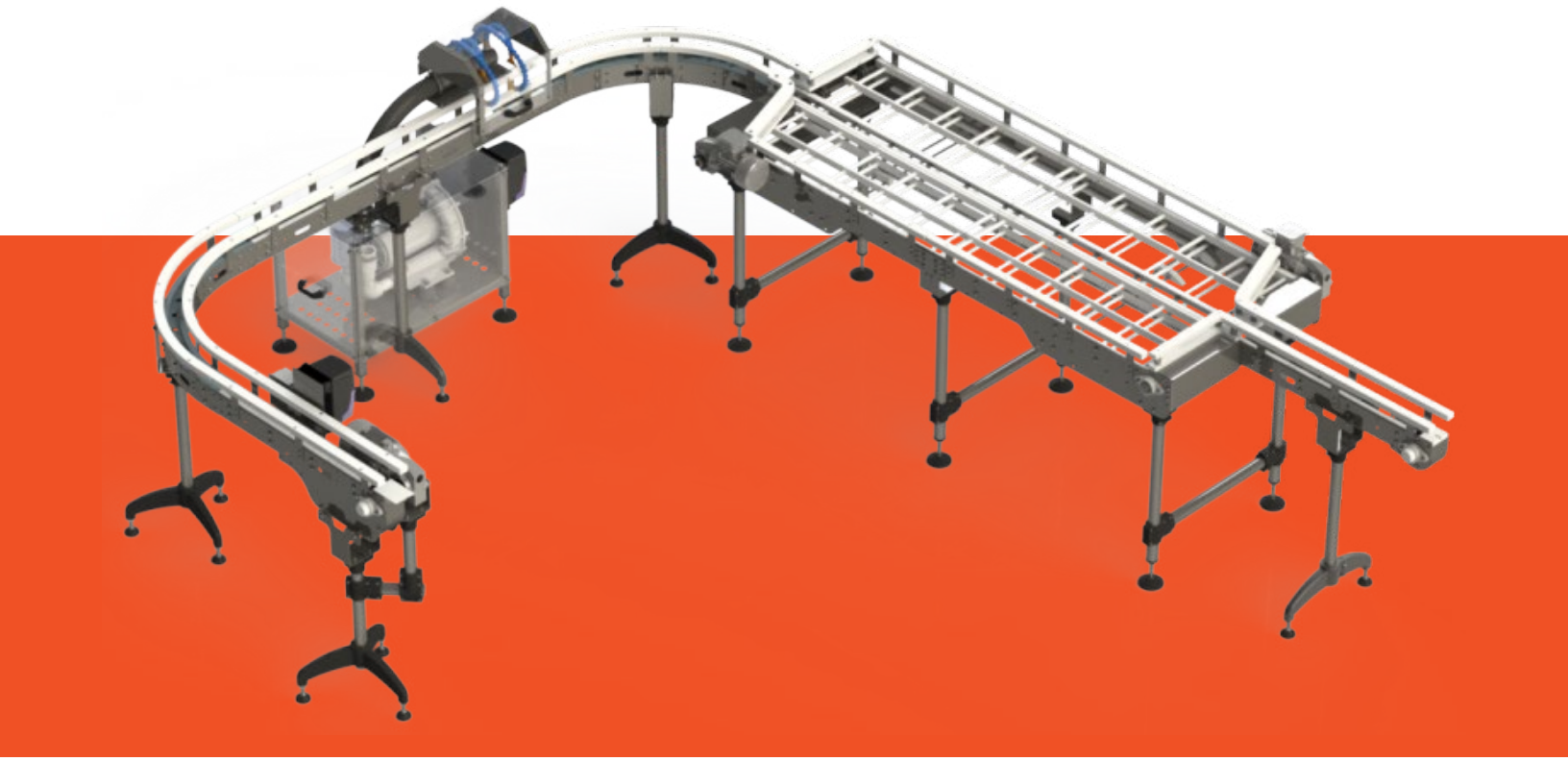
- *Shrink sleeve labeler*
- *Wrap around labeling system*
- *Fiberglass mezzanine*
- *Can inversion box*
- *Fill level detection*
- *Date code printers*
- *Cartoner and tray packers*
- *Third-party can and bottle fillers*

Palmer Beverage SYSTEMS

STANDARD CONVEYANCE & DE-PALLETIZER SPECIFICATIONS

Palmer Beverage Systems

STANDARD CONVEYANCE



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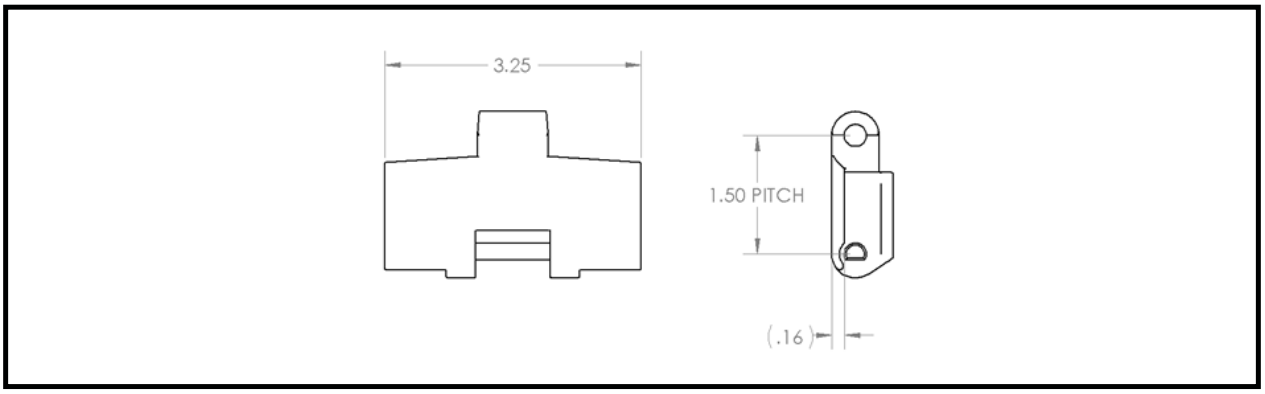
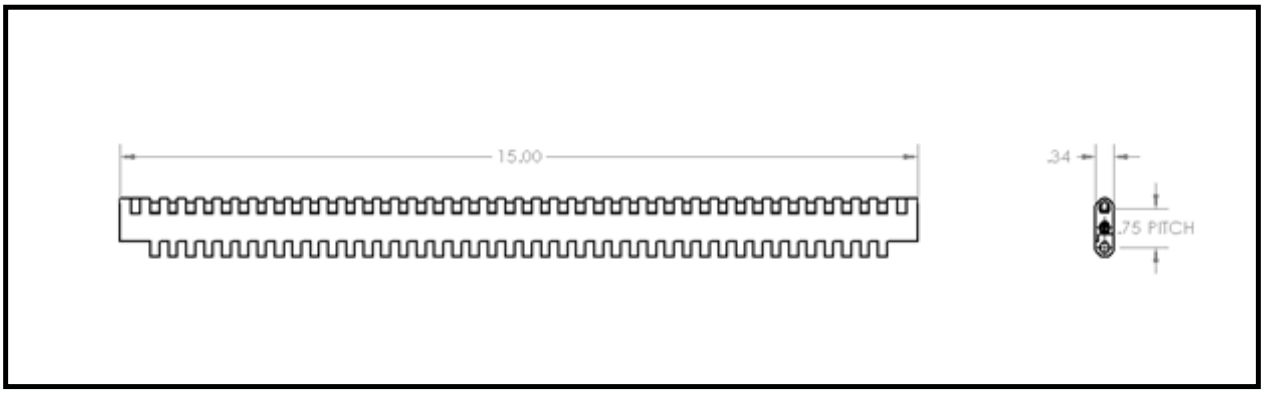
PG. 37-40	DUAL LANE MTC INFEED UPGRADE

STANDARD CHAIN



3.25TTC



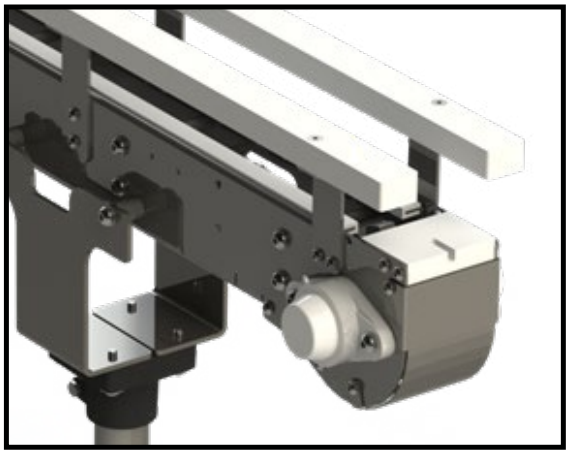
15MTC

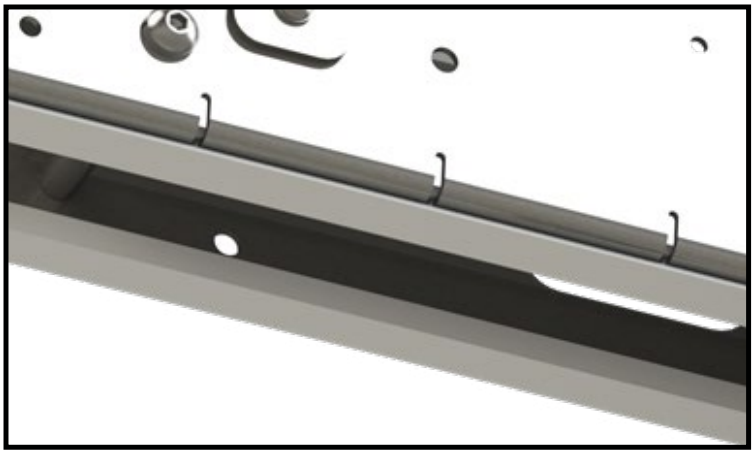
18MTC

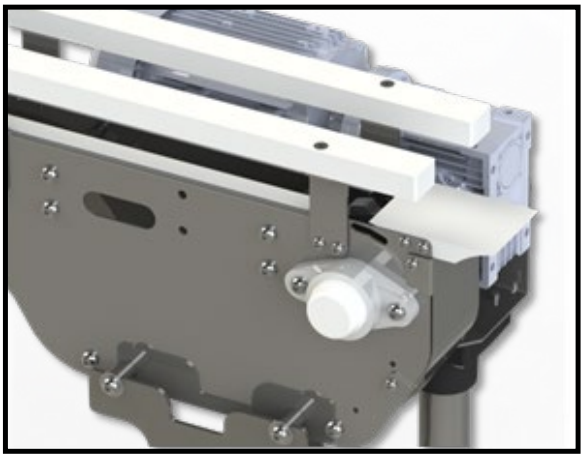
Other chains and chain materials are available upon request. For more information please contact sales@palmerbeverage.systems or hello@palmerbeverage.systems

FEATURES AND DESCRIPTION

All Palmer Beverage Systems conveyance is formed from rugged T304 12 guage sheet steel with a #4 food grade polish. They feature washout slots along the body and drainage slots along the return way to allow for product and washdown draining to aid in cleanliness. All chain rides on uhmw carry and return strips with oil-infused corners to provide maximum chain life and quiet operation. Product guides are fixed machined uhmw rail. All drives and idlers feature bolt on end guards with an added transfer/finger guard. Items featured below are standard product to support the Palmer Beverage Systems line of fillers and depalletizers, but can be adapted to meet your needs.

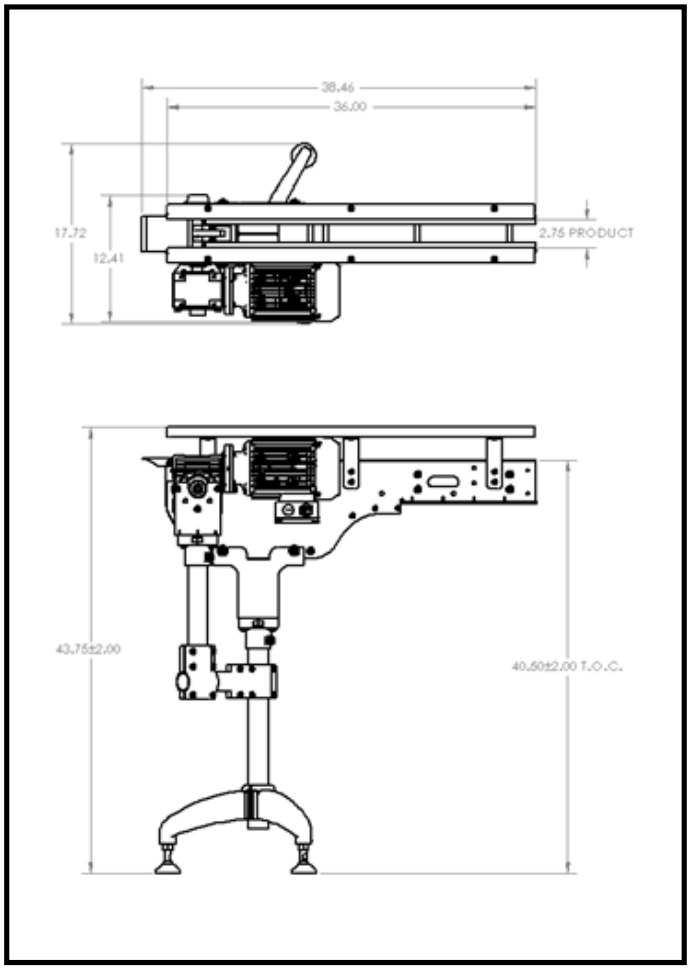




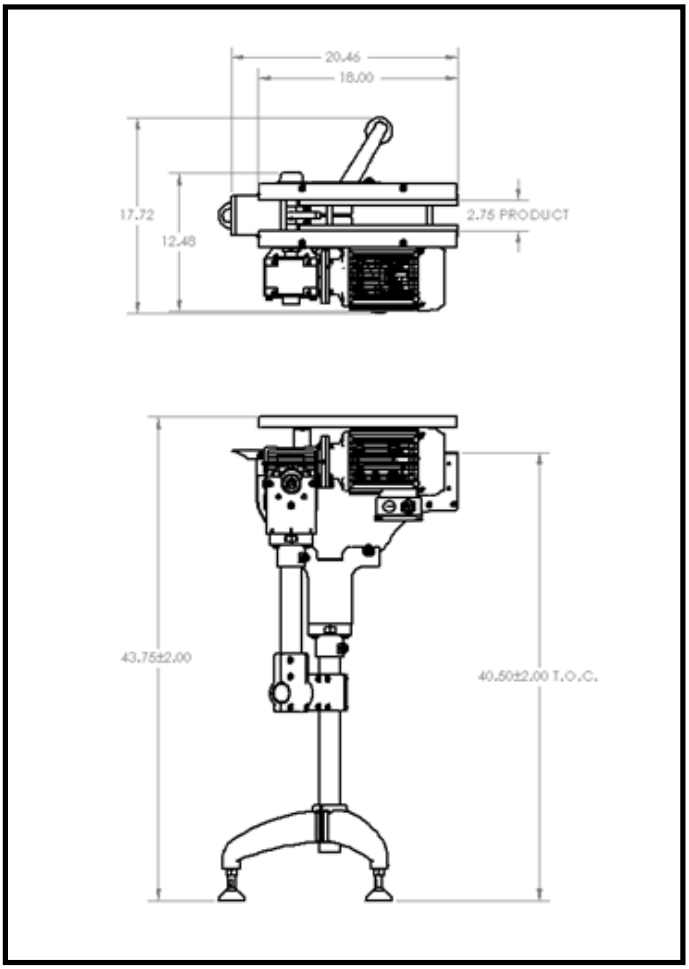


Upgrade options, custom conveyors and layouts to meet your needs are available; please contact sales@palmerbeverage.systems or hello@palmerbeverage.systems to request more information.

DRIVE FRAME



310050-XXX-XX - 3' DRIVE



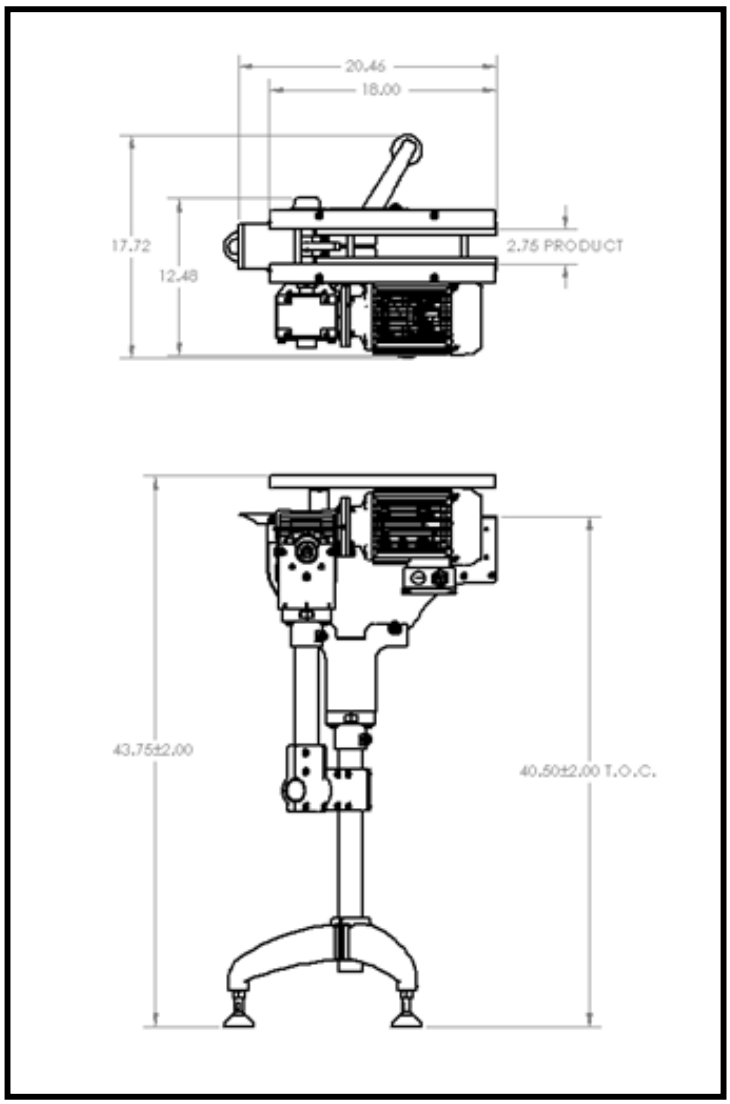
310660-XXX-XX - 18" DRIVE

FEATURES

- Unique double ended finger guard / transfer plate which allows for end to end transfering to a wide array of chain types.
- Wash-down mounted ball bearings.
- 1 H.P. 230/480 3PH – 56C NEMA faced washdown motor.
- Rugged machined right angle shaft mount worm gear drive.
- 11-Tooth cast nylon sprocket with key and set screw.
- Added stabilizer mount for drive and tri-pod for added stability.

Palmer Beverage SYSTEMS

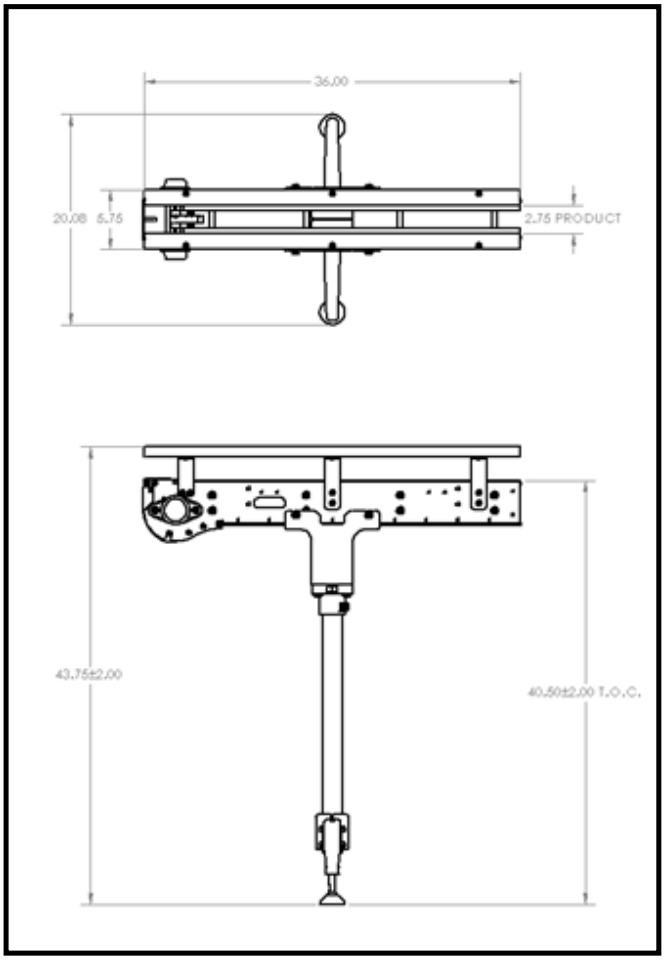
310950-XXX – 2’ P.T.U. DRIVE



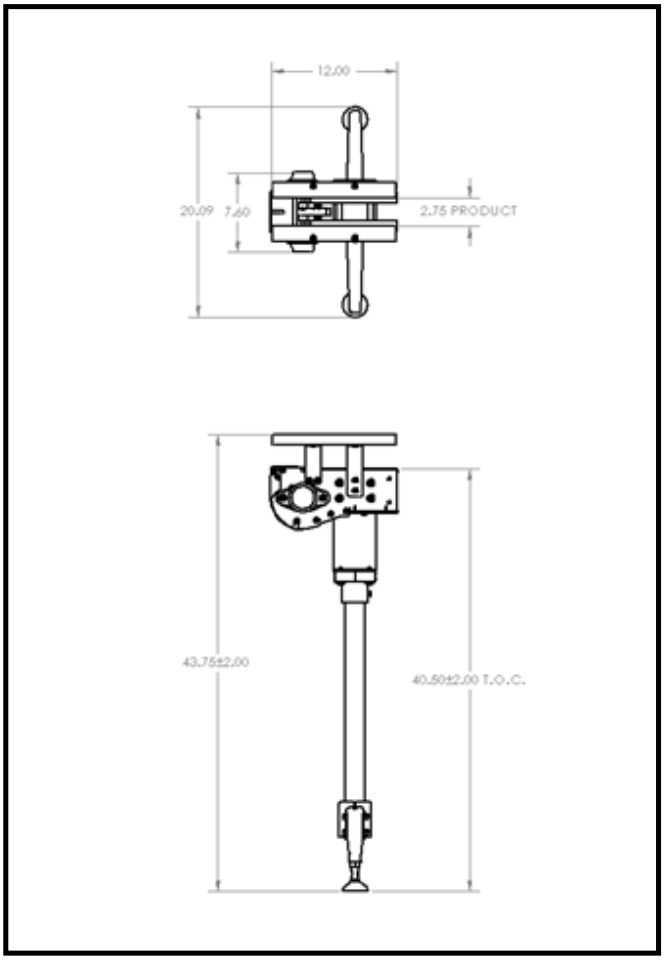
FEATURES

- Allows for chain to chain transfer of product eliminating transfer plates and dead product areas.
- Can be configured for right or left hand transfering to accommodate layout needs.

IDLER FRAMES



310010-XX – 3’ IDLER

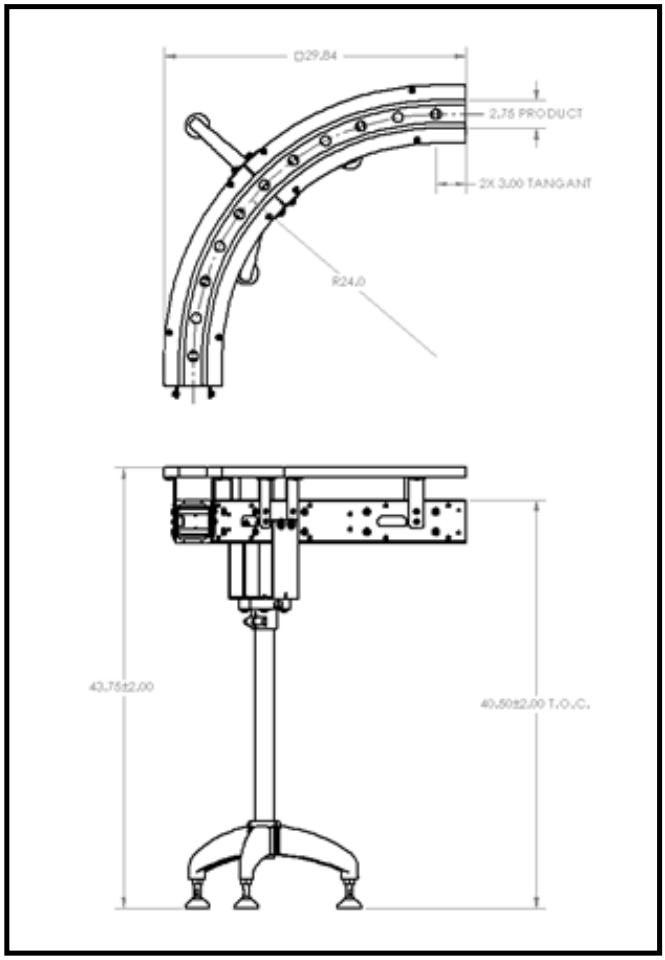


310580-XX – 1’ IDLER

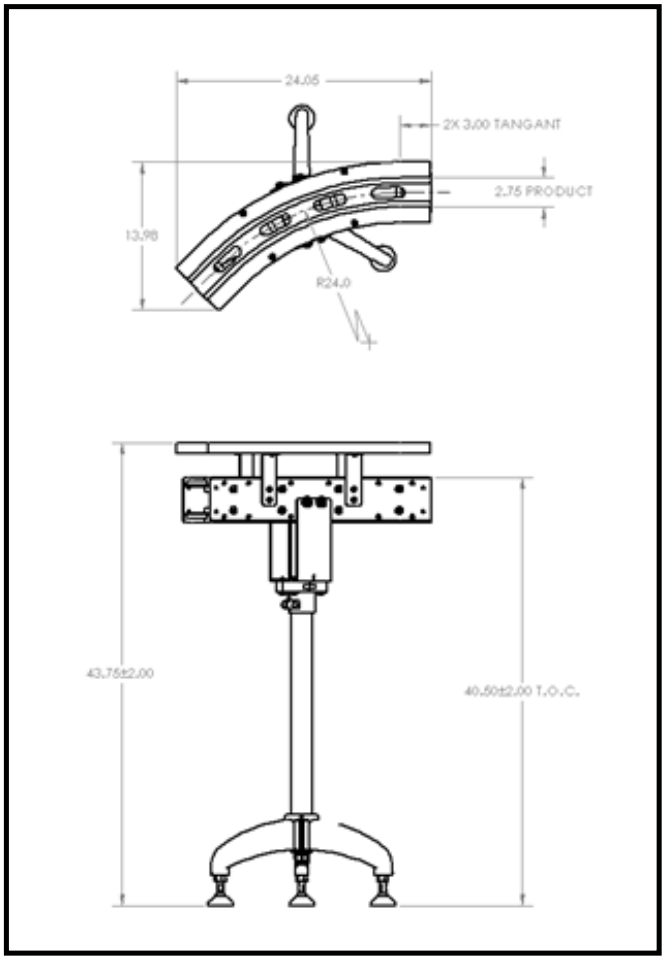
FEATURES

- Unique double ended finger guard / transfer plate which allows for end to end transfering to a wide array of chain types.
- Wash-down mounted ball bearings.
- 11-Tooth cast nylon sprocket with key and set screw.

CORNER FRAMES



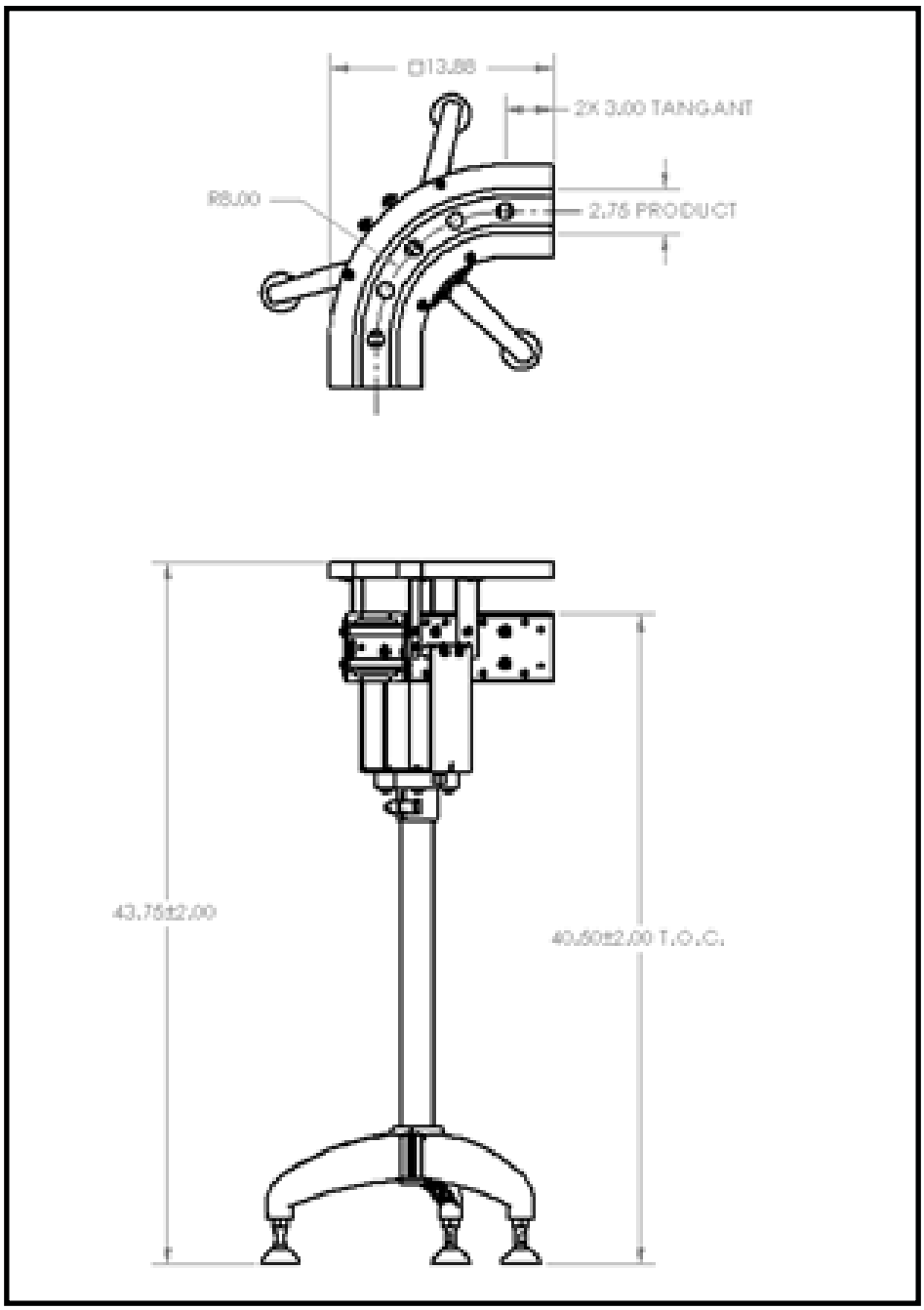
310040-XX – 90 DEGREE CORNER



310590-XX – 45 DEGREE CORNER

FEATURES

- Oil-filled UHMW wear track for added chain life. Nylatron is available for higher speeds.
- Tri-pod for added stability.
- 310620-XX requires upgrading to 'B0' style, please contact Palmer Beverage for this option.



310590-XX – 45 DEGREE CORNER

U.S. Machinery

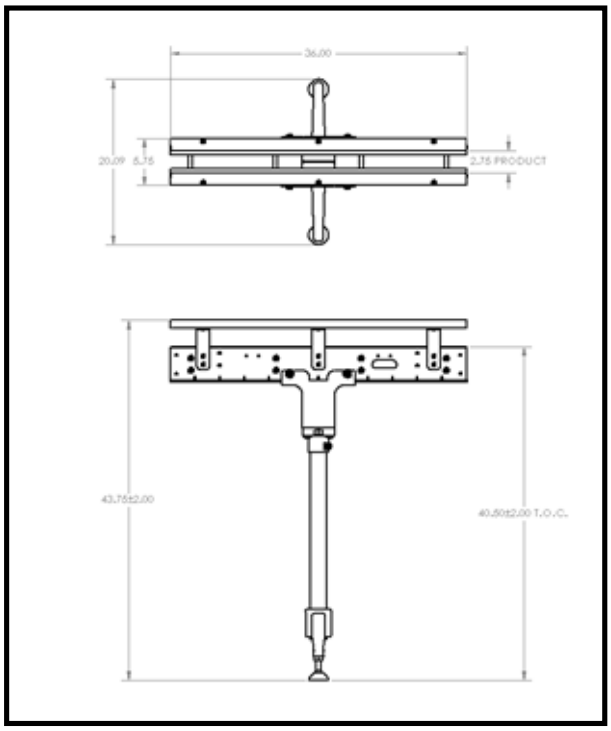
PALMER BEVERAGE

CHICAGO, ILLINOIS

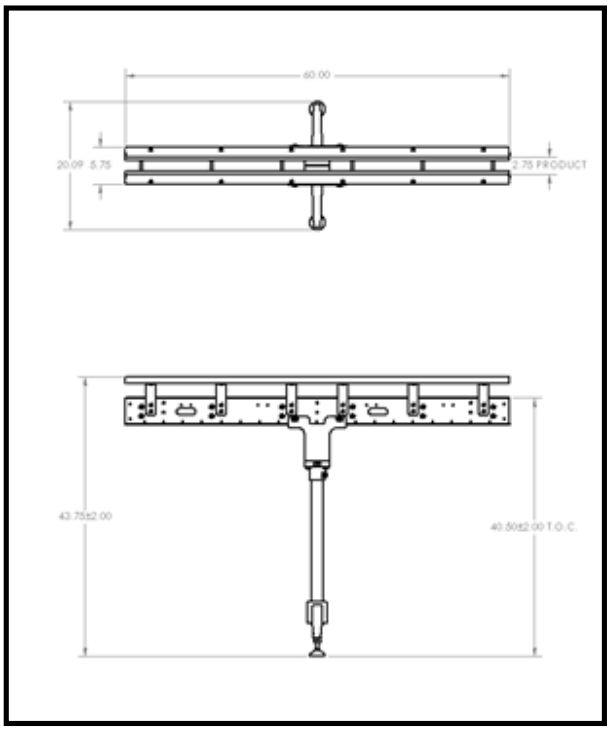
PALMER BEVERAGE SYSTEMS

INTERMEDIATE FRAMES

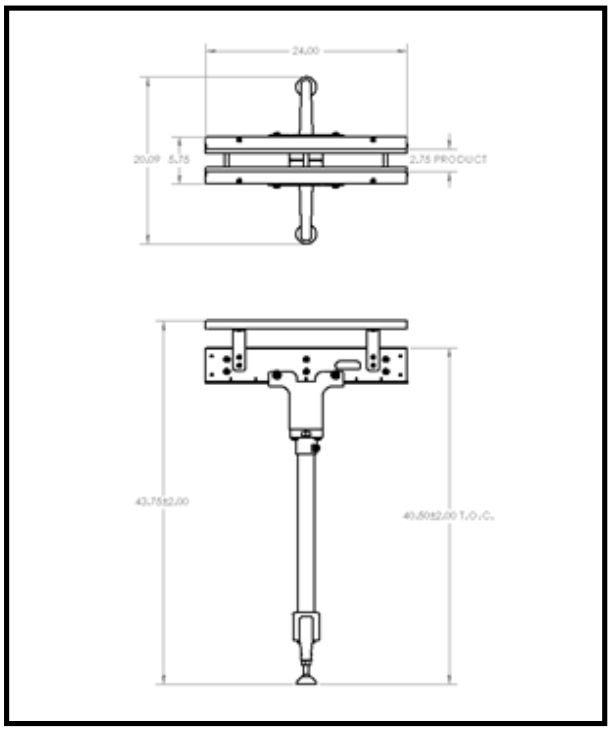
INTERMEDIATE FRAMES



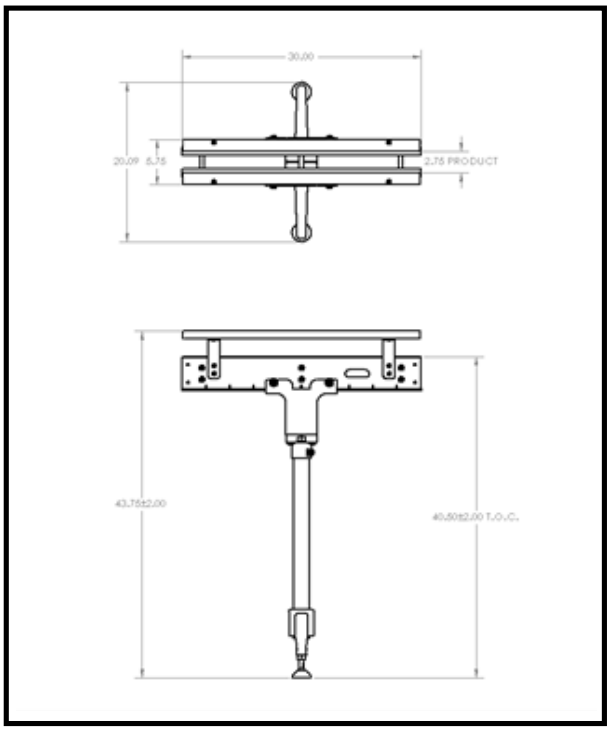
310020-XX – 3’ INTERMEDIATE



310030-XX – 5’ INTERMEDIATE

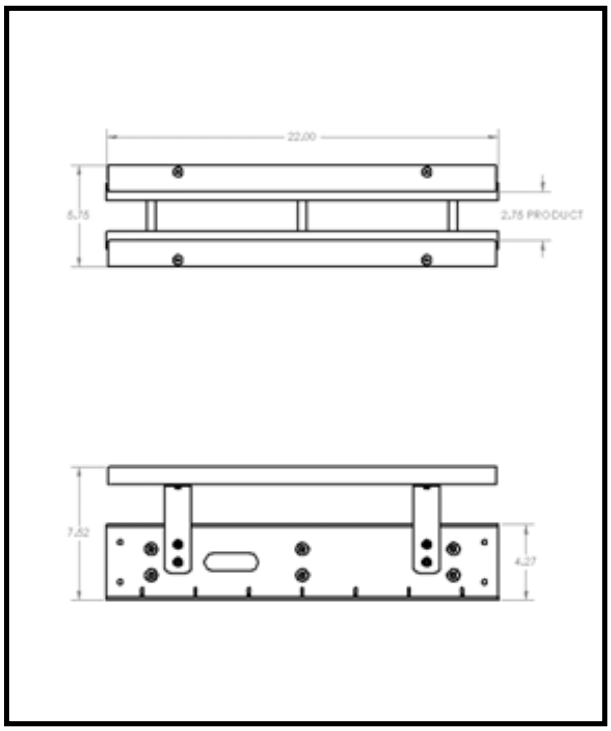


310570-XX – 2’ INTERMEDIATE

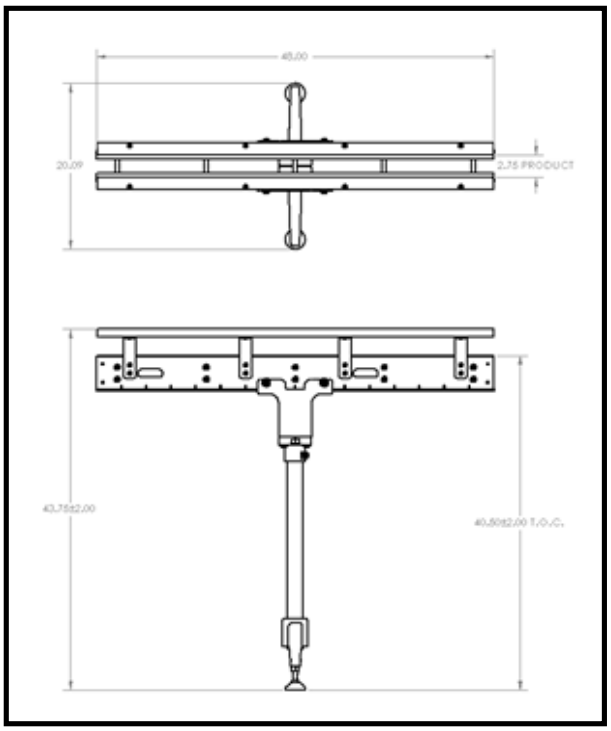


310630-XX – 30” INTERMEDIATE

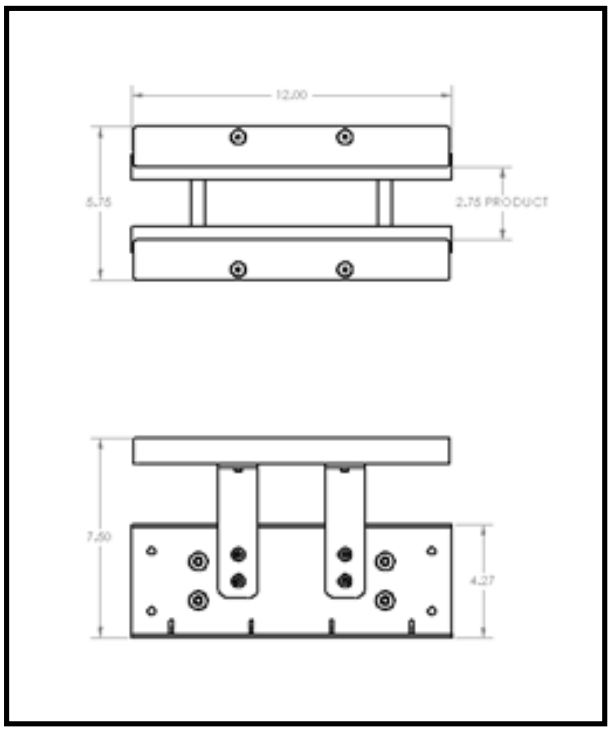
INTERMEDIATE FRAMES



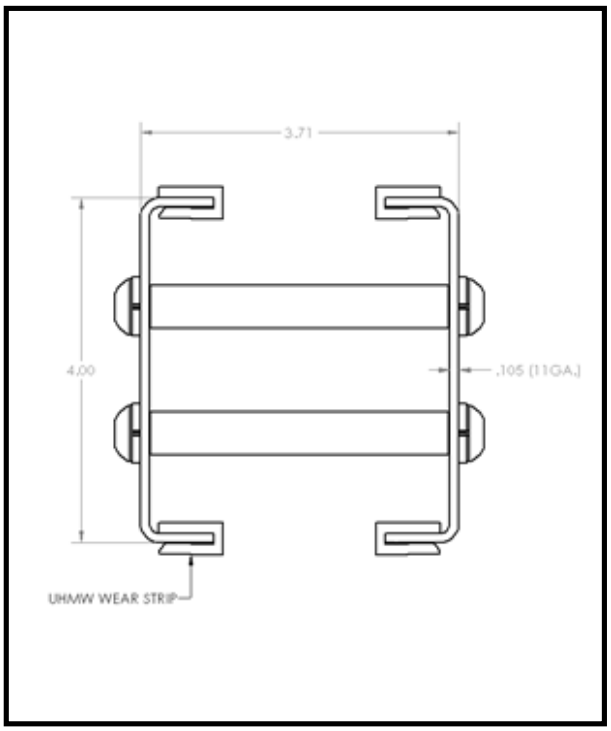
310640-XX – 22” INTERMEDIATE



310650-XX – 4’ INTERMEDIATE

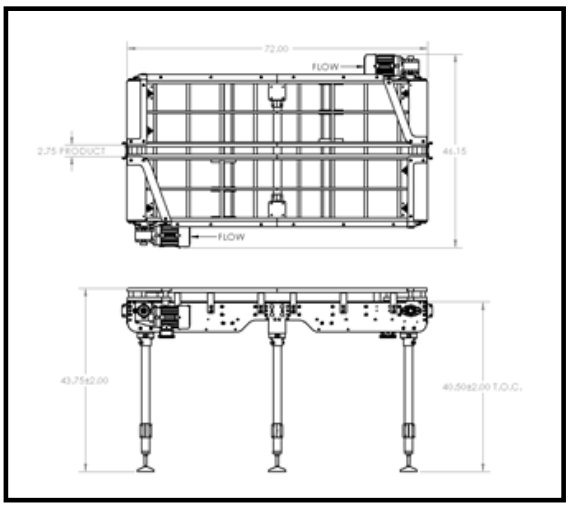


310810-XX – 1’ INTERMEDIATE

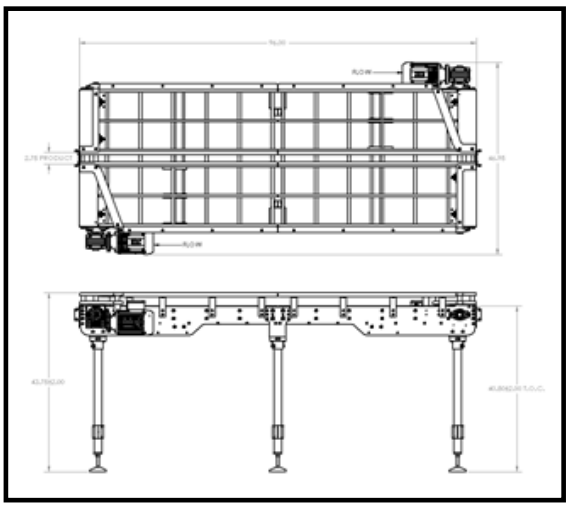


INTERMEDIATE CROSS SECTION

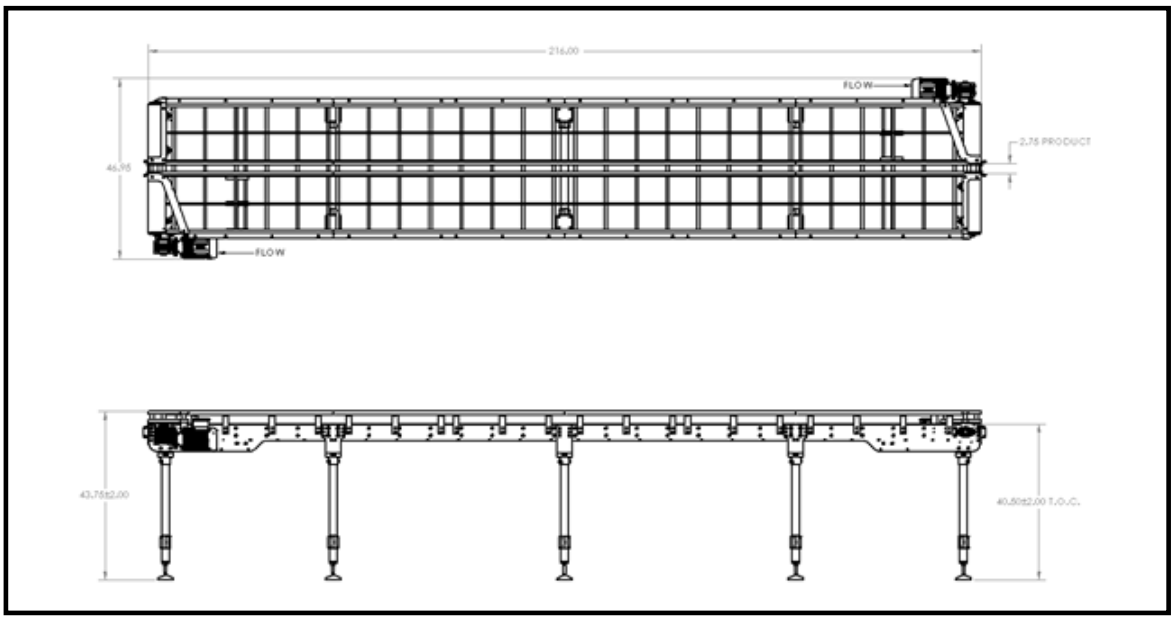
ACCUMULATION



310950-XXX – 6’ REFLOW



310250-XXX – 8’ REFLOW



310250-XXX – 18’ REFLOW

FEATURES

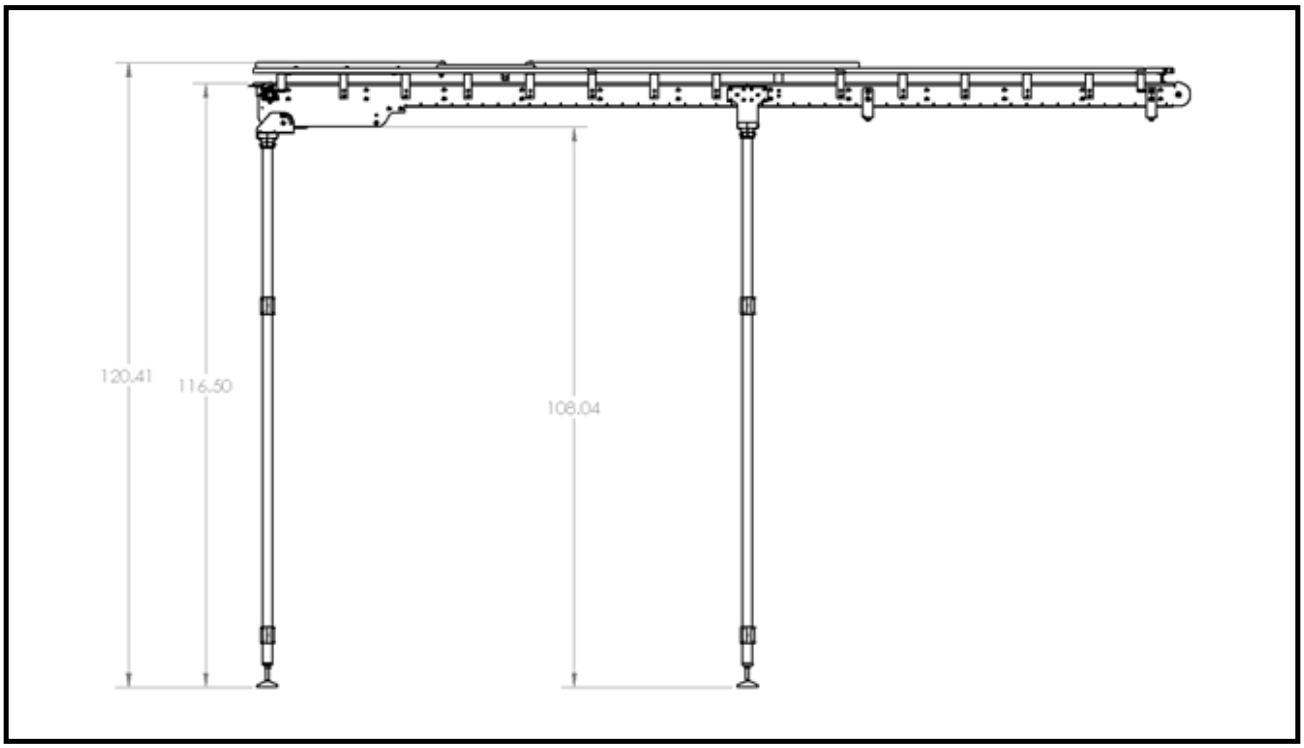
- 2x – 15MTC flanking lanes for accumulation.
- 3.25TTC center thru lane.
- Wash-down mounted ball bearings.
- 1/2 H.P. 230/480 3PH – 56C NEMA faced washdown motor.
- Rugged machined right angle shaft mount worm gear drive.

ROTARY ACCUMULATION TABLE

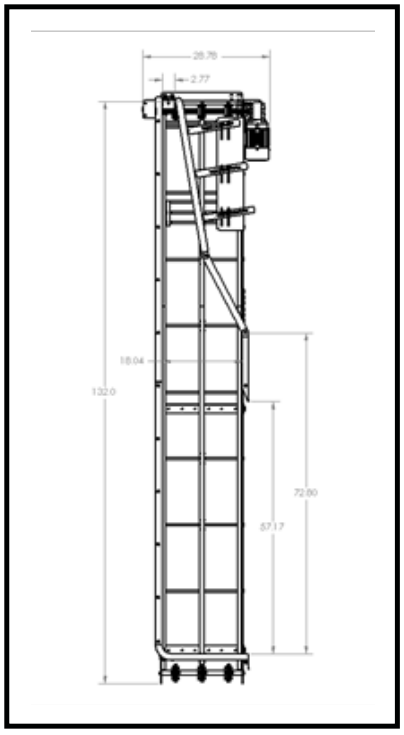
FEATURES

- T304 stainless steel construction
- 24”–60” Table diameter available upon request.
- Wash-down mounted ball bearings.
- 1-1/2 H.P. 230/480 3PH – 56C NEMA faced washdown motor.
- Rugged machined right angle worm gear drive with chain drive.
- Matched to palmer beverage standard conveyance height.
- Uhmw product corral guide.

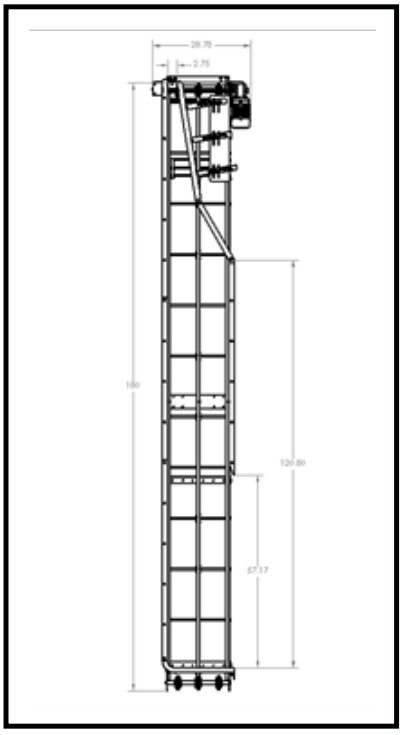
MATTOP CONEYANCE



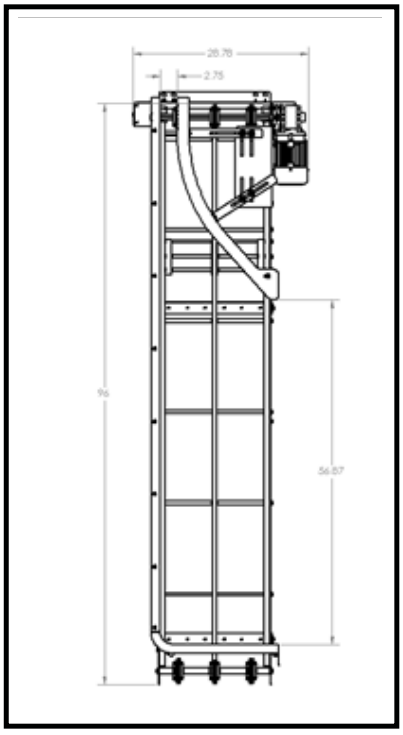
310240-XXX – 15’ MTC SIDE ELEVATION



310230-XXX – 11’ MTC



310240-XXX – 15’ MTC

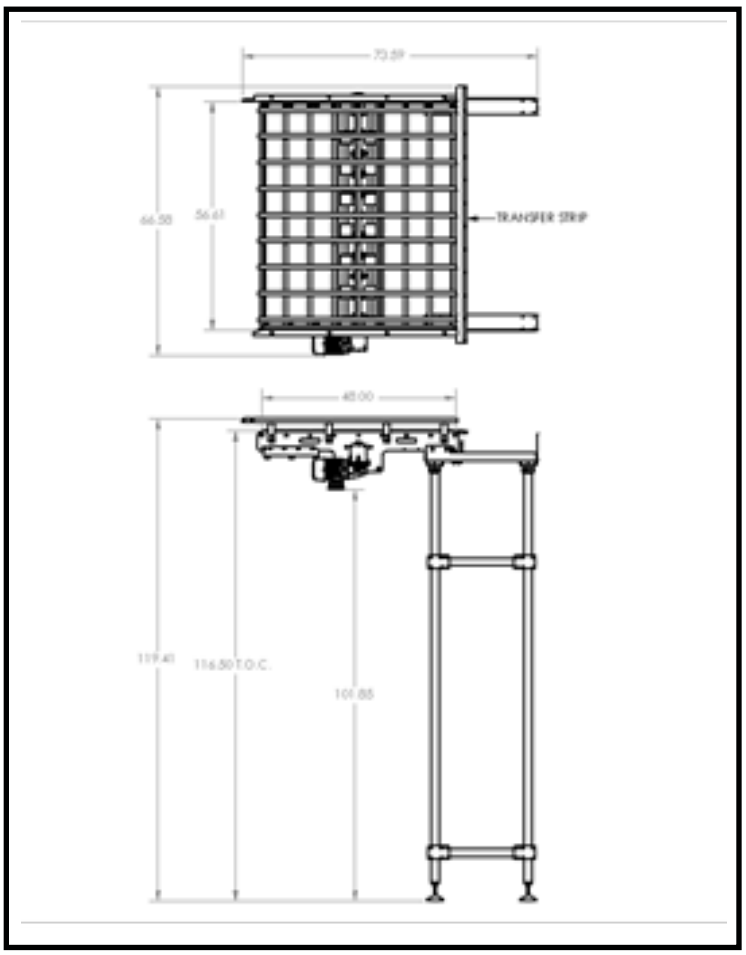


310670-XXX – 8’ MTC

MATTOP CONEYANCE

FEATURES

- 18MTC lane for empty can accumulation with funnel rail for single filling.
- Center chain support for chain stability.
- Wash-down mounted ball bearings.
- 1/2 H.P. 230/480 3PH– 56C NEMA faced washdown motor.
- Rugged machined right angle shaft mount worm gear drive.
- Elevation to match palmer beverage discharge height and mount for empty can rinse.

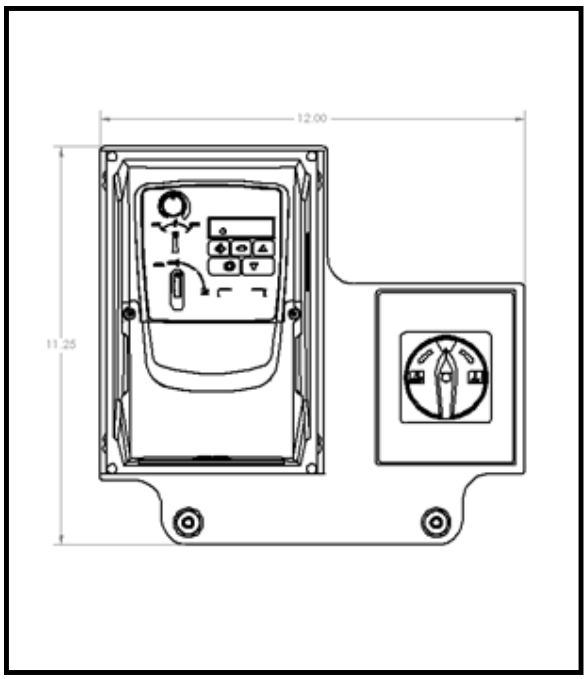


310140-XXX – 4’ MASS FLOW

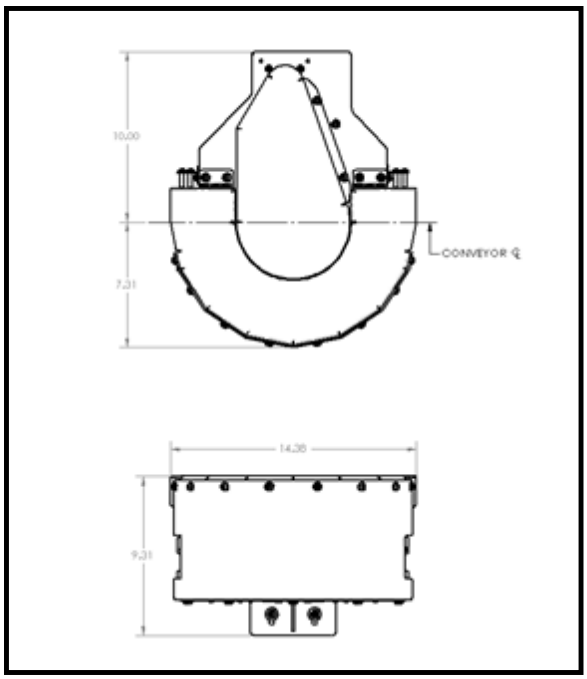
FEATURES

- Allows for full layer sweep from depalletizer.
- Center chain supports for chain stability.
- Elevation to match palmer beverage discharge height with uhmw side transfer strip for 18MTC conveyor.

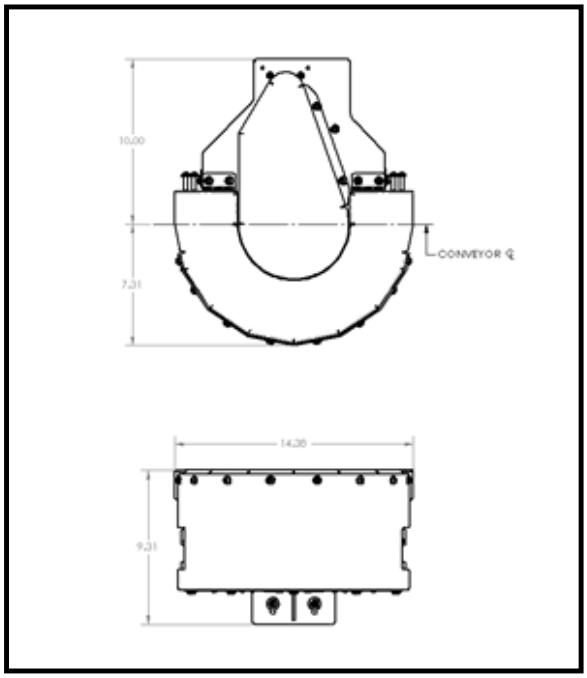
OPTIONS AND ACCESSORIES



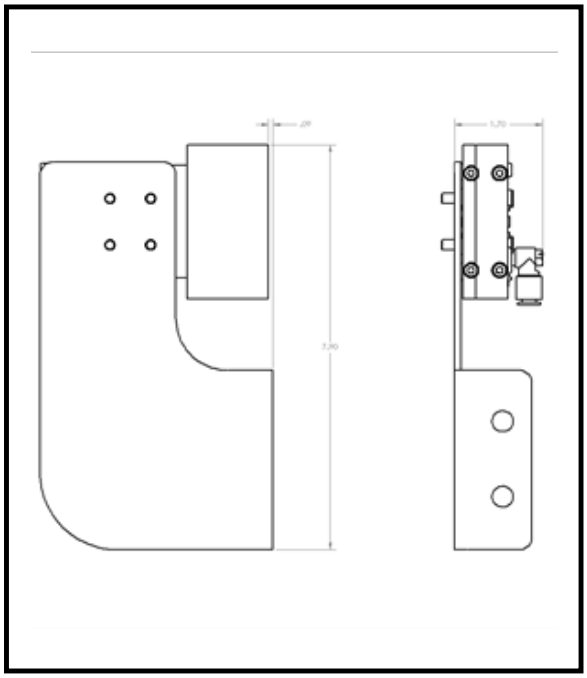
310200 – 1H.P. - 230VAC 3PH. (-230 OPTION)
310800 – 1H.P. - 480VAC 3PH. (-480 OPTION)



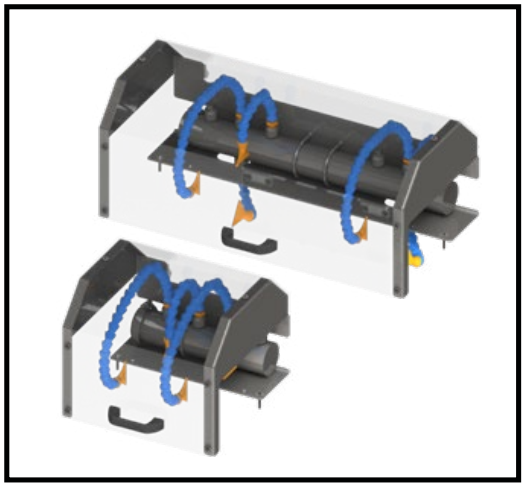
310070 – DATE CODER WHEEL-200CPM
Max. Allows for center of the can date application (ink printer not included)



310066 – POST FILL RINSE
Can be upgraded with penumatic flow valve for added utility monitoring.



310220 – CAN STOP
Penumatic controlled, can be added to filler or in-line on conveyance to offer added product control



POST RINSE DRYER

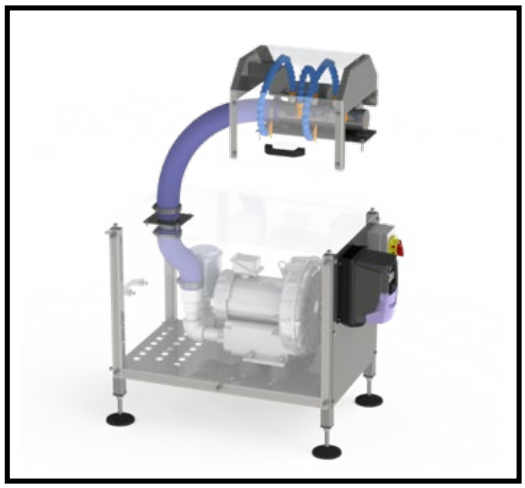
310061 – 100-200CPM DRYER
310065 – 50CPM DRYER

Feature flare nozzles to provide maximum product coverage to knock standing water left by full can rinse. Fully washdown.

BLOWER STAND

310820-XXX – 5H.P. BLOWER
310830-XXX – 2.5H.P. BLOWER

Features fuji blowers that use VFD to offer maximum air flow with less energy use. Vented on the bottom to allow for air flow and prevent moisture from entering stand. 1/2" thick panels for added noise control.



POST RINSE DRYER

310900- XXX – 2.5H.P. / 50CPM DRYER
310905- XXX – 5H.P. / 100-200CPM DRYER

Includes 6' flexible polyproplene hose for remote installation on conveyance.

POST RINSE DRYER AND BLOWER STAND

OPTIONS AND ACCESSORIES

DRAIN PAN (-XD)

310735 – 3’ DRAIN PAN
310740 – 5’ DRAIN PAN
310745 – 90 DEGREE DRAIN PAN
310750 – 45 DEGREE DRAIN PAN
310755 – 90 DEGREE B0 DRAIN PAN
310760 – 3’ DRIVE JUNCTION PAN

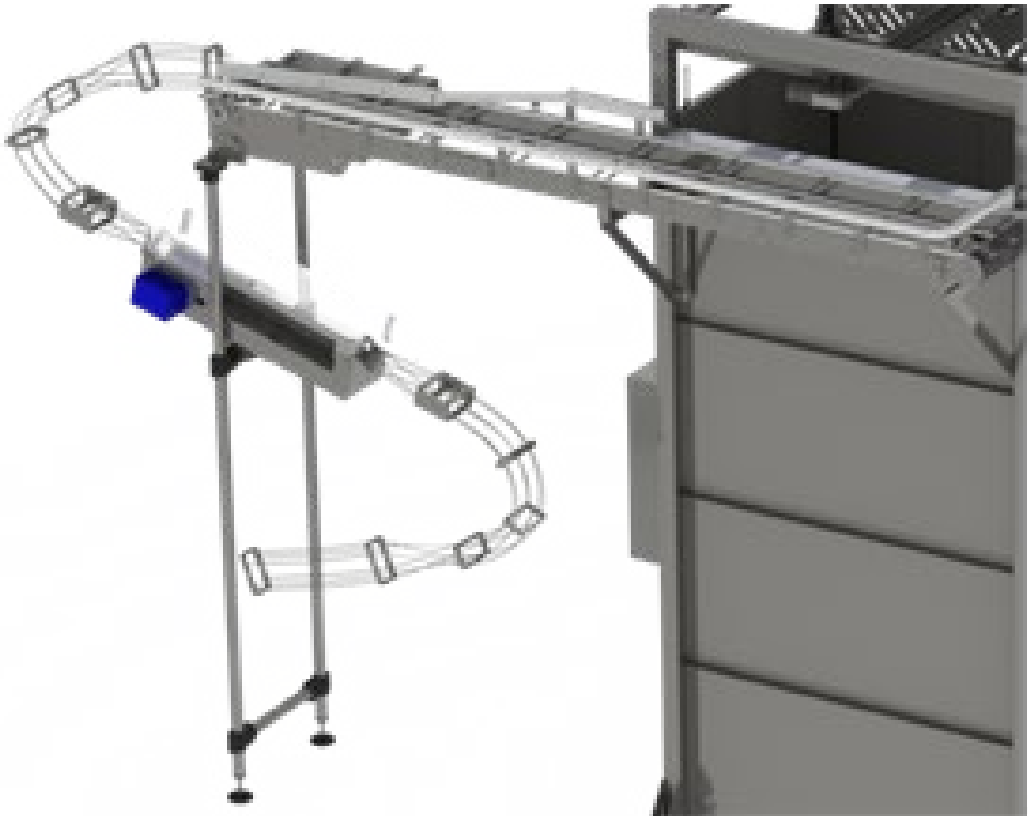
COVERS (-CX)

310710 – 3’ COVER
310715 – 5’ COVER
310720 – 90 DEGREE COVER
310725 – 45 DEGREE COVER
310730 – 90 DEGREE B0 COVER

NITROGREN DOSER MOUNTING AND CONTROL PANEL STAND

FEATURES

- T304 stainless steel construction
- Panel mount stand is on locking casters for ease of placement during operation.
- Mounts to existing palmer beverage fillers and conveyance. Nitrogen doser sold seperately.



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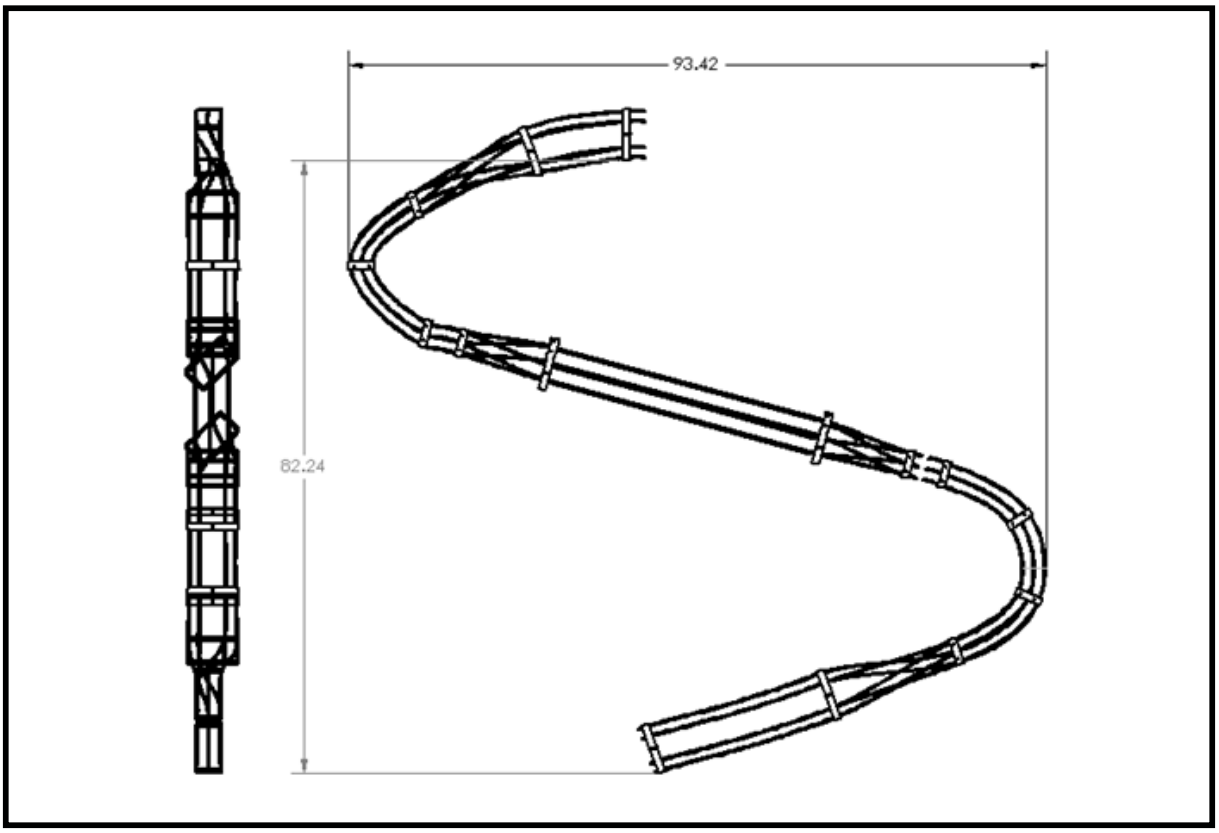
S-TWIST RINSER FITTING



FEATURES

- -1/4 T304L round bar construction.
- -3-Piece construction foe ease of storage when not in use.
- -Unique design allows for compact line layout.

STANDARD CAN

310350 – 12oz (355ml)
310360 – 16oz (473ml)
310370 – 19.2oz (568ml)
310910 – 8oz (227ml)
310915 – 11.2oz (333ml)
310920 – 330ml
310925 – 500ml

SLEEK CAN

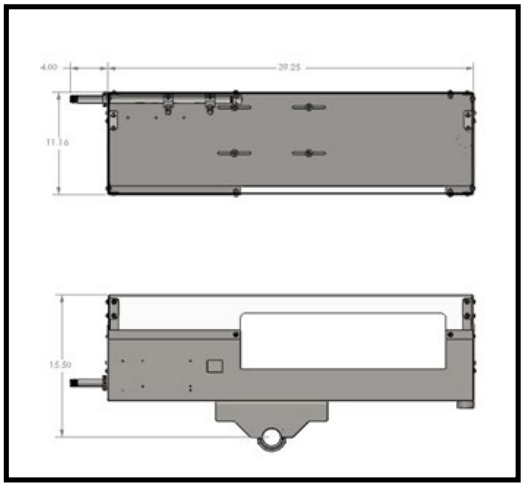
310450 – 12oz (355ml)
310460 – 8oz
310930 – 11.2oz (330ml)

SLIM CAN

310470 – 5.5oz (170ml)
310360 – 187ml
310490 – 6.8oz (200ml)
310935 – 8.4oz (250ml)

In-line options available upon request to meet your layout needs. Please contact sales@palmerbeverage.systems or hello@palmerbeverage.systems to request more information.

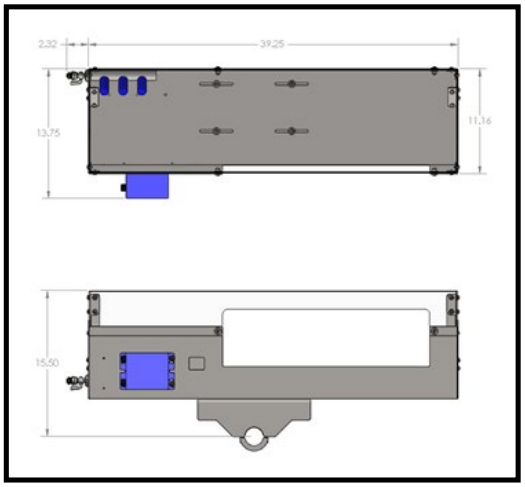
EMPTY CAN RINSER



310290:
WATER RINSE CABINET

FEATURES

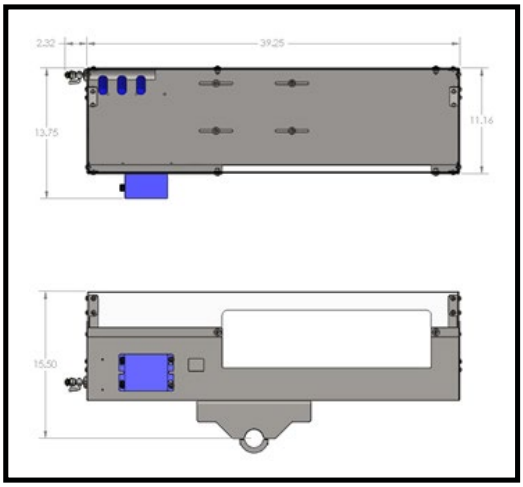
- Polycarbonate cover.
- 1/2NPT connection.
- Direct mounting to support leg on 18MTC.



310310:
50-100CPM IONIZED RINSE CABINET

FEATURES

- Polycarbonate cover.
- 6mm push to connect input.
- Direct mounting to support leg on 18MTC.
- 230VAC power supply.



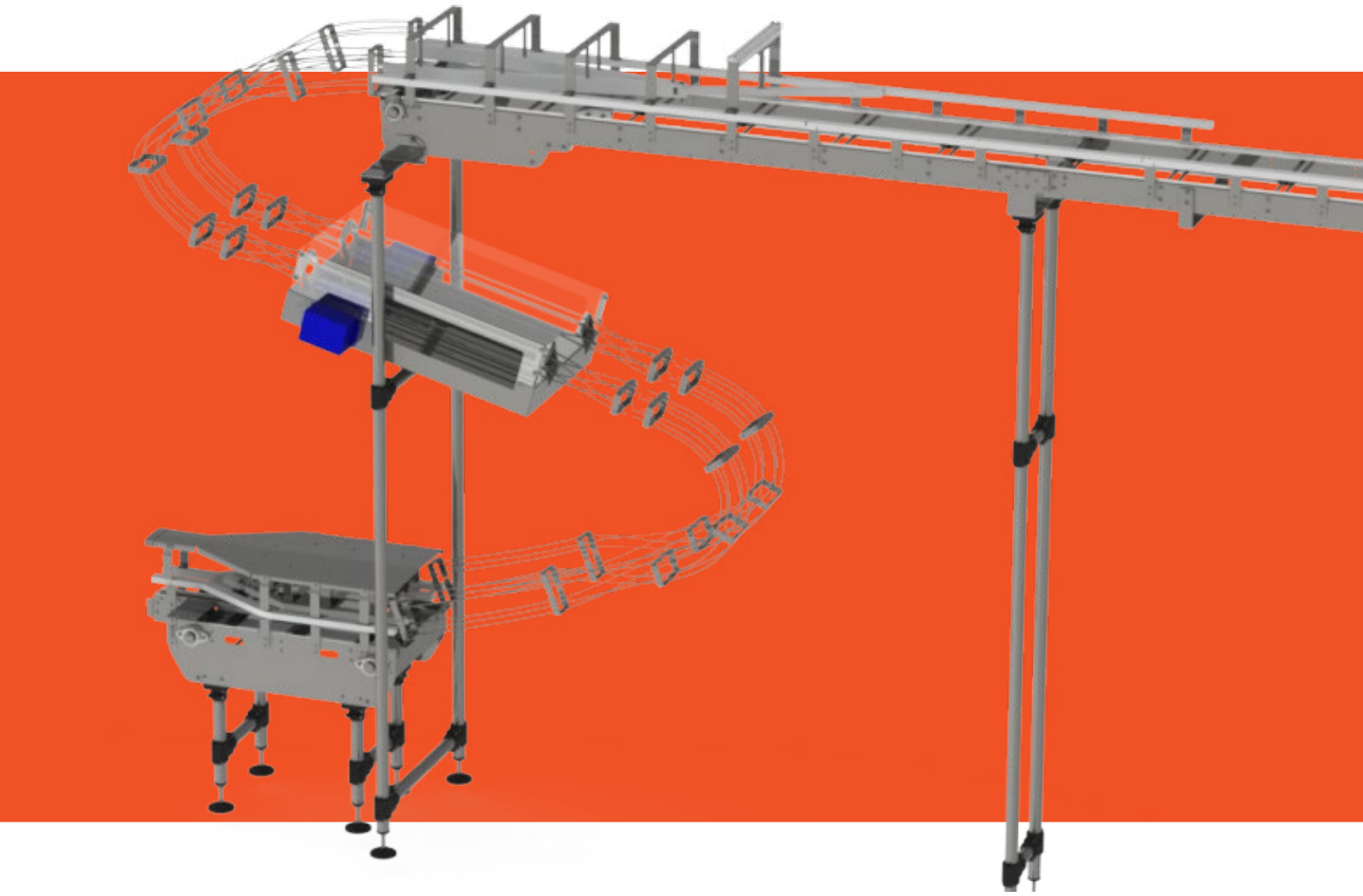
310680:
200-300CPM IONIZED RINSE CABINET

FEATURES

- Polycarbonate cover.
- 6mm push to connect input.
- Direct mounting to support leg on 18MTC.
- 230VAC power supply.

EMPTY CAN RINSER

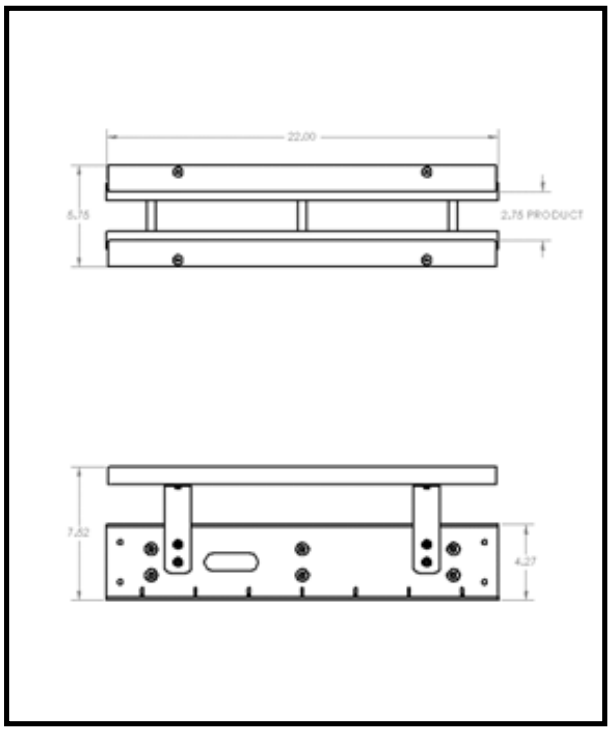
DUAL-LANE INFEED UPGRADE OPTIONS



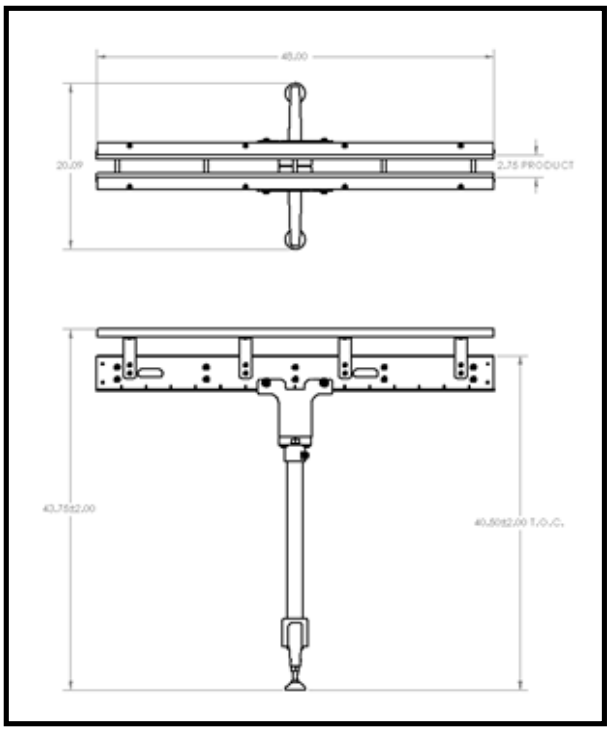
DUAL RINSE FEATURES

Please see ‘empty can rinser’ section for features of dual rinses.

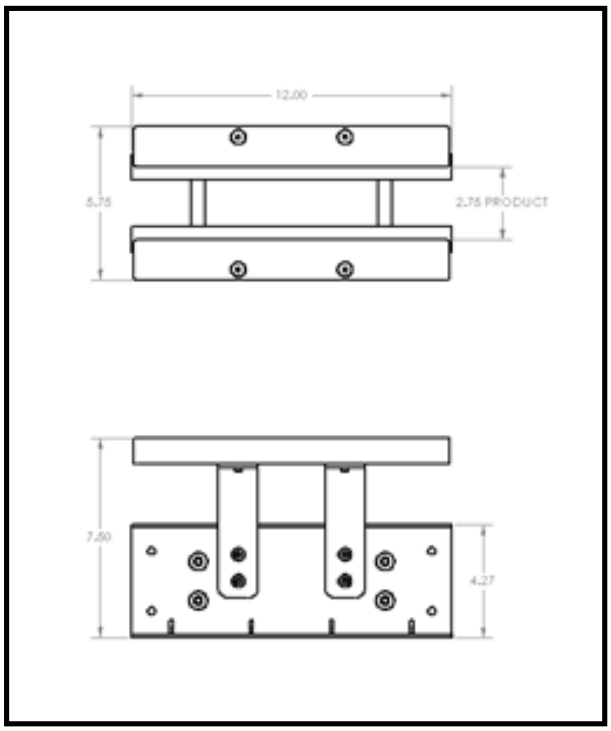
DUAL-LANE INFEED UPGRADE OPTIONS



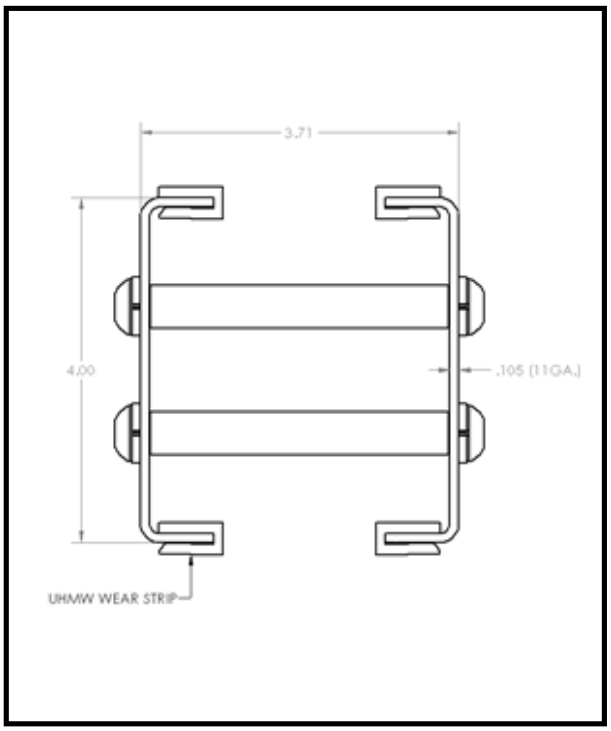
310855 – DUAL WATER RINSE



310860 – DUAL 50-100CPM IONIZED RINSE



310865 – 200CPM IONIZED RINSE



310875 – DUAL LANE INFEED

DUAL-LANE INFEED UPGRADE OPTIONS

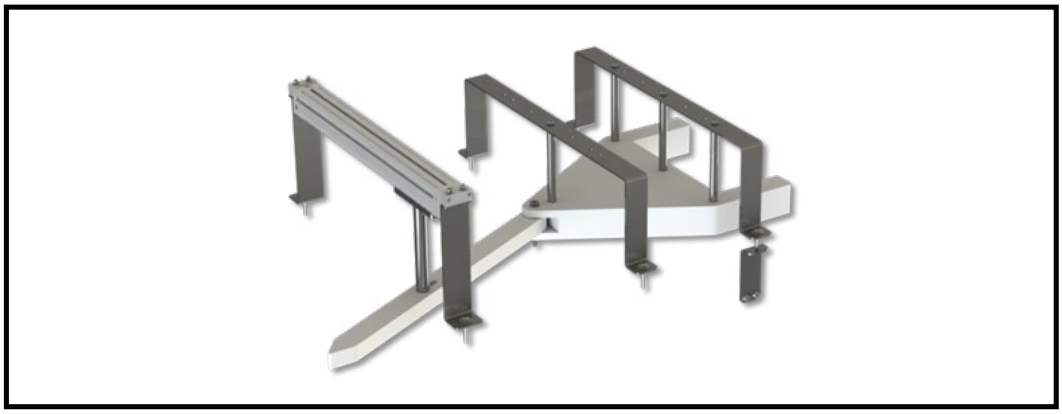
310875 FEATURES

- Wash-down mounted ball bearings.
- 1/2 H.P. 230/480 3ph – 56c nema faced washdown motor.
- Rugged machined right angle shaft mount worm gear drive.
- Built in cover to protect inside of cleaned can.
- Manual gate to switch lane on demand.
- 3.25ttc thru center lane.

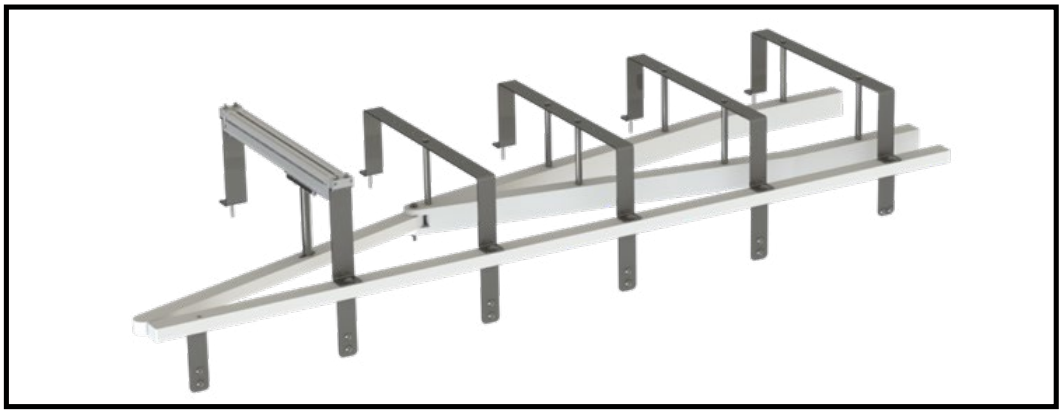
Palmer Beverage SYSTEMS

DUAL-LANE INFEED UPGRADE OPTIONS

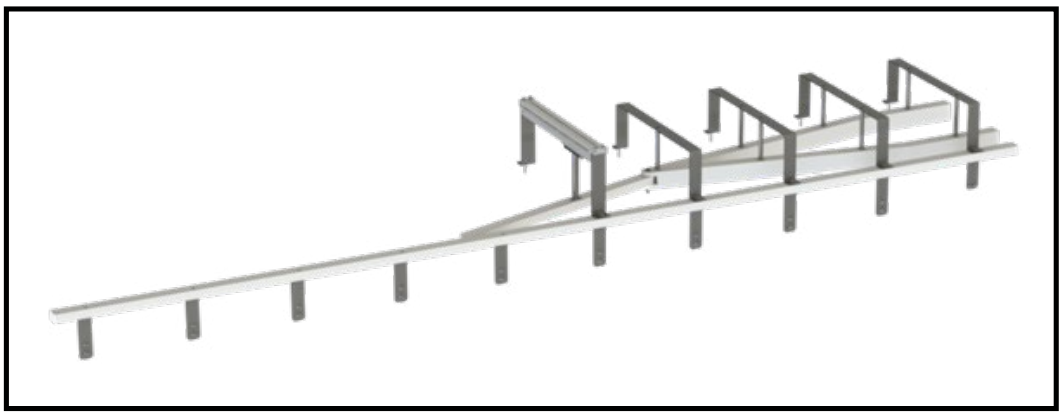
All options below are additonal bolt on kits available for all standard 18MTC Palmer Beverage products. By use of a manual 2-way penumatic valve (not displayed) the operator can change the fitting in use without the need to climb a ladder or the use of any tools. Please call you palmer beverage representative to talk about adding this to new quotes or exsiting lines. This option requires purchase of palmer beverage dual-lane rinse cabinet.



310880 – 18MTC – 8’ DISCHARGE DUAL LANE OPTION



310885 – 18MTC – 11’ DISCHARGE DUAL LANE OPTION



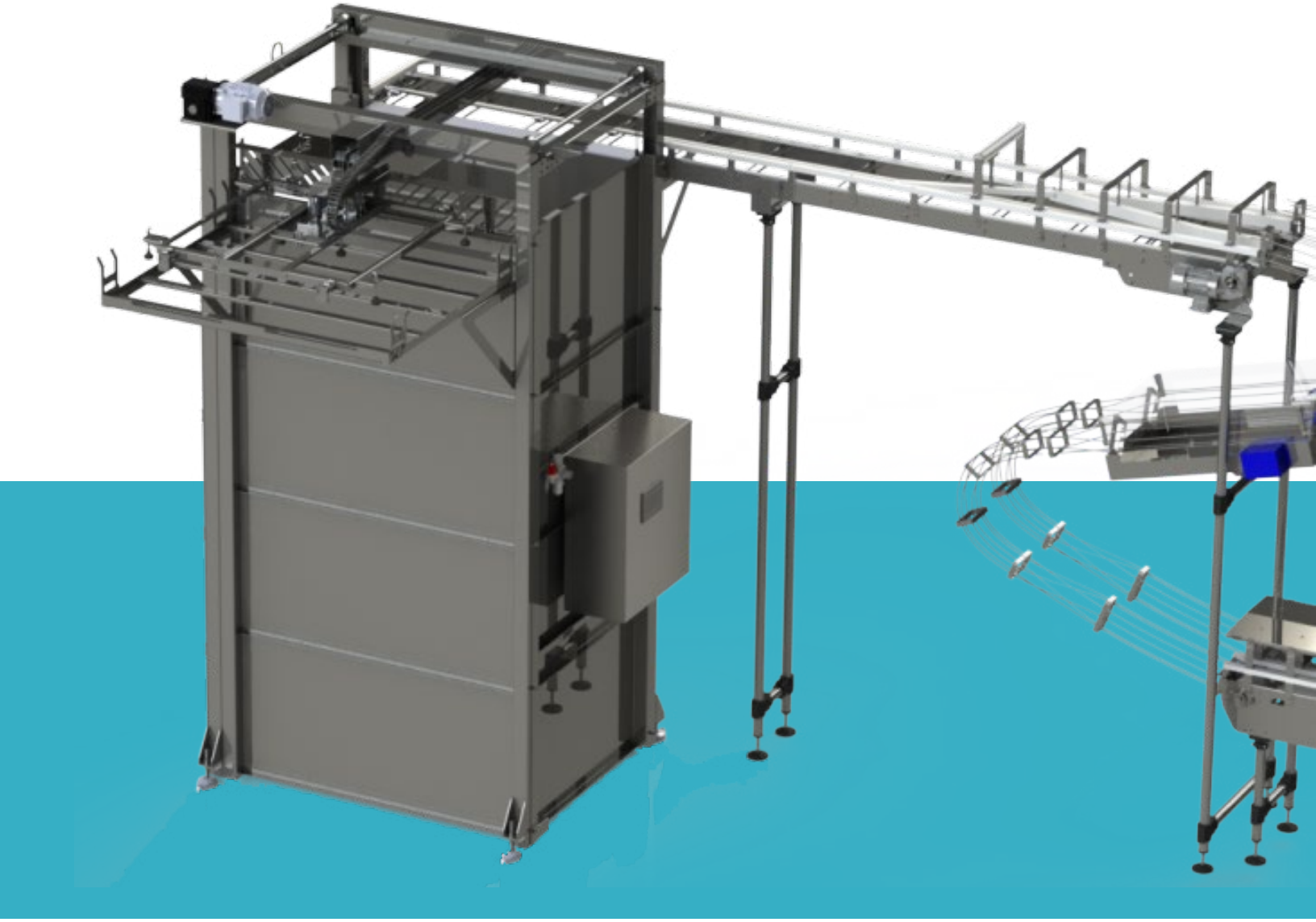
310890 – 18MTC – 15’ DISCHARGE DUAL LANE OPTION

Palmer Beverage Systems

STANDARD DEPALLETIZER

Palmer Beverage Systems

STANDARD DEPALLETIZER

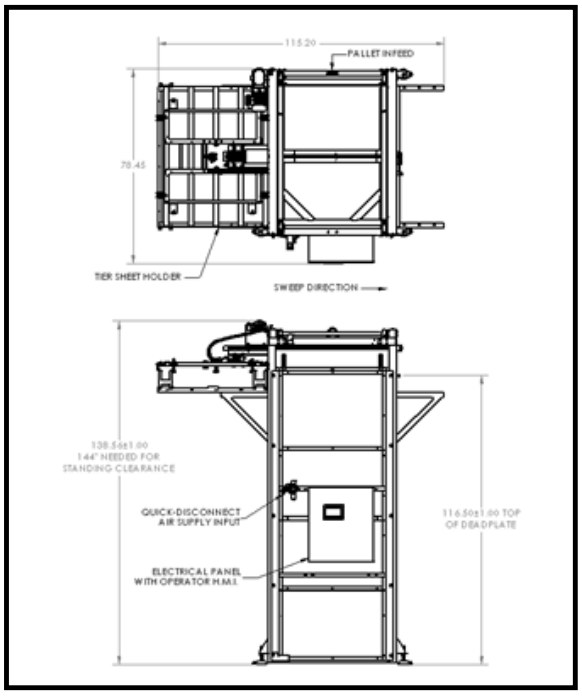


PAGE GUIDE

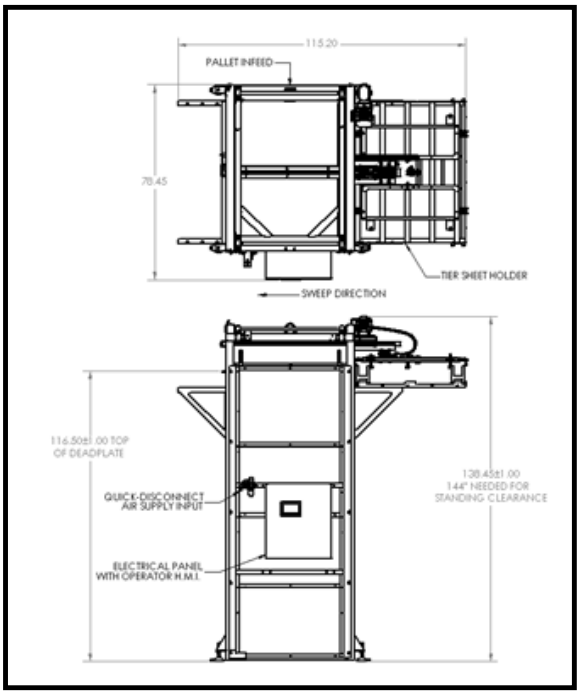
PG. 45	FEATURES AND DESCRIPTION
PG. 46-48	DEPALLETIZER WITH DUNNAGE STORAGE

FEATURES AND DESCRIPTION

Our Palmer Beverage Systems depalletizer is formed from T304 sheet steel with a #4 food grade polish where applicatable. It is able to continual sweep or intermitent sweep to suit a myriad of product applications and support most industry standard line speeds. All units have standard automated top frame and slip sheet removal to a centeralized holder frame allowing easy handling for returning; plus the off the ground storage reduces footprints and dirt that may add to cleaning cost once returned. Lifting chains are located internally for safety. All plastic components are UHMW for part longevity and to reduce the need for external lubrication. The depalletizer only requires minimum preventative maintenance to enure minimal downtime and operator interaction. All depalletizers can be combined with palmer beverage mtc products to provide you with worry free infeeding solution into our standard line of fillers and conveyance.



710000 – STANDARD RIGHT-HAND SWEEP



720000 – STANDARD LEFT HAND SWEEP

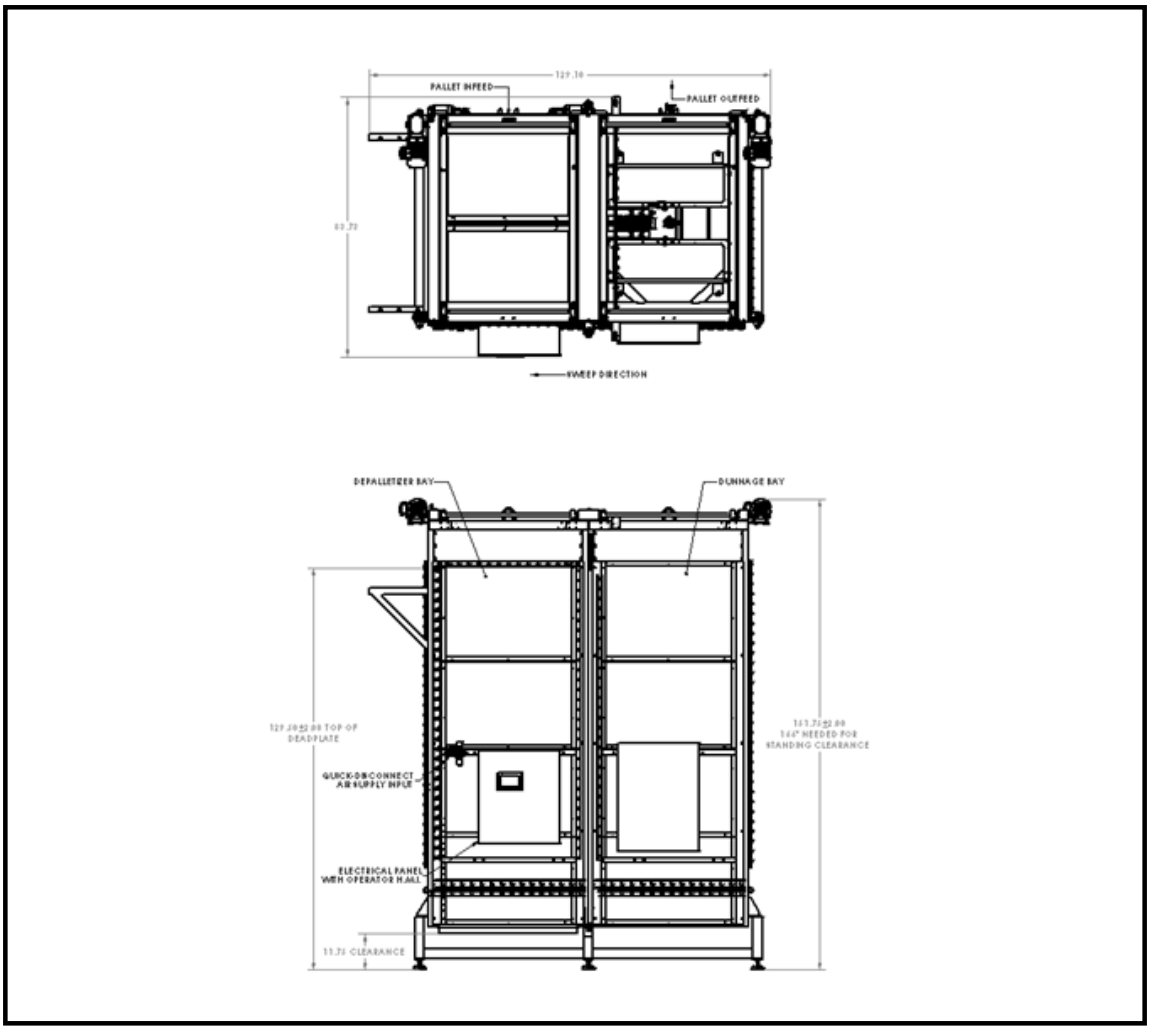
FEATURES

- Polycarbonate doors with slide latch for added safety.
- #50 Lifting chain with turnbuckles for fine tune adjusting and leveling.
- Mounted ball bearings for smooth lifting operation.
- 1 H.P. 230/480 3PH – 56C NEMA faced motor.
- Rugged machined right angle shaft mount worm gear drive.
- Adjusting levelers for added control at installation.
- Available in 230VAC and 480VAC 3 phase to suit your utilities. European and Australian specifications offered as well.
- Sweep speeds up to 650 C.P.M. Standard with auto top frame and tier sheet removal.

DEPALLETIZER WITH DUNNAGE STORAGE

For higher speed lines Palmer Beverage Systems is proud to offer our fully automated depalletizer that features a unique storage bay to allow for up (8) skids of top frames and slip sheets. This has all the same features and meets the same safety requirnments as our standard line depalletizer. Please contact sales@palmerbeverage.systems or hello@palmerbeverage.systems to request more information about our pallet handling systems for full line automation.

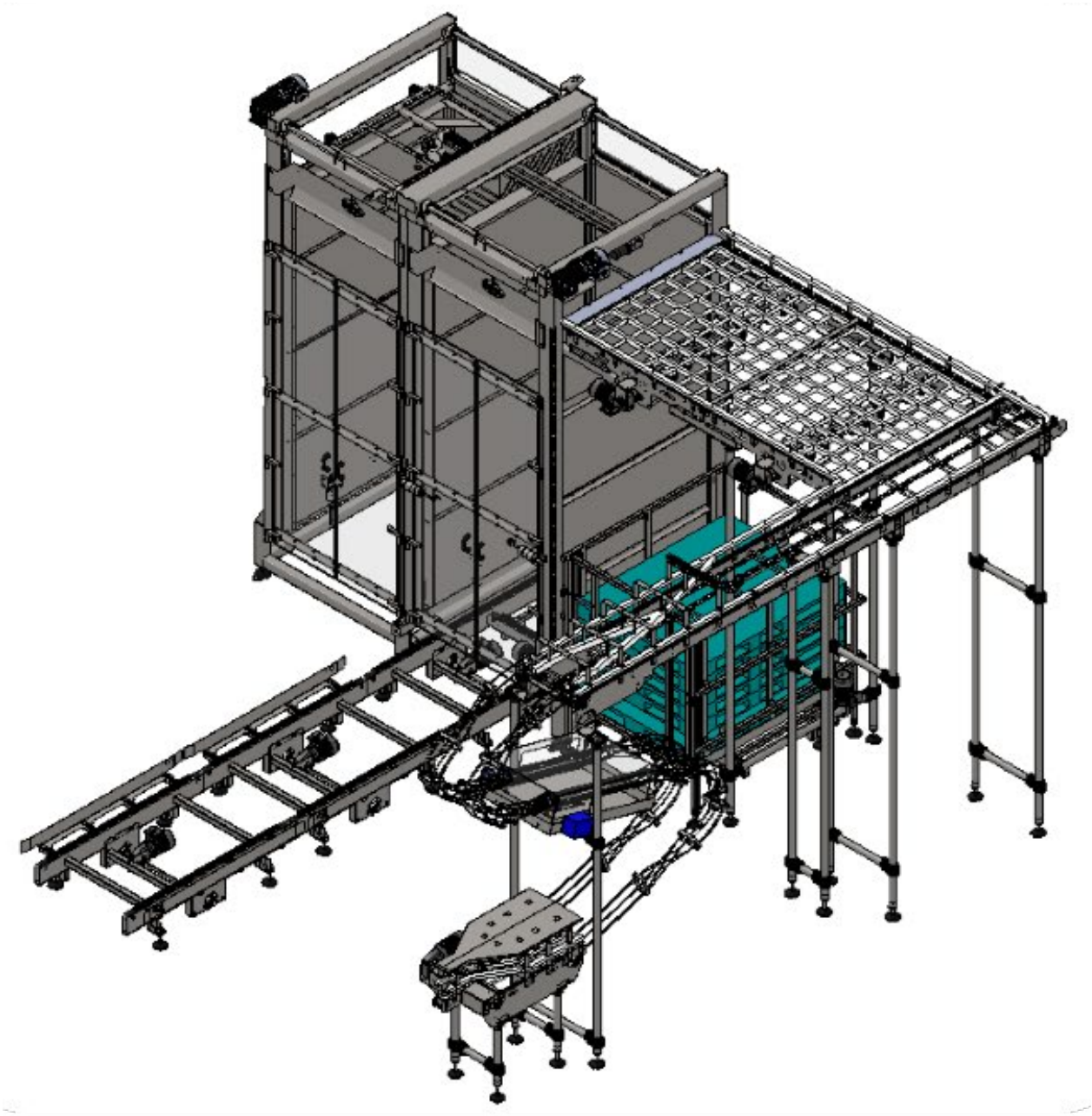
DEPALLETIZER WITH DUNNAGE STORAGE



FEATURES

- See “depalletizer features” for basic features (pg. 42).
- Sweep speeds up to 650 C.P.M. standard with auto top frame and tier sheet removal to dunnage bay.
- Supplied with 3” square tube welded frame to allow for pallet handling conveyance to be added for full automation.
- Automated penumatic cylinders allow for infeed doors to be opened without operator moving from forklift. Also allows for unattended loading of pallets into depalletizer.
- Side cut—out can be provided to allow for empty pallet handling to further automate line.

DEPALLETIZER WITH DUNNAGE STORAGE



Picture above displays a fully automated 650 C.P.M. line. It features dual mass flow out feed to an 18MTC with a dual-rinse ionized cabinet and fittings. The system employs 2x pallet infeed conveyors and 1x pallet handling conveyor with penumatic empty pallet handling unit that feeds to auto pallet stacker. Please contact sales@palmerbeverage.systems or hello@palmerbeverage.systems to request more information.

Virgin BEVERAGES

Palmer Beverage SYSTEMS

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