

**PACLINE**

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**For Concept Purposes Only.**

**Actual Component Designs**

**May Vary.**

**For Engineering Inquiries**

**Contact PACLINE.**

**PACLINE reserves the right to make any changes without notice.**



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## PAC-MAX™ CONVEYOR SPECIFICATION

### 1.0 GENERAL CONVEYOR CAPACITIES

Maximum Pendant Capacity	200 lbs.
Maximum Drive Pull capacity	up to 2000 lbs.**
**Drives are configured for chain pulls of 250, 600, 1000, 1400 & 2000 lbs. based on engineering review of customer-specific operating conditions (refer to drawing 310 & 311)	
Maximum Chain length per Drive Unit	varies (based on loading and layout)
Chain Breaking Load – Ultimate Strength	15,000 lbs.
Chain Pitch (multiples that pendants can attach to)	8" or 6"
Maximum Operation Temperature	
Open wheeled chain (with appropriate lubricant)	up to 650 F / 343 C
Sealed wheel chain (limited by seal & grease spec)	212 F / 100 C
Radius for Horizontal & Vertical Curves	24, 30, 36, 48 inches
Maximum Operating Speed	45 FPM

### 2.0 CHAIN

#### 2.1 CAPACITIES

The PAC-MAX™ heavy duty enclosed track conveyor is capable of carrying 200 lb. loads from a single hanging point (pendant). Heavier loads of 400 lbs. and 800 lbs. can be supported by two and four trolley pendant & load-bar arrangements respectively.

#### 2.2 CONSTRUCTION AND ASSEMBLY

Mild steel with case hardened components. The chain length is comprised of segments consisting of the following parts:

- Wheels (either open or sealed)
- Sintered Blocks
- Side Link Assemblies with pressed pin
- Circlips

Side links with hardened steel pins pass through cruciform sintered blocks in both the vertical and horizontal planes. A second side link with pin is used to capture the sintered blocks. Wheels are then placed on the protruding portion of the pin and secured with circlips. All chain segments come with a connecting link set. PAC-MAX™ conveyor chain can be ordered for either 8" or 6" Pitch

#### SEGMENT LENGTHS WITH CONNECTING LINK:

- 8" pitch chain – 10'-8"
- 6" pitch chain – 10'-0"

Wheels and subassembly of side link with pin have the option to be zinc plated or nickel plated.

Refer to drawing 306 for more details.

### 2.3 CHAIN ROLLER WHEELS

Chain wheels come with case hardened inner and outer raceways complete with full complement of case-hardened carbon steel balls. They have a maximum static load capacity of 325 lbs. The wheels are secured on the pins with circlips

Open style wheels have exposed bearing balls that allow lubrication to be applied with a lubricator unit.

Sealed wheels use rubber gasket to permanently seal lubrication (grease) in the bearing balls.

### 2.4 SINTERED BLOCK

The sintered block is manufactured from powder metallurgy. The cruciform block acts as a universal joint allowing the pins to articulate in both the horizontal and vertical planes. The block also has a small hole that allows lubricant to flow to the pins.

**IMPORTANT:** During installation or maintenance, ensure that the sintered block lubrication holes are oriented UP regardless which way the track slot is facing.

### 2.5 CHAIN SIDE LINKS

The conveyor side links are punched from 3/16" thick mild steel

PAC-MAX™ chains have the same length of horizontal and vertical side links, which eliminates incorrect assembly.

### 2.6 WHEEL PINS

The pins are machined from mild steel and case-hardened to increase wear resistance. One side of the pin is knurled and once pressed into the side link to prevent rotation.

## 3.0 CHAIN PENDANTS

Pacline offers different bolt-on pendants for the carrying of product at specific intervals. Pendants are not included as part of the chain assembly itself. Mounting holes are provided in the CHAIN SIDE LINK to attach these pendants (or other bolt-in feature) for this purpose. The product carrying intervals can be as close as the chain pitch – either 8" or 6". Note that due to the alternating side links on the chain, the pendants require two different mounting styles to achieve consistent part spacing. The mounting styles are called INNER & OUTER. The inner style is fastened between the side links whereas the outer style is fastened to the outside of the link.

Three styles of pendants are available for mounting of product carrier:

- 3.1 Single Hole Pendant – General purpose, typically used on conveyors with changes in elevations – and both Slot Down & Slot Up capable. (Single hole mounting hardware allows product carrier to pivot at elevations).
- 3.2 Double Hole Pendant – General purpose, but used on Mono-plane, (no changes in elevation) style conveyors and both Slot Down or Slot Up capable. (Double hole mounting hardware does not allow product carrier to pivot).
- 3.3 C-Pendant – Specific purpose, used only on Slot Sideways style conveyors with or without elevations.

Single & double hole pendants are fabricated from 1/4" mild steel. C-Pendants are cut & formed from 5/16" mild steel

All pendants come complete with mounting hardware to affix them to the conveyor chain.

NOTE: Consult Pacline Engineering for custom hanging arrangements or configurations.

Refer to drawing 307, 308 & 309 for more details.

## **4.0 TRACK**

### **4.1 TYPICAL CONSTRUCTION**

Manufactured from two (2) accurately formed 10 ft. sections, then placed in a jig with (5) flanges and welded to maintain the exact profile.

The unique cross shape profile of the track allows a system to be oriented in any position required. Standard Slot Down, Slot-Up (inverted), or Slot Sideways

Standard Finish: Powder Coated to RAL 3000 "Poppy Red"

Standard Lengths: 10 feet long

Refer to drawing 301 for more details.

### **4.2 UPGRADE: HEAVY DUTY TRACK FOR HIGH POINTLOAD APPLICATIONS**

HEAVY DUTY TRACK may be considered in high point load applications. Additional track flanges are welded to the track for a total of 9 flanges per 10 ft segment.

NOTE: Heat treating of the track may also be required for 'extra-heavy' applications. Consult Pacline Engineering for application review

#### 4.3 UPGRADE: TIGHT TOLERANCE TRACK

When tighter control of chain movement or clearance between the chain bearing and the track profile is required along the straight run, the special 'TITE-TRACK' is available. The internal clearance is reduced by half from the standard 0.13" to 0.06". The 'TITE-TRACK' is available in 5 ft long sections to hold the tighter tolerances which may be required in robot spray applications or similar. 'TITE-TRACK' Transitions are 9" long and must be used upon connecting a 'TITE-TRACK' section to a regular track section, curves, or Take-Up unit. This ensures a smooth and gradual change between the regular and the 'TITE-TRACK' profile.

NOTE: Consult Pacline Engineering for application review.

#### 4.4 UPGRADE: STAINLESS STEEL

In Washer applications, tracks potentially exposed to washer fluids may be available in grade 303/304SS. Pacline still recommends providing shrouding or other styles of barriers to prevent fluids or other contaminants from entering the track slot and depositing or corroding the conveyor chain and wheels.

NOTE: Consult Pacline Engineering for application review.

#### 4.5 ASSEMBLY

Track flanges are welded at of 30-inch centers to form modular sections for bolted construction and easy installation. Each length of track comes with 3/8" hardware for mounting tracks to adjacent track sections, curves or other components.

#### 4.6 SUPPORT SPACING

The spacing of supports (and clamps) is also critical for conveyor function and safety. The following chart gives an approximation of support spacing required along straight track runs:

Uniform Live Load (lbs./ft)	Concentrated Mid-Span Load (lbs.)	Track Support Interval (ft)
75	400	11.0
150	675	10.0
225	900	8.0
300	1050	7.0
338	1100	6.5

NOTE: Consult Pacline Engineering for application review.

### 5.0 TRACK CLAMPS

The conveyor and its load need to be properly supported. This can be done by attaching to building columns, other floor supports and/or ceiling joists or trusses. Whatever support method is decided upon, track clamps are needed to properly affix the conveyor components to the supports in all "slot down" applications. A clamp set consists of the top angle bracket that can be bolted to the track flanges, or combined with two clamp halves ("Z-Brackets") that hook over the track profile allowing (2)



distinct clamping arrangements. 9" long thread rods are also included in the clamp set to facilitate height adjustment on site.

Standard Finish: Zinc Plated

Refer to drawing 319 for more details.

Use of Track Clamps with various conveyor components:

- Drive Units: "Standard" track clamps are not used to hang the drive unit. Refer to drawings 310 & 311 for typical "slot down" & "slot up (inverted)" hanging points. Consult Pacline Engineering for "slot sideways" application review.
- Track Sections: Refer to table in Sect 4.6.
- Curves: At a minimum, 30, 45 & 90 deg curves should be supported at each end. Depending on the loads being conveyed and the curve radius, additional support points may be required along the curve itself. Consult Pacline Engineering for application review.
- Take-Up Units: Take-Up Runners use a different style of clamp to affix to each end of each runner. Refer to drawing 314 for Runner arrangements.
- Maintenance Units: Due to the construction of Maintenance Units and their ability to remove a "half section" to insert/remove chain, it is good practice to have supports in the vicinity of the ends of the tracks that join into each end of the Maintenance Units to avoid flexing of adjacent tracks when a "half section" (or the entire Maintenance Unit) is removed.
- Expansion Units: Due to the construction of Expansion Units and the way the loads are distributed on them in the potential "fully extended" operational condition, it is good practice to have supports in the vicinity of the ends of the tracks that join into each end of the Expansion Units to avoid unnecessary stress in the Expansion Unit members.

## 6.0 CURVES

Conveyor horizontal and vertical curves are constructed from rolled and nitrided angles to a "File-Hard" surface. The sheet metal coverings make the curves enclosed and consistent with the track. Flanges are welded to curves for stiffening and have slotted holes for easy alignment with other curves and track sections. Standard curve radii are 24, 30, 36, and 48 inches and can be ordered in 15-degree increments. 45 and 90 degrees are the standard and most common.

Heavy duty configuration is possible upon consultation with Pacline Engineering. Extra flanges are welded between standard flange locations.

Standard Finish: Powder Coated to RAL 3000 "Poppy Red"

Refer to drawings 303, 304 & 305 for more details.

## 7.0 DRIVE UNIT

### 7.1 DRIVE BODY

IN-LINE DRIVE UNIT with provision for variable speed up to a maximum of 45 F.P.M. The unit is supplied complete with a motor mounted to a hollow bore reducer with a torque arm overload with compression spring and a limit switch for overload detection. The overall length of the drive unit track

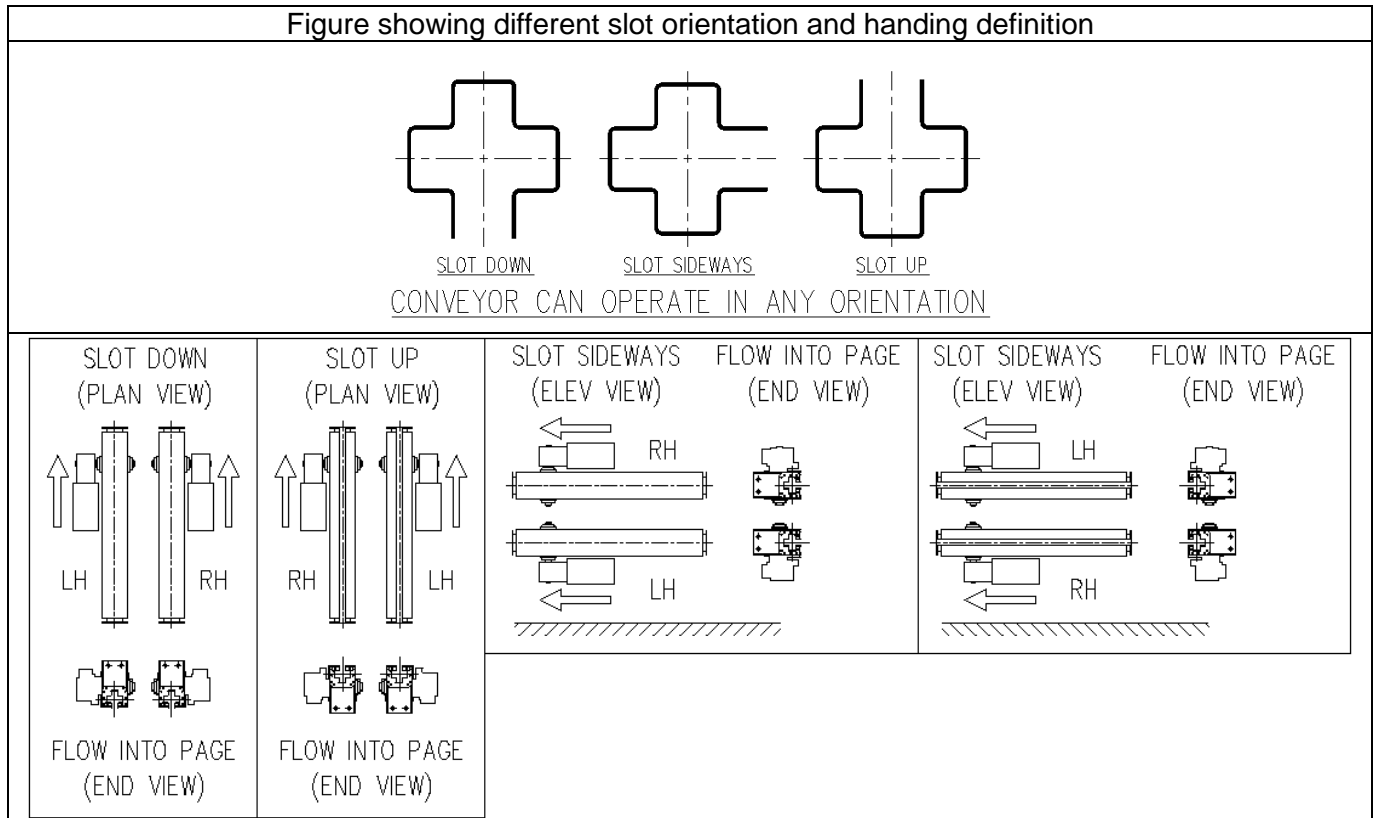
section is 61-3/8 inches. The drive can be configured as standard (slot downwards), inverted (slot upwards), or slot sideways.

Due to the use of flange bearings on the head shaft and bushings on the idler shaft, the drive units are only meant to be run in the FORWARD direction. Exceptions may be made should the system need to be “bumped” 6-12 inches in reverse due to an issue or jam. **NOTE: The torque arm overload limit switch does NOT provide any overload protection when the drive unit is run in the reverse direction.** In some cases, Pacline may supply a “reversing” drive unit on systems with lighter loads upon request should the customer have the need to run a system in reverse occasionally as part of their regular conveyor use. Such “reversing” drive units contain a second limit switch and compression spring to detect an overload in both the forward and reverse direction.

## 7.2 DRIVE HANDING

The handing of the drive unit is consistent with the direction of conveyor chain travel.

**IMPORTANT:** The *Drive Handing* is defined by the position of the motor-reducer assembly when viewed from the idler shaft (chain entrance) towards the drive shaft (chain exit) with the slot facing downwards. A left hand (LH) drive is therefore defined as having the motor and reducer on the left side of the drive unit when viewed from the idler shaft towards the drive shaft with the slot facing down.



- “Slot Down” (standard): The most common configuration used for hanging vertical loads with applications varying from industrial propane tanks to investment casting, agricultural, and even creative displays
- “Slot Up”: In the “slot up” (inverted) position, the PAC-MAX™ may replace a typical spindle conveyor, where the load is carried above the conveyor track. The system maintains the capability to incline and decline and protect the conveyor chain from shop debris and contaminants with the enclosed track.
- “Slot Sideways”: In the “slot sideways” position, the PAC-MAX™ can still offer great stability while protecting the chain from shop debris. In paint line applications, this arrangement can also protect the chain from paint over-spray (the slot faces away from the spray source), while still preventing debris from dropping vertically downwards into the conveyor chain. The conveyor is typically low (less than 36” elevation) to the floor, and employs a C-pendant to carry a part above the track. In this configuration, the drive employs a different upper cat chain guide along with additional plates, thrust bearings and retaining hardware to ensure smooth operation.

Regardless of slot orientation, Pacline still recommends providing shrouding or other styles of barriers to prevent fluids or other contaminants from entering the track slot and depositing or corroding the conveyor chain and wheels.

Refer to drawing 310 for more details.

### 7.3 MOTOR/REDUCER, CAT CHAIN, CAM YOKES

PAC-MAX™ gear-motors are ordered specific to the chain pull, conveyor speed and electrical requirements for each job. Safety factor is considered and added in our engineering calculations.

Typical Nord Reducer Models	Chain Pull
SK9012, 9013	< 600 lbs.
SK9016, 9017	600 ~ 1000 lbs.
SK9022, 9023	1000 ~ 1400 lbs.
SK9032, 9033	1400 ~ 2000 lbs.

In an 8” pitch conveyor chain system, the drive cat chain is assembled with (24) cam yokes and (24) UHMW Guide Pegs. The cam yokes are placed at 12” & 4” apart on 16” centers.

In a 6” pitch conveyor chain system, the drive cat chain is assembled with (32) cam yokes and (32) UHMW Guide Pegs. The cam yokes are placed at 10” & 2” apart on 12” centers.

These arrangements ensure that the cam yokes are placed in between the chain wheels at the horizontal link and will not interfere with the attachment of chain pendants.

Refer to drawings 312 & 313 for more details.

### 7.4 OVERLOAD PROTECTION & LIMIT SWITCH WIRING/SETUP

All PAC-MAX™ drives are protected with a “mechanical torque with compression spring and limit switch” assembly to prevent overloading and sudden shocks or jolts from the system. The assembly

consists of a limit switch mounted on the side of the drive unit and is activated by the torque arm of the reducer. The bracketry, clevis arm and spring color (size) are assembled on the drive unit based on its pull capacity.

***The setup of the limit switch is CRITICAL and must be wired correctly, prior to running the drive unit for the first time:***

- When the drive is assembled at Pacline, the limit switch roller arm is pre-loaded against the gearbox torque arm.
- When installing the drive unit on site, wire the limit switch NORMALLY OPEN. Re-check that the roller arm is still pre-loaded against the gearbox torque arm (as some electricians remove the pre-mounted limit switch to install cables, etc. and then may re-mount it incorrectly).
- Like an E-stop, the conveyor should operate when the limit switch circuit is CLOSED. When the drive jams and over-torques, the gearbox & torque arm pivot resulting in the limit switch arm moving to the OPEN position and should stop the conveyor via the VFD or other controls. This also ensures that if the limit switch cord is ever damaged/broken, that the conveyor is unable to run the motor.

***Circuit CLOSED = motor can run***

***Circuit OPEN = motor NOT permitted to run***

***NOTE: Drive units with a single torque arm overload limit switch do NOT provide any overload protection when the drive unit is run in the “reverse” direction. See Section 7.1***

Please refer to the engineering drawing for installation and maintenance.

## 7.5 HEAVY DUTY / EXTRA HEAVY-DUTY RATING

Drives with up to 1400 lbs. pull capacity are considered “heavy duty”, while the 2000 lbs. pull capacity are considered “extra heavy-duty”.

Refer to drawings 311 & 312 for more details.

## 8.0 TAKE UP UNITS

### 8.1 TAKE-UP ASSEMBLY

As conveyor chain is pulled through the system and into the drive unit, the Take-Up unit provides tensioning of the chain as it exits the drive unit. The Take-Up unit can also accommodate changes in chain length due to expansion from heat sources (i.e. ovens, washers) as well as gradual “wear-in” and stretch over time. The Take-Up assembly attaches the expansion units to the curves and is fastened to two cross members. Rectangular profiled runners with trolleys support the floating frame of the curve, expansion sections and cross members. Standard width or “spread” are 48, 60, 72, and 96 inches.

Take-Up units are typically spring tensioned but can also be ordered as a manual screw type or an upgraded pneumatic air type adjustment. The springs are fully compressed during assembly and for shipping purposes. The unit should only be loosened and expanded after the conveyor chain has been installed and connected.

Take-Up spread may be increased by adding a straight track section between the curves. Additional runners may be required to support the load. Pacline Engineering reviews take-up spreads versus conveyor loading to determine the quantity of runners and supports.

As an upgrade, Take-Up units can also be fitted with a limit switch to provide a signal when it has reached its useable spring compression (or in the case of a pneumatic Take-Up, its maximum expansion). At such point, maintenance is required to retention the springs and/or take out the slack conveyor chain.

Refer to drawing 314 for more details.

## 8.2 EXPANSION UNIT

Expansion units are always included as part of the Take-Up unit assembly. The expansion unit can extend up to 8-1/2" total. When used with a spring style Take-Up unit, the expansion sections are fabricated without the threaded rods to allow the 'floating frame' to travel.

On occasion, typically oven applications, the expansion unit is used separately to allow for thermal expansion of the track. In these applications, the expansion units are strategically positioned to allow the straight track sections to expand & contract as the oven warms and cools. Again, the expansion sections are assembled without threaded rods to allow travel.

Refer to drawings 315 for more details.

## 8.3 TENSION UNIT

Tension units are commonly used in systems where a full Take-Up unit is not required or not practical. These include an 'Over-Under' system, or in a 'Tow-Line' application. Because the tension unit is not allowed to "float", threaded rods are fitted on the unit for adjustment.

Refer to drawings 315 for more details.

## 9.0 INSPECTION / MAINTENANCE SECTIONS

The inspection or maintenance section is used to allow installation, inspection and/or maintenance of the conveyor chain in the conveyor track. A safety cover guards the inspection section and can be easily removed by loosening the wing nuts. The cover has a zinc plating finish for easy identification. The inspection section is fabricated with the same profile as the track and is split into two halves. When mounted between two track sections, either inspection halves can be removed to facilitate visual inspection of chain for wear, damage or lubrication. If maintenance or chain replacement is required, ensure that the Take-Up unit is adjusted prior to starting work.

## 10.0 LUBRICATOR UNITS

### 10.1 PUMP STYLE

The pump style lubricators are designed to be a dependable method of applying a consistent amount of lubricant at regular intervals to the conveyor chain. It can work in all three slot positions: down, up

and sideways. Its operation is clean, low maintenance and dependable. The motorized pump can be powered by 24VDC, 120VAC or 240 VAC.

The pump style lubricator comes complete with two flat brushes and three round brushes. The flat brushes apply lubrication to the conveyor chain pins and sintered blocks, while the round brushes apply lubrication to the chain wheels. Due to the brush material, the chain should not reach a temperature of >338F (170C) otherwise the brush bristles may become soft and melt, in which case a shot type lubricator would be the preferred option.

A compact 2 litre (1/2 gallon) reservoir is fastened to the lubricator track section and is electrically operated. The stroke output is externally adjustable. A translucent reservoir allows a visual check of the oil supply at all times. It is used with metered valves to deliver lubricant to the wheels and sintered blocks.

Refer to drawings 317 for more details.

## 10.2 GRAVITY (DRIP) STYLE – 5 Brush

The 5-Brush - Drip Style Lubricator offers an economical yet effective method for applying oil to the conveyor chain. In this system, a solenoid valve is actuated to allow lubricant to flow by gravity to the two flat brushes and three round brushes. The flat brushes apply lubrication to the conveyor chain pins and sintered blocks, while the round brushes apply lubrication to the chain wheels. A transparent reservoir allows a visual check of the oil supply at all times. The solenoid valve can be powered by 24VDC, 120VAC or 240 VAC. Two thumb screw needle valve & sight glass assemblies allow for adjustment of the lubricant flow. There is no timer, so a suitable method for on/off operation must be established by the end user. Due to the brush material, the chain should not reach a temperature of >338F (170C) otherwise the brush bristles may become soft and melt, in which case a shot type lubricator would be the preferred option.

Refer to drawings 318 for more details.

## 10.3 GRAVITY (DRIP) STYLE – 2 Brush

The 2-Brush - Drip Style Lubricator is an economical method for applying lubricant to systems with Sealed Wheel Chain. In this system, the lubricant is fed by gravity to the desired bearings points. A transparent reservoir allows a visual check of the oil supply at all times. Lubrication is applied to the chain pins and sintered blocks only. The solenoid valve can be powered by 24VDC, 120VAC or 240 VAC. Due to the brush material, the chain should not reach a temperature of >338F (170C) otherwise the brush bristles may become soft and melt, in which case a shot type lubricator would be the preferred option.

Refer to drawings 318 for more details.

## 10.4 SHOT TYPE

The shot type lubricator is an electro-pneumatic type unit where the chain temperature may exceed >338F (170C) and/or precise lubrication volume and location are desired and programmable at premium cost. It is operated by an air cylinder where the piston rod of which forms the ram of a displacement-type oil pump mounted on a 50-inch track section.

When the onward movement of the conveyor allows the actuating valve to close, the piston rod retracts and draws in a fresh charge of oil while the air exhausting from the cylinder passes back through the valve and ejects the stored oil charge onto the conveyor chain.



## 11.0 MANUAL SYSTEMS

Hand pushed systems are used when moving a product from one location to another. The system must be monoplane (without “up” or “down” elevation changes), and the product must be easily hooked or chained to the trolley. The conveyor path is typically simple, either a straight line or an ‘L’ shape, but can become complex if manual switches are used. Hand pushed systems consist of the following Pacmax components: STRAIGHT TRACK, CURVES, TRACK SWITCHES, TROLLEYS and LOAD BAR ARRANGEMENTS.

***WARNING: Operators must take care to avoid pinch points and crush hazards between parts and/or adjacent equipment as items of various sizes and weights can be manually pushed/pulled around the system at any speed. It is also critical that operators take care to spread out parts as to not exceed the Uniform Live Loading and or Concentrated Midpoint Loading within any area the system as damage or failure of the component(s) and/or structure may occur.***

Please consult Pacline Engineering for design details.

### 11.1 HAND PUSHED TROLLEYS

The 8-wheel trolley capacity is 200 lbs. and trolley to trolley distance can vary depending on product sizes and weight. The product can be attached with a ‘J’ Hook or chain. The provided 2-hole pendant can be removed and a custom attaching device can be added.

Refer to drawing 320 for more details.

### 11.2 LOAD BAR ARRANGEMENT

Load Bars are used to distribute the product load over 2 trolleys, providing a total load capacity of 400 lbs. to be hung from the load bar. In addition, the load bar can be configured so as to maintain a fixed distance between products to avoid collisions.

Refer to drawing 321 for more details.

### 11.3 TRACK SWITCH

Track switches are used strictly for non-powered manually operated (hand pushed) systems. They are manufactured from STRAIGHT TRACK and CURVED TRACK segments. Track switches are configured to give diverge or merge conditions from either the left or righthand side. They are pneumatically controlled by a hand valve connected to an air cylinder.

Refer to drawing 322 for more details.

## 12.0 UNDER GUARDING

Conveyor under guarding is recommended where loaded conveyor paths are over work areas, aisles, and machinery, to prevent injury or damage from falling parts or hooks. This is typically an OSHA requirement and/or federal, state or local safety codes. Style and size of under guarding varies depending on the size and weight of loads that are hung on the conveyor. Typically, steel frames are used to support steel mesh guarding panels, designed to catch any falling parts.

***IMPORTANT: As requirements vary by location and facility, customers are responsible to review all local requirements to ensure they meet the safety requirements for the geographic region and specific facility that conveyor is being installed at.***

Please consult Pacline Engineering for possible options.

## 13.0 SUPPORT STEEL

Typically, support steel is custom designed to suit the loading and required conveyor support spacing for the specific conveyor application. With heavily loaded conveyor, custom designed floor supports may be used to achieve the required conveyor support spacing, based on the loading of the specific conveyor application. In general, more heavily loaded conveyors require stronger support steel and more support locations. On occasion support steel may be attached to the building roof joists, mezzanine underside, booth structure, etc. if there is sufficient capacity to support the additional loads from the conveyor.

Please consult Pacline Engineering for possible options.

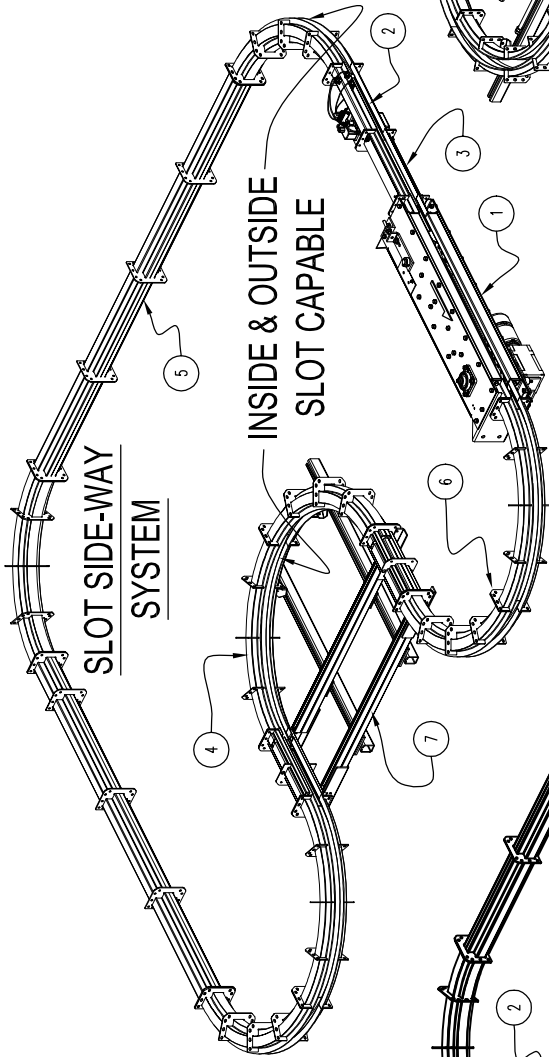


# 14.0 DRAWINGS



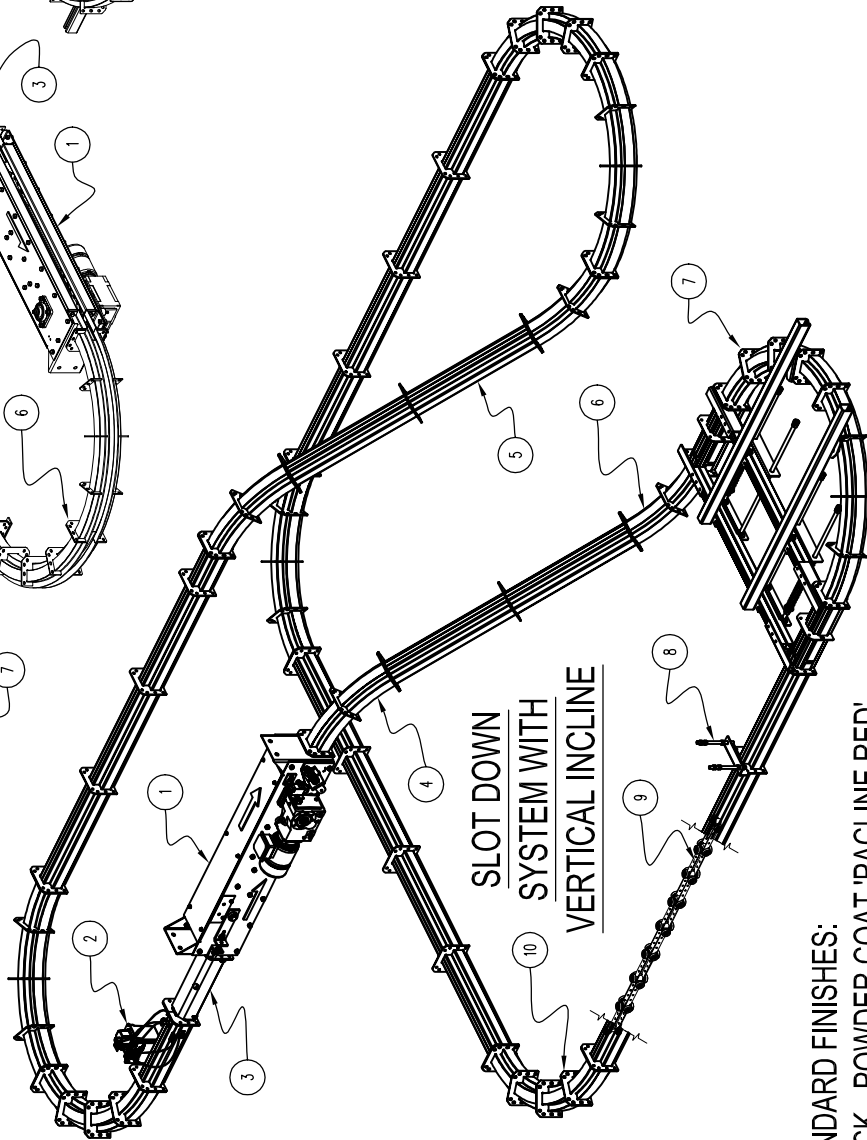
PACMAX ENCLOSED CONVEYOR  
COMPONENT IDENTIFICATION  
AND DRAWING REFERENCE  
(SEE BILL OF MATERIAL BELOW)

HAND PUSHED (NON-POWERED)  
SYSTEMS ALSO AVAILABLE

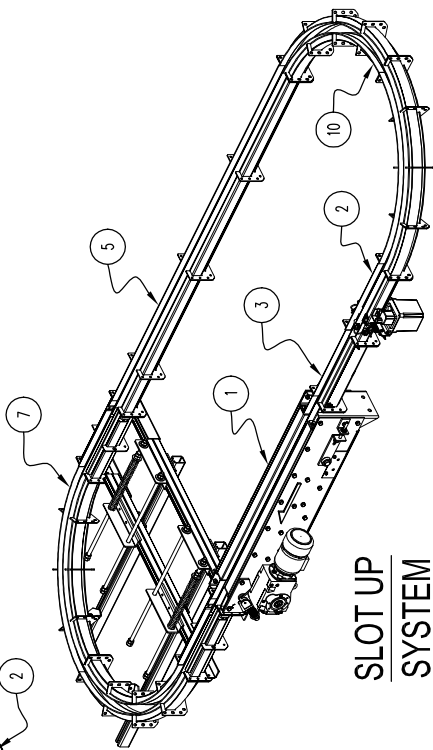


**SLOT SIDE-WAY  
SYSTEM**

INSIDE & OUTSIDE  
SLOT CAPABLE



**SLOT DOWN  
SYSTEM WITH  
VERTICAL INCLINE**



**SLOT UP  
SYSTEM**

ITEM	PART NO.	DESCRIPTION	DWG. REF. NO.
10	HB60	HORIZONTAL CURVE	303
9	CH60	CONVEYOR CHAIN	306
8	TC60	TRACK CLAMP	319
7	TU60	TAKE-UP ASSEMBLY	314
6	VB60 (outer)	OUTER VERTICAL CURVE (aka VERTICAL UP or SLOT OUTSIDE)	305
5	TK60	STRAIGHT TRACK	301
4	VB60 (inner)	INNER VERTICAL CURVE (aka VERTICAL DOWN or SLOT INSIDE)	304
3	MU60	MAINTENANCE UNIT - FOR INSPECTION & INSTALLATION OF CHAIN	316
2	LB60	LUBRICATOR - PUMP STYLE & DRIP STYLE	317, 318
1	DU60	DRIVE UNIT - HEAVY DUTY & EXTRA HEAVY DUTY	310, 311

**PACLINE**  
OVERHEAD CONVEYORS  
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**TORONTO**  
**BUFFALO**

PACMAX ENCLOSED TRACK - ENGINEERING MANUAL - GEN II	
DRAWN BY	NAME
DATE	AUG-2020
APPRO'D BY	NAME
SCALE	NTS
PART NUMBER	300
DRAWING NUMBER	300
REV	A

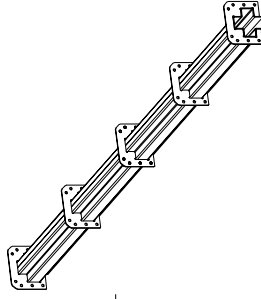
STANDARD FINISHES:  
TRACK - POWDER COAT 'PACLINE RED'  
CONVEYOR CHAIN - BARE  
TRACK CLAMPS - ZINC PLATED  
SUPPORTS - PAINTED 'PACLINE BLUE'

REV	DATE	DESCRIPTION	REV'D BY
A	AUG-2020	GEN II RELEASE	

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'STANDARD' TRACK - 120" OVERALL LENGTH

30" (TYP.)

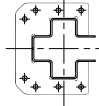


TK60-120

3/16" TRACK FLANGES

'HEAVY DUTY' TRACK - 120" OVERALL LENGTH

15" (TYP.)

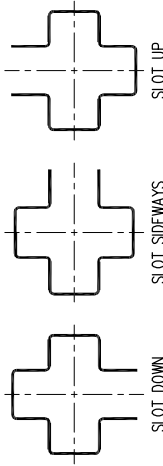


TK60-120HD

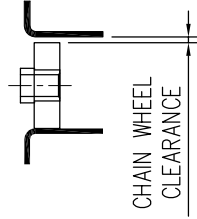
3/16" TRACK FLANGES

ITEM	PART No	DESCRIPTION	LENGTH	# OF FLANGES	CHAIN WHEEL CLEARANCE
1	TK60-120	STANDARD TRACK	120"	5	0.13"
2	TK60-60	STANDARD TRACK	60"	3	0.13"
3	TK60-120HD	HEAVY DUTY TRACK	120"	9	0.13"
4	TK60-60HD	HEAVY DUTY TRACK	60"	5	0.13"
5	TK60-120SS	STAINLESS STEEL TRACK (MILL FINISH)	120"	5	0.13"
6	TK60-60SS	STAINLESS STEEL TRACK (MILL FINISH)	60"	3	0.13"
7	TK60-60T	'TITE' TRACK'	60"	3	0.06"
8	TK60-60TSS	'TITE' TRACK' STAINLESS STEEL (MILL FINISH)	60"	3	0.06"

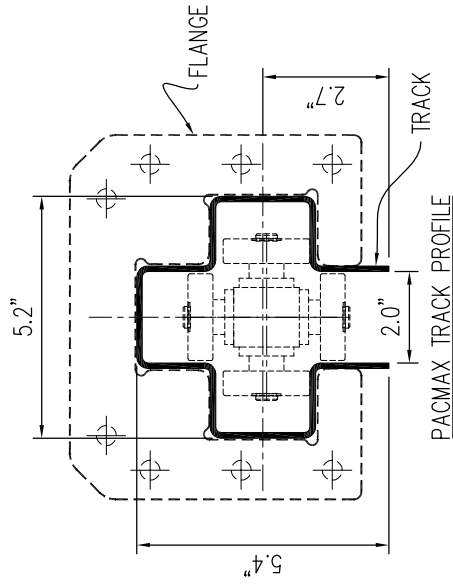
'TITE' TRACK' SOLD IN 5' LENGTHS ONLY



CONVEYOR CAN OPERATE IN ANY ORIENTATION



CHAIN WHEEL CLEARANCE



PACMAX TRACK PROFILE

EACH LENGTH OF TRACK  
COMES WITH (6) SETS OF  
HARDWARE FOR THE  
MOUNTING TO OTHER  
COMPONENTS

		FLAT WASHER - 3/8"
		LOCK WASHER - 3/8"
		NUT - 3/8-16NC
		BOLT - HHCS 3/8-16NC x 1-1/4" LG
ITEM	PART NO.	DESCRIPTION
		DWG. REF. NO.

TORONTO

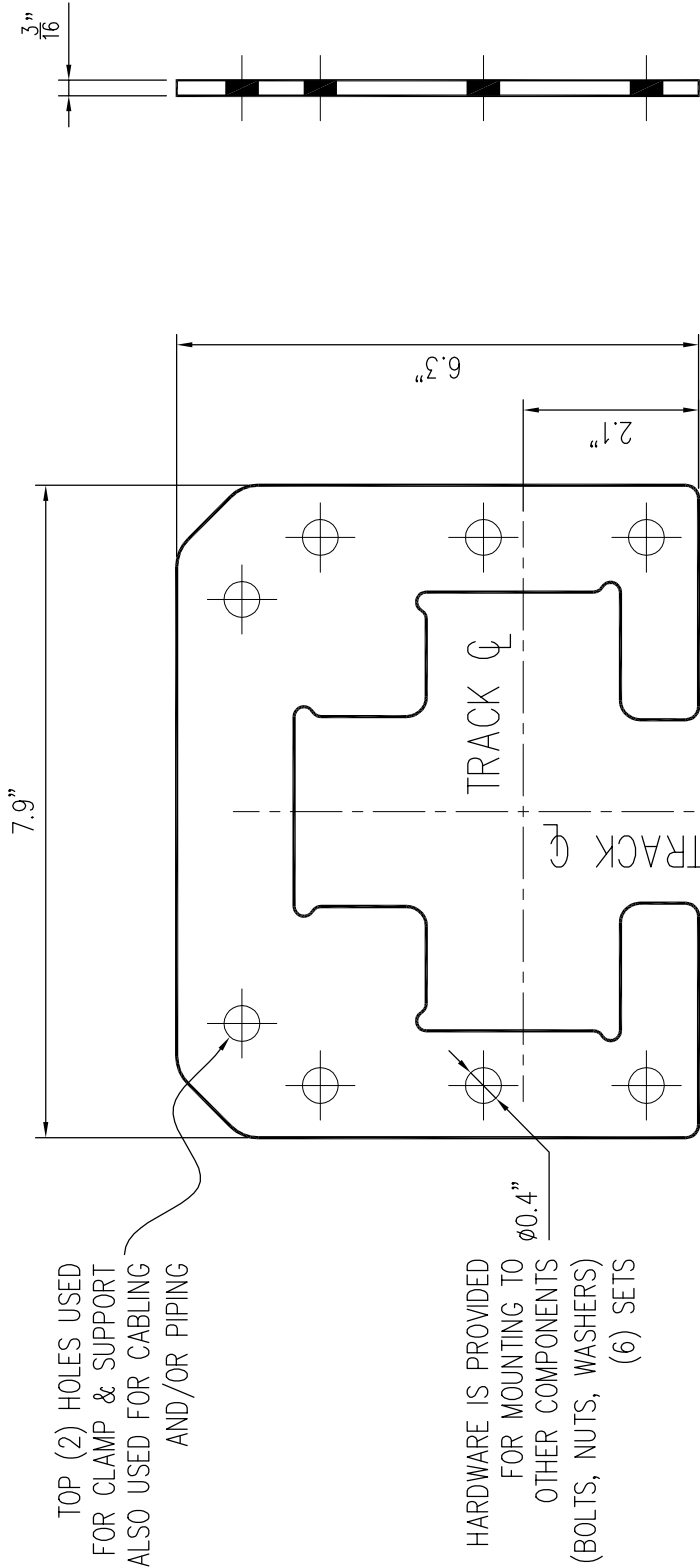
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BUFFALO

STANDARD FINISH:  
POWDER COATED - 'PACLINE RED'

PACMAX ENCLOSED TRACK - ENGINEERING MANUAL - GEN II	
DRAWN BY	NAME
DATE	AUG-2020
APPRO'D BY	SCALE
NTS	
PART NUMBER	TK60-CHAR
DRAWING NUMBER	301
REV	A

A	AUG-2020	GEN II RELEASE	DESCRIPTION	REV'D BY
REV	DATE			
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STANDARD FLANGE SHOWN

LOOSE FLANGES ARE REQUIRED WHEN SYSTEM LAYOUTS NEED CUSTOM LENGTHS OF TRACK (REF DRAWING 301 FOR STANDARD LENGTHS) SEE INSTALLATION MANUAL FOR WELDING PROCEDURE

ITEM	PART No	DESCRIPTION	MATERIAL	FINISH
1	TF60-100	TRACK FLANGE, STANDARD	HRPO	BARE
2	TF60-100SS	TRACK FLANGE, STAINLESS STEEL	304	MILL FINISH
3	TF60-100T	TRACK FLANGE, 'TITE' TRACK	HRPO	BARE

EACH FLANGE COMES WITH (6) SETS OF HARDWARE FOR THE MOUNTING TO OTHER COMPONENTS

		FLAT WASHER - 3/8"	
		LOCK WASHER - 3/8"	
		NUT - 3/8-16NC	
		BOLT - HHCS 3/8-16NC x 1-1/4" LG	
ITEM	PART NO.	DESCRIPTION	DWG. REF. NO.

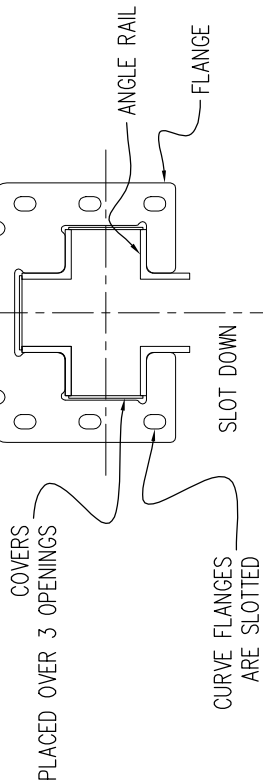
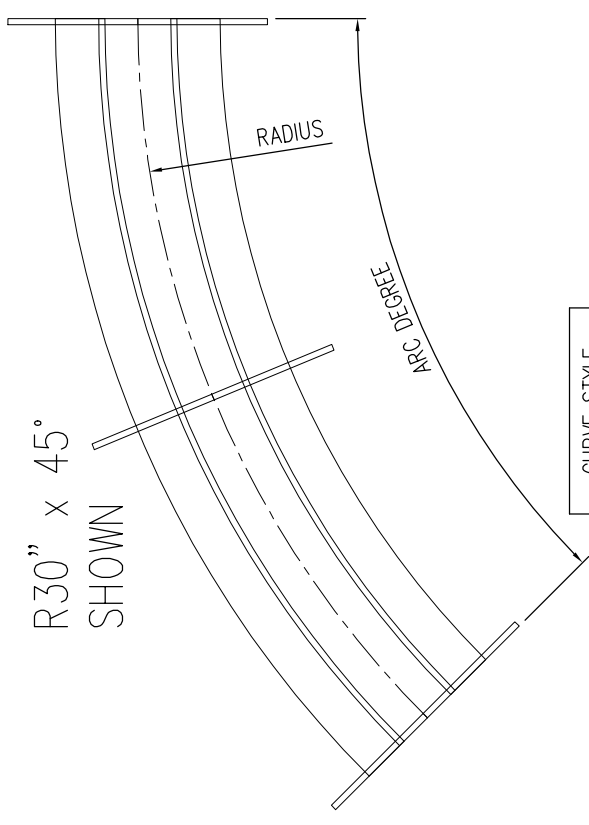
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PACMAX ENCLOSED TRACK - ENGINEERING MANUAL - GEN II	
DRAWN BY	PACMAX TRACK FLANGE
DATE	AUG-2020
APPROD BY	TF60-CHART
SCALE	NTS
DRAWING NUMBER	302
REV	A

REV	DATE	DESCRIPTION	REV'D BY
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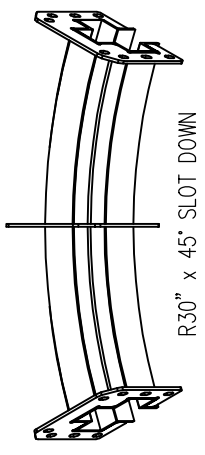


CURVE RAILS ARE MADE FROM ANGLES NITRIDED TO 'FILE-HARD' SURFACE  
COVERS ARE ADDED TO BOTH SIDES & TOP OPENINGS TO MAINTAIN 'ENCLOSED' DESIGNATION  
FLANGES HAVE SLOTTED MOUNTING HOLES FOR EASIER ALIGNMENT WITH OTHER TRACK COMPONENTS  
FOR HEAVY DUTY CONFIGURATION - EXTRA FLANGES ARE ADDED BETWEEN STANDARD FLANGE LOCATIONS  
CURVES ARE POWDER COAT PAINTED 'PACLINE RED'

CURVE STYLE			
ITEM	PART No	DESC.	RADIUS
1	HC60-2415	HORIZONTAL CURVE	24"
2	HC60-2430		
3	HC60-2445		
4	HC60-2460		
5	HC60-2490		
6	HC60-3015	HORIZONTAL CURVE	30"
7	HC60-3030		
8	HC60-3045		
9	HC60-3060		
10	HC60-3090		

CURVE STYLE			
ITEM	PART No	DESC.	RADIUS
11	HC60-3615	HORIZONTAL CURVE	36"
12	HC60-3630		
13	HC60-3645		
14	HC60-3660		
15	HC60-3690		
16	HC60-4815	HORIZONTAL CURVE	48"
17	HC60-4830		
18	HC60-4845		

HORIZONTAL CURVES CAN BE  
USED FOR BOTH SLOT UP OR  
SLOT DOWN POSITIONS AS WELL  
AS ACT AS VERTICAL CURVES  
IN THE SLOT SIDEWAYS POSITION



EACH CURVE  
COMES WITH (6) SETS OF  
HARDWARE FOR THE  
MOUNTING TO OTHER  
COMPONENTS

	FLAT WASHER - 3/8"	
	LOCK WASHER - 3/8"	
	NUT - 3/8-16NC	
	BOLT - HHCS 3/8-16NC x 1-1/4" LG	
ITEM	PART NO.	DESCRIPTION
		DWG. REF. NO.

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BUFFALO

HC60-CHAR

303

PAACMAX ENCLOSED TRACK - ENGINEERING MANUAL - GEN II

PAACMAX HORIZONTAL CURVE

DATE: AUG-2020

SCALE: NTS

REV'D BY

APPRO'D BY

DESCRIPTION

REVISION

GEN II RELEASE

AUG-2020

DATE

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1

2

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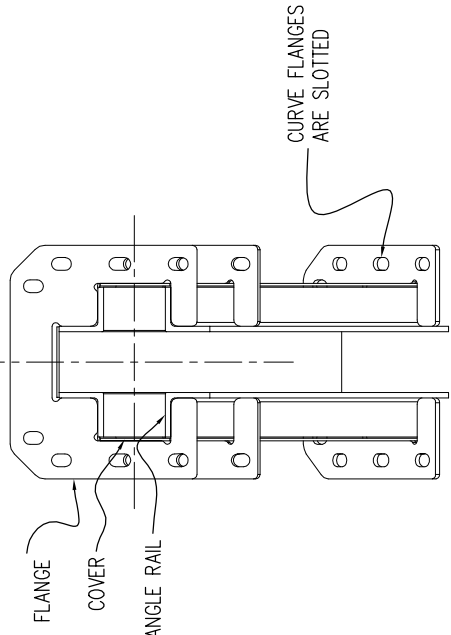
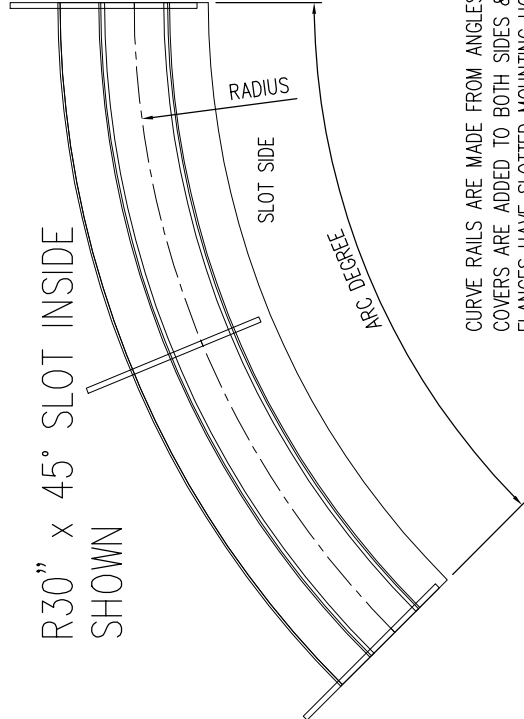
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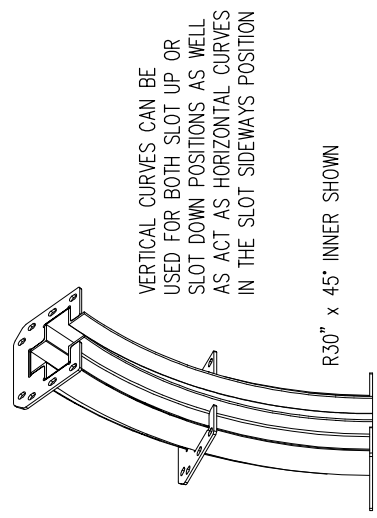


CURVE RAILS ARE MADE FROM ANGLES NITRIDED TO 'FILE-HARD' SURFACE  
COVERS ARE ADDED TO BOTH SIDES & TOP OPENINGS TO MAINTAIN 'ENCLOSED' DESIGNATION  
FLANGES HAVE SLOTTED MOUNTING HOLES FOR EASIER ALIGNMENT WITH OTHER TRACK COMPONENTS  
FOR HEAVY DUTY CONFIGURATION - EXTRA FLANGES ARE ADDED BETWEEN STANDARD FLANGE LOCATIONS  
CURVES ARE POWDER COAT PAINTED 'PACLINE RED'

CURVE STYLE			
ITEM	PART No	DESC.	RADIUS
1	VC60-2415i	VERTICAL CURVE INNER	24"
2	VC60-2430i		
3	VC60-2445i		
4	VC60-2460i		30"
5	VC60-2490i		
6	VC60-3015i	VERTICAL CURVE INNER	30"
7	VC60-3030i		
8	VC60-3045i		
9	VC60-3060i		48"
10	VC60-3090i		

CURVE STYLE			
ITEM	PART No	DESC.	RADIUS
11	VC60-3615i	VERTICAL CURVE INNER	36"
12	VC60-3630i		
13	VC60-3645i		
14	VC60-3660i		48"
15	VC60-3690i		
16	VC60-4815i	VERTICAL CURVE INNER	48"
17	VC60-4830i		
18	VC60-4845i		

INNER  
VERTICAL CURVE  
ALSO KNOWN AS:  
'VERTICAL DOWN'  
OR  
'SLOT INSIDE'  
(REFERENCING SLOT  
POSITION TO RADIUS)



EACH CURVE  
COMES WITH (6) SETS OF  
HARDWARE FOR THE  
MOUNTING TO OTHER  
COMPONENTS

ITEM	PART NO.	DESCRIPTION	DWG. REF. NO.
		FLAT WASHER - 3/8"	
		LOCK WASHER - 3/8"	
		NUT - 3/8-16NC	
		BOLT - HHCS 3/8-16NC x 1-1/4" LG	

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PACMAX VERTICAL DOWN CURVES

VC60-CHAR

304

DRAWN BY

DATE

APPRO'D BY

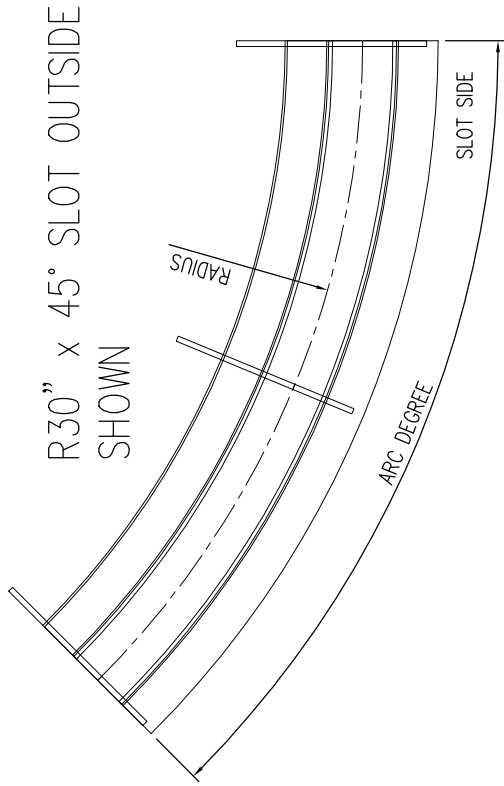
SCALE

REV

DRAWING NUMBER

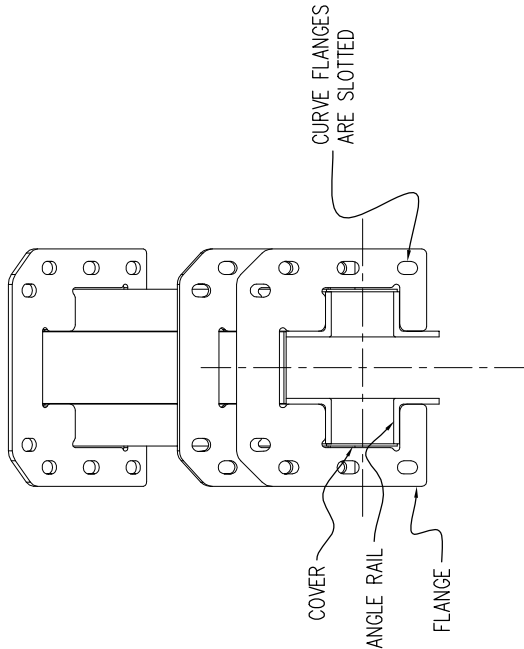
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REV	DATE			
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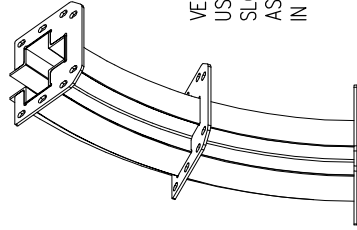


R30" x 45° SLOT OUTSIDE SHOWN

CURVE RAILS ARE MADE FROM ANGLES NITRIDED TO 'FILE-HARD' SURFACE  
COVERS ARE ADDED TO BOTH SIDES & TOP OPENINGS TO MAINTAIN 'ENCLOSED' DESIGNATION  
FLANGES HAVE SLOTTED MOUNTING HOLES FOR EASIER ALIGNMENT WITH OTHER TRACK COMPONENTS  
FOR HEAVY DUTY CONFIGURATION - EXTRA FLANGES ARE ADDED BETWEEN STANDARD FLANGE LOCATIONS  
CURVES ARE POWDER COAT PAINTED 'PACLINE RED'



VERTICAL CURVES CAN BE  
USED FOR BOTH SLOT UP OR  
SLOT DOWN POSITIONS AS WELL  
AS ACT AS HORIZONTAL CURVES  
IN THE SLOT SIDEWAYS POSITION



R30" x 45° OUTER

CURVE STYLE			DEGREE OF ARC FLANGES	# OF ARC FLANGES
ITEM	PART No	DESC.		
1	VC60-2415o	OUTER VERTICAL CURVE	15°	2
2	VC60-2430o		30°	2
3	VC60-2445o		45°	3
4	VC60-2460o		60°	3
5	VC60-2490o		90°	4
6	VC60-3015o	OUTER VERTICAL CURVE	15°	2
7	VC60-3030o		30°	3
8	VC60-3045o		45°	3
9	VC60-3060o		60°	5
10	VC60-3090o		90°	5

CURVE STYLE			DEGREE OF ARC FLANGES	# OF ARC FLANGES
ITEM	PART No	DESC.		
11	VC60-3615o	OUTER VERTICAL CURVE	15°	2
12	VC60-3630o		30°	3
13	VC60-3645o		45°	3
14	VC60-3660o		60°	5
15	VC60-3690o		90°	5
16	VC60-4815o	48"	15°	2
17	VC60-4830o		30°	3
18	VC60-4845o		45°	4

EACH CURVE  
COMES WITH (6) SETS OF  
HARDWARE FOR THE  
MOUNTING TO OTHER  
COMPONENTS

ITEM	PART NO.	DESCRIPTION	DWG. REF. NO.
		FLAT WASHER - 3/8"	
		LOCK WASHER - 3/8"	
		NUT - 3/8-16NC	
		BOLT - HHCS 3/8-16NC x 1-1/4" LG	

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305

DRAWING NUMBER

305

DRAWING NUMBER

PACMAX ENCLOSED TRACK - ENGINEERING MANUAL - GEN II

PACMAX VERTICAL UP CURVE

REV

A

SCALE

NTS

DATE

AUG-2020

APPROD BY

REVD BY

DESCRIPTION

REV

A

DATE

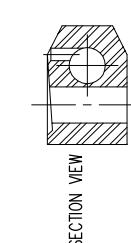
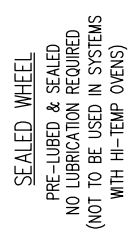
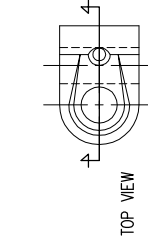
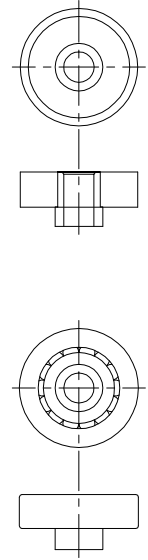
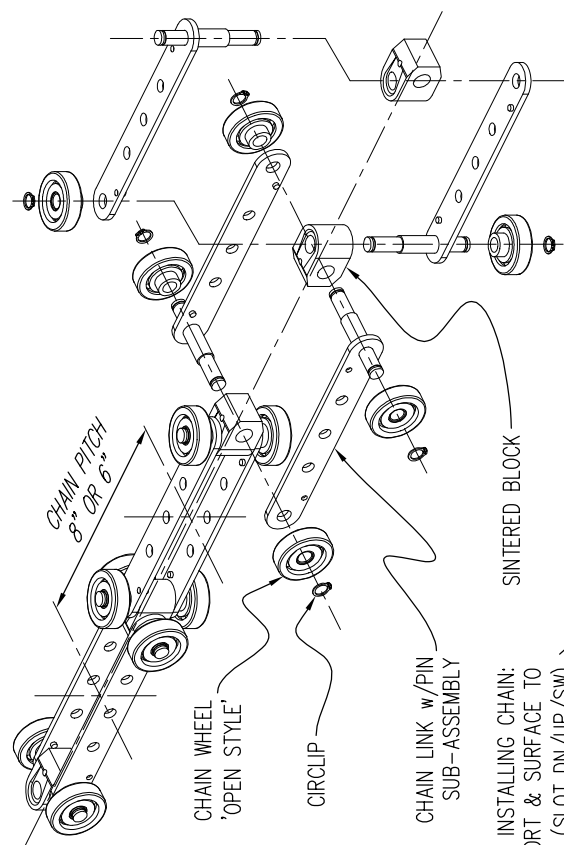
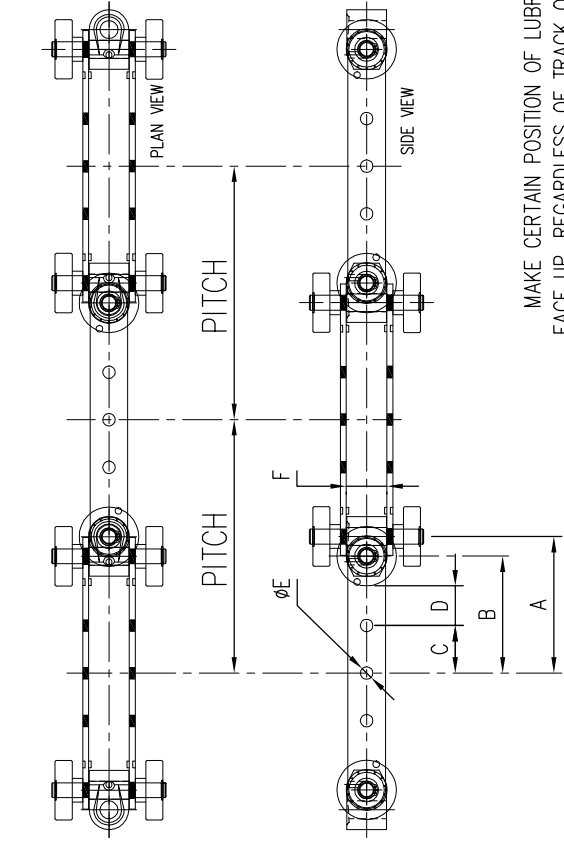
AUG-2020

APPROD BY

REVD BY

DESCRIPTION





**PLEASE NOTE:**  
**CHAIN HAS AN ORIENTATION**  
**(SEE INSTALLATION NOTE)**

## ALL CHAIN SEGMENTS COME WITH A CONNECTING LINK

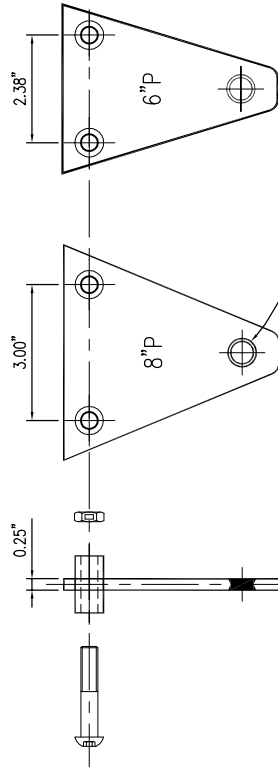
ITEM	PART No	DESCRIPTION	PITCH	WHEEL	CHAIN LINK FINISH	WHEELS PER FT	SEGMENT LENGTH	LENGTH W/CONN LINK	CONN LINK PART No	DIM A	DIM B	DIM C	DIM D	DIA E	DIM F
1	CH60-80	CONVEYOR CHAIN	8"	OPEN	BARE	6	120"	128"	CH60-80-CL	4.3"	3.7"	1.5"	1.2"	0.4"	1.3"
2	CH60-8S			SEALED					CH60-8S-CL						
3	CH60-60		OPEN	CH60-60-CL	3.3"	2.7"	1.2"	0.6"							
4	CH60-6S		SEALED	CH60-6S-CL											

NOTE: OPEN WHEELS CAN ALSO BE PLATED

	SEE CHART	CONNECTING LINK	
ITEM	PART NO.	DESCRIPTION	DWG. REF. NO.

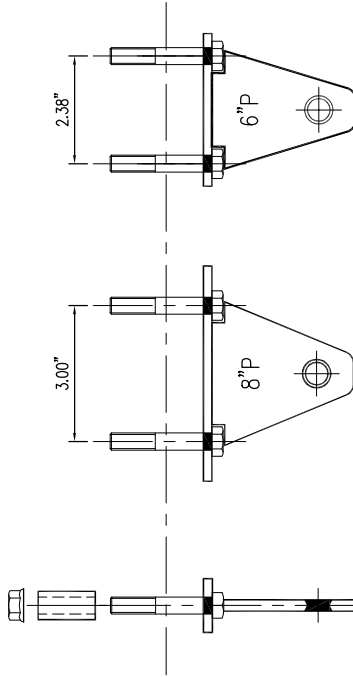
DATE	DATE	DATE	DATE	DATE	DATE
<div> <div> <div>TORONTO</div> <div> <b>PACLINE</b>  <b>OVERHEAD CONVEYORS</b>  <a href="http://www.pacline.com">www.pacline.com</a> </div> </div> <div>BUFFALO</div> </div>					
PACMAX ENCLOSED TRACK – ENGINEERING MANUAL – GEN II					
DRAWN BY	DRAWING NAME:	'OPEN WHEEL' CONVEYOR CHAIN			
DATE	AUG-2020				
APPR'D BY	PART NUMBER:	CH60-CHART		DRAWING NUMBER:	306
SCALE	NTS			REV	A

ALL PENDANTS ARE ZINC PLATED

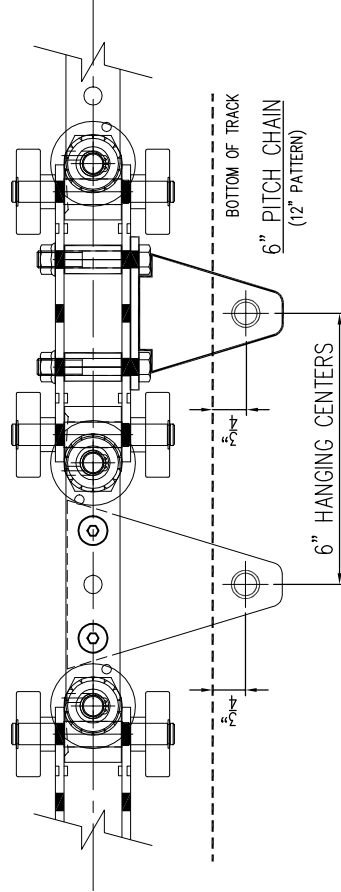
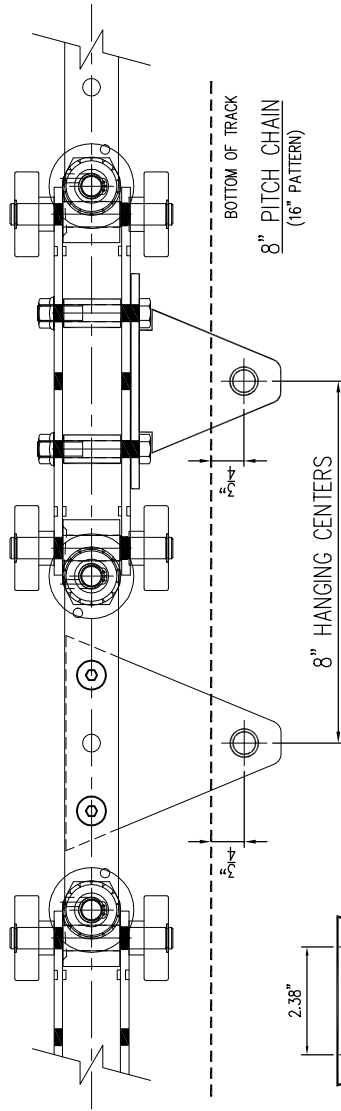


INNER PENDANTS  
(STANDARD OFFERING)

LOAD POINT HOLES ARE  
Ø½" AND CHAMFERED



OUTER PENDANTS  
(IF REQUIRED TO  
ACHIEVE PART SPACING)



ITEM	PART No	DESCRIPTION	CHAIN PITCH	STYLE
1	PT60-601	SINGLE HOLE PENDANT	6"	OUTER
2	PT60-611	SINGLE HOLE PENDANT	6"	INNER
3	PT60-801	SINGLE HOLE PENDANT	8"	OUTER
4	PT60-811	SINGLE HOLE PENDANT	8"	INNER

PENDANTS COME COMPLETE WITH  
MOUNTING HARDWARE SHOWN

OUTER  
OUTER  
INNER  
INNER

ITEM	PART NO.	DESCRIPTION	DWG. REF. NO.
		NUT - 3/8-16NC SERRATED FLANGE	
		SPACER TUBE	
		NUT - 3/8-16NC LOCKING JAM NUT	
		BOLT - 3/8-16NC BHCS x 2" LG	

**TORONTO**

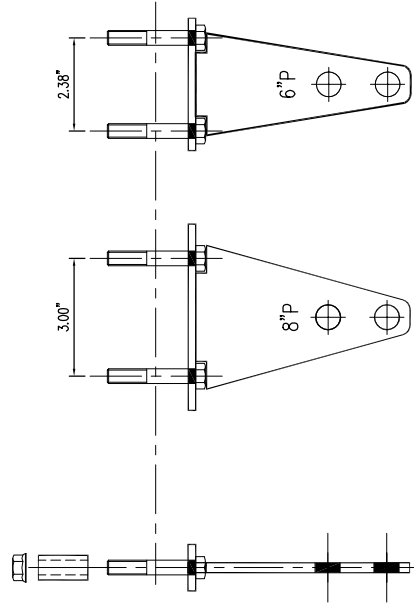
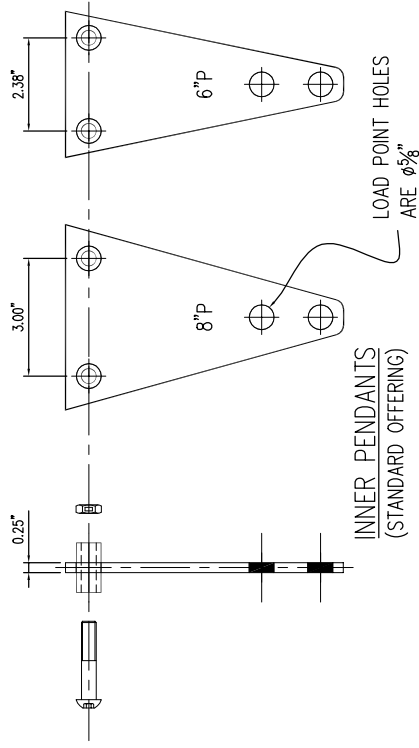
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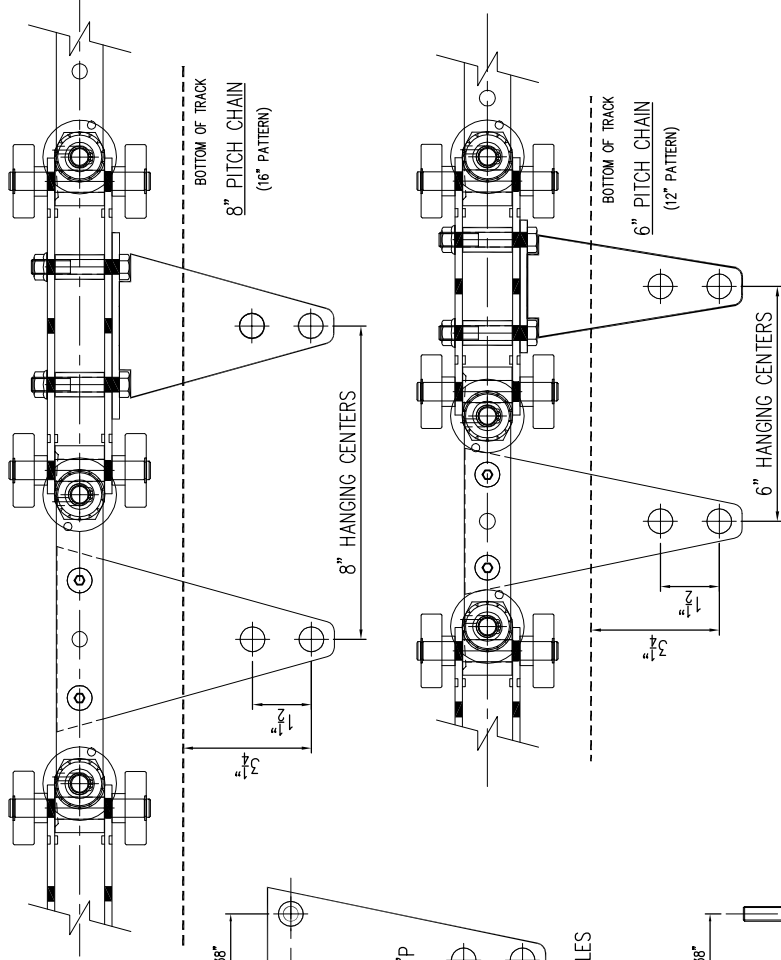
PACMAX ENCLOSED TRACK - ENGINEERING MANUAL - GEN II	
DRAWN BY	NAME
DATE	AUG-2020
APPROD BY	NAME
SCALE	NTS
PART NUMBER	PT60-CHAR
DRAWING NUMBER	307
REV	B

B	SEP-2022	CORRECTED MOUNTING HW FOR VERT LINK ASSEMBLY	
A	AUG-2020	GEN II RELEASE	
REV	DATE	DESCRIPTION	REV'D BY
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ALL PENDANTS ARE ZINC PLATED



OUTER PENDANTS  
(IF REQUIRED TO  
ACHIEVE PART SPACING)



ITEM	PART No	DESCRIPTION	CHAIN PITCH	STYLE
1	PT60-602	DOUBLE HOLE PENDANT	6"	OUTER
2	PT60-612	DOUBLE HOLE PENDANT	6"	INNER
3	PT60-802	DOUBLE HOLE PENDANT	8"	OUTER
4	PT60-812	DOUBLE HOLE PENDANT	8"	INNER

TYPICALLY USED ON  
SYSTEMS THAT REQUIRE  
NON-PIVOTING CARRIERS

PENDANTS COME COMPLETE WITH  
MOUNTING HARDWARE SHOWN

OUTER  
OUTER  
INNER  
INNER

ITEM	PART NO.	DESCRIPTION	DWG. REF. NO.
		NUT - 3/8-16NC SERRATED FLANGE	
		SPACER TUBE	
		NUT - 3/8-16NC LOCKING JAM NUT	
		BOLT - 3/8-16NC BHCS x 2" LG	

TORONTO

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ENGINEERING MANUAL - GEN II

REV B

PT60-CHAR

308

308

308

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SEP-2022

AUG-2020

GEN II RELEASE

DESCRIPTION

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ITEM

DESCRIPTION

CHAIN PITCH

STYLE

1

PT60-602

DOUBLE HOLE PENDANT

6"

OUTER

2

PT60-612

DOUBLE HOLE PENDANT

6"

INNER

3

PT60-802

DOUBLE HOLE PENDANT

8"

OUTER

4

PT60-812

DOUBLE HOLE PENDANT

8"

INNER

REV B

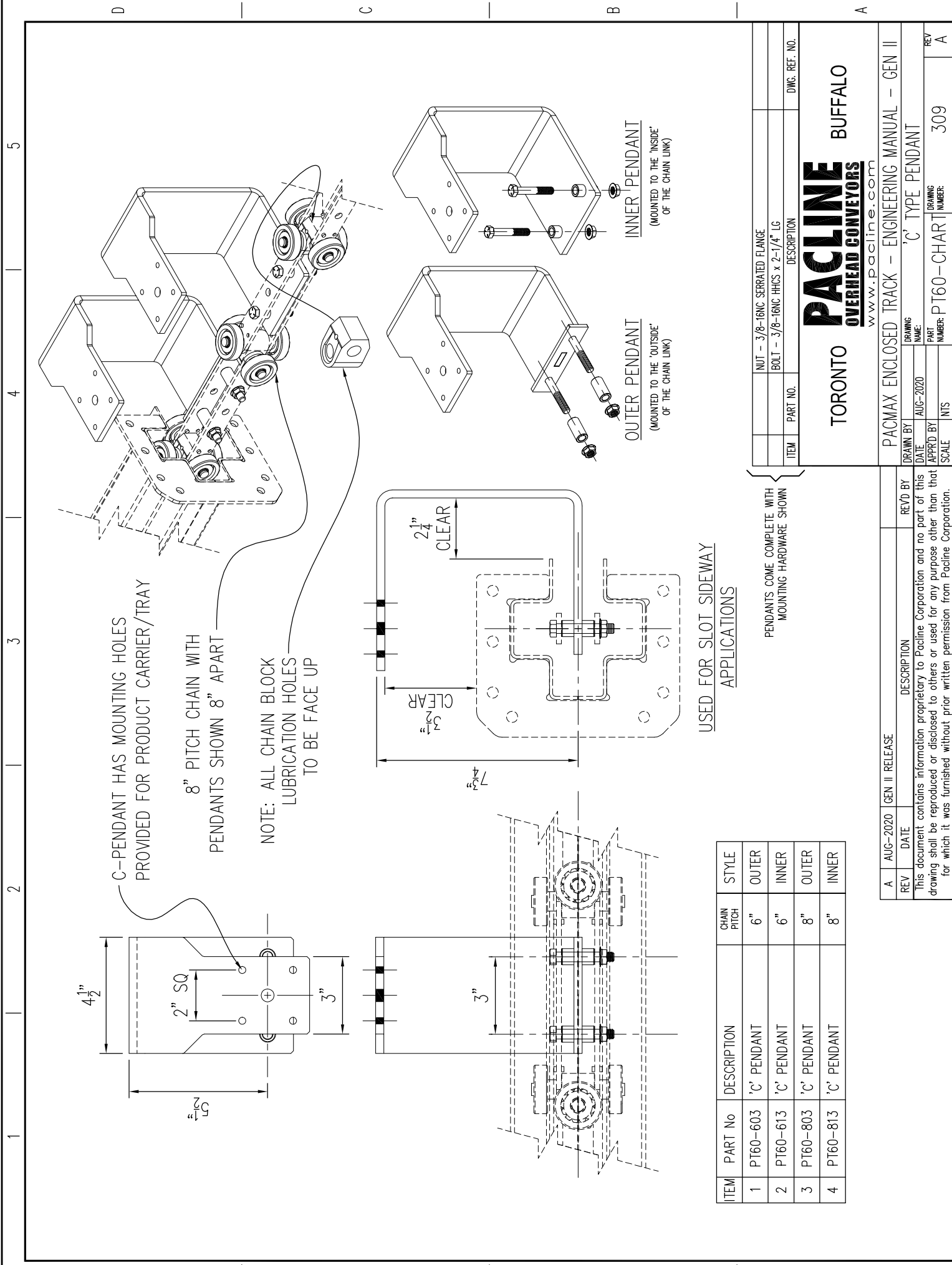
PT60-CHAR

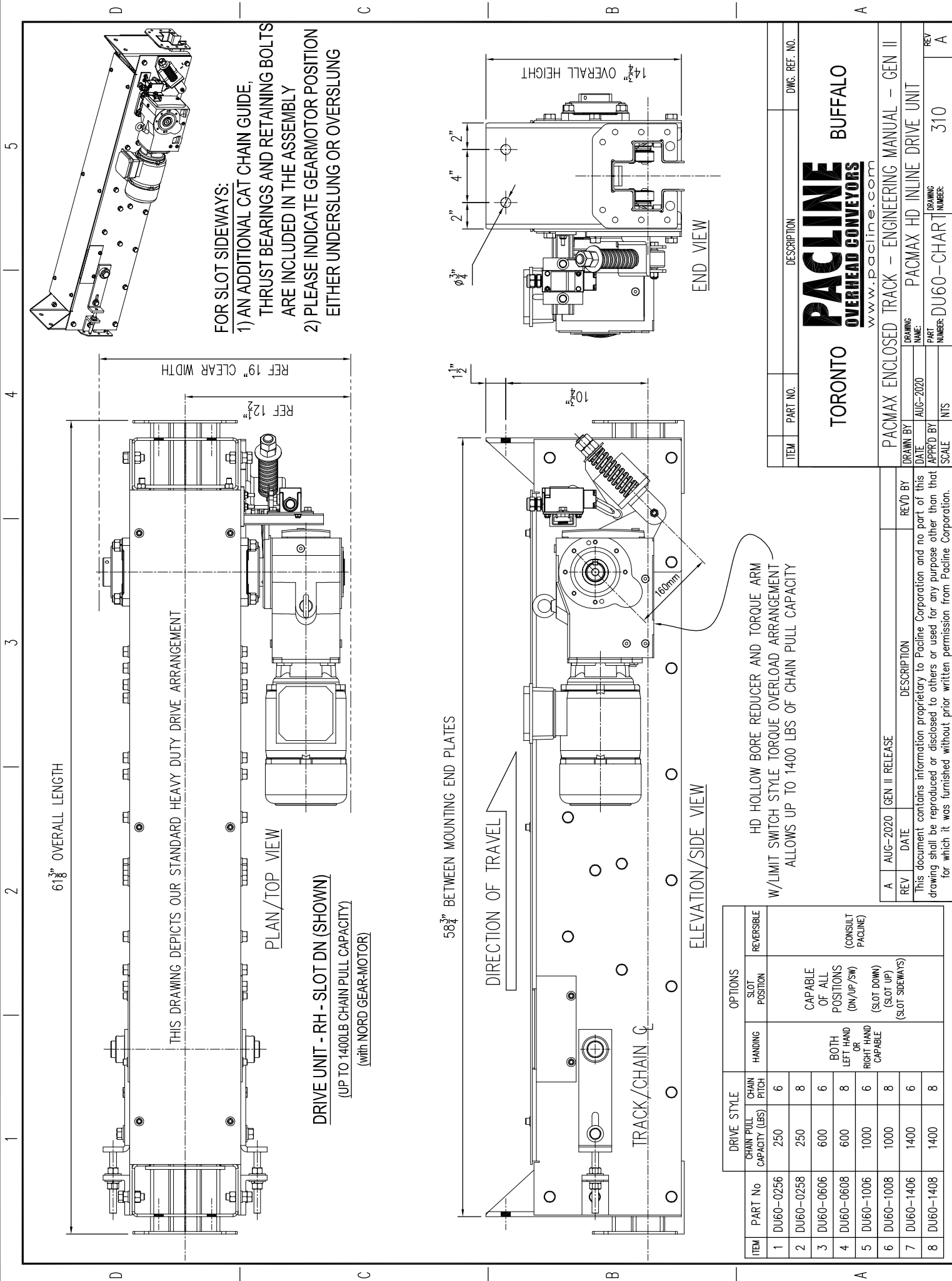
308

308

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308





FOR SLOT SIDWAYS:  
1) AN ADDITIONAL CAT CHAIN GUIDE, THRUST BEARINGS AND RETAINING BOLTS ARE INCLUDED IN THE ASSEMBLY  
2) PLEASE INDICATE GEARMOTOR POSITION EITHER UNDERSLUNG OR OVERSLUNG

PLAN/TOP VIEW

DRIVE UNIT - RH - SLOT DN (SHOWN)

(UP TO 1400LB CHAIN PULL CAPACITY)  
(WITH NORD GEAR-MOTOR)

58 3/4" BETWEEN MOUNTING END PLATES

DIRECTION OF TRAVEL

TRACK/CHAIN CL

ELEVATION/SIDE VIEW

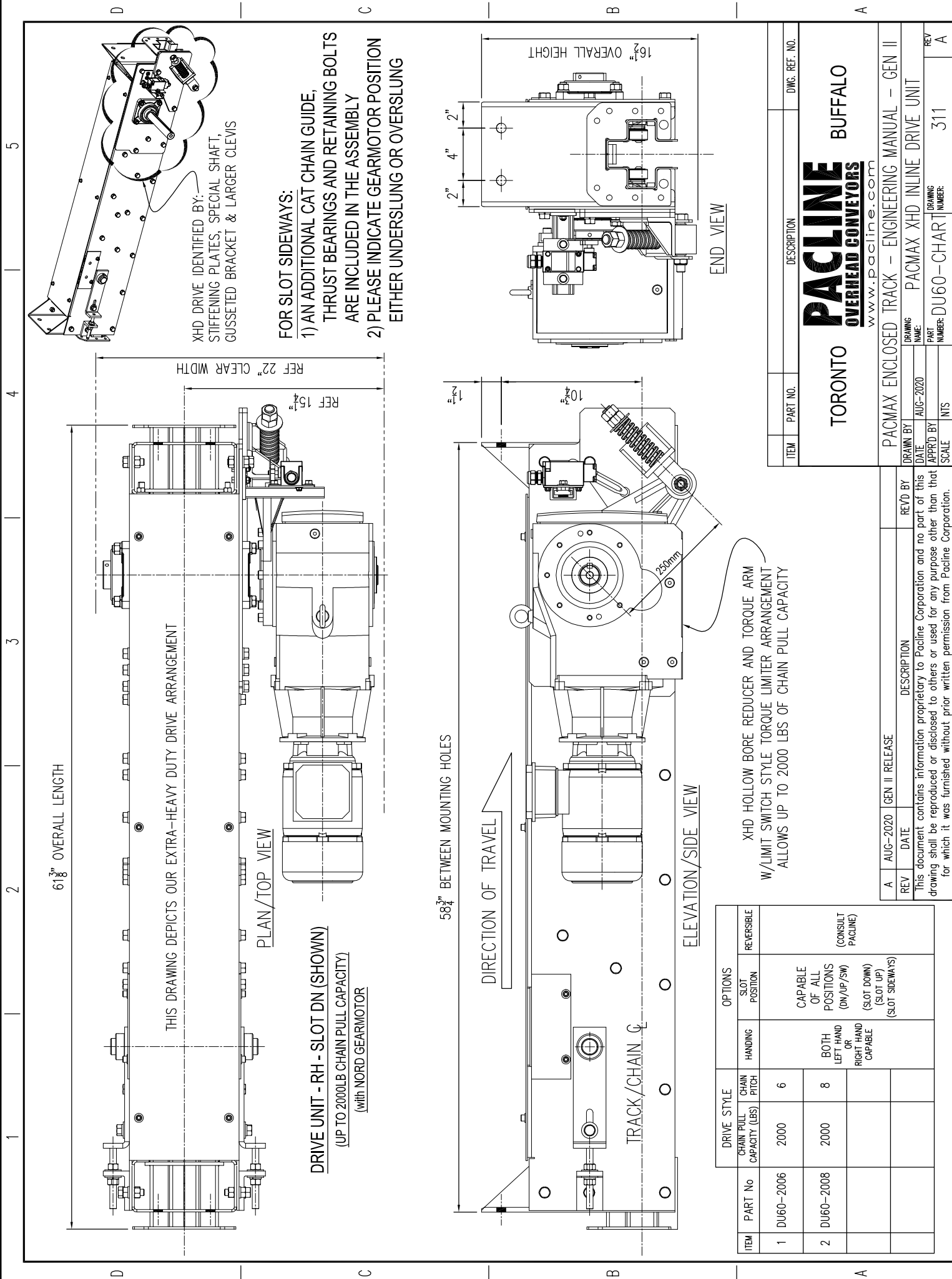
HD HOLLOW BORE REDUCER AND TORQUE ARM  
W/LIMIT SWITCH STYLE TORQUE OVERLOAD ARRANGEMENT  
ALLOWS UP TO 1400 LBS OF CHAIN PULL CAPACITY

ITEM	PART No	DRIVE STYLE		OPTIONS	
		CHAIN PULL CAPACITY (LBS)	CHAIN PITCH	HANDING	REVERSIBLE
1	DU60-0256	250	6	BOTH LEFT HAND OR RIGHT HAND CAPABLE	CAPABLE OF ALL POSITIONS (DN/UP/SW) (SLOT DOWN) (SLOT UP) (SLOT SIDWAYS) (CONSULT PACLINE)
2	DU60-0258	250	8		
3	DU60-0606	600	6		
4	DU60-0608	600	8		
5	DU60-1006	1000	6	BOTH LEFT HAND OR RIGHT HAND CAPABLE	CAPABLE OF ALL POSITIONS (DN/UP/SW) (SLOT DOWN) (SLOT UP) (SLOT SIDWAYS) (CONSULT PACLINE)
6	DU60-1008	1000	8		
7	DU60-1406	1400	6		
8	DU60-1408	1400	8		

TORONTO  
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ITEM	PART NO.	DESCRIPTION	DWG. REF. NO.
A	AUG-2020	GEN II RELEASE	
REV	DATE	DESCRIPTION	REV'D BY
1	AUG-2020	PACMAX HD INLINE DRIVE UNIT	
2	AUG-2020	PACMAX HD INLINE DRIVE UNIT	
3	AUG-2020	PACMAX HD INLINE DRIVE UNIT	
4	AUG-2020	PACMAX HD INLINE DRIVE UNIT	
5	AUG-2020	PACMAX HD INLINE DRIVE UNIT	
6	AUG-2020	PACMAX HD INLINE DRIVE UNIT	
7	AUG-2020	PACMAX HD INLINE DRIVE UNIT	
8	AUG-2020	PACMAX HD INLINE DRIVE UNIT	
9	AUG-2020	PACMAX HD INLINE DRIVE UNIT	
10	AUG-2020	PACMAX HD INLINE DRIVE UNIT	
11	AUG-2020	PACMAX HD INLINE DRIVE UNIT	
12	AUG-2020	PACMAX HD INLINE DRIVE UNIT	
13	AUG-2020	PACMAX HD INLINE DRIVE UNIT	
14	AUG-2020	PACMAX HD INLINE DRIVE UNIT	
15	AUG-2020	PACMAX HD INLINE DRIVE UNIT	
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100	AUG-2020	PACMAX HD INLINE DRIVE UNIT	

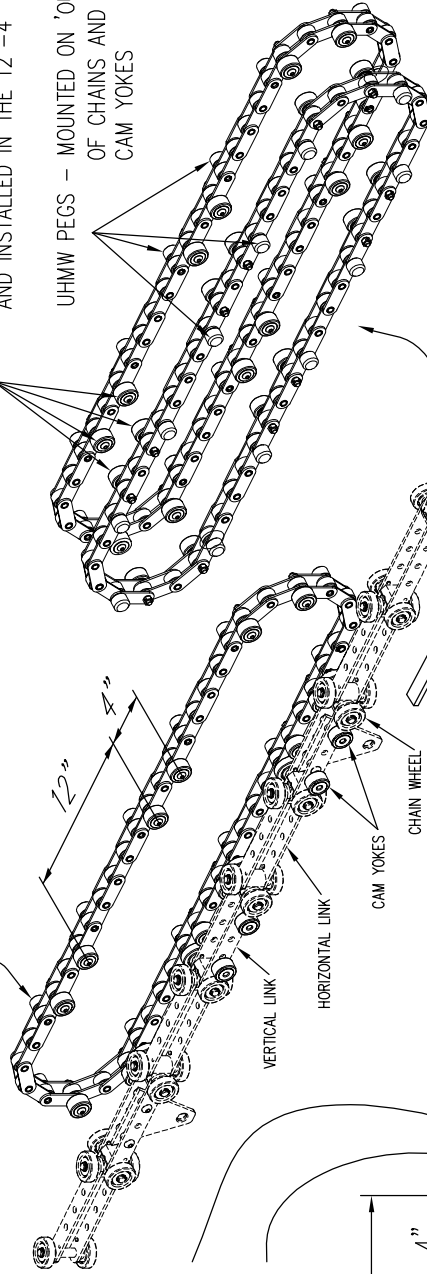


ITEM	PART No	DRIVE STYLE		OPTIONS	
		CHAIN PULL CAPACITY (LBS)	CHAIN PITCH	HANDING	REVERSIBLE
1	DU60-2006	2000	6	BOTH LEFT HAND OR RIGHT HAND CAPABLE	CAPABLE OF ALL POSITIONS (DN/UP/SW) (SLOT DOWN) (SLOT UP) (SLOT SIDEWAYS) (CONSULT PACLINE)
2	DU60-2008	2000	8		

W/LIMIT SWITCH STYLE TORQUE LIMITER ARRANGEMENT I ALLOWS UP TO 2000 LBS OF CHAIN PULL CAPACITY		ITEM		PART NO.		DESCRIPTION		DWG. REF. NO.	
						<b>PACLINE</b> <b>OVERHEAD CONVEYORS</b> <a href="http://www.pacline.com">www.pacline.com</a>		TORONTO  BUFFALO	
						PACMAX ENCLOSED TRACK – ENGINEERING MANUAL – GEN II			
A	AUG-2020	GEN II RELEASE				DRAWN BY		DRAWING NAME:	
REV	DATE	DESCRIPTION		REV'D BY		DATE		PACMAX XHD INLINE DRIVE UNIT	
		This document contains information proprietary to Pacline Corporation and no part of this drawing shall be reproduced or disclosed to others or used for any purpose other than that for which it was furnished without prior written permission from Pacline Corporation.		APPR'D BY		AUG-2020		PART NUMBER:	
				SCALE		NTS		DU60-CHART	
								311	
								REV A	

INSTALLATION INSTRUCTIONS  
INSTALLER TO ENGAGE CONVEYOR CHAIN  
INTO CAT CHAIN ON VERTICAL LINK

UHMW GUIDE PEG  
(WEAR GUIDE)



UHMW GUIDE PEGS TO BE MOUNTED ON  
THE OUTWARD SIDE OF CHAINS  
CAM YOKES ARE MOUNTED TO  
THE INWARD SIDE OF CHAINS

16" c/c

12"

4"

4"

CHAIN 96" LG (12) CAM YOKES

CAT CHAIN

CONVEYOR CHAIN



CAM YOKES TO BE PLACED  
BETWEEN CHAIN WHEELS  
AT VERTICAL LINK

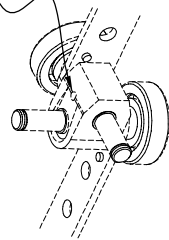
0.12" LASH

16" ASP

8" PITCH

8" PITCH

NOTE:  
CONVEYOR CHAIN BLOCK  
LUBRICATION HOLES TO BE FACE UP



## 8" PITCH

**NOTE:**  
**ONLY FOR SYSTEMS WITH PENDANT  
HARDWARE SHIPPED AFTER NOV-2022**

B	NOV-2022	CHANGED INSTALL POSITION FROM HORIZ TO VERTICAL LINK	A.B.
A	AUG-2020	GEN II RELEASE	A.B.
REV	DATE	DESCRIPTION	REV'D BY
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**PACLINE**  
OVERHEAD CONVEYORS

BUFFALO

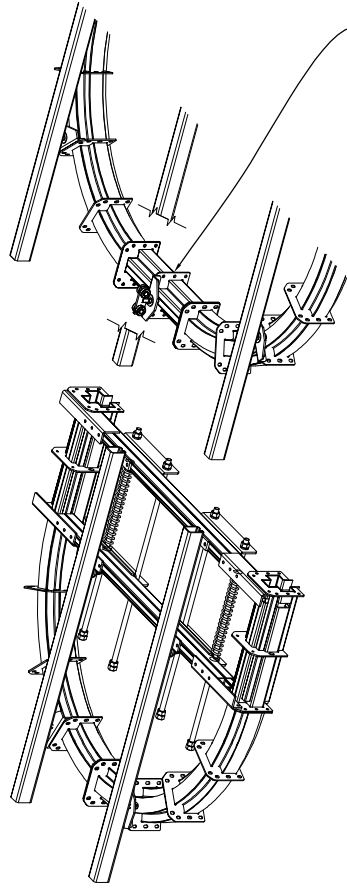
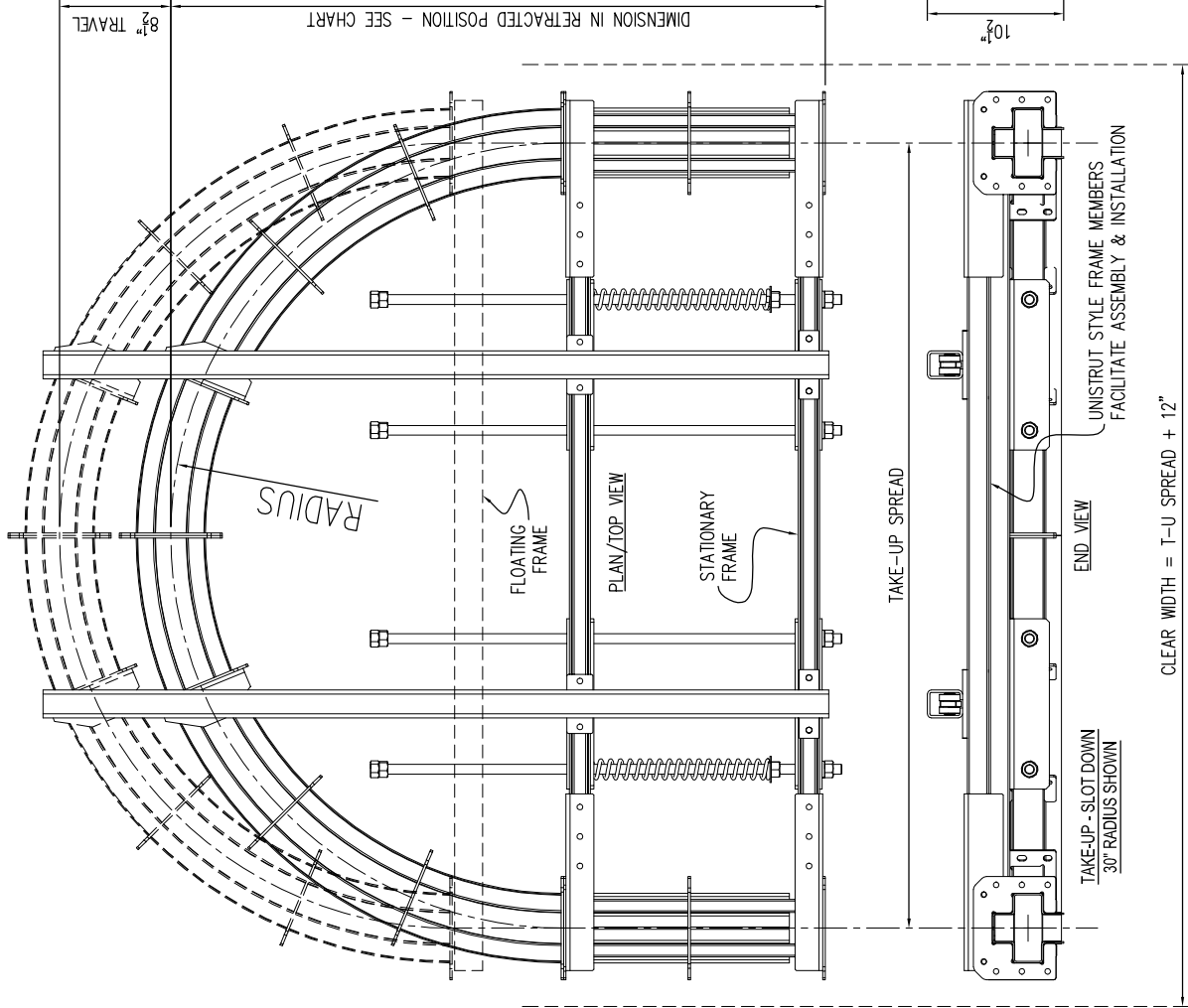
TORONTO

www.pacline.com

ITEM	PART NO.	DESCRIPTION	DWG. REF. NO.
PACMAX ENCLOSED TRACK - ENGINEERING MANUAL - GEN II			
DRAWING NAME	8" PITCH CAT CHAIN & INSTALLATION	DRAWING NUMBER	312
DATE	AUG-2020	PART NUMBER	CC60-8
APPRO'D BY	SCALE	NTS	REV B





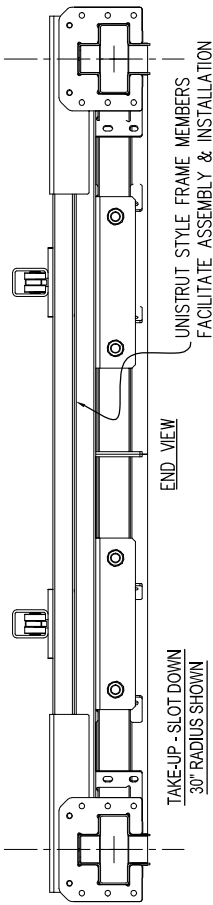


ADDING STRAIGHT TRACK BETWEEN THE CURVES INCREASES SPREAD WIDTH  
NOTE THAT ADDITIONAL RUNNERS MAY BE REQUIRED TO SUPPORT THE LOAD

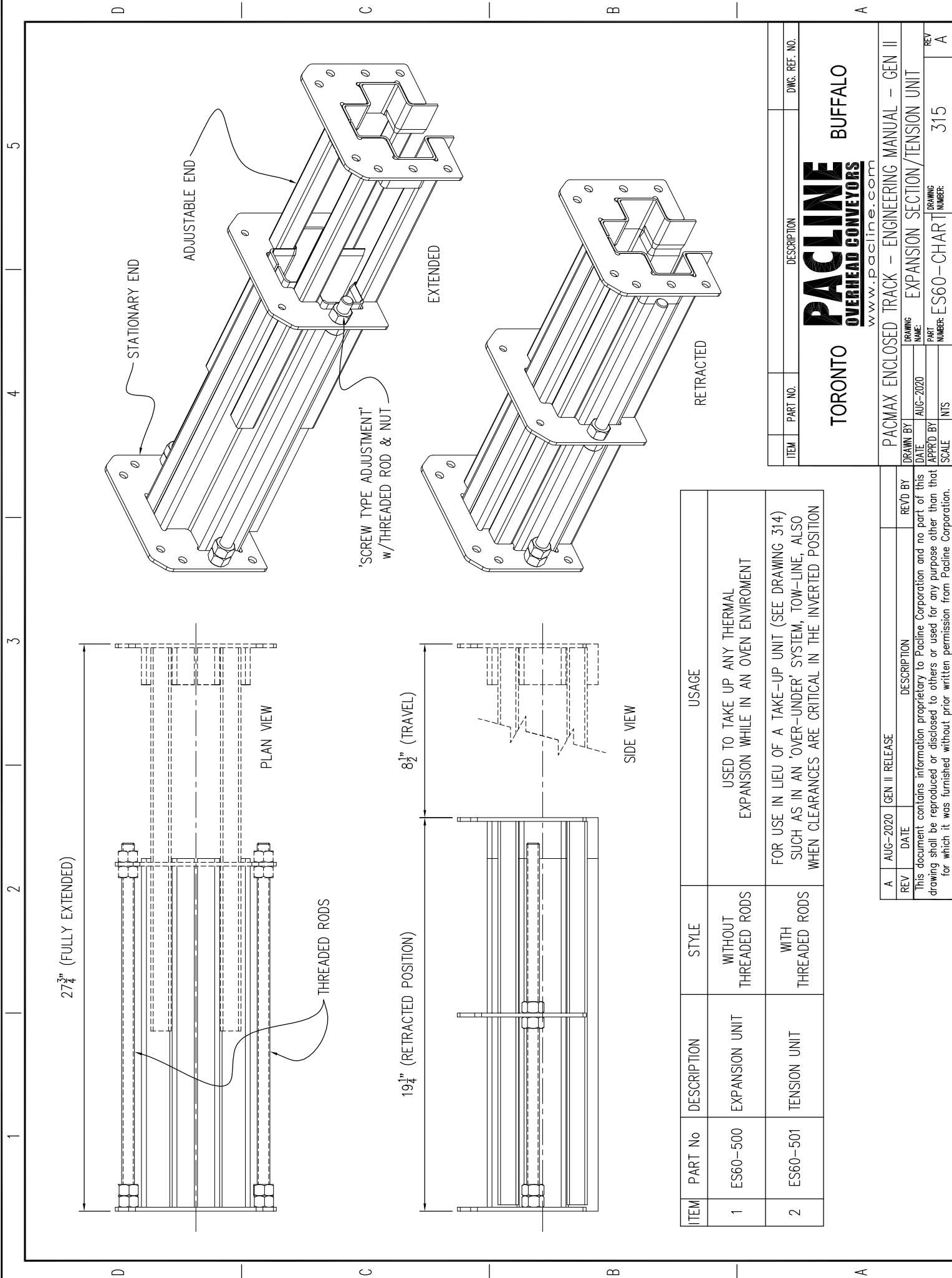
			TAKE-UP STYLES					OPTIONS	
ITEM	PART No	DESCRIPTION	RADIUS	RETRACTED LENGTH	MINIMUM SPREAD	ADJ. TYPE	# OF RUNNERS	SLOT POSITION	HEAVY DUTY
1	TU60-24SC	180° <u>TAKE-UP</u>	24"	44"	48"	SCREW	2	SLOT DOWN SLOT UP	UNISTRUT FRAME MEMBERS ARE REPLACED WITH GUSSETED FORMED ANGLES
2	TU60-24SP		30"	50"	60"	SPRING	2		
3	TU60-30SC		36"	56"	72"	SCREW	2	(ALL CAPABLE OF ANY RADIUS OR ADJUSTMENT TYPE)	
4	TU60-30SP					SPRING	2		
5	TU60-36SC	(ALL CAPABLE OF ANY RADIUS OR ADJUSTMENT TYPE)	36"	56"	72"	SCREW	2	CURVES HAVE ADDITIONAL FLANGES	
6	TU60-36SP		48"	68"	96"	SPRING	3		EXTRA RUNNER(S)
7	TU60-48SC		48"	68"	96"	SCREW	3	EXTRA RUNNER(S)	
8	TU60-48SP					SPRING	3		

60"

RECTANGULAR RUNNERS SUPPORT THE FLOATING FRAME BELOW  
AND CAN BE EASILY SUPPORTED ABOVE WITH CLAMPS AND/OR HEADERS

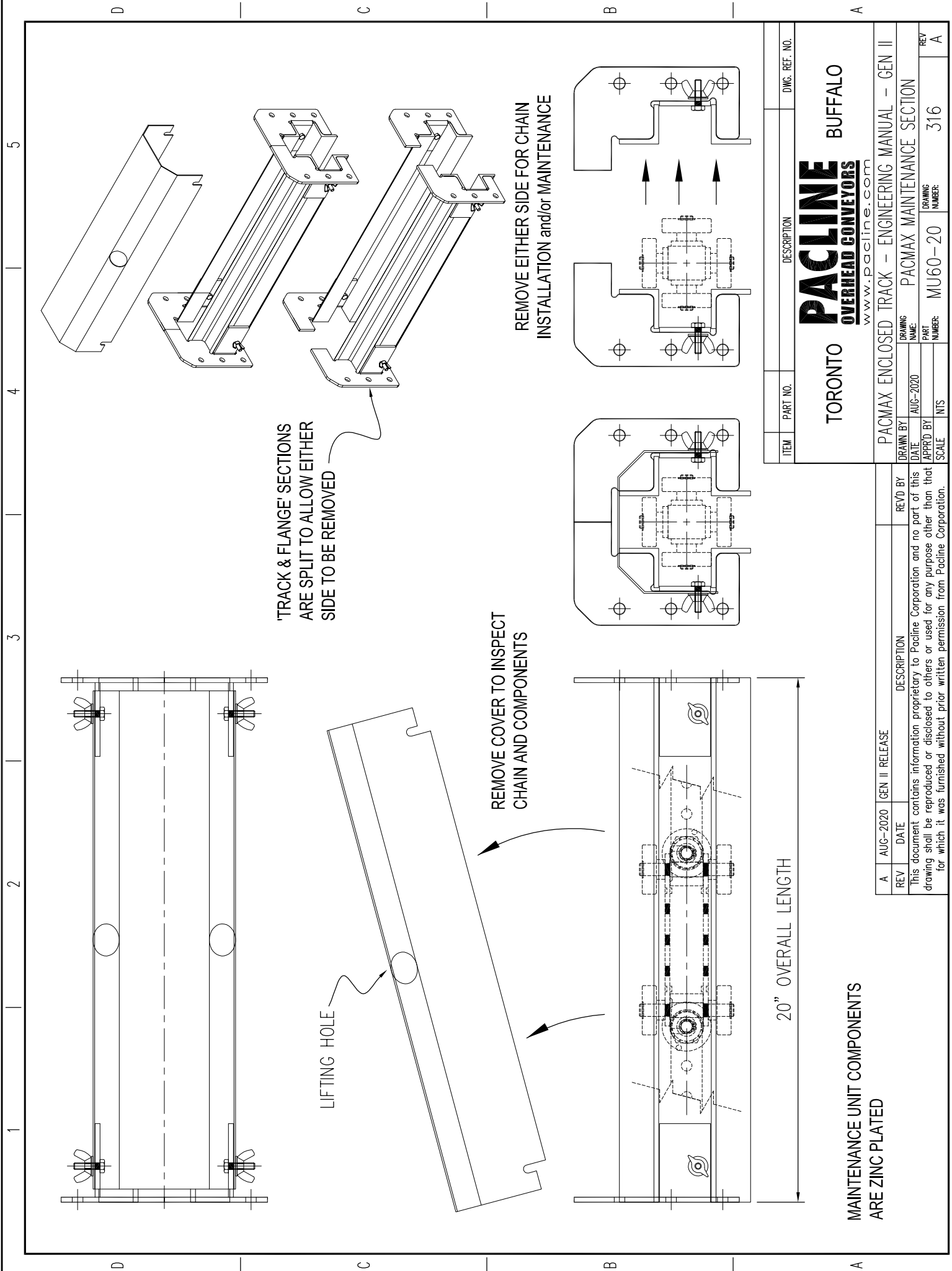


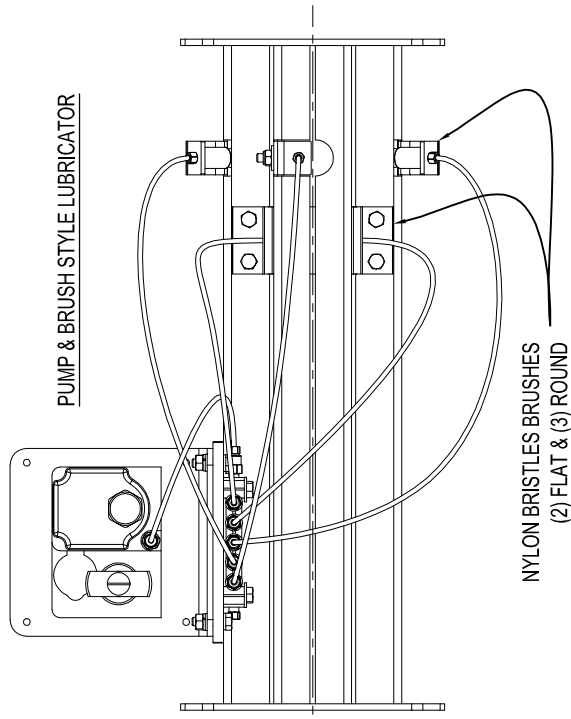
ITEM	PART NO.	DESCRIPTION	DWG. REF. NO.
TORONTO			
PACLINE OVERHEAD CONVEYORS			
www.pacline.com			
TORONTO			
BUFFALO			
PACMAX ENCLOSED TRACK - ENGINEERING MANUAL - GEN II			
PACMAX TAKE-UP ASSEMBLY			
REV	DATE	DRAWING NAME	REV
A	AUG-2020	TU60-CHAR	314
SCALE		NTS	DRAWING NUMBER



ITEM	PART NO.	DESCRIPTION	DWG. REF. NO.

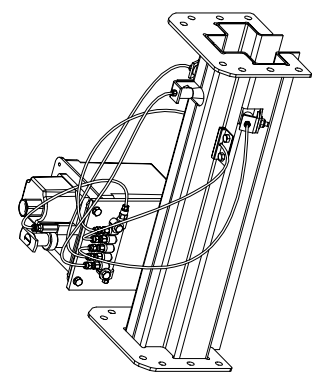
TORONTO		BUFFALO	
PACLINE OVERHEAD CONVEYORS			
www.pacline.com			
PACMAX ENCLOSED TRACK - ENGINEERING MANUAL - GEN II			
DRAWN BY	DATE	EXPANSION SECTION/TENSION UNIT	REV
AUG-2020	AUG-2020		A
APPRO'D BY	SCALE	ES60-CHAR	DRAWING NUMBER
NTS		315	



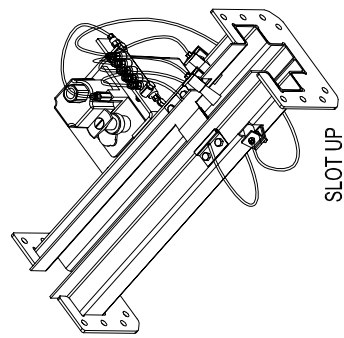


PUMP & BRUSH STYLE LUBRICATOR

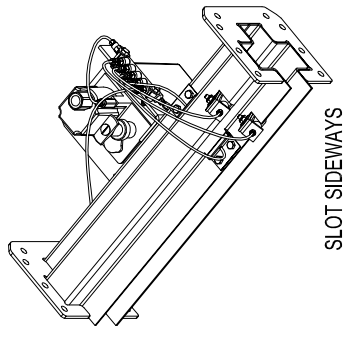
NYLON BRISTLES BRUSHES  
(2) FLAT & (3) ROUND



SLOT DOWN



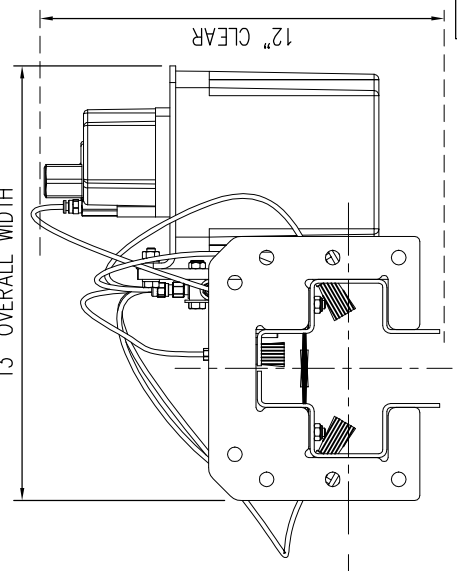
SLOT UP



SLOT SIDEWAYS

PART No	DESCRIPTION	PUMP VOLTAGE	RECOMMENDED LUBRICANT	SLOT POSITION
LB60-SD-AB	5-BRUSH PUMP STYLE	120 VAC 240 VAC	PL-30 PL-217	SLOT DN
LB60-SD-C	5-BRUSH PUMP STYLE	24 VDC	PL-30 PL-217	SLOT DN
LB60-SU-AB	5-BRUSH PUMP STYLE	120 VAC 240 VAC	PL-30 PL-217	SLOT UP
LB60-SU-C	5-BRUSH PUMP STYLE	24 VDC	PL-30 PL-217	SLOT UP
LB60-SS-AB	5-BRUSH PUMP STYLE	120 VAC 240 VAC	PL-30 PL-217	SLOT SW
LB60-SS-C	5-BRUSH PUMP STYLE	24 VDC	PL-30 PL-217	SLOT SW

13" OVERALL WIDTH



5-BRUSH - PUMP TYPE LUBRICATOR  
FOR USE ON SYSTEMS THAT HAVE  
OPEN WHEEL CONVEYOR CHAIN.  
LUBRICANT IS APPLIED TO WHEELS,  
CHAIN BLOCKS & PINS

OPERATION  
LUBRICANT IS PUMPED TO THE  
NYLON BRISTLE BRUSHES

OTHER LUBRICATOR STYLES  
DRIP TYPE - SEE DRAWING 318

SHOT TYPE AVAILABLE - (c/w PROGRAMMABLE CONTROL PANEL,  
RESERVOIR, PUMP, MANIFOLDS, METERING VALVES & NOZZLES)  
CAN STAND ALONE OR INTERCONNECT WITH OTHER PANELS  
CONTACT PACLINE FOR MORE INFORMATION

ITEM	PART NO.	DESCRIPTION	DWG. REF. NO.
TORONTO			
PACLINE OVERHEAD CONVEYORS			
www.pacline.com			
TORONTO			
BUFFALO			
PACMAX ENCLOSED TRACK - ENGINEERING MANUAL - GEN II			
REV	DRAWING NAME	DRAWING NUMBER	REV
A	PACMAX PUMP STYLE LUBRICATOR	317	A

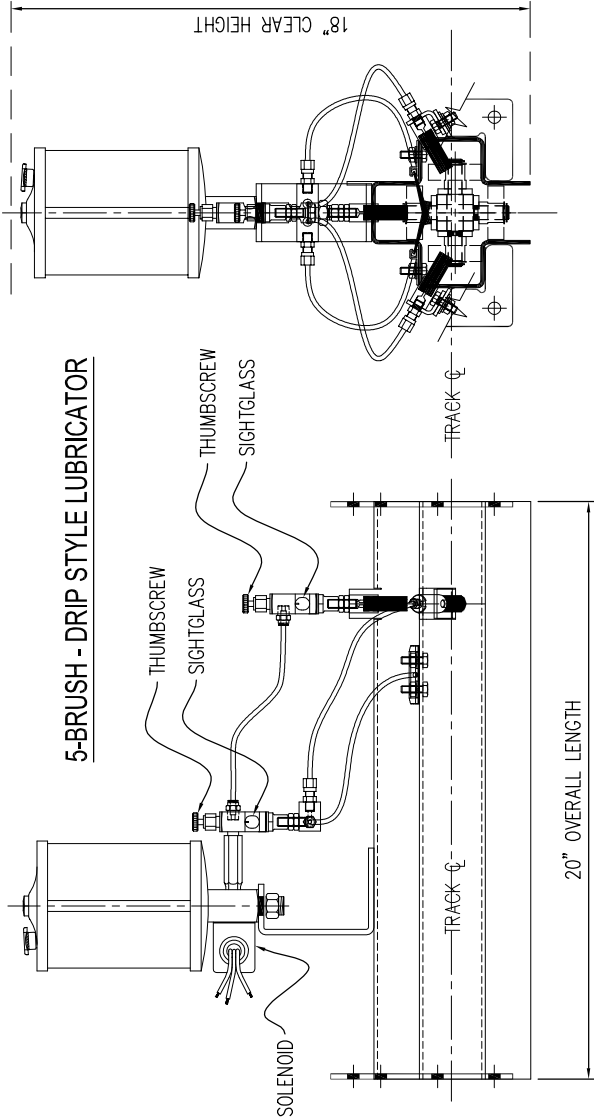
A	AUG-2020	GEN II RELEASE	DESCRIPTION	REV'D BY
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SLOT DOWN - SHOWN

20" OVERALL LENGTH

TRACK-Q

5-BRUSH - DRIP STYLE LUBRICATOR



PART No	DESCRIPTION	SLOT POSITION	RECOMMENDED LUBRICANT	SOLENOID VOLTAGE
LB60-5BSD-A	5-BRUSH DRIP TYPE	SLOT DOWN ONLY AVAILABLE AT TIME OF PRINTING	PL-30 OR PL-217	120 VAC 50Hz
LB60-5BSD-B				240 VAC 50Hz
LB60-5BSD-C				24 VDC
LB60-2BSD-A	2-BRUSH DRIP TYPE	SLOT DOWN ONLY AVAILABLE AT TIME OF PRINTING	PL-30 ONLY	120 VAC 50Hz
LB60-2BSD-B				240 VAC 50Hz
LB60-2BSD-C				24 VDC

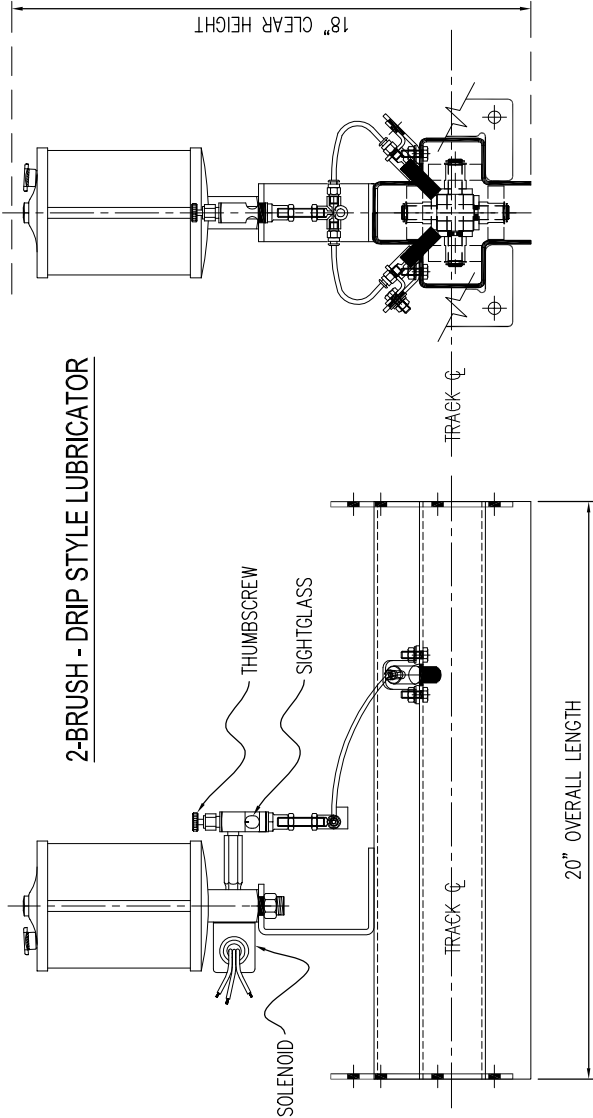
5-BRUSH DRIP TYPE LUBRICATOR  
FOR USE ON SYSTEMS THAT HAVE OPEN WHEEL CONVEYOR CHAIN LUBRICANT IS APPLIED TO WHEELS, CHAIN BLOCKS & PINS

2-BRUSH DRIP TYPE LUBRICATOR  
FOR USE ON SYSTEMS THAT HAVE SEALED WHEEL CONVEYOR CHAIN LUBRICANT IS APPLIED TO CHAIN BLOCKS & PINS ONLY

OPERATION

WHEN THE SOLENOID IS ACTIVATED, GRAVITY CAUSES LUBRICANT TO FLOW. THE FLOW IS METERED USING A THUMBSCREW & SIGHTGLASS ARRANGEMENT AND LUBRICANT IS APPLIED VIA NYLON BRISTLE BRUSHES

2-BRUSH - DRIP STYLE LUBRICATOR



OTHER LUBRICATOR OPTIONS  
PUMP & BRUSH TYPE - SEE DRAWING 317  
SHOT TYPE AVAILABLE - (c/w PROGRAMMABLE CONTROL PANEL, RESERVOIR, PUMP, MANIFOLDS, METERING VALVES & NOZZLES) CAN STAND ALONE OR INTERCONNECT WITH OTHER PANELS  
CONTACT PACLINE FOR MORE INFORMATION

ITEM		PART NO.		DESCRIPTION		DWG. REF. NO.	
TORONTO				<b>PACLINE</b> <b>OVERHEAD CONVEYORS</b>		BUFFALO	
				www.pacline.com			
PACMAX ENCLOSED TRACK – ENGINEERING MANUAL – GEN II							
DRAWN BY		DATE		DRAWING NAME		REV	
		AUG-2020		PACMAX DRIP STYLE LUBRICATOR		A	
APPROD BY				PART NUMBER		DRAWING NUMBER	
SCALE		NTS		LB60-CHAR		318	

BUFFALO

A	AUG-2020	GEN II RELEASE	DESCRIPTION	REV'D BY
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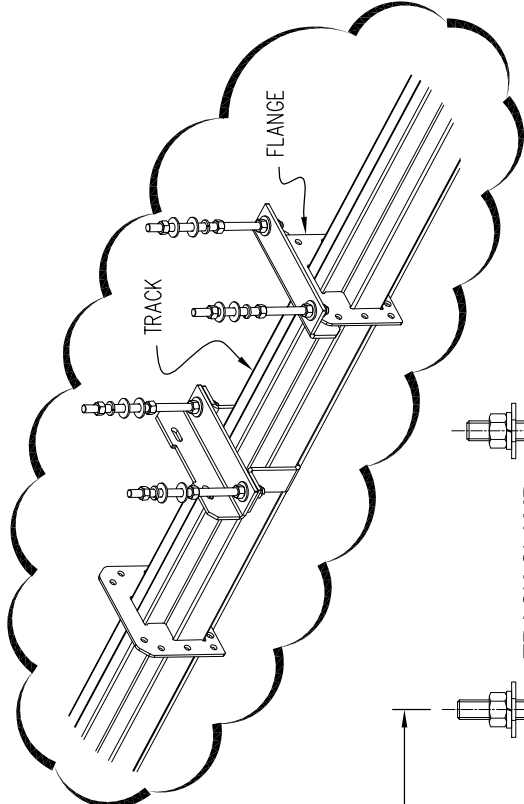
PROPER SUPPORT OF THE CONVEYOR IS CRITICAL TO THE FUNCTION & DURABILITY OF THE CONVEYOR AS WELL AS THE SAFETY OF ANY OPERATORS OR THOSE IN THE VICINITY.

REFER TO THE PACLINE ENGINEERING MANUAL TO DETERMINE THE APPROPRIATE NUMBER OF CLAMPS AND/OR SUPPORTS REQUIRED FOR YOUR LAYOUT. PLEASE NOTE THAT ADDITIONAL CLAMPS MAY BE REQUIRED FOR BRACING.

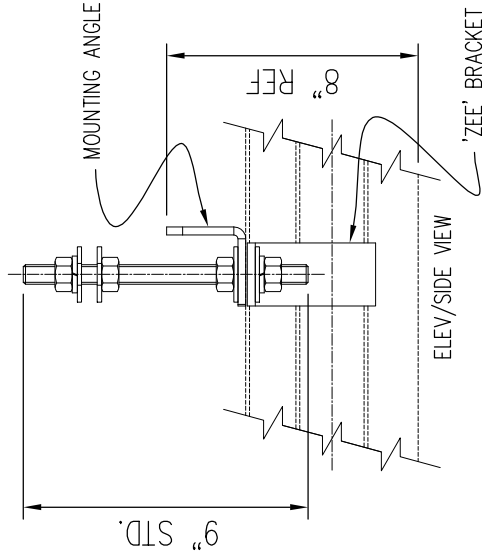
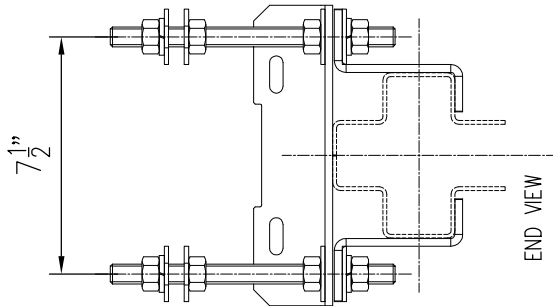
THE TRACK CLAMP ASSEMBLY SUPPORTS THE CONVEYOR AS WELL AS THE PRODUCT BEING CONVEYED.

THE CLAMPS CAN BE CONFIGURED TO ATTACH TO EITHER THE TRACK OR FLANGE.

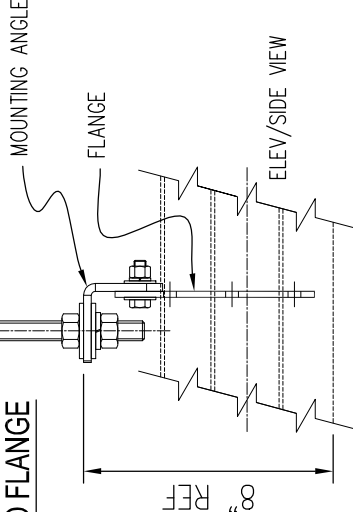
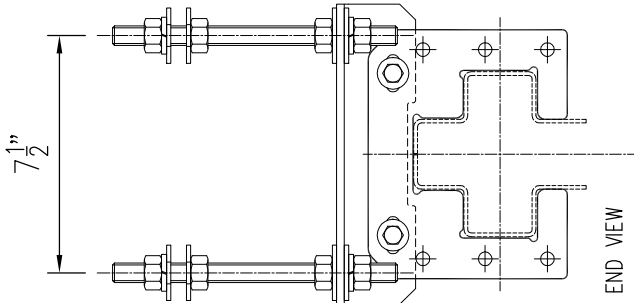
THE ASSEMBLY IS COMPRISED OF:  
A MOUNTING ANGLE, (2) 'ZEE' BRACKETS AND  $\frac{5}{8}$ " THREADED RODS &  $\frac{3}{8}$ " BOLTS w/HARDWARE



TRACK CLAMP  
ATTACHED TO TRACK



TRACK CLAMP  
ATTACHED  
TO FLANGE



ALL CLAMP COMPONENTS ARE ZINC PLATED

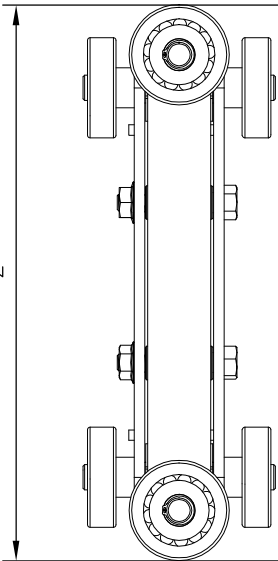
	(2) BOLT - HHCS 3/8-16NC x 1-1/4" LG c/w FW's, LW's & NUTS		
	(2) THREADED ROD - 5/8-11NC x 9" LG c/w FW's, LW's & NUTS		
	(2) "ZEE" BRACKETS		
	(1) MOUNTING ANGLE		
ITEM	PART NO.	DESCRIPTION	DWG. REF. NO.

TORONTO		<b>PACLINE</b>		BUFFALO	
		<b>OVERHEAD CONVEYORS</b>			
		www.pacline.com			
PACMAX ENCLOSED TRACK – ENGINEERING MANUAL – GEN II		PACMAX TRACK CLAMP			
DRAWN BY	DATE	DRAWING NAME	DRAWING NUMBER	REV	A
	AUG-2020		TC60–01	319	
APPRO'D BY	SCALE	PART NUMBER			
	NTS				

A	AUG-2020	GEN II RELEASE	DESCRIPTION	REV'D BY
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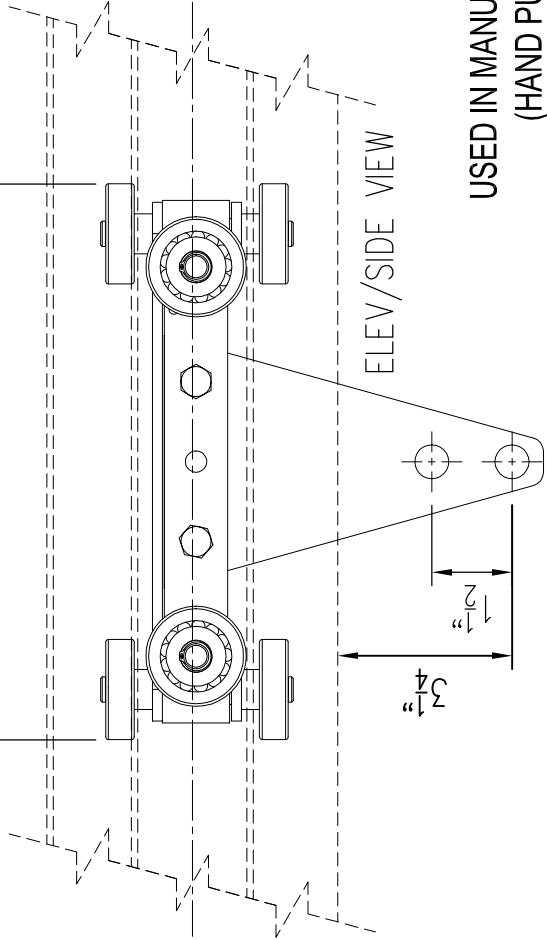
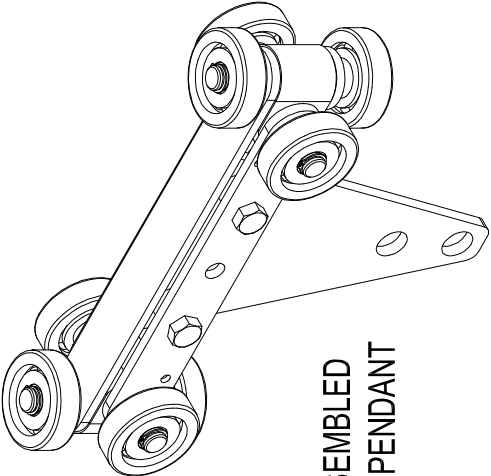
1 2 3 4 5

10 $\frac{1}{2}$ "



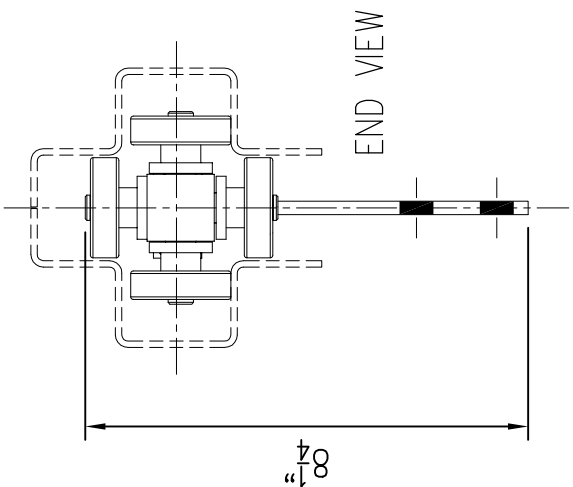
TOP VIEW

8" PITCH LINK ASSEMBLED  
with DOUBLE-HOLE PENDANT



ELEV/SIDE VIEW

USED IN MANUAL SYSTEMS  
(HAND PUSHED)



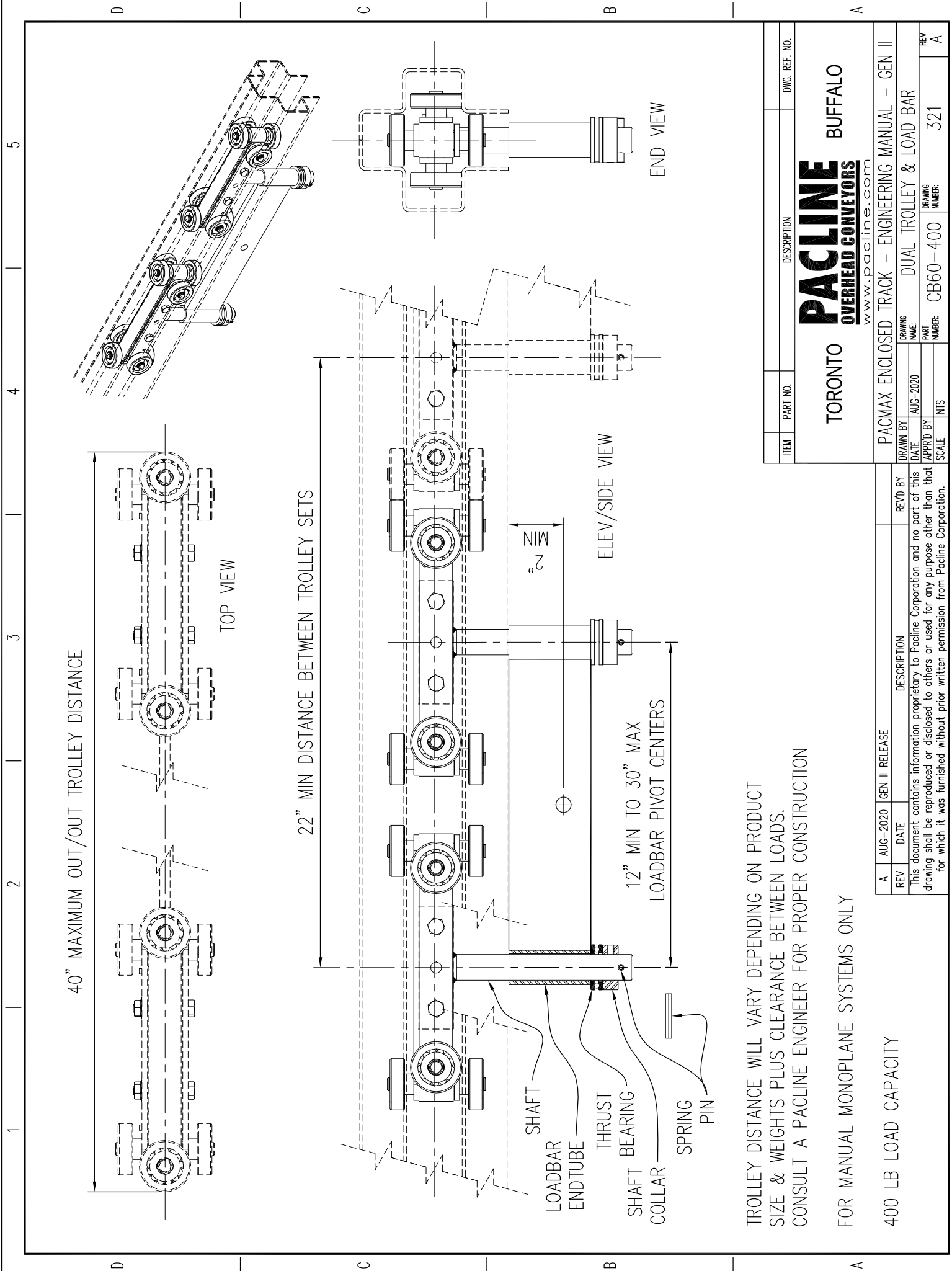
END VIEW

200 LB TROLLEY CAPACITY

ITEM	PART NO.	DESCRIPTION	DWG. REF. NO.
TORONTO		<b>PACLINE</b> <b>OVERHEAD CONVEYORS</b> <a href="http://www.pacline.com">www.pacline.com</a>	BUFFALO
PACMAX ENCLOSED TRACK – ENGINEERING MANUAL – GEN II			
DRAWN BY	DRAWING NAME:	SINGLE HAND PUSH TROLLEY	
DATE	AUG-2020	PART NUMBER:	REV
APPR'D BY		TR60-417P	A
SCALE	NTS	320	

REV	DATE	DESCRIPTION	REV'D BY
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A	AUG-2020	GEN II RELEASE	

1 2 3 4 5



40" MAXIMUM OUT/OUT TROLLEY DISTANCE

TOP VIEW

22" MIN DISTANCE BETWEEN TROLLEY SETS

SHAFT

LOADBAR  
ENDTUBE

THRUST  
BEARING

SHAFT  
COLLAR

SPRING  
PIN

ELEV/SIDE VIEW

12" MIN TO 30" MAX  
LOADBAR PIVOT CENTERS

END VIEW

TROLLEY DISTANCE WILL VARY DEPENDING ON PRODUCT  
SIZE & WEIGHTS PLUS CLEARANCE BETWEEN LOADS.  
CONSULT A PACLINE ENGINEER FOR PROPER CONSTRUCTION

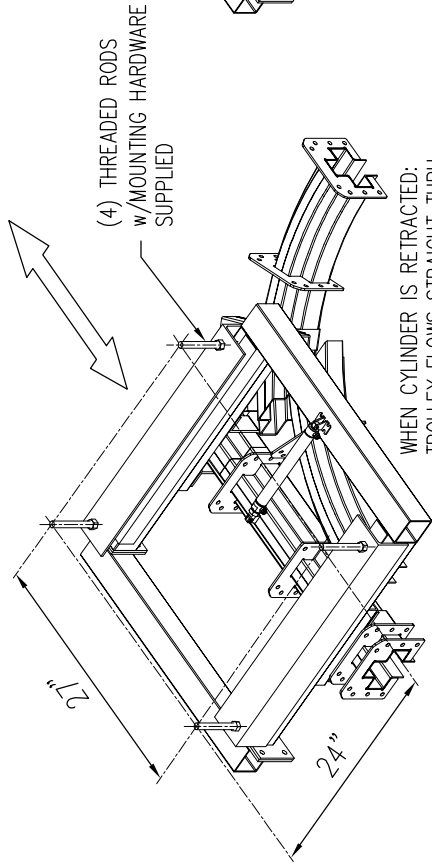
FOR MANUAL MONOPLANE SYSTEMS ONLY

400 LB LOAD CAPACITY

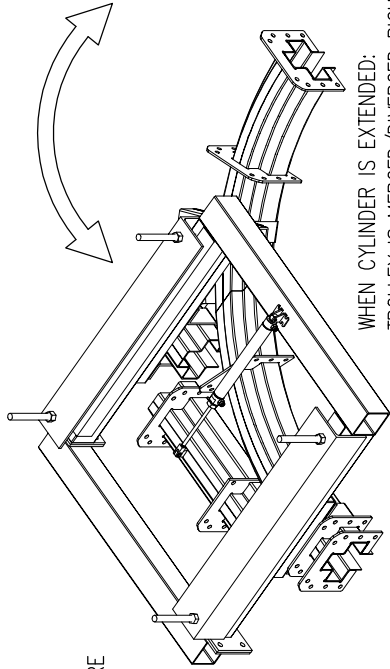
ITEM	PART NO.	DESCRIPTION	DWG. REF. NO.
<b>TORONTO</b>			
<b>PACLINE</b>			
<b>OVERHEAD CONVEYORS</b>			
<a href="http://www.pacline.com">www.pacline.com</a>			
<b>BUFFALO</b>			
PACMAX ENCLOSED TRACK - ENGINEERING MANUAL - GEN II			
REV	DATE	DRAWING NAME	REV
A	AUG-2020	DUAL TROLLEY & LOAD BAR	A
APPRO'D BY		PART NUMBER	DRAWING NUMBER
SCALE		NTS	321

REV	DATE	DESCRIPTION	REV'D BY
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A	AUG-2020	GEN II RELEASE	





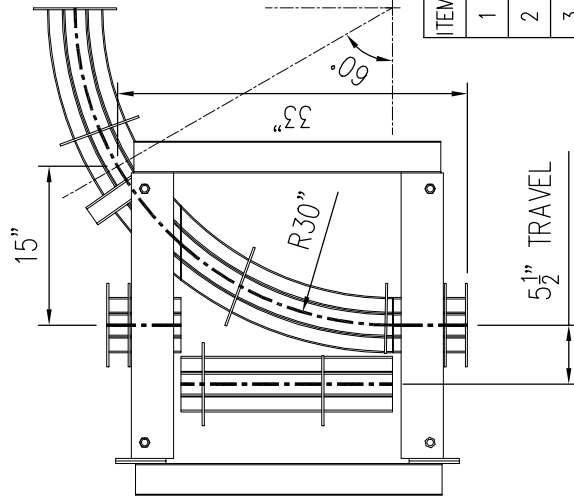
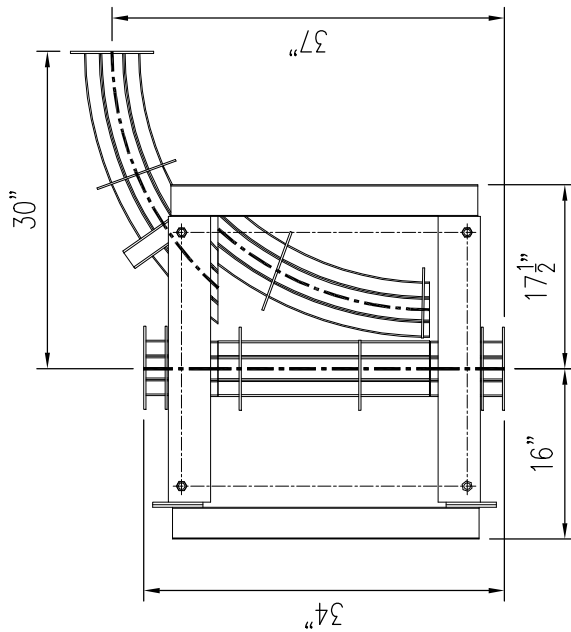
WHEN CYLINDER IS RETRACTED:  
TROLLEY FLOWS STRAIGHT THRU



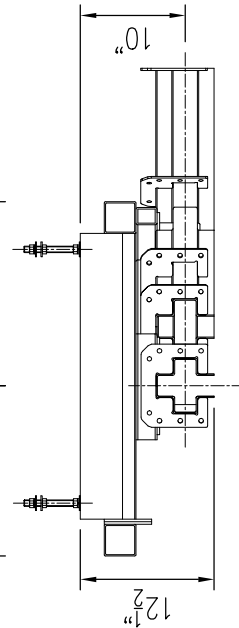
WHEN CYLINDER IS EXTENDED:  
TROLLEY IS MERGED/DIVERGED RIGHT OR LEFT

COMPLETE WITH:  
PNEUMATIC CYLINDER, STANDARD  
& FLOW CONTROL FITTINGS, MUFFLER,  
CONTROL VALVE w/LEVER AND  
30 FT OF TUBING

CUSTOMER TO PROVIDE AIR &  
3/8" NPT FITTING TO CONTROL VALVE  
CONSULT PACLINE ENGINEER  
FOR FURTHER DETAILS



30"R x 90° RH SHOWN



ITEM	PART No	DESCRIPTION	RADIUS	DEGREE	HANDING
1	SW60-3060L	PNEUMATIC TRACK SWITCH	30"	60°	LH
2	SW60-3060R		30"	60°	RH
3	SW60-3090L		30"	90°	LH
4	SW60-3090R		30"	90°	RH

ITEM	PART NO.	DESCRIPTION	DWG. REF. NO.

TORONTO		<b>PACLINE</b> <b>OVERHEAD CONVEYORS</b> www.pacline.com		BUFFALO	
PACMAX ENCLOSED TRACK – ENGINEERING MANUAL – GEN II					
DRAWN BY		PNEUMATIC TRACK SWITCH			
DATE		REV			
AUG-2020		NAME		A	
APPROV BY		PART		DRAWING	
SCALE		NUMBER		NUMBER	
NTS		SW60-CHAR		322	

REV	DATE	DESCRIPTION	REV'D BY
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