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**PALLET
CONVEYORS**
Product line

Premier Tech Chronos (PTC) acquired the vonGAL Corporation in June 2012 and has integrated vonGAL equipment into its product portfolio. Located in Montgomery, Alabama, U.S., vonGAL was among the top three manufacturers of conventional palletizing systems, dedicated mainly to the rigid packaging market in America. Its lines

featured low-cost, low-speed technologies that range up to very high speeds approaching 200 units per minute. PTC continues to deliver the same quality of products and services delivered by vonGAL during the last 60 years.

CDLR



Premier Tech Chronos transportation chain driven live roller (CDLR) conveyors are constructed with welded frames consisting of ¼" formed steel rails and structural steel cross members. Rollers are 2-1/2" diameter tubing with welded sprockets, 11/16" spring-loaded hexagon thru-axes, precision bearings are pressed in and swedged. PTC CDLR is a roll-to-roll design, whereby each roller will have two sprockets welded to one end so every roller is being driven with individual chain loops. The roller to roller chain drives are fully enclosed in an 11 ga chain guard. Rollers are equally spaced on 3 1/4", 4", or 6" centers. Standard hollow shaft Dodge Tigear 2 reducers and Baldor motors are shaft mounted to the CDLR's drive roller.

Examples of Available Alternatives

- 3 ½" diameter rollers
- Chain can be provided in #60 roller-to-roller
- Pallet guiding
- Sections for AGV and special fork truck applications
- P&D stations
- Motors may be mounted in alternate locations
- Special paint colors can be accommodated.
- Sensors and brackets can be provided.
- Electrical controls are available as an option.

Chain Conveyor



PALLET CONVEYING
SYSTEMS



Premier Tech Chronos transportation chain conveyors are constructed with welded frames consisting of 3/16" formed steel rails and structural steel cross members. The load is conveyed with RC80 chain supported by UHMW wear strips. Standard hollow shaft Dodge Tigear 2 reducers and Baldor motors are shaft mounted to the chain conveyors drive shaft. The drives are centrally located, using the chain catenary sag to keep tension on the drive system, eliminating chain take-up adjustments and allowing the chain conveyors to be properly used in reversing applications.

Examples of Available Alternatives

- 2, 3, and multi strands are available
- Center lane gravity rollers
- Tread plate between the chain guides
- Motors may be mounted in alternate locations
- Sections for AGV and special fork truck applications
- Special paint colors can be accommodated.
- Sensors and brackets can be provided.
- Electrical controls are available as an option.



Transfer



Premier Tech Chronos chain transfers are used to move unit loads on and off the CDLR conveyor at right angles to the direction of travel. The transfer is contained inside a welded structural channel frame. A pneumatic wedge lift mechanism which raises and lowers the chain transportation conveyor through the roller spacing in the companion CDLR section. Optional pop-up load stops can be added for squaring loads and guaranteeing pallet positioning prior to transferring the pallet load.

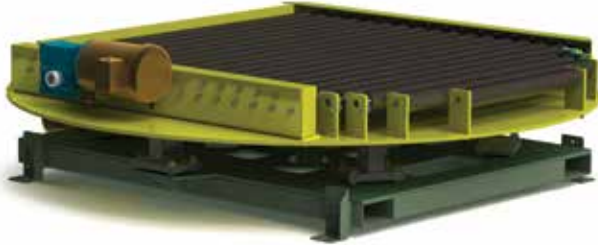
Examples of Available Alternatives

- Thru-frame designs are available.
- 2, 3 and multi strands are available (9 strand shown)
- Companion sections are available in as many alternate designs as the standard CDLR conveyors can be configured.
- Special paint colors can be accommodated.
- Sensors and brackets can be provided.
- Electrical controls is available as an option.
- Special guides, pallet stops can be accommodated.





Turntable



Premier Tech Chronos turntables are used to move unit loads on and off adjacent conveyor at right angles to the direction of travel, re-orient loads 180 degrees in the same direction travel, turn loads over 360 degrees for wrapping and scanning stations, etc. vonGAL turntables come standard with a section of 3" roller center, 52" effective width cdlr mounted on top of the table. The conveyor's rails are bolted to the table, and consist of 2 1/2" diameter tubing rollers mounted to the rails by 2 hole flanged bearings on both ends. The table is supported on heavy duty casters and is rotated at 15 rpm by a chain drive. A Dodge Tigear 2 shafted reducer, 480V brake, and Baldor motor is used to control the turning of the table.

Transfer Car



Conveyor top transfer car

Premier Tech Chronos transfer cars (t-car) are used to move unit loads from one conveyor line to another, allowing loads to be sorted between multiple pick-up and drop off conveyor lines. The car's drive mechanism is an electrical gearmotor driving shaft mounted steel flange wheels along the t-car's track system. The inverter duty gearmotor is controlled using a variable speed drive for smooth acceleration and deceleration features. An onboard laser positioning device is used for programming multiple accurate slow down, acceleration, and stopping positions for the t-car.

Examples of Available Alternatives

- Alternate conveyor designs are available. In lieu of CDLR,
- Additional angles may be added for pallet guiding.
- Special paint colors can be accommodated.
- Electrical controls are available as an option.

Pallet Dispenser



Premier Tech Chronos (PTC) pallet dispensers are dependable and rugged, yet gentle to pallets. The all-welded frame is made from rigid structural steel. Smooth lifting power is provided by PTC's 2000-pound capacity scissors lift, which features a sealed, self-contained power pack for maximum dependability.

Pallets are dispensed from the bottom of the stack one at a time and are never forced or rammed from the unit. In operation, the weight of the entire stack is relieved from the lowest pallet before it is released onto the discharge conveyor. Full-height guides on three sides of the magazine maintain a straight, square pallet stack for reliable feeding. Flexibility is designed into the system with machine configurations available to handle two, three or more different pallet sizes with minimal adjustment, or units with multiple pallet bins to handle several types of pallets at one time. The pallet dispenser can be designed for side or rear loading. It handles virtually any size or type of pallet.

Pallet Slab Collector / Dispenser



Premier Tech Chronos slab pallet collector / dispenser is used to collect and dispense single empty, solid pallet slabs to and from a stack of empty pallets.

Slabs are dispensed from the top of the stack. Movement of the pallets is done through the use of an overhead scissors lift gantry, and a self generated low vacuum lifting cup. No air is required

Examples of Available Alternatives

- End tooling to handle standard pallets or specific applications
- Custom configured to fit specific layouts and footprints.
- Special paint colors can be accommodated.
- Conveyor systems to meet specific application

Double Stacker

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Premier Tech Chronos (PTC) double stackers take single unit loads and consistently and efficiently stack one on top of the other, eliminating the need for fork truck drivers picking and stacking loads. When loads are presented to the fork truck drivers, loads are already prepared for storage and/or transportation. The double stackers use PTC 3,000lb hoist design, that has been field proven for over 30 years, to lift the first load allowing a second load to convey in under the raised load. The VFD hoist, along with a series of photo eyes, gently lowers the raised load onto the load below. The two loads are then conveyed out from the double stacker.

Examples of Available Alternatives

- Reverse operation for de-stacking
- Custom infeed/outfeed configurations to alter the order of the unit loads being stacked
- Special paint colors can be accommodated.
- Conveyor systems to meet specific application

Scissors Lift



Premier Tech Chronos' pneumatic Pick-up & Delivery Station Scissors Lift is specifically designed for Automated Storage and Retrieval System (ASRS). Vertical rods are used to limit the travel of the scissors lift instead of using stops to limit the travel of the scissors' cam followers, like standard scissors lifts. This feature directly opposes the lifting forces and transfers the lifting energy through the P&O Scissors Lift's frame, unlike standard scissors lifts which transfer their forces through the scissors, putting unnecessary stress and wear on the scissors lift's bushings and cam followers. PTC's Hydraulic ASRS Pick-up & Delivery Station Scissors Lift is designed for your heavier lifting applications and environments where compressed air is not suitable. The cylinders' strokes are limited to keep unnecessary stresses from being passed through the scissors lift's cam followers and bushings. The lift's hydraulic power unit is mounted externally for easier serviceability and filled with food grade hydraulic fluid. PTC's Hydraulic P&D Scissors Lift is also equipped with a flow control valve, can be modified to operate in freezer environments and can be customize to meet the needs of your lifting or lowering application.

Premier Tech World Headquarters

Premier Tech Chronos
1, avenue Premier
Campus Premier Tech
Rivière-du-Loup (Québec)
G5R 6C1 CANADA

☎ 1 418 868-8324

☎ Toll-free (USA/CAN) : 1 866 274-1287

Regional Offices and Manufacturing Plants in America

1881 West North Temple
Salt Lake City, UT 84116
United States

3101 Hayneville Rd
Montgomery, AL 36108
United States

35, boulevard Industriel, C.P. 5617
Caraquet, NB E1W 1A9
Canada

Avenida José Alves de Oliveira, 710
Jundiaí - SP
Brazil

