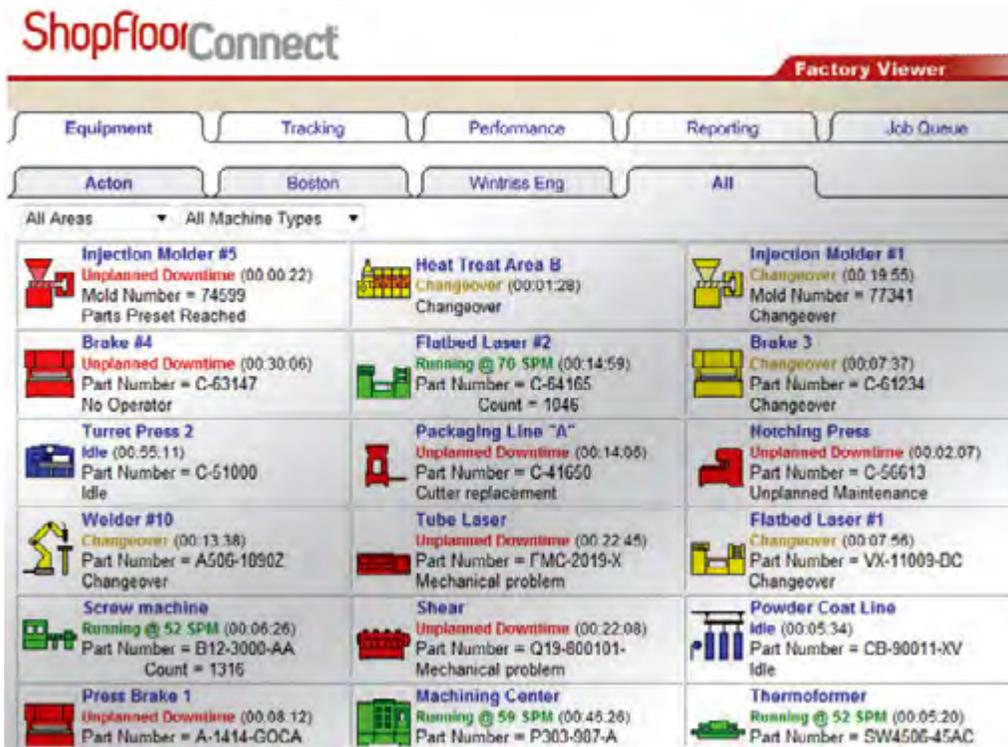


## WINTRISS SHOP FLOOR CONNECT SOFTWARE: CHANGES, ENHANCEMENTS AND UPDATES



In addition to changes behind the scenes to make the system run faster and more efficiently, we have added the following new features:

### Alerts:

- End of Job Alert: SFC now can be set to send an alert when a job has ended. Anyone can now get a text or email message when jobs are complete on a particular machine.
- Cycle tracking Alerts: For our stamping and injection molding customers, we can now send a text or email alert when the maintenance preset has been reached on items in the Tool tracker.

### Schedule:

- We have improved the formula used to calculate estimated job completion date and time. With this improvement we expect more accuracy.
- We added a threshold to the "re-queue if incomplete" function in our schedule. The requeue if incomplete function allows users to automatically reschedule the remainder of incomplete jobs. Our users asked us to provide a way to override the requeue function for jobs that are almost complete. The "almost" part is controlled by the new threshold setting. Example:

If the job has completed 90% of its parts we will not re-queue, however any % below that will.

- Performance Summary Screen:
- We have added the ability to review the performance based on the same relative ranges as the equipment summary
- In addition to comparing performance against the standard and ideal rates, we've added the ability to rate machines by performance versus the Standard Uptime Efficiency. This enables you to now include non-counting machines in the Performance Summary.

### Reports:

- The Stored Procedures used to generate datasets for reports have been improved to speed up the report generation time.
- New Uptime efficiency report. This report compares the current efficiency of selected machines a preset target efficiency
- Large "Real Time" Production Screen report

Get the latest Shop Floor Connect brochure here:

<http://www.wintriss.com/sfc/docs/brochure.pdf>

Interested in a demo of Shop Floor Connect? Contact your PRI Application Engineer.

(continued)

## COE'S SYNCMASTER CONTROLS PACKAGE

**SYNCMaster** is an integrated controls package for coil feed lines that allows operators to manage many servo feed, straightener, and coil reel setups and functions from a single touchscreen, increasing the efficiency of operations, and decreasing the chance of error.

SyncMaster provides features typically only included with fully-integrated PLC-based systems, all at a lower price point. A SyncMaster system includes coil reel, power straightener with an AC drive and PLC that controls the straightener and reel, and communicates with the servo feed. The servo feed has a touchscreen HMI that controls the feed and communicates via Ethernet with the straightener and reel.

Get the SYNCMaster brochure here: [Download the SYNCMaster flyer.](#)



**SYNCMaster...one station to rule them all!**

## LINEAR TRANSFER AUTOMATION CONTROLS AND PRODUCTIVITY UPGRADES FOR OLDER TRANSFER SYSTEMS



Linear is pleased to announce that our service group has been very successfully doing controls upgrades on many of our competitors' transfer systems. The average upgrade has been in the \$150,000 to \$200,000 price range. Very large presses could be \$400-500K or more. We've completed upgrades on Koller, HMS, Wayne trail, Gudel, Atlas, Noble, APT and GPA and/or, of course, on old Linear Systems, as well. In many cases we are quoting both a controls upgrade and a brand new system so the customer can compare.

Linear service and upgrades include:

- 24/7 phone support and remote diagnostics
- Extensive spare parts inventory and expedited shipping
- Training programs customized to your needs
- Transfer system evaluations and PM programs
- Upgrading your existing transfer with a new Linear control system
- 200 tooling profile storage
- Touchscreen control
- Optimized motion profiles for smoother, reliable, and higher speed parts handling
- Advanced sensor control
- Multiple control platforms: Indramat, Siemens, Rockwell, Mitsubishi

[Click here](#) to get the Linear service brochure.

## REVERSE TONNAGE ARTICLE

Reverse Tonnage—What does it affect and why? The Drivetrain of your press is designed to deliver the working energy / tonnage in a forward direction. The Drivetrain is comprised of several key components: driveshaft, bearings, eccentric shafts, bushings, con rods, slide, adjustment and ball seat, known as drive connection points. In order to work properly, all these components have pre-engineered clearances. This small amount of gap between the components allows the different metal surfaces of each connection point to rotate friction-free. During “snap through,” the connection points will slam with great force from top to bottom.

For example, the con rods are connected to the crank shafts with bronze bushings. The bronze bushing is perfectly round and its inside diameter is slightly greater than the outside diameter of the crank shaft. During the downward stroke, the working energy is being delivered to the tooling while the bottom side of the crank shaft and the bronze bushing come into direct contact with each other. This is the proper working cycle of the drive train. However, during “snap-through” the sudden release of the accumulated energy discussed earlier causes the crankshafts to jump up and down inside of the con rod, giving an egg-shape motion. The same can occur with improper low setting of acb pressure, hence the term “reverse tonnage.” This same clearance reversal happens throughout the entire drive train. This sudden and uncontrolled release of energy sends a shock wave through your press and tooling. The drive train of your press must absorb the brunt of this shock wave with every stroke. Over time, this uncontrolled release of energy will cause the round bronze bushing to become “egg shaped.” In addition, the rest of the drive train will also have excessive wear and damage requiring, in some cases, a complete rebuild of the press.

Production Resources offers W-Technologies’ hydraulic shock dampers to control and reduce “snap through.” We also offer Wintriss advanced load monitoring to measure and monitor reverse loads in addition to profiling loads at off-bottom dead-center points. Consult your PRI Application Engineer for more information.

*Courtesy of Sutherland Press*

## DORNER 3200 SERIES PRECISION MOVE COMPACT CONVEYORS

### Specifications

- Loads up to 750 lbs\* (340 kg)
- Belt speeds up to 517 ft/min (158 m/min)
- Belt widths: 4" (95 mm) to 18" (457 mm) in 2" increments
- Conveyor lengths: 2' (610 mm) to 50' (15,240 mm)
- 21 tooth H (1/2") pitch profile timing belt (10 mm Metric pitch available)
- 3.3" (84 mm) pitch diameter drive and idler pulleys turn approximately 10.5" (267 mm) of belt per revolution
- Optional M5 belt inserts
- Optional pallet mounting bars, 5/16" x 1/2" plated steel
- Conveyor package w/ servo motor index repeatability  $\pm 0.02$ "
- 100 Indexes per minute rated

### Features & Benefits

- High load capacity urethane belting with kevlar cords (True Timing Belt)
- No capacity drop when pushing belt
- All widths feature a single belt for increased mounting flexibility
- Positive drive no slip belting and side guides provide worry free belt tracking
- Use optional cleats to create pockets for controlled part flow
- Minimum pallet mounting bar is spacing 1" in length
- T-slots make mounting accessories simple with no drilling or special tools
- Compatible with standard drive packages
- Available with servo motor and mounts for increased accuracy of index
- Servo package includes fully integrated solution with intuitive PC interface
- Sealed ball bearings



Your Application Engineer can help you with a variety of conveyors for scrap removal, part handling, and automation. We offer low profile belted conveyors, cleated conveyors, magnetic conveyors, shaker conveyors, and extendable conveyors.

**Call us for more information:**

**800-863-3164, or e-mail [sales55@pri-mailbox.com](mailto:sales55@pri-mailbox.com).**

**Visit our website: <http://www.production-resources.com/conveyor-systems/>**

We can provide quick quotations and drawings on most conveyors. Call us for conveyor parts pricing and availability.

Want help with a conveyor application or quote? Provide us with some information about your application and we'll try to provide you with a solution. The form can be found at: <http://www.production-resources.com/conveyor-application-information-andor-quote-request-form/>. Don't have time to fill out a form? Call 800-863-3164 and give Becky your contact information and we'll have an Application Engineer call you to discuss your needs.

We can also provide safety light curtains, safety mats, scanners and barrier guards for point-of-operation safeguarding. Inductive proximity sensors and optical sensors are available for your automation needs.

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**PRI**  
**APPLICATION ENGINEERS**

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Steve Connolly (440-734-0858)  
[sconnolly@pri-mailbox.com](mailto:sconnolly@pri-mailbox.com)  
**N. Ohio & PA**

Mark Creswell (615-507-5026)  
[mark@pri-mailbox.com](mailto:mark@pri-mailbox.com)  
**W. TN, AL, MS, W. KY**

Chris Jones (615-714-1000)  
[sea-jay@pri-mailbox.com](mailto:sea-jay@pri-mailbox.com)  
**Central TN, GA, Central OH**

**Visit our website:**  
[www.production-resources.com](http://www.production-resources.com)

**Call PRI for quick quotations:**  
**800-863-3164**  
**or e-mail:**  
[sales55@production-resources.com](mailto:sales55@production-resources.com)



118 Seaboard Lane, Suite 106  
Franklin, TN 37067-2819  
Phone: 800-863-3164

Web [www.production-resources.com](http://www.production-resources.com)