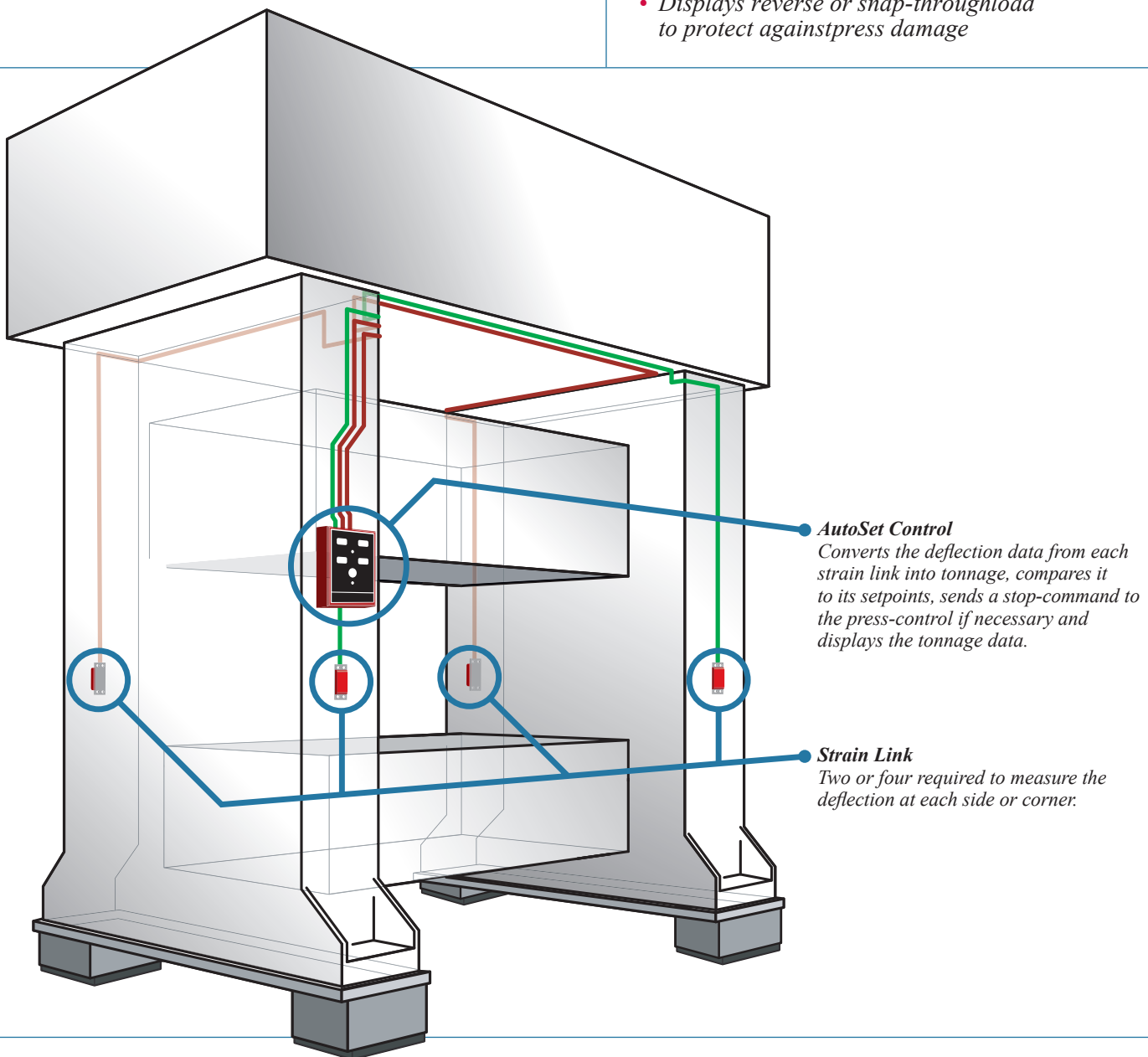EASY TO INSTALL
AND EASY TO USE

AutoSet 1500 Series Load Monitors areTechnologically Advanced yet Simple to Use

WINTRISS®

AutoSet Plus Features and Benefits

Press or die overloading is costly. It not only causes serious damage, but also reduces productivity and part quality. The most effective assurance against excessive load is a dependable tonnage monitor. The AutoSet 1500 series of load analyzers provide ease of use and reliable solutions that decrease downtime and improve process control.

- *Protects against press and die damage due to excessive overloads and abrupt changes in tonnage*

- *Improves set-up by using tonnage information from the previous run to eliminate errors in shut height adjustments and load balancing*

- *Aids in better matching of dies to press capacity*

- *Automatically calculates high and repeatability setpoints based on actual load, not press capacity, with a single switch*

- *Displays actual tonnages and setpoints (high and repeatability) on large digital indicators*

- *Immediately sends a stop command to the press and flashes error when a tonnage limit is exceeded*

- *Displays reverse or snap-throughload to protect againstpress damage*

AutoSet Control
Converts the deflection data from each strain link into tonnage, compares it to its setpoints, sends a stop-command to the press-control if necessary and displays the tonnage data.

Strain Link
Two or four required to measure the deflection at each side or corner.

Wintriss AutoSet Series of Load Analyzers
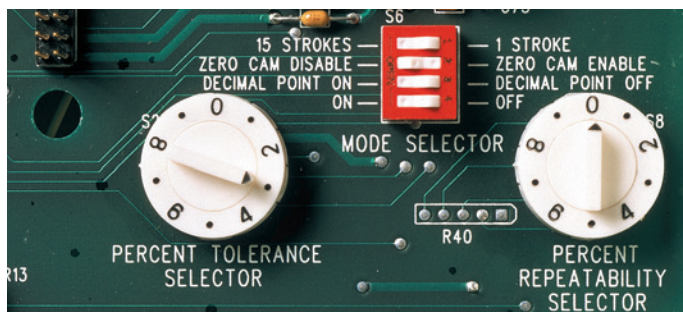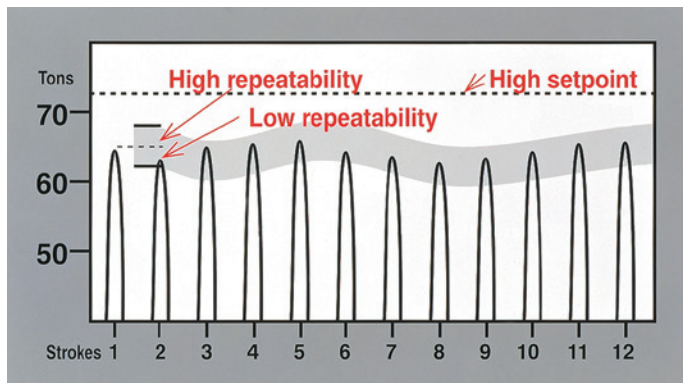
AutoSet 1500 Plus

With strain links mounted on the press, AutoSet 1500 Plus monitors press load on every stroke. If tonnage exceeds either high or repeatability setpoints or press capacity, AutoSet 1500 Plus signals the press to stop.

What is Repeatability?

In many applications, normal allowable process variations do not permit setting high setpoints tight enough to detect die malfunctions. Repeatability, the allow-able stroke-to-stroke variation in tonnage, however, can ignore these gradual variations and provide a very tight window to be set from one stroke to the next. (See illustration below.) Die malfunctions such as misfeed, broken punches and ejection failure can easily be detected. Repeatability monitoring allows for tighter process control.

Sets its own limits.

Inside a lockable enclosure, AutoSet 1500 Plus has two 10-position switches for selecting high and repeatability percent tolerances. (See illustration below.) A sample period selection switch for 1 or 15 strokes is provided for flexibility. Setpoints are based on the highest observed tonnage for each input during the sample period. A single front panel switch provides easy access for the operator to calculate setpoints and display either repeatability or high setpoints.

Four-Channel Operation

When a 4-channel load analyzer is demanded, the AutoSet 1504 Plus models will meet your requirements. High setpoints to monitor all four columns of the press are displayed along with tonnages. The AutoSet 1504 Plus incorporates repeatability monitoring and with a touch of a finger, you can quickly view reverse or "snap-through" load. More presses are damaged due to the reverse load because the press design limit is far lower in reverse than the forward load.

AutoSet 1500

When repeatability and reverse load are not required, the AutoSet 1500 brings quick, dependable, low-cost, 2-channel press monitoring to your operation. The AutoSet 1500 will automatically calculate and set high tonnage limits to save time and reduce margin for human error.

Wintriss AutoSet Load Analyzers

Equipment	**System Enclosure (all four models):** 10.25 x 12 x 4 in. (26 x 30.5 x 10.2 cm), NEMA 12, shock-mounted
	Panel Mount Option: 10.4 x 13.5 x 4 in. (26.4 x 34.3 x 10.2 cm)
Power	**Input:** 120/240 VAC ±15%, 50/60Hz, 15W for 1500, 30W for 1504
Inputs	**2 or 4 sensors:** 0 to ±0.1 V min - 2.5V max differential signal
	Zero cam (required for Plus models, optional for standard models): After the initial calibration, allows to re-zero after each stroke (the standard models can do this without external input if the tonnage exceeds 5% of press capacity only at the bottom of the stroke). Remote reset.
Outputs	**1 stop relay:** Rating 5A @ 120/240 VAC (N/O, held closed)
	Sensor excitation: 5 VDC
	Chart recorder: ±5 V Full Scale with respect to ground
Speed	**All models with zero cam:** up to 2,000 strokes per minute
	AutoSet 1500 without zero cam: up to 400 strokes per minute
Displays	**AutoSet 1500 series**
	Two 3-digit 0.43 in. (1.10 cm) for tonnages
	Two 3-digit 0.30 in. (0.76 cm) for setpoints
	Reverse tonnage views available on Plus models only
	AutoSet 1504 Plus
	Four 3-digit 0.43 in. (1.10 cm) for tonnages
	Four 3-digit 0.30 in. (0.76 cm) for setpoints
	One 4-digit 0.43 in. (1.10 cm) for total tons
	Reverse tonnage views available
Strain Links	**Product size:** 3.75 x 1.19 x 0.75 in. (9.5 x 3.0 x 1.9 cm)
	Cable length: 30 ft (9.1 m) standard or 100 ft (30.5 m). Hirschmann in-line connector available
	Excitation: 4 to 6 VDC
	Full scale signal: ±240 mV/V differential
	Full scale capacity: ±250 microstrain

Find out more

For more information, contact your local Wintriss representative or visit our web site at www.wintriss.com.

Wintriss Controls is a leading manufacturer of press automation, die protection and safety controls for metal stamping and forming industries; and data collection systems for all discrete manufacturing. We provide seminars for all products and OSHA compliance along with plant surveys. These products, which leverage Wintriss' 50+ years of experience in the metal stamping industry, are known for their proven performance and rugged dependability in the toughest factory environments. Wintriss equipment is backed by attentive service, timely repairs, and comprehensive spares inventories. A toll-free hotline gives customers immediate access to technical support experts for product information and applications assistance.

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