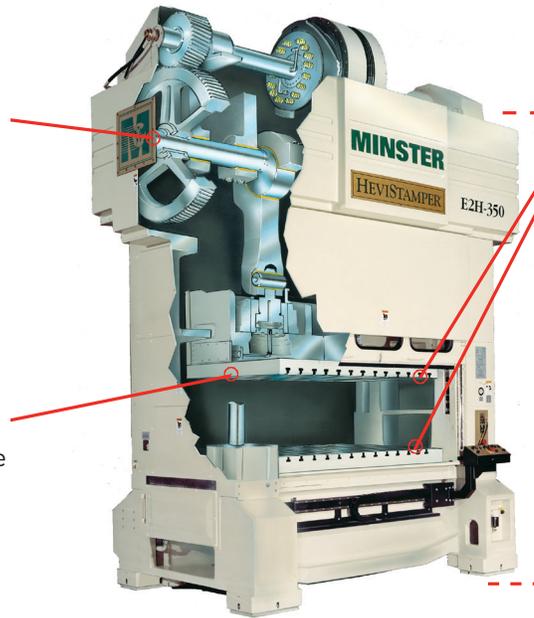


NEXUS PRESSPro II

Stamping Press Automation

A) Brake Monitor: Brake monitoring measures your stamping press brake performance and notifies operators of wear. Ensures the timely maintenance of this critical function to prevent serious accidents and minimizes surprise repairs.

B) Die Protection: Die protection ensures the safe and reliable operation of your stamping press, and helps prevent costly repairs due to feeding errors.



C) Tonnage Monitor: Tonnage monitoring lets you measure dynamic force and establish a “quality window” for stamping press performance with any die/material combination.

D) Programmable Limit Switches (PLS): High-speed programmable limit switches replace antiquated rotary cam switches that are inflexible, subject to wear, and slow down your production changes.

Product Description

AMCI makes it easy and affordable to upgrade your stamping press with sophisticated controls that rival larger, more expensive machinery. The NEXUS PRESSPro II incorporates “hard to find” stamping press automation functions, normally purchased individually, into a single product that saves time & money.



NEXUS PRESSPro II

Brake Monitor

AMCI's PRESSPro II uses a resolver-based brake monitor to measure braking performance and alert operators if preset stop time limits are exceeded. The monitor's advanced warning enables stamping press operators to schedule maintenance at the factory's convenience, avoiding an unplanned shutdown.

Die Protection

Operating errors such as misfeed, short feed, long feed, buckle detects & part eject can ruin a die and disable your press. Prevent costly repairs and/or damage to your dies by protecting against unexpected events using the PRESSPro II die monitoring function.

Tonnage Monitor

Extend the life of your stamping press and dies using the PRESSPro II tonnage monitor to optimize ram force and prevent excessive hard hitting. Capacity, high, low, and data window set points can be configured; if any of the set points are crossed an error will be reported to stop the press.

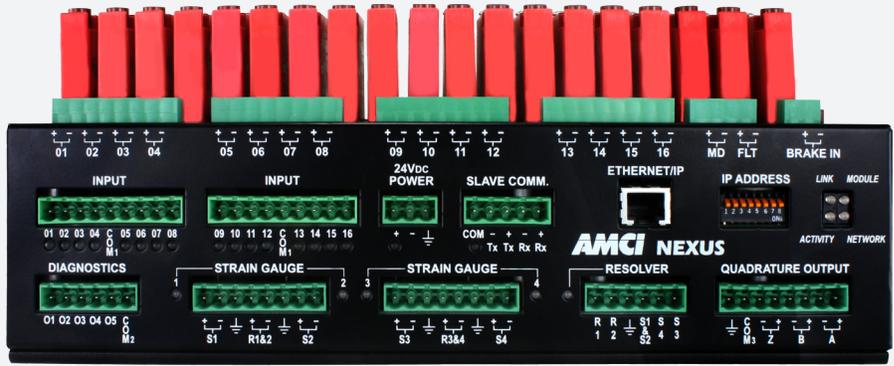
Programmable Limit Switches (PLS)

The PRESSPro II incorporates a resolver-based high speed PLS controller that synchronizes external equipment with machine timing such as; feed, part transfer, conveyor control, etc. A heavy duty absolute resolver reports accurate control position of the stamping press stroke, which eliminates time consuming adjustments associated with rotary cam limit switches.

▶ NEXUS PRESSPro II

Stamping Press Automation

Product Specifications

<p>Environmental:</p> <p>Operating Temperature: 0 to 60° C Relative Humidity: 5 to 95% (<i>non-condensing</i>) Storage Temperature: -40 to 85° C</p> <p>Power Supply:</p> <p>Range = 18 to 30Vdc. Optimum = 670 mA @ 24Vdc (<i>Does not include load on Strain Gauges</i>) Dedicated power supply (<i>not powering any other of the press control devices</i>) recommended</p>	 <p style="text-align: right;">NEXUS PRESSPro II</p>	
<p>Die Protection:</p> <p>Die monitoring inputs = 16 discrete Input scan time = 500us Power requirement = each input sources 0.5mA of current</p> <p>Five die protection types:</p> <ul style="list-style-type: none"> • Normally true • Normally false • Cyclical • Constant • Quick 	<p>Programmable Limit Switches:</p> <p>Sensor feedback = resolver Number of resolver channels = 1 Number of high speed outputs = 16 Motion detect output = 1 Fault output = 1 Output update time = 50us</p>	<p>Tonnage Monitor:</p> <p>Number of strain gauge inputs = 4 Reference voltage = 5Vdc Current supplied = 100mA max Signature Data = 256 bytes of strain gauge data output/stored on every cycle of the press</p>
	<p>Brake Monitor:</p> <p>Number of brake monitor inputs = 1 Current supplied = 15mA @ 24Vdc required (<i>Input Relay Dependent</i>)</p>	<p>Diagnostics:</p> <p>Signature analysis: outputs tonnage data directly to controller/display for visually mapping force profiles</p>

System Accessories

<p>Resolver Transducers:</p> <p>For 20+ years AMCI has designed and manufactured heavy-duty resolver sensors for the world's most demanding customers – metal forming plants. Stamping presses around the world rely on AMCI resolver transducers for reliable position feedback and 100% guaranteed system compatibility.</p> 	<p>Cables, Connectors, & Accessories:</p> <p>AMCI offers a complete selection of resolver cables, connectors, and accessories. Our CTL-(X) cables make it easy to connect the PRESSPro II to AMCI's HT-20 or H25 resolvers. Available in any length and constructed for maximum performance in the toughest environments.</p> 
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AMCI Corporate Headquarters

20 Gear Drive | Plymouth Industrial Park | Terryville, CT 06786
Tel: 860-585-1254 | Fax: 860-584-1973 | Email: sales@amci.com

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