

Newall's SPB Linear Encoders Meets the Demands for Ruggedness in Press Brake Retrofits

As stated on the company's website: "Over 100 years of innovation, endurance, and performance."

"Since our founding in the late 1890's as The Cincinnati Shaper Company, CINCINNATI INCORPORATED has built its reputation on three principles: innovation, performance and endurance. We built on our leadership with those early machines to begin manufacture of metal fabrication equipment in the early 1920's, and this remains our primary focus."

"We are one of a handful of U.S.-based, build-to-order machine tool manufacturers, and have shipped more than 50,000 machines in over 100 years of operation. From our modern 500,000-square-foot plant and technical center on a 600+ acre site near Cincinnati, Ohio, we engineer and build our machines to the standard of ruggedness required in the North American market – with premium engineering features that stand up to years of rigorous use in demanding environments."

Cincinnati Incorporated continues to build several models of state of the art CNC Press Brakes. As a service to their customers who own older Cincinnati Incorporated Press Brakes, they offer press brake control upgrades. These upgrades include installation of the new touch screen control by Cincinnati Service Representatives, using existing pendant arm and enclosure, as a cost-effective way to improve productivity in the customer's forming operations. Also included is a limited Planned Maintenance Service inspection on the CINCINNATI Press Brake.

During the service inspection, replacement of the linear encoders on the machine may be recommended or required (all CNC press brakes require linear encoders, to provide position feedback of the press brake ram to the CNC control.) Often, these older press brakes are used for very rigorous and demanding jobs, which normally would not go on a newer machine. For example, rugged "Punch Loads" can transmit extreme shock, vibration and "stretch" – distortion to the frame of the press brake. Also, very often these older press brakes can be in environments where oil, dust and dirt may be prevalent. All this can be detrimental to a typical linear encoder. That is why Cincinnati Incorporated uses Newall SPB encoders, when linear encoder replacements are required, as part of the retrofit package.

Newall's SPB Linear Encoders were specifically designed to meet the strenuous demands of the press brake industry. The unique design of the single end flexible mounting system offers 2 primary advantages. The first advantage, fast and efficient installation in the field. The read head is designed to be self aligning to a single end mounted scale, with a liberal alignment tolerance (+/- 3mm,) making installation easy. Second, due to its design, the SPB can withstand any distortion of the press brake frame due to "stretch," making it much more tolerant than other linear encoder technologies. And the SPB's "Spherosyn" inductive technology is inherently impervious to dirt, oil, moisture, shock and vibration, all factors which can affect the performance of other linear encoder types.

The standard set by Cincinnati Incorporated on performance and endurance over years of rigorous use in demanding environments, has proven Newall's SPB the perfect linear encoder choice, when replacement press brake linear encoders are required.



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Mailing Address: Sensata Technologies, Inc., 529 Pleasant Street, Attleboro, MA 02703, USA

CONTACT US

Americas

Newall Electronics Inc.
1803 OBrien Rd
Columbus, OH 43228
Tel: +1 614 771 0213
sales@newall.com
newall.com

Rest of World:

Newall Measurement Systems, Ltd.
Business Park, Unit 1 Wharf Way
Glen Parva, Leicester LE2 9UT
United Kingdom
Tel: +44 (0) 116 264 2730
sales@newall.co.uk
newall.co.uk