

Press brakes and automation

A COMPACT, AUTOMATED bending cell for producing 3D sheet metal components, comprising a Bystronic one-metre/40-tonne capacity Xpert 40 press brake fitted with the manufacturer's new Mobile Bending Robot, will be promoted by Bystronic (stand D38) at Northern Manufacturing 2017. The event will take place in Manchester (UK) from **27–28 September 2017**

"The automation module is wheeled in front of the press brake and interfaced to it in a plug-and-play arrangement. In minutes, users can set up the robotics and



The Mobile Bending Robot unloading a sheet metal part

load sheet metal blanks for bending. Programming can be carried out offline. ByVision Bending software

allows data to be imported without interrupting the job currently in progress. The result is a cell with a high degree of process reliability that lends itself well to minimally-attended, multi-shift operation," the Swiss manufacturer told *ISMR*.

Retrofittable to any Xpert 40 press brake in the field, Mobile Bending Robot allows automatic production for larger runs of components, but rapid access for manual bending of smaller batches and one-offs by quickly setting the robot module aside. As the automation module is on wheels and the press brake itself is small enough to be moved by fork-lift truck, the entire assembly can be relocated anywhere in a factory to suit various production needs.

See www.bystronic.com ■



The new Mobile Bending Robot attached to a Bystronic Xpert 40 press brake



EVO – Bright Evolution

AT THE SCHWEISSEN and Schneiden 2017 exhibition, Helvi S.p.A. will introduce its new concept "EVO – Bright Evolution" to the welding community. EVO is the result of several years of R&D investment. It combines technological improvements in hardware and software, resulting in a complete range of inverters designed to satisfy users' challenging welding requirements.

"The new EVO range is equipped with the latest microprocessor generation and uses advanced control algorithms to guarantee high welding performance. It offers a faster reaction to electric arc variation and condition and new welding arc dynamics have reduced spatter. It is now possible to weld all type of electrodes, in all welding positions, thanks to the new arc performance. The system also offers higher energy efficiency and the new electronic input voltage control enables a wider range of work," said Helvi S.p.A.

"An optional interface for remote control is available, on either the MIG or TIG torches, with the new Up/Down analogue or digital interface. There is also an optional Bluetooth® interface for the auto-darkening helmet, T-Link®, by Trafimet. Welding data analysis is offered and a new arc strike 'SAFE START' function and Pulse frequency of up to 2500Hz is available for TIG welding operations. For plasma cutting operations, the equipment offers longer consumable life and improved cutting performance and quality."

Models that incorporate the EVO brand are the Compact MMA/TIG; Multiprocess MAXITECH; Multiprocess MULTITECH and Plasma PC. See www.helvi.com ■



New guiding elements for die-making

THE STANDARD PARTS

manufacturer, Meusburger, has expanded its range with a new sliding guide bush with solid lubricant rings and collar. The standard guiding system has also been expanded with a diameter of 80mm, which is especially suitable for large dies.

The E 5126 Sliding guide bush with solid lubricant rings and collar is characterised by strong sliding properties, thanks to resistant bronze and the graphite solid lubricant rings in the sliding surface. The bush and the retainer clip are interchangeable, meeting DIN 98314/ISO 9448. Because of the G6 tolerance, the play between the pillar and the bush is increased so the processing of thicker metal sheets, during which high shear forces may occur, is now possible.

"The standard guiding system is now also available with a diameter of 80mm and a length of up to 400mm. It is therefore especially suitable for use in large dies. The guiding system is available as a ball guide as well as with sliding guide bushes," added the manufacturer.

See www.meusburger.com ■