

# Press Release 09/2021

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## BOY-exhibits „live and touchable” at Fakuma 2021

With an eightfold presence at the Friedrichshafen plastics trade fair, BOY shows its new products from its product programme. As usual, BOY welcomes its visitors in Hall A7 / booth 7101. The machine manufacturer located in Neustadt-Fernthal will present four injection moulding machines on its stand. Four further BOY injection moulding machines are on booths of partner companies.

*"At this year's trade fair presentation, we put more focus on the individual automation and digitalisation of our injection moulding machines"* explains Alfred Schiffer, Managing Partner of Dr. Boy GmbH & Co. KG. Three of the four interesting applications are equipped with BOY's own LR 5 linear handling system.

BOY presents a fully automated production cell - a BOY 80 E **hybrid** in combination with a BOY 2C S produces wine spouts. In addition to the energy-efficient servo drive, the BOY 80 E is also equipped with an optional electro-mechanical drive for the injection unit (eSP). The rotational and axial movements of the servo-plastic unit are carried out by two servo-motors totally detached from the machine hydraulics. The finished injection-moulded two-component plastic part is removed by the handling LR 5 and is then transported to an ultrasonic welding-system where a plastic-decanting-insert is shrink-wrapped into the wine spout.

The biggest of the BOY injection moulding machines - a BOY 125 E with six contact points, a clamping force of 1,250 kN and a footprint of only 5.22 m<sup>2</sup> - demonstrates its

capability with the production of stacking boxes. In just 17 seconds, the 77 g stacking boxes are injected, removed from the mould by the gripper hand of the BOY handling LR 5 and transported to a printer. After labelling, the stacking boxes are placed on an integrated conveyor belt.

Dental protective caps are produced on a BOY 35 E from a two-component liquid silicone. The vertically extremely compact telescopic handling unit BOY LR 5 removes the LSR-protective caps from a four-cavity mould and places them onto a conveyor belt. The four-tie-bar injection moulding machine scores with 350 kN clamping force, a generously dimensioned two-platen clamping unit and comparatively very favourable machine hour rates.

The specialist for injection moulding machines in the clamping range from 63 to 1250 kN presents on a 25 E a removal handling system that is fully integrated under the safety gate of the machine. In the medical-technical application, the side parts of a breathing mask are removed from the mould by a picker and placed on a small conveyor belt that is also integrated under the safety gate. With a footprint of only 1.9 m<sup>2</sup>, this automated device is probably one of the most compact production cells at Fakuma 2021.

Four more BOY injection moulding machines on the booths of partner companies complete the presence of BOY at this year's Fakuma. The entire BOY-trade fair team is looking forward to a well-attended event in Friedrichshafen.

