

BOY-exhibits „live and touchable“ at Fakuma 2021

With a ninefold presence at the Friedrichshafen plastics trade fair, BOY shows its new products and trade fair premieres 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 booth. Five further injection moulding machines are presented on booths of partner companies.

“With our Fakuma-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 the specially developed BOY LR 5 Linear-handling system.

BOY presents on a BOY 80 E hybrid in combination with an injection unit BOY 2C S the fully automated production of 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 2K-plastic part is removed by the handling LR 5 and is then transported to an ultrasonic welding-system where a decanting-insert is shrink-wrapped.

Trade fair premiere 1

The biggest injection moulding machine - a BOY 125 E with a clamping force of 1,250 kN and a footprint of only 5.22 m² on six contact points - demonstrates its capability with the production of stacking boxes. In just 18,5 seconds the stacking boxes are injected. New is an electro-mechanical ejector that makes an exact path-positioning of the ejector with synchronisation of ejector and handling movement possible.

The moulded part is taken over by the gripper of the BOY LR 5 handling unit without a horizontal relative movement. The electromechanical ejector is available as an option for the BOY 50 E up to the BOY 125 E.

Dental protective caps are produced on a BOY 35 E from a two-component liquid silicone. The vertically extremely compact telescopic handling unit of the 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. On a BOY 25 E an integrated removal handling system with conveyor belt will be demonstrated 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. With a footprint of only 1.9 m², this automated device is probably one of the most compact production cells at Fakuma 2021.



Alfred Schiffer,
Managing Partner
Dr. Boy GmbH & Co. KG

Welcome Back

In a few weeks, the Fakuma will open its doors. The long wait for a presence trade fair has come to an end and we look forward to presenting the interesting exhibits and new developments to our visitors.

I am convinced that many of our customers and interested parties will come to Friedrichshafen with concrete projects. However, the current general conditions are very stressful for everyone.

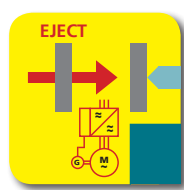
We hope that the availability of all materials and components will improve soon. This is urgently necessary in order to return to the „previous and good efficiency of the production processes“.

We are very much looking forward to welcoming you personally at our booth in a few days.

Yours Alfred Schiffer



A7 / 7101



Electric Ejector

Online-Support via WLAN-Stick and Repeater-Server

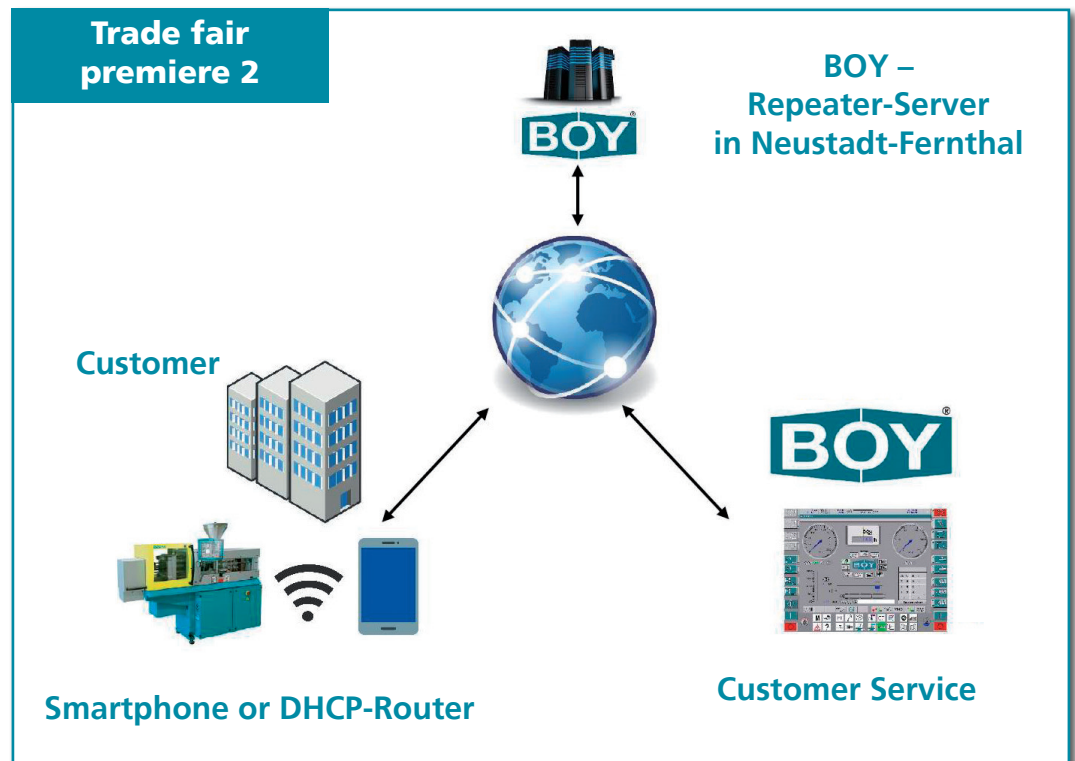
BOY takes up the trend topic of digitalisation with the presentation of its WLAN-Stick. This second trade fair premiere allows BOY injection moulding machines with the Procan ALPHA ® 4 control system to be integrated into any network with Internet access more easily and without a wired connection. Equipped with the BOY WLAN-Stick, users can make their injection moulding machines network-capable very easily and conveniently, eliminating the need of time-consuming installations.



Smart Control

After access-release in the machine control by the user, immediate help is thus also possible by means of remote maintenance via VNC or programming environment via the BOY-Repeater-Server in Neustadt-Fernthal.

Via the Hotspot of a mobile end device the injection moulding machine is then online via the WLAN-Stick.



- Wireless communication with the machine via WLAN. Previous LAN functions (EM 77/83, VNC, NAS, OPC-UA) are made possible via the WLAN-Stick.

- Alternatively, simple integration into an existing customer network via DHCP-Router without complex configuration.

- Remote monitoring: Users are online with the machine whenever and wherever they are (stable internet connection required).

More than words.....

At the Fakuma BOY is launching an Acceptance-Test for the voice control of machines in industrial use. Just like at home with Alexa & Co., injection moulding machines could execute certain basic commands by voice input.

What do you think about these „Assistance Systems“?

YouTube



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