

# Press Release 10/2021

Neustadt-Fernthal, October 2021

## BOY- novelties at Fakuma 2021

It has always been a BOY tradition to select a trade fair as a platform for a premiere. The family-run company will continue this tradition at this year's Fakuma.

Following the presentation of the servo drive at Fakuma 2008, the plasticising technology EconPlast at the K-trade fair in 2013 and the electromechanical injection unit eSP in 2019, BOY will present an electromechanically operated ejector for its larger BOY 50 to BOY 125 injection moulding machines in Friedrichshafen at its trade fair booth in Hall 7 / booth 7101.

The main features of the optionally available electromechanical ejector are:

- an operating mode that is independent of the main drive of the injection moulding machine
- adjustable speed profiles (up to 500 mm/s) with high accuracy and dynamics
- an exact track-positioning of the ejector with synchronisation of ejector and handling-movement

## Online-support by WLAN-stick and repeater-server from BOY

With the introduction of a WLAN-stick BOY deals with the trend subject digitalisation.

With this WLAN-stick BOY injection moulding machines with the Procan ALPHA<sup>®</sup> 4 control can be integrated into any network with Internet access much easier and without wired network connection. Equipped with the BOY-WLAN-stick the users make their BOY

injection moulding machines network-compatible, i.e. complex installations are not necessary.

These are the main advantages of the BOY-WLAN-stick:

- Communicate wirelessly with the machine via WLAN. All previous LAN-functions (EM 77/83, OPC-UA, VNC, NAS) are made possible by the BOY WLAN-stick.
- Connect the BOY injection moulding machine via the hotspot of an Internet-connected Smartphone with the Internet.
- Immediate assistance by remote control via VNC or programming environment possible. Assistance worldwide via a stable Internet-connection.
- Alternative very easy integration into an existing customer-network by DHCP-router without complex configuration.
- Remote monitoring: Users are online with the machine whenever and wherever they are (stable internet connection required).

After the user has enabled access to the machine control system, immediate assistance is 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 online via the WLAN-stick.

A further step towards the digitalisation of injection moulding machines is demonstrated with the BOY-software "Moulding Assist". With this intelligent assistant, injection moulding faults that have occurred can be identified. The digital assistant provides the user with solution suggestions to eliminate the injection moulding errors directly at the injection moulding machine. The corresponding setting pages of the Procan ALPHA ® 4 control are directly displayed to make troubleshooting easier for the user. If the production of impeccable parts restarts, the intelligent software system adopts the successful strategy and automatically adapts future solution proposals.

## Cooling water flow electronically recorded - standard

A BOY-cooling water-distribution with electronic flow quantity recording is demonstrated for the first time at the BOY-booth. The flow quantity set is digitally recorded and shown on the machine display. Target quantities and tolerances can be set, displayed and monitored. BOY intends to integrate this function as standard in all its injection moulding machines with Procan ALPHA<sup>®</sup> 4. In addition to the flow quantity a temperature display with process data monitoring is optionally available. At the Fakuma the visitors can become familiar with the function and test it at an exhibited BOY injection moulding machine.

## More than just words.....

With a study for the language control of machines in the industrial use BOY starts an acceptance test for "assistance-systems in the industry" at the Fakuma. Like Alexa & Co. at home the injection moulding machine can perform certain basic commands via a voice input. The fair visitors can test this on a demo-control at the BOY-booth.

Despite all the digitalisation, the entire BOY trade fair team is looking forward to welcoming the many visitors in person at its booth.

## Company profile

Dr. Boy GmbH & Co. KG is one of the leading worldwide manufacturers of injection moulding machines with clamping forces up to 1,250 kN. The very compact, durable machines work precisely, energy-saving and thus highly economically. With innovative concepts and solutions, BOY has proved itself again and again as a trendsetter. Since the company was founded in 1968 nearly 50,000 Injection Moulding Machines have been delivered worldwide. The privately-owned company continues to put special emphasis on engineered performance and high-class "made in Germany" workmanship.