

## Press Release 35/2019

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### BOY continues its success story after the end of the K 2019

With its successful appearance at the Düsseldorf Plastics Trade Fair BOY has created the preconditions for the further successful future of the medium-sized machine manufacturer, based in Neustadt-Fernthal. *"We proudly can take a very positive stock of the eight days lasting fair,"* Alfred Schiffer, Managing Partner puts it in a nutshell. *"We are very delighted with the great interest in our injection moulding machines and innovative technologies. Compared to the K 2016, we could register more trade visitors at our booth."*

In addition to the premiere of its new BOY 100 E *hybrid* with a servo-electric injection unit BOY presented also interesting automations at almost all of its exhibits.

According to the statement of the manufacturer, the BOY 100 E *hybrid* can now optionally be ordered as an eSP-option for the machine sizes from BOY 60 E to BOY 125 E.

The new servo-electric injection unit offers a high economic advantage, especially in the case of short cycle times and high dosing volumes.

Due to the independence from the closing side to the injection side, all movements of the clamping unit are possible parallel to the dosing process.

Intelligently integrated in the direction of the machine axis, the BOY 125 E impressed with its linear Handling LR 5. With this design, no additional footprint is needed for the handling.

The trade fair topics Circular Economy and the increasing digitalization of the industry have been competently implemented with interesting applications by the specialist for

injection moulding machines up to 1250 kN clamping force. For example, bio-based materials were used without any problems on some BOY injection moulding machines. BOY also relies on waste prevention rather than a reuse of recyclates by avoiding sprues, direct injection moulding when using single-cavity moulds and the use of hot runner technologies.

With regard to the growing digitization of the injection moulding machines BOY provided a delightful solution for the visitors: at a coffee bar the visitors could order a delicious hot beverage via an input terminal. A BOY 125 E in conjunction with a BOY 2C S injected 2K coffee cups in a multi-component process. The transfer of the base body into the cavity for the overmoulding with the second component was made by the LR 5. The next working step was the transfer of the cups by the Handling LR 5 to a conveyor belt. A Cobot with collaborating robot technology from KUKA took the cup and delivered it to a printer of the company Leibinger. The data and process parameters individually entered by the "thirsty" trade fair visitor were printed on the handle of the coffee cup as a QR code. Then the robot put the cups under a coffee machine of the company Kaffeepartner and served the hot beverage directly into the visitor's hand. The interaction of 2 injection moulding machines, the Handling LR 5 and the KUKA robot was achieved by the complete networking of the components. The high connectivity of the individual devices demonstrated impressively the increasing digitization of machines by means of a complex application.

