

## Press Release 31/2018

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### **BOY expands its product range after Fakuma 2018**

At the BOY booth 7101 in hall A7, a new, large injection moulding machine with the type designation BOY 125 E celebrates its world premiere.



How did this extension of the delivery program come about? Well, in recent years there has been a lot of innovation in the field of multi-component injection units.

In the meantime, many program sequences and interfaces, as well as four different injection units from SP 11 to SP 370 with a (theoretically) maximum stroke volume of up to 280 cm<sup>3</sup> are available.

The machine types BOY 2C XS, BOY 2C S, BOY 2C M and BOY 2C L are also used in many third-party machines. Up to now, up to six injection units have been

used on one machine. The moulds required, generally manufacture slightly larger than it is the case with standard applications. As response to the demand of many customers BOY has designed a new machine with a clear width of 470 mm between the tie bars instead of the previous of 430 mm. In addition, the maximum platen distance has been extended to 825 mm as standard. This should provide more space, for example when using rotary plates.

A further advantage of this new construction is a 25% higher clamping force, which means a clamping force of 1250 kN is now available. Basically, however, the new BOY 125 E is based on the tried-and-tested BOY concept.

The BOY 125 E, which will be fully integrated into series production in the spring 2019, demonstrates an interesting two-component application at the Fakuma. In combination with a BOY 2C S, cups made of NAS 30 are first injected and then a partially overmoulded design surface as a second component by the additional injection unit BOY 2C S in the same mould. The gripper head of the BOY removal handling LR 5 repositions the pre-moulded cups in the mould, removes the finished two-component parts and places them on a conveyor belt in the protective housing of the LR 5 automation cell.

### **By the way – exhibition novelties**

For the first time, BOY shows a telescopic version of the LR 5 removal handling. The compact linear handling, assembled on a BOY 35 E, is particularly suitable for production sites with low ceilings. The vertical travel path could be reduced to a minimum by the telescopic arm. The long-term positioning accuracy of the transfer / removal handling developed by BOY is  $\pm 0.1$  mm.

At the BOY booth, a total of three LR 5s with different designs will be presented. Thus BOY also demonstrates its efficiency in the automation of its BOY injection moulding machines. In addition to the linear robots, the BOY product line "Automation" also includes a large number of individual Pickers and removal handlings, which can be installed in a space-saving arrangement underneath the protective cover. Not only the BOY injection moulding machines but also competitive machines can be equipped with the BOY transfer- and removal handling.