

# Press Release 28/2016

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## **K 2016: BOY- innovative in all categories**

With its appearance at the K 2016 the specialist of injection moulding machines up to 1,000 kN clamping force hit the mark and impressed the visitors with its exhibits and applications at the worldwide most important Trade Fair for Plastics and Rubber. For BOY this event in Düsseldorf is and remains the base of relevant and future-oriented decisions for product-, process- and problem-solutions.

Whether the smallest BOY injection moulding machines – as the BOY XXS with 63 kN clamping force, which was presented to the public for the first time – or the new machine control Procan ALPHA<sup>®</sup> 4 with graphic sequence programming – the presentation of the new products of the family-run company from Neustadt-Fernthal were persuasive.

### **Automation solutions 4.0**

The premiere of the new BOY-linear handling LR5 as well as the successful presentation of the most modern automation technology with two interlinked working robots on a BOY 35 VV completed the successful trade show presence of BOY with an “Industry 4.0”-application. The process- and visitor data were printed by a QR-Code on individually personalized beer glasses (filled on request). Visitors could receive their refreshment directly from the robot hand.

### **Blow moulding in an injection moulding machine**

On a BOY 60 the blow moulding technology was impressively demonstrated. In a 4+4-fold mould bottles for eye drops were pre-injected, then – after a 180° rotation of the mould core in the form – blown up and airtight packed in an integrated clean room.

### **Multi-Drive – the logical extension of Servo-Drive**

Already with the launch of the servo-electrical pump drive BOY has set new energetic standards in the drive technology of injection moulding machines. With the new function Multi-Drive two energy- efficient servo-drives take over the drive function (either parallel or together). With the Multi-Drive technology applications with high injection volumes or - speeds or high-speed applications with short cycle- and cooling times can be performed more efficiently.

The operating times of both pumps can be individually configured in the injection moulding cycle. This means that simultaneous movements as for example opening of the mould and parallel ejector movements, core pulls etc. or processes of the different axes can be combined without any problems. In contrast to the electromechanically driven injection moulding machines – which require a separate servo-motor for each axis and thus have a high connected load – the BOY Multi-Drive operates with two drive motors only, which offers energetic advantages.

### **World premiere of the BOY XXS Table Top**

For the first time BOY presented another new development – the new Table Top machine BOY XXS. The advancement of the BOY XS with a clamping force of 63 kN has been specially designed for the production- and laboratory area. All microforms of well-known manufacturers of standard mould units can be easily installed into the two-plates clamping system. The BOY XXS is equipped with a worm plasticizing in the diameter range of 8 – 18 mm (max. injection volume of 10.2 cm<sup>3</sup>). Short dwell times of the material within the plasticizing unit and a more gently material processing acc. to the FiFo-principle (First in – First out) offer advantages when processing temperature-sensitive materials. All proven features of the BOY injection moulding machines such as an industrial permanent use, the intuitive machine control Procan ALPHA<sup>®</sup> and the compact

dimensions can be rediscovered in the BOY XXS. Optionally the table machine can be ordered with a movable base frame which will further improve the flexible field of applications of the BOY XXS.

### **A quick recap**

„The K 2016 was the perfect platform to present the BOY-innovations to an international expert audience. We could find out that Industry 4.0 is more and more gaining ground in the plastics- and rubber industry. Many visitors at our booth were particularly interested in the new BOY XXS, the individual automation solutions, the “Industry 4.0 – application” and our new control Procan ALPHA<sup>®</sup> 4,“ explained Alfred Schiffer, Managing Partner of Dr. Boy GmbH & Co. KG, and he added: “The K 2016 has been one of the most successful trade fairs so far. Numerous business transactions during the eight-day fair and a large number of promising projects are very positive prospects for BOY.”