

Smart solutions for the current challenges in the plastics industry

The currently controversial topic of energy efficiency and the exorbitant increase in energy costs as well as the sustainability of production processes determined a large part of the discussions held at the K trade fair in Düsseldorf. The need to significantly reduce energy consumption in parts-production by using more efficient machines was omnipresent. Many companies are currently trying out a lot to significantly improve their own productivity. With the highly energy-efficient E-series, BOY offers users injection moulding machines in the clamping force range from 63 to 1250 kN.

At the „K“, the portfolio of the E-series was enhanced by the new BOY XS E, which represents an even more efficient solution. The trade fair premiere impressed visitors with its compact dimensions (footprint 0.87 m²), the efficient servo drive and two selectable clamping-platen-configurations. A height-adjustment of the injection unit for decentralised injection is available as an option. The interest of the users in the new BOY XS E was significantly higher than expected. The details of the new BOY XS E can be found in this video:



With more CPU-power, a larger RAM and a high-resolution screen, BOY is preparing itself for the increasing demands with the Procan ALPHA 6.

The connection to a host-computer-system according to EM77 is part of the interface package. The same applies to the WLAN stick, which enables an easy integration into a network. The status of the BOY injection moulding machine can be monitored via the network by a smartphone and by the BOY status-app as well. The optionally available BOY Moulding-Assist supports the operator directly at the machine. By comparing different error patterns with a company-internal database, solution strategies are suggested to the user and the knowledge gained is then fed back into the database.

Editorial



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

The year 2022 was a very challenging one and it was combined with sometimes considerable restrictions in the plastics industry. We would like to thank you very much and we highly appreciate your loyalty and patience.

When reflecting the K 2022, we can state that we experienced the fair as very positive. Although the number of visitors was somewhat lower than in 2019, we were able to welcome many customers and interested parties with specific projects at our booth. We really appreciate the personal contacts with our business partners.

We wish you, your family and your employees a happy, healthy and confident new year 2023.

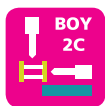
Yours Alfred Schiffer



Nine exhibits with interesting applications and process technologies attracted a large number of visitors to the BOY booth.



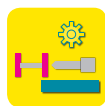
Servo-Drive



Multi Component



Technology



Moulding Assist



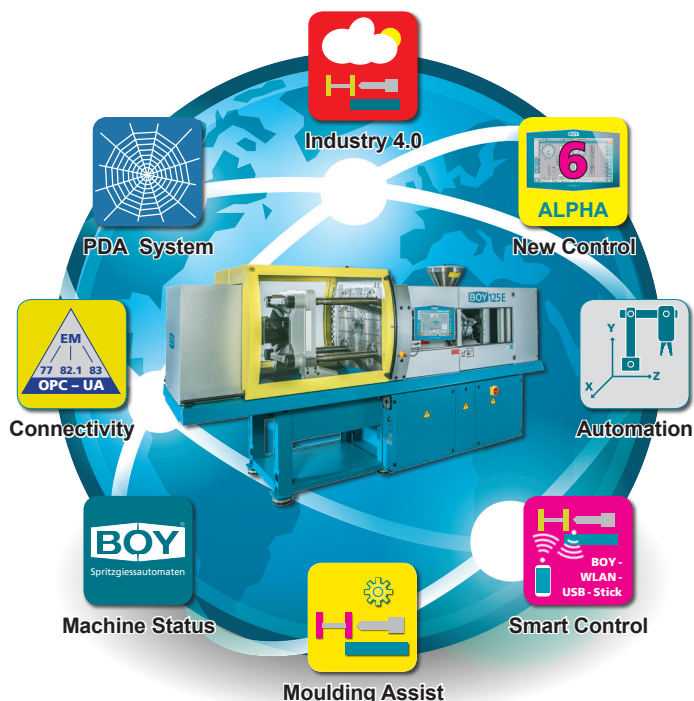
Clean Room



Digitalisation

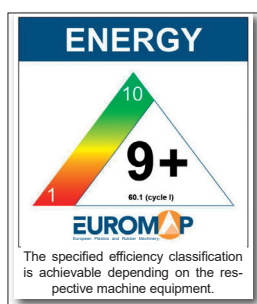


Spritzgiessautomaten



The newly developed BOY cooling water distribution with digital flow measurement impressed the trade visitors.

With outstanding performance classifications up to 9+ (0.31 kWh per kilogram of material processed according to Euromap 60.1), the BOY injection moulding machines of the E-series offer efficient solutions to absorb the increased energy costs.



saved annually compared to machines with older drive technologies.

“The present situation of high energy costs makes the change to more efficient machines much more attractive. This is even economically necessary and ecological sensible. Any investments in new machines are now amortised much more quickly for users than before” is the statement by Alfred Schiffer, Managing Partner at BOY.

During the eight days of the trade fair, the family-run German machine manufacturer once again recorded an extremely vivid attendance at its booth. Many trade visitors did not want to miss the presentation of new machines and automations, future-oriented technologies and the increasing digitalisation possibilities. All BOY-highlights can be found here in the trade fair video:



YouTube



In addition, every kWh saved prevents the generation of CO₂ emissions. Every kilowatt-hour that is not consumed means 0.366 kg less CO₂ pollution, which means that in the three-shift operation of a BOY-injection moulding machine of the E-series, several tonnes (!) of CO₂ emissions can be

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