

BOY with a total of 13 injection moulding machines at Fakuma 2023

With a total of six exhibits on the BOY booth and another six on the booths of partner companies, BOY is presenting a large range of its portfolio at this year's plastics trade fair in Friedrichshafen.



A7 / 7101

Fair highlight

Reduction of the cycle time on the BOY XS E by means of the igus sprue separator

Efficient processes and short lead times are becoming increasingly important in the course of Industry 4.0 and the same applies to the injection moulding production. But removing sprues often means the loss of valuable time. With increasing auto-

mation, sprue pickers are often used to remove the sprue directly from the injection mould by gripping pliers. But this process step also costs cycle time – about 1.25 seconds each time, since the new cycle can only start once the picker has moved out of the mould area. In order to further advance automation and increase productivity, the Cologne-based plastics specialist igus has developed a compact sprue separator suitable for

BOY XS and BOY XS E injection moulding machines. With this automation solution, articles and sprues are separated from each other directly at the machine - without extending the cycle time.



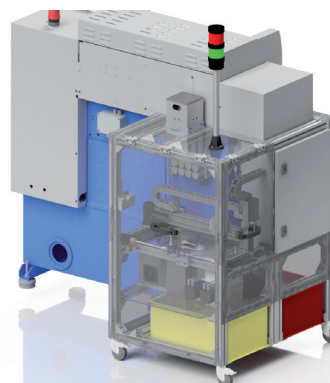
BOY at Fakuma 2021

The sprue separator is positioned under the ejection chute. From there, the injection-moulded parts fall onto a separator which is a rotating disc.

An integrated camera detects the sprues on the separator and a gantry robot picks them up with a gripper. If the sprue and the article still have to be separated from

each other, the article is separated by a device and falls into a box, while the sprues are ejected separately. Meanwhile, the injection moulding machines can continue production without any restrictions.

All components of the sprue separator are available on the robotics-marketplace RBTx powered by igus.



BOY XS & „sprue separator“ from igus



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