



INDUSTRY: Respiratory protection

PROJECT: Pick and place

CUSTOMER: Filtration technology

THE CHALLENGE

Following the successful commission of a similar machine, our client, a manufacturer of personal respiratory equipment, required an updated machine as part of their continuous improvement strategy.

The brief was to substantially improve on the first installation in terms of production speed, product yield as well as improved consistency and quality. The pick-and-place design needed to allow for a tooling change as well as being compatible with existing production and test machines.

Our client's products are required to meet the most stringent safety standards both in terms of quality and consistency.

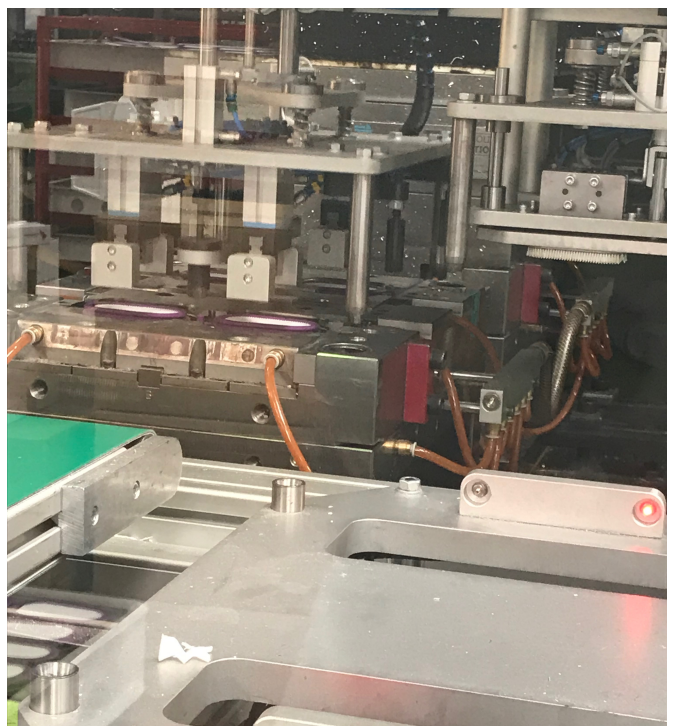
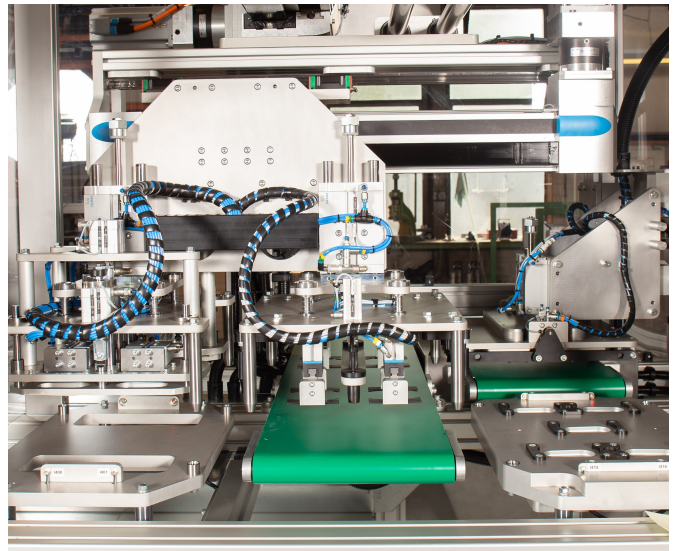
THE SOLUTION

The multi- stage machine has been designed focusing on improving efficiencies of the original commission, using servo drives to move the product and assembly as required.

Items set on carrier trays are presented to the automation and then picked in pairs, processed by the automation and placed into the bottom half of an injection moulding tool. The carriers are then stripped away leaving the items behind which are then over-moulded.

The finished product is individually tested and the carriers returned for re-work with the finished, tested parts collated ahead of post-assembly work

Our client has reported a four-fold production increase plus improved quality and consistency and minimal stoppages.



GET IN TOUCH

TF Automation is a team of dedicated designers and engineers working with manufacturers across a wide range of industries on process automation projects. With over 40 years' experience, we have the ability to assess and understand the needs and requirements of each individual project and customer ensuring the optimum solution.

For more information on this and other projects, please contact us!
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INDUSTRY SECTORS

