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## Fakuma firsts: We look at Milacron's injection moulding debuts in detail

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Milacron, one of the world's most recognisable plastics processing giants, has announced a number of injection moulding firsts to be on show at its historically gargantuan stand at Fakuma 2018 in Friedrichshafen.



In addition to its M-Powered suite of connected services, aftermarket service and support, and DME technologies, the company will be presenting its injection moulding machines, Mold-Masters hot runner technology and control systems, and TIRAD high-precision mould bases.

## **M-Powered Suite of Connected Services**

Top of the billing is the European debut of the new Milacron M-Powered Suite of Connected Services, bringing the Internet of Things to moulding, giving operators a competitive advantage with access to analytical and support systems allowing them to improve their productivity, quality and efficiency.

M-Powered-enabled machines currently include remote service capability with OEE and downtime analytics and data collection with maintenance and parts recommendation intelligence. The Milacron M-Powered product offering will continue to evolve, and Milacron is currently scheduling releases later this year to include services such as the M-Powered Fingerprint.



## All-Electric Elektron EVO 155 with iMFLUX

The Elektron EVO is the product of Milacron's years of innovating all-electric injection moulding. The Elektron EVO uses 60 per cent less energy and 90 per cent less water than hydraulic injection moulding machines, reducing operating costs. The stroke precision of its servo-driven axes is significantly greater than top hydraulic systems, making it the best injection moulding machine for the reliable production of high-precision parts and clean room environments.

Fakuma 2018 will also mark the debut of iMFLUX. iMFLUX technology provides real-time adjustment for mould and material changes. Developed by P&G in 2013, the system now operates as a wholly-owned P&G subsidiary. The technology enables filling a mould at a lower melt-pressure profile, allowing a variable filling rate that adapts automatically to the part geometry. Using iMFLUX, moulders can increase productivity by up to 50 per cent on existing injection moulding machines.

Milacron's Elektron EVO 155 will have a 2 cavity iMFLUX mould producing a technical part at an estimated 15 second cycle time. The work cell will have a Mold-Masters Master-Series hot runner system and a TempMaster SeVG+ controller with integrated temperature controls.



ELEKTRON EVO 110

## Quantum 180 Toggle IMM

Milacron's newest and most advanced Toggle machine ever will make its European debut at Fakuma 2018. The Quantum Toggle injection moulding machine is designed to deliver higher productivity, reduced cost of ownership, enhanced performance and advanced technical specifications. Quantum comes equipped with Milacron's Endura Touch control interface and is available from 125 to 610 tonnes. The Quantum features Milacron's new generation toggle machine technology that will provide added benefits of reduced energy consumption, lower cycle time coupled with precision and reliability.

Milacron's Quantum 180 will be outfitted with a Mold-Masters E-Multi secondary injection unit, TempMaster M1 controller and an indexing rotary unit in combination with a 2K mould from Wilhelm Weber moulding a two-component squeegee at Fakuma 2018. The primary injection of a PC/ABS blend is processed via the Quantum machine followed by the Mold-Masters E-Multi injecting the TPE. The Wilhelm Weber tool with an index plate system has a hydraulically operated wiper that wipes the squeegee from the over-moulded core. Total part weight of 72 grams running a 50 second cycle time.

"Fakuma is known as a leading technical event for the plastic injection moulding industry. Milacron Europe has some expanded offerings we're excited about

including our newest toggle machine the Quantum T and the European debut of Milacron M-Powered," said Milacron CEO Tom Goeke. "I'm certain that all of our current and prospective customers will be impressed by the M-Powered IoT suite of products, our revamped injection portfolio and our unmatched Aftermarket service and support offerings."

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