FANUC ROBOSHOT injects efficiency into plastic firm's production line

A suite of FANUC all-electric ROBOSHOT injection moulding machines are processing 10,500 tonnes of plastic each year for a Turkish manufacturer of plastic products, cutting energy usage, lowering costs and boosting efficiency. Ranging in capacity from 50-220 tonnes, the ROBOSHOT a-SiBs have proved a lifeline for Poelsan Plastic, who have recently purchased another of the FANUC machines to manufacture their range of automatic irrigation systems.

Based near Samsun on the Black Sea coast, Poelsan manufactures over 2,000 different plastic products for the agricultural, horticultural, landscaping and potable water sectors, including valves, drip line fittings and compression fittings. Achieving consistency in terms of dimensional stability, aesthetics and quality is of paramount importance for the company, as is reducing energy consumption and increasing productivity.

Attracted to the all-electric operation, low total cost of ownership and reliable performance of FANUC's latest-generation ROBOSHOT, the a-SiB, the company has now installed several of the machines at its 67,880m² state-of-the art factory.

Superior quality control

"The technology is ideal for low mould and machine wear, while also providing precise production parameters and calibration proficiency to suit all engineering applications," says Ercan Eren, Director of Operations at Poelsan Plastic. "In addition, the machines greatly enhance component quality in plastic materials with their advanced mechanical and thermal properties. This makes it easier to control the many details that require attention during production, helping us achieve high-quality output."

The reliability and consistency for which the ROBOSHOT is renowned – plus its impressive injection rate of 350 mm/s – again made it the perfect choice when Poelsan recently introduced a new product to its portfolio. "The manufacture of all products within the scope of our new automatic irrigation system project was designed with FANUC ROBOSHOT machines in mind," says Ercan. "We sought to achieve operational excellence from a technical perspective, while simultaneously enjoying benefits such as high energy savings and low maintenance costs."

Energy efficient operation

As an all-electric machine, energy-efficient operation is at the heart of the ROBOSHOT. Its innovative servo technology and intelligent energy recovery system means its electricity usage is up to 70% lower than equivalent hydraulic machines. Further environmental credentials include the elimination of oil treatment and disposal, and no requirement for cooling water (the machines use air instead). Moreover, less wear, fewer parts and high spares availability help it to deliver an attractive TCO.

“We always look to manufacture sustainably, without sacrificing quality,” states Filiz Dağdelen Günday, Deputy Chair of the Board of Directors for Poelsan. “Thanks to FANUC’s injection moulding technologies it has become easier to reduce costs and control quality. We are very pleased to work with FANUC as a reliable partner.”

See a video of the application here:
https://www.youtube.com/watch?v=hiAUO0wtQ8I&feature=youtu.be

NOTES FOR EDITORS

IMAGES & CAPTIONS

Image 1
A suite of FANUC all-electric ROBOSHOT injection moulding machines are processing 10,500 tonnes of plastic each year for Turkish manufacturer of plastic products Poelsan Plastic.



Image 2
The reliability and consistency for which the ROBOSHOT is renowned – plus its impressive injection rate of 350 mm/s – made it the perfect choice when Poelsan recently introduced a new product to its portfolio.



Image 3
Filiz Dağdelen Günday at Poelsan Plastic believes that thanks to FANUC's injection moulding technologies it has become easier to reduce costs and control quality.



ABOUT FANUC

The FANUC Corporation is one of the worldwide leaders in factory automation for CNC control systems, robots and production machinery (ROBODRILL, ROBOCUT and ROBOSHOT). Since 1956, FANUC is the pioneer in the development of numerically controlled machines in the automation industry. With 271 FANUC locations worldwide and more than 8,000 employees, FANUC offers a dense network in sales, technical support, research & development, logistics and customer service.

For more information, please contact:
FANUC UK Ltd, Sapphire Way, Ansty Park, COVENTRY, CV7 9DR
Phone: +44 (0) 24 7605 3130
Email: marketing@fanuc.co.uk www.fanuc.eu/uk/en

Press release issued for FANUC by FastLoop Media:



Lucy Benbow, FastLoop Media
T +44 (0)7971 987761 **E** lucy@fastloopmedia.com

Kate O'Reilly, FastLoop Media, Managing Director
T +44 (0)7894 039 609 **E** kate@fastloopmedia.com
W www.fastloopmedia.com