



www.oneplastics.com | info@oneplastics.com

Twin Shot Expertise at Tamworth Site



The Tamworth site recently completed a major twin shot (2K) production cell installation to support a growing partnership with a key customer within the construction sector.

The project centred around tooling designed to improve the design of a Drainage Riser.

The previous system relied on the supply of the riser and a separate TPE seal. The seal had to be stretched and located into a groove on the riser whilst on-site, proving both time consuming and difficult to achieve without twisting etc., particularly if wearing gloves.

The solution was to mould both the riser and the TPE seal in a single operation.

The role of OnePlastics was to specify and purchase a new twin shot 1000 tonne machine and automation cell, designed with the secondary injection unit in a horizontal configuration, i.e. at ninety degrees to the primary unit. They were also tasked with ensuring ongoing continuity of supply, even if volumes increased.



The moulding cycle involves injection of the main riser body, then transfer to a second cavity using a full servo 3-axis robot. After formation of the TPE seal, the same robot removes the finished component, whilst replacing it with the next riser body.

The riser assembly is produced on a 24/5 basis and is classed as a main line - category 'A' product in terms of its importance to the customer. For this reason, as part of an agreed contingency plan, a duplicate tool was manufactured and a second existing 1500 tonne machine retro-fitted with a secondary injection unit and automation cell. As well as ensuring continuity of service and supply, production levels can be increased as required.

If you have any twin shot or other technical projects to discuss, including gas injection and structural foam moulding, please contact our Group Business Development Manager, Stephen Goodland on 07825 078608 or stephen.goodland@oneplastics.com.