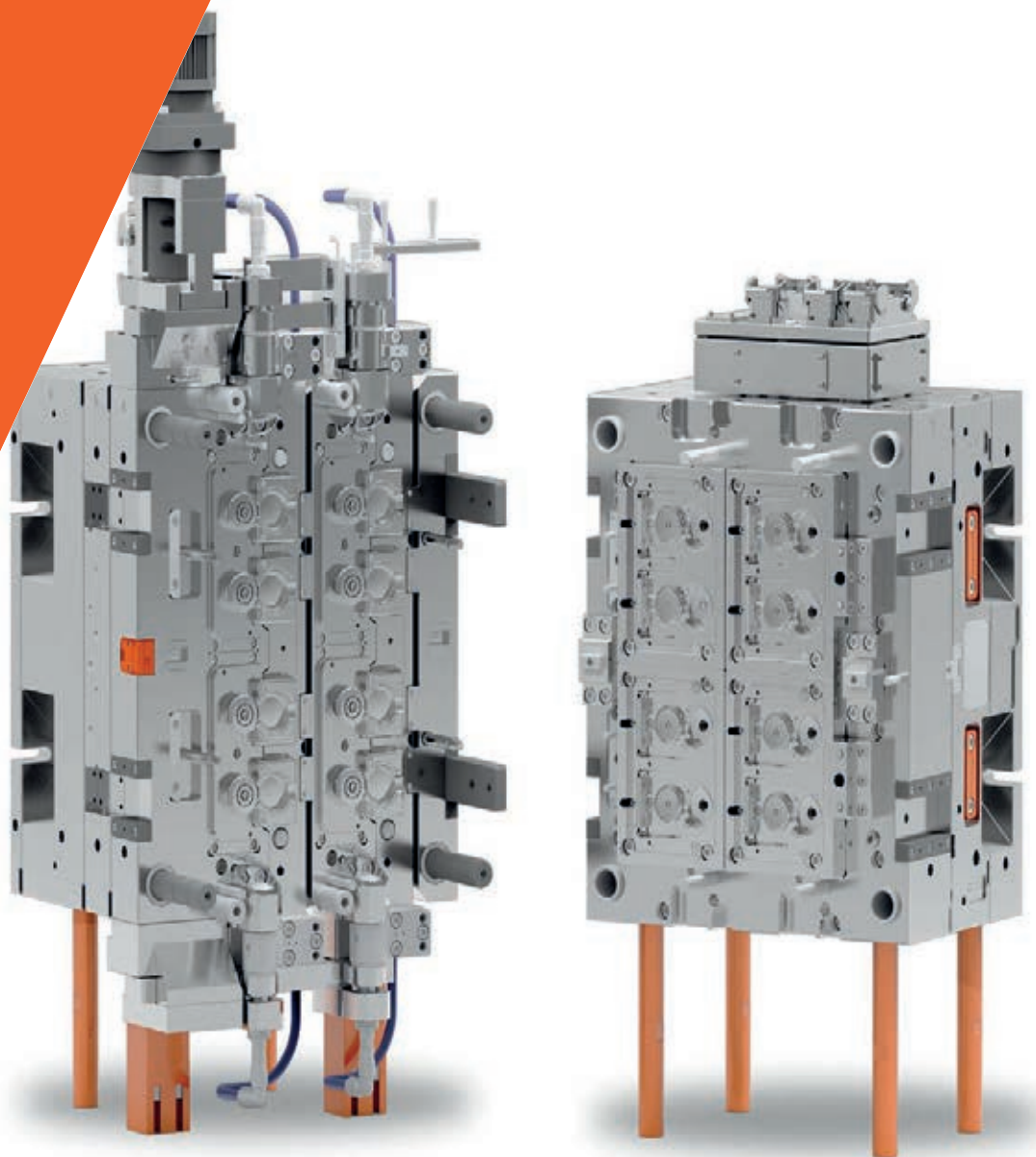




IMCC MATRIX TECHNOLOGY FOR FLIP TOP CAPS



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IMCC TECHNOLOGY BY **MATRIX**

In Mould Cavity Closing

In Mould Cavity Closing Technology has been developed by **Matrix** in order to achieve the **very fast cycle time** for Flip Top caps.

The lid closing device turns the cavity insert managed by servo drive technology, which allows us to achieve; the opening forces control, perfect closing path, high closing speed and stroke settings.

This operation can be performed immediately after mould opening, reducing therefore the total cycle time.

A very careful study of the cooling circuits, using **Moldex 3D soft**, allows Matrix to design an optimized cooling of the cavities, to reach a very fast cycle time for the Flip Top caps.

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ENGINEERING



Design work is carried out with high performance **3D-CAD/CAM** systems by **Unigraphics NX** and also **Solid Edge**. Also we are fully familiar with special engineering tasks such as filling simulations and finite element calculations using **Moldex 3D** software.

We carry out your mould trials to ensure it functions perfectly at a maximum level. We have our own injection moulding machines with clamping forces from **80t to 400t**, with **1, 2 and 3 injection units** capable of developing **3-component** projects.

PRODUCTION



Matrix Moulds are key factors in ensuring maximum productivity. It is a fact that the cavities in Matrix injection moulds are interchangeable, which is your guarantee for a reliable production.

QUALITY CONTROL



Quality department assures the steel dimensions of all the cavities and stacks. It also measures the final parts produced during the mould trials, providing you with the full dimensional report using the most advanced **CMM** and quick vision equipment.

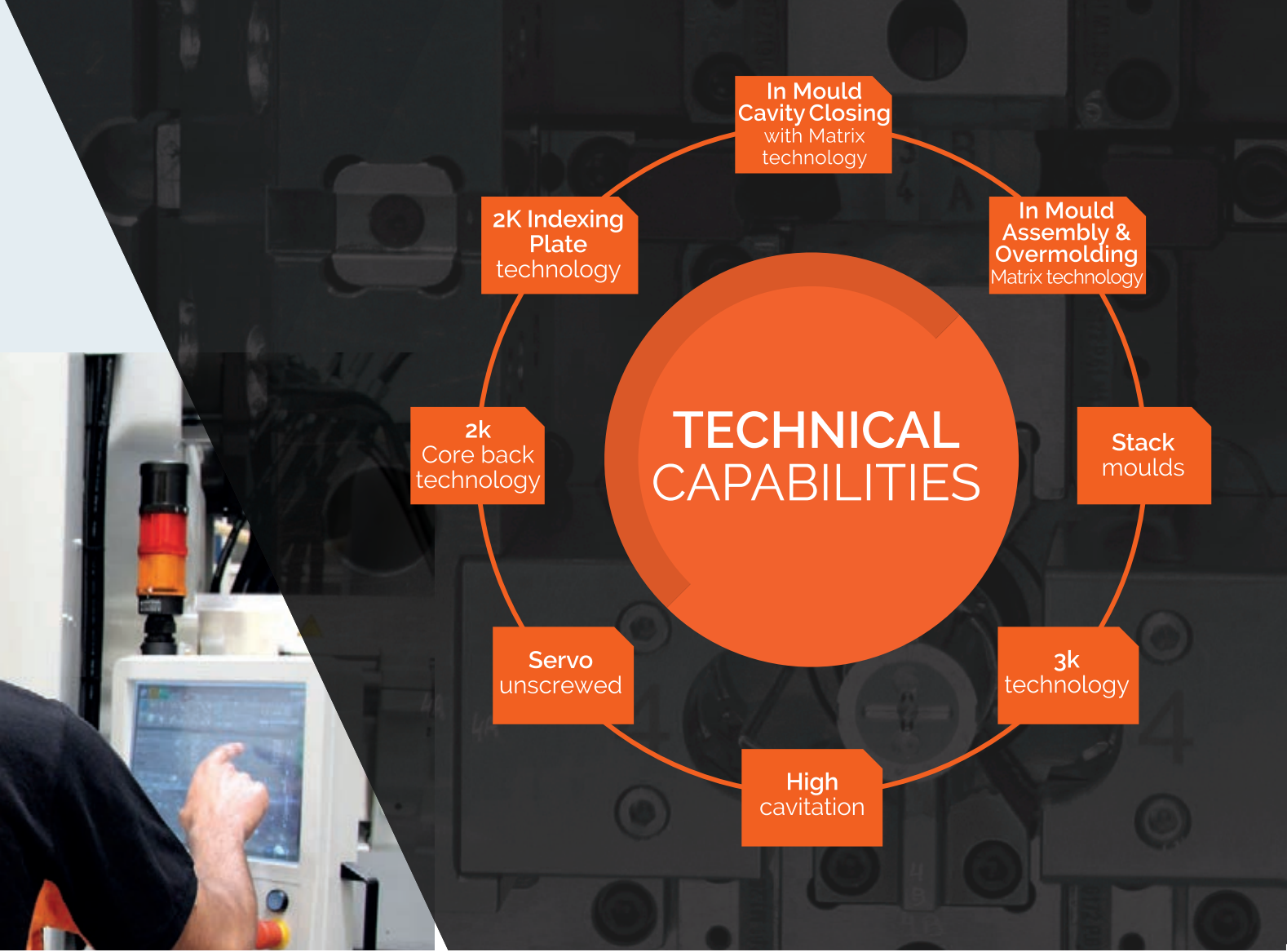
TRIALS AREA



MOULDING SOLUTIONS
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OUR TECHNICAL CAPABILITIES





HISTORY

Matrix was founded in Ripoll in 1974 in the heart of the Pyrenees. Located just 80 minutes' drive from Barcelona (Spain).

Matrix has 4.300m² facilities and 105.000 capacity hours per year and entirely climate-controlled. The main activity is to design and manufacture high precision and state of the art injection moulds with a workforce of 65 workers.

Our Know-how and experience over the last 45 years allow us to provide to our customers into the most complex projects the best and optimal moulding solutions.



We provide
customized treatment,
always meeting our
customers' needs.
It is not only our goal,
It is our duty.

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follow us



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