ERMANNO BALZI

MOULD PARTS AND COMPONENTS

MechIndex

Mechanical rotary movements

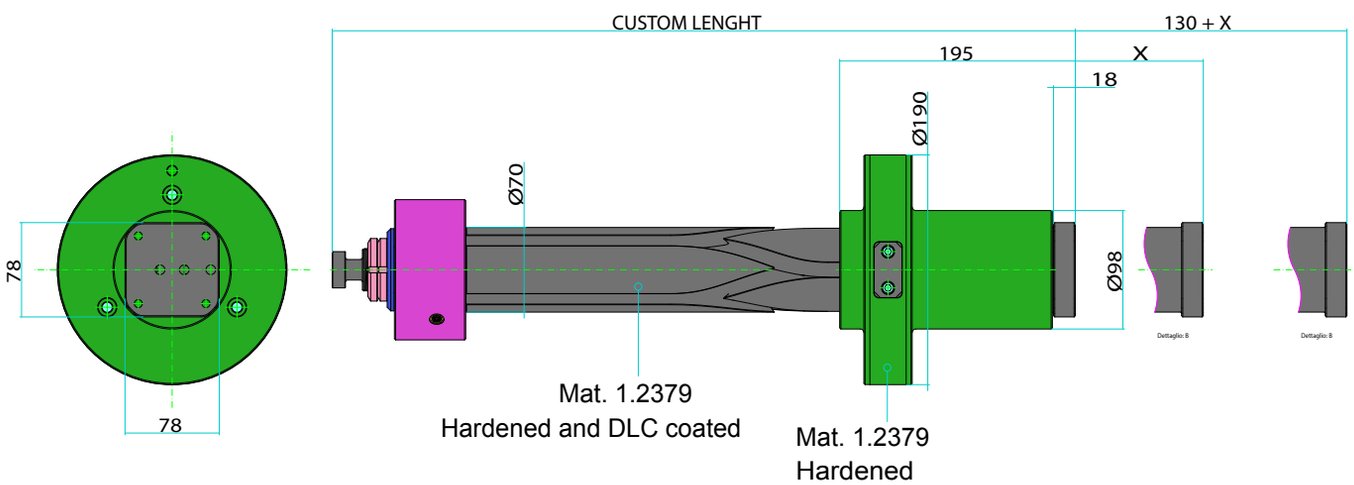
MechIndex

The **MechIndex system** is a mechanical device designed to perform rotary movements of plates within plastic injection moulds.

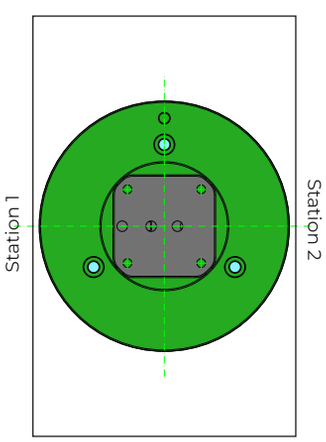
It is suitable for use both in multi-material moulds and in moulds where it is advantageous to have multiple stations for insert placement or part extraction.

Thanks to the integrated helical guides, the mechanism converts the linear motion of the press ejector into a rotary movement of the plate by 90°, 120° or 180°, depending on the selected configuration.

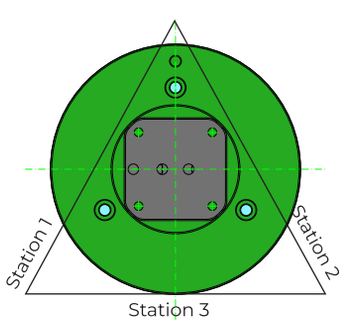
The dimensions of the **MechIndex** can be customized according to the required linear stroke X—needed for the plate to exit its housing—and the specifications of the press. On request, the system can be supplied with an integrated plate cooling unit.



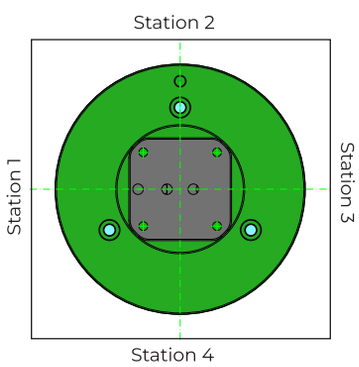
MechIndex can be configured to perform a 180°, 120°, or 90° rotation, either clockwise or counterclockwise.



180° Rotation (*2 Stations*)



120° Rotation (*3 Stations*)

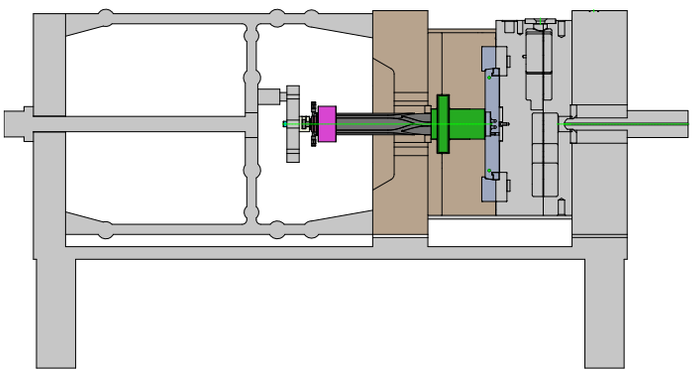


90° Rotation (*4 Stations*)

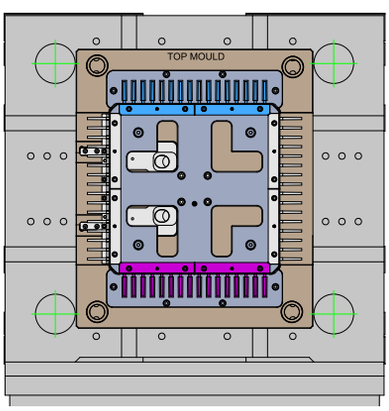
APPLICATION EXAMPLE

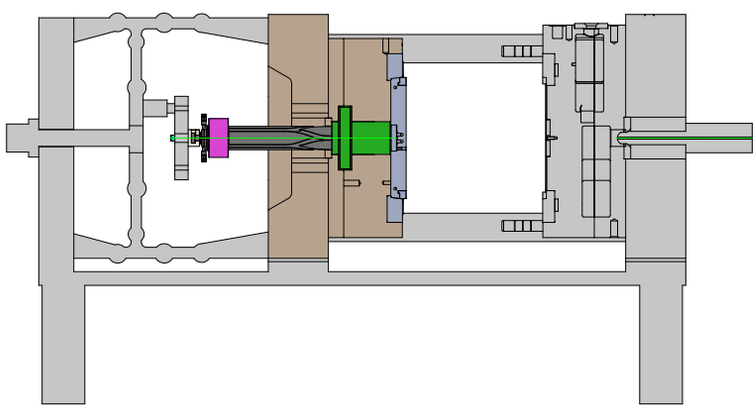
Step 1: Injection

With the mould closed, the shaft of the MechIndex, connected to the press ejection plate, is in the retracted position.



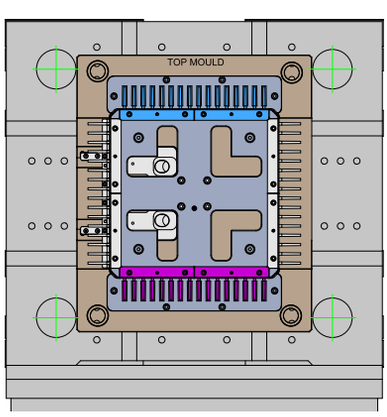
Step 2: Mould opening

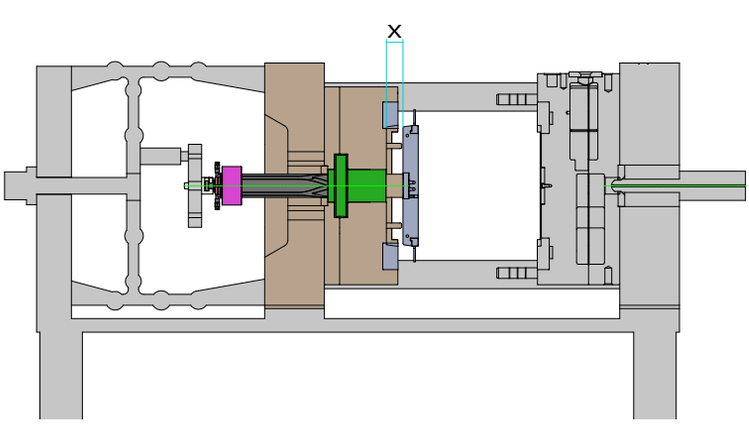




Step 3: Linear advancament of the plate

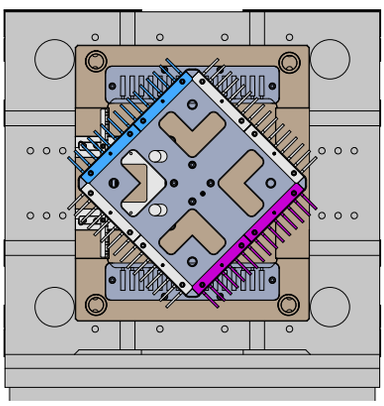
With the mould open, the press ejection plate advances by a stroke **X**, allowing the moving plate to exit its housing. The stroke **X** is defined according to the specific application.

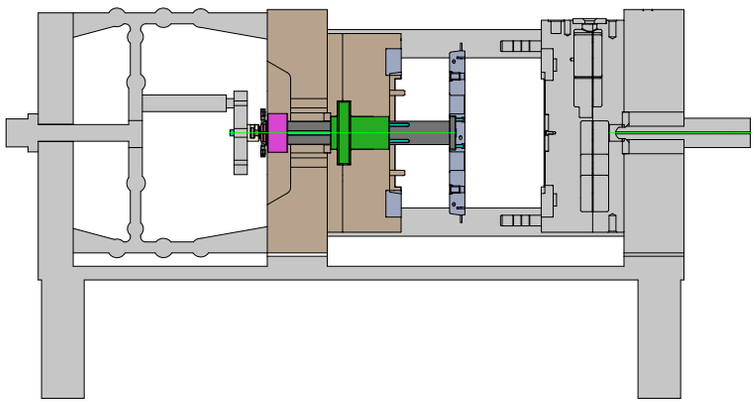




Step 4: Plate rotation

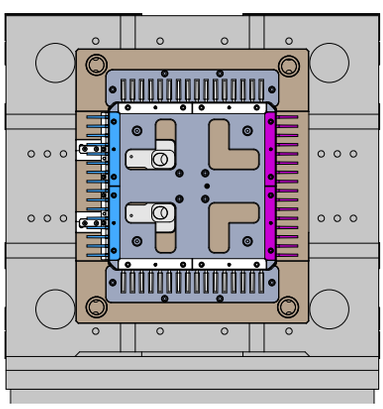
The press ejection plate continues to advance by an additional 130 mm. In this part of the stroke, the plate rotates by an angle equal to half of the total required for the station change.

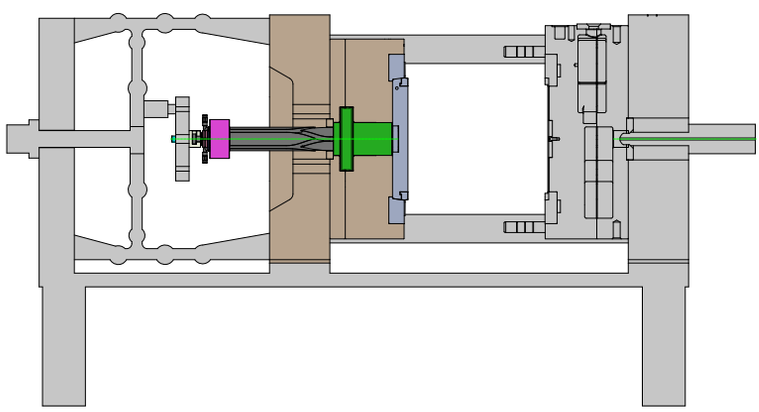




Step 5: Plate return

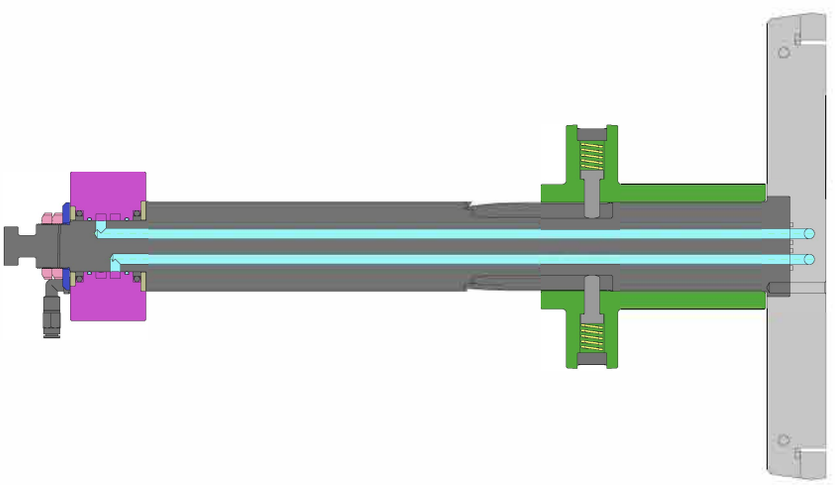
During the retraction of the ejection plate, the **MechIndex** system completes the rotation and brings the plate back into its housing.





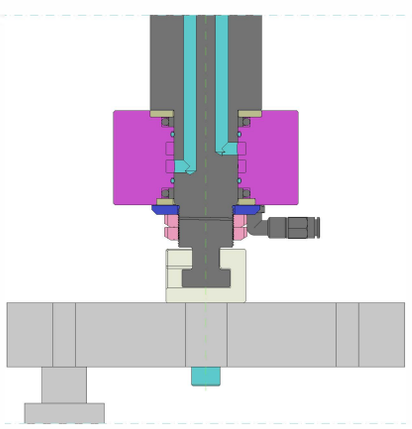
COOLING SYSTEM

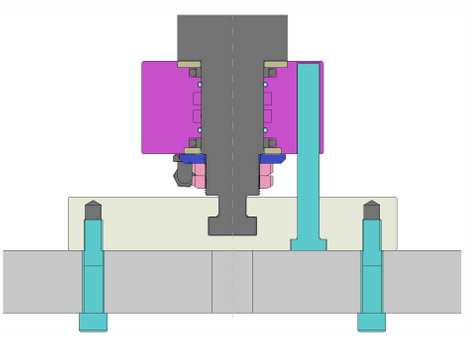
MechIndex can be supplied with an integrated cooling system capable of delivering the coolant inside the rotating plate.



CONNECTION TO THE EJECTION PLATEN

MechIndex can be easily connected to the ejection platen by means of a special plate equipped with a slot to house the “T” shank of the rod. This configuration allows the rod to rotate freely during the feed phase.





We are available to assess your specific application. Scan the QR code, fill out the form, and one of our technicians will contact you.

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MOULD PARTS AND COMPONENTS

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