

## SCM Windorflex, the machining cell for producing windows and doors

*Optimising production rhythms by maintaining high flexibility and excellent finishing: these are the strength points of the SCM automatic cell, designed to perform in a single solution all the necessary operations for windows and doors manufacturing.*

Nowadays, **design** and **eco-sustainability** are the two main trends defining wooden windows production.

The design dictates windows' finish quality and shape, while the eco-sustainability mainly involves the way as they are manufactured.

As concerns the execution of wooden windows, the level of perceived finish quality is steadily growing. Therefore, in order to **optimise production rates and flexibility**, it is essential paying significant attention to the machine constructive features.

Being a technology partner of the world's leading window and door manufacturers for seventy years gives SCM the opportunity to continuously listen to the customer's most detailed requirements and allows to constantly come up with advanced responses.

Based on these prerogatives, SCM designed **Windorflex**, the machining cell for the production of windows and doors.

Windorflex has a fixed gantry structure that enables for high machining speeds whilst ensuring the **best accuracy**.

The configurability of the machining units with 4 and 5-axis electrospindles, allows performing all the necessary operations for the **production of complete windows**, regardless of the type. The alternate use of the two routing units reduces the cycle time: while one unit is working, the other performs the tool change in masked time.

The innovative automatic worktable, available in single or double version, is equipped with dedicated clamps for the constant holding of the work-pieces. It is possible to process **from 1 to 4 work-pieces in sequence**. The worktable modularity allows managing three work-piece lengths: 3500, 4500, 6000 mm. The work-piece repositioning, from the internal side machining to the external one, is direct between the clamps, without needing additional devices, to ensure **excellent finish quality**.

Another advantage is the **automatic work-pieces loading/unloading systems** that enable the machine to work autonomously, without the continuous input of the operator. These systems are available in two solutions: with loading/unloading bench or with an anthropomorphous robot that picks up the rough elements and unloads the finished work-pieces on special trolleys.

Moreover, depending on the customer's needs, the machine can be fitted with two handling devices for the work-pieces loading, with the aim to **increase performance and productivity**, and the front loading bench, to reduce the longitudinal footprint.

The exclusive **Maestro active windoor** software, specifically developed for the control and the programming of Windorflex, is capable of meeting any demands related to windows and doors production thanks also to **Maestro connect**, the SCM IoT system.

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**Scm Group** is a global leader in technologies for machining a wide range of materials and industrial components. Across the globe, the group's companies act as highly reliable partners to leading industries in a wide range of product sectors, from furniture to construction, automotive to aerospace, and yachting to plastic machining.

Scm Group coordinates, supports and develops a system of industrial excellence in 3 large highly specialised production centres in Italy, with a turnover in excess of 750 million Euro, with 4,000 employees and a direct presence in all 5 continents.

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