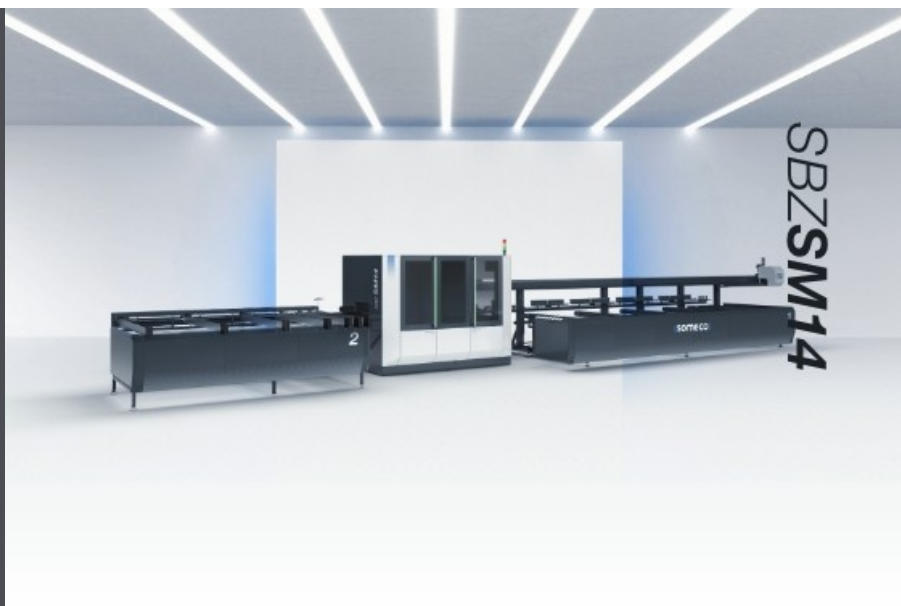


SBZ SM14

Cutting and machining
centers



Through-feed bar CNC machining centre for milling, drilling and cutting, specialising in the production of PVC window frames. SBZ SM14 consists of an automatic magazine with a profile through-feed system, complete with gripper movement for profile clamping. Thanks to the synchronised movement of the gripper and bar magazine, the feeder returns to the start position allowing the loader to prepare the next profile at the same time. The milling module e cutting module are located in the central area of the machine. There are 14 electrospindles, separated into 2 units, installed on the CNC milling module. This configuration allows significant time savings, allowing simultaneous machining on the entire edge of the workpiece, regardless of its orientation. The cutting module is equipped with a Ø 500 mm blade with CNC 3-axis horizontal movement. The unloading unit consists of a transversal belt magazine for the unloading of machined workpieces long up to 3500 mm. The machining unit is equipped with a soundproofed cabin in the central operating part which, in addition to protecting the operator, also reduces the environmental noise impact. The machine is supplied with an intuitive operator interface for machining list management connected to the production programming software. Industry 4.0 ready.

**SBZ SM14 / CUTTING AND MACHINING CENTERS****MACHINE SPECIFICATIONS**

| | |
|---|-------|
| Standard milling unit no. | 14 |
| Cutting unit | ● |
| Max. axes speed: processing (m/min) | 50 |
| Max. axes speed: saw (°/sec) | 100 |
| Max. axes speed: carrier (m/min) | 40 |
| Operating pressure (bar) | 6 ÷ 8 |
| Air consumption (NI/min) | 1.235 |
| Installed power (kW) | 14 |
| Programmable digital adjustment of the clamp pressure | ● |

WORK AREA

| | |
|---|-----|
| Minimum profile height (mm) | 40 |
| Minimum profile width (mm) | 35 |
| Maximum profile height (mm) | 130 |
| Maximum width of the profile (mm) | 130 |
| Maximum profile height machinable only cutting (mm) | 170 |

LOADING UNIT: PROFILE POSITIONING

| | |
|---|-------|
| Loading feeder with 2 controlled axes gripper | ● |
| Maximum loadable length (mm) | 6.500 |
| Maximum number of bars loadable | 11 |
| Minimum length, process for profile (mm) | 900 |
| Maximum length, process for profile (mm) | 6.000 |

MILLING UNIT

| | |
|----------------------------------|--------|
| Standard tool count | 14 |
| Tool diameter (mm) | 5 / 6 |
| Maximum speed (rpm) | 18.000 |
| Electrospindles with air cooling | ● |

**VERTICAL CUTTING UNIT**

| | |
|--|------------|
| Blade diameter (mm) | 500 |
| NC blade positioning | 30° ÷ 150° |
| Maximum machinable profile height (mm) | 170 |
| Maximum machinable profile width (mm) | 130 |
| Minimum cutting length (mm) | 370 |
| Maximum cutting length (mm) | 3.500 |

DIMENSION AND WEIGHT

| | |
|-------------|--------|
| Height (mm) | 2.500 |
| Width (mm) | 3.375 |
| Length (mm) | 16.600 |
| Weight (kg) | 5.500 |

UNLOADING UNIT

| | |
|--|---|
| Belt unloading magazine for workpieces of up to 3.500 mm | ● |
|--|---|

SWarf EVACUATION

| | |
|--|---|
| Belt for conveying swarf and short cuts to collector bag | ● |
|--|---|

COMMAND FEATURES

| | |
|-------------------------------------|---|
| Industrial PC panel | ● |
| Windows operating system | ● |
| Graphic colour display TFT 15" | ● |
| Graphic operator interface software | ● |
| Touch screen functions | ● |
| Label printer | ● |
| USB ports | ● |
| Lan card RJ45 or Wi-Fi | ● |

Included ● Available ○