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SBZ SM14

THROUGH FEED PROCESSING 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 2-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.

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The right to make technical alterations is reserved.

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SBZ SM14 / THROUGH FEED PROCESSING 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 (Nl/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	●

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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 ○

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