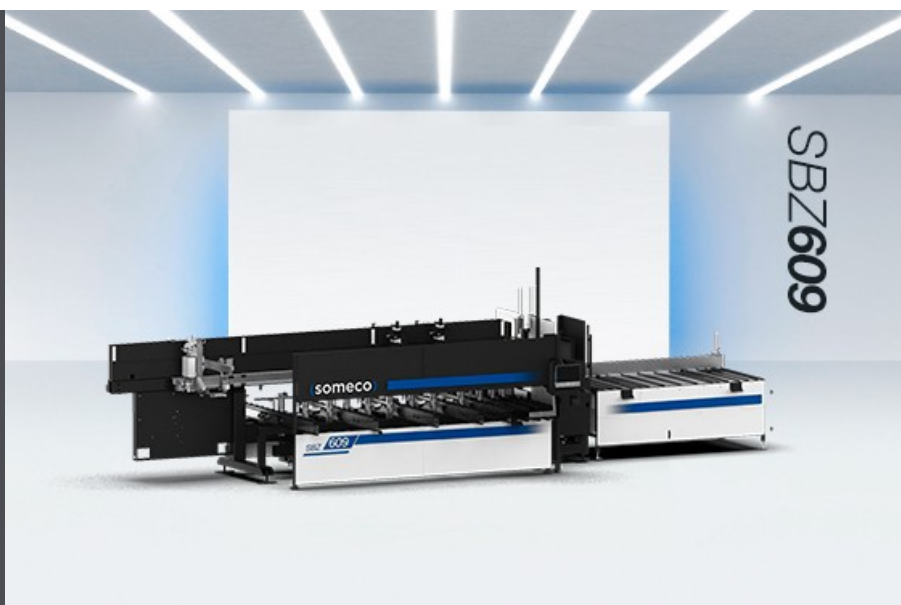


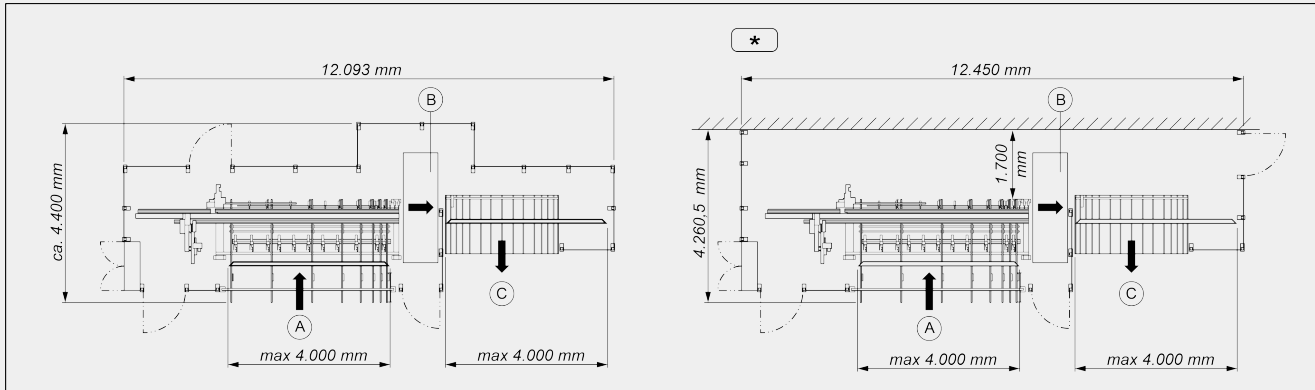
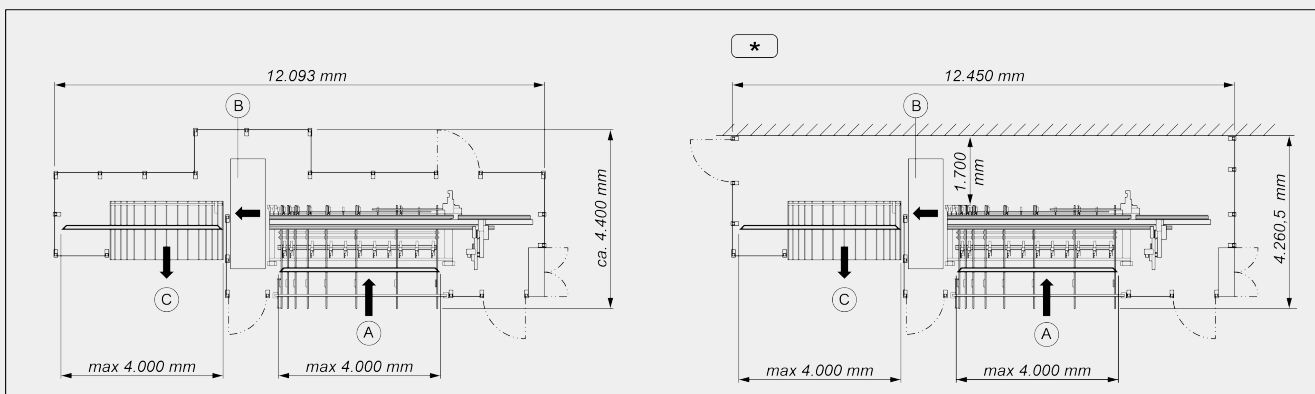


SBZ 609

Cutting and machining
centers



A fast downstream centre for reinforcement screw driving, drilling and routing cut-to-length profiles for window and door manufacturing with and without steel reinforcement. Portal design for high profile cross-sections and process-optimised throughfeed. Additional efficiency through parallel processing by external reinforcement screwdriver system. Work sequence as needed, either from the left towards the right or the reverse. Infeed with motorised, continuously adjustable gripper. Lifting function for gap-free loading of the feed magazine. Profiles are guided on rollers to ensure gentle treatment of the profile and protective film as well as completion of long machining operations without re-clamping. Simultaneous reinforcement screw driving through external screw driving station. Internal gripper avoids damaging the profiles. Integrated measuring sensors for part length monitoring. Outfeed for parts via discharge table. Industrial PC with Windows operating system. Barcode scanner. Options: outfeed for parts via a belt conveyor protects profiles and offers different capacities; additional reinforcement screwdriver units for multiple types of screws; upending unit for profiles that are difficult to clamp; reinforcement screwdriver unit with controlled servo drive for screw tightening with a gentle touch; noise abatement enclosure.

LAYOUT
Left version (left to right)

Right version (right to left)


- A - Loading magazine
- B - Machining unit
- C - Unloading magazine
- * - Standard version

The overall dimensions may vary depending on the product configuration.

AXIS TRAVEL

| | |
|--|-------|
| Y AXIS (transversal) (mm) | 370 |
| Z AXIS (vertical) (mm) | 270 |
| X AXIS (bar positioning) (mm) | 5.620 |
| Y1 AXIS (gripper transversal positioning) (mm) | 130 |
| Z1 AXIS (gripper vertical positioning) (mm) | 145 |
| A1 AXIS (pliers rotation) | 280° |

WORKABLE SIDES

| | |
|-------------------------------------|-----------|
| Number of faces (top, side, bottom) | 1 + 2 + 1 |
|-------------------------------------|-----------|

LOADING UNIT: PROFILE POSITIONING

| | |
|--|-----------|
| Workpiece reference stop near the working unit | ● |
| Maximum loadable length (mm) | 4.000 |
| Belt loading magazine for 14 profiles with a length varying from 350 mm to 4.000 mm, max. weight 40 kg | ● |
| Loading feeder with 2 controlled axes for workpieces of up to 4.000 mm with gripper | ● |
| Electronically controlled 0 - 180° collet rotation (C1 axis) | ● |
| Minimum machinable profile section W x H (mm) | 30 x 30 |
| Maximum profile height W x H (mm) | 135 x 205 |

WORKPIECE LOCKING

| | |
|---|---|
| Automatic fixed clamping system before machining area | ● |
| Automatic fixed clamping system after machining area | ● |
| Clamping system standard, high 20 mm | ● |
| Clamping system for profile adapted to profile system | ○ |

FUNCTIONS

| | |
|--|---|
| Screwing operation for reinforcement steel | ● |
| Upstream screwdriver rear/front including screw feeding | ● |
| Milling, drilling operations of the piece direct from the profiled bar | ○ |
| Hand held scanner for bar code | ● |
| Rotary axis gripper | ● |
| Blow-off devices per additional working unit | ○ |
| Tool package 16 units | ○ |

SUPPORT BASE

| | |
|--|---|
| Monolithic in electrowelded and standardised steel | ● |
|--|---|

UNLOADING UNIT

| | |
|---|-------|
| Unloading table with a pneumatic pusher for workpieces of up to 4000 mm | ● |
| Belt magazine unloading depth (mm) | 1.900 |

ELECTRIC CABINET COOLING

| | |
|---|---|
| Electrical cabinet with air conditioner for operating temperature < 45 °C | ● |
| Electrical panel and CN conditioner for operating temperatures < 50°C | ○ |

ELECTROSPINDLES FOR PVC MILLING (MANUAL CHANGE)

| | |
|--------------------------|--------|
| Maximum power in S6 (kW) | 0,75 |
| Maximum speed (rpm) | 16.300 |
| Maximum diameter (mm) | 12 |

ELECTROSPINDLES FOR HANDLE DRILLING (MANUAL CHANGE)

| | |
|---|--------------|
| Maximum power in S6 (kW) | 1,6 |
| Maximum speed (rpm) | 2.456 |
| Maximum diameter for 3-Spindels (mm max.) | 12 / 14 / 12 |

ELECTROSPINDLES FOR SMALL DIAMETER PVC & STEEL (MANUAL CHANGE) OPTIONAL

| | |
|--------------------------|-------|
| Maximum power in S6 (kW) | 1,2 |
| Maximum speed (rpm) | 9.820 |
| Maximum diameter (mm) | 12 |

ELECTROSPINDLES FOR END MILLING (MANUAL CHANGE) OPTIONAL

| | |
|--------------------------|-------|
| Maximum power in S6 (kW) | 1,2 |
| Maximum speed (rpm) | 5.600 |
| Maximum diameter (mm) | 160 |

Included ● Available ○