



SBZ 610/15

Cutting and machining
centers



This all-rounder offers maximum flexibility as a profile machining centre. Total profile machining of profiles without steel reinforcement. Profile machining centre with five built-in units for cutting to length, drilling and routing profiles for window, door and curtain wall manufacturing without steel reinforcement and with screwed transom connections. 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. Optimised length cutting with no processing waste. Internal gripper avoids damaging the profiles. Integrated measuring sensors for residual piece detection. Outfeed for parts via discharge table. Industrial PC with Windows operating system. Options: outfeed for parts via a belt conveyor protects profiles and offers different capacities; upending unit for profiles that are difficult to clamp.

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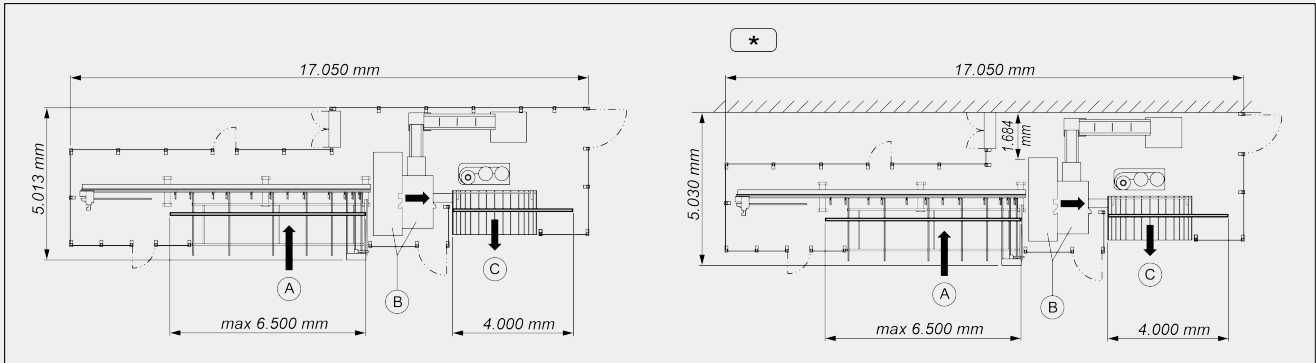
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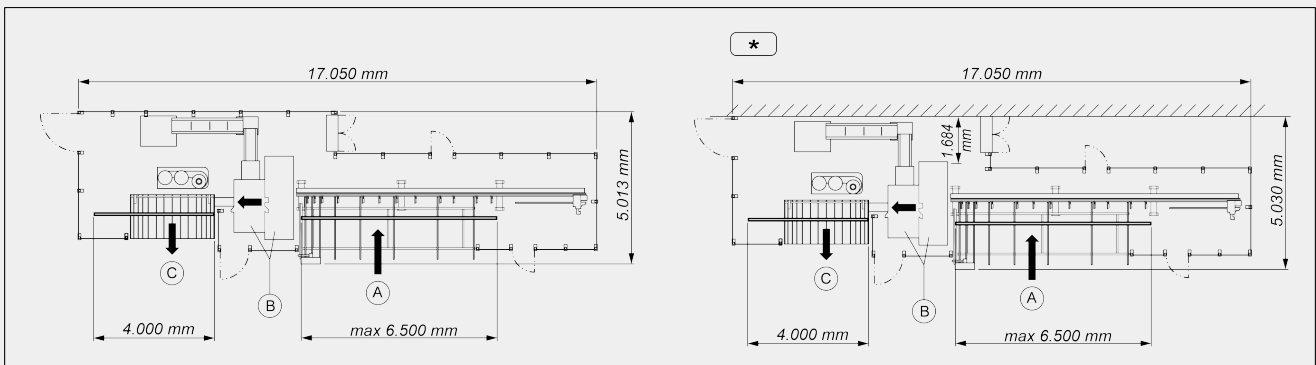


LAYOUT

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)	6.500
Y1 AXIS (grripper transversal positioning) (mm)	130
Z1 AXIS (grripper vertical positioning) (mm)	145
A1 AXIS (pliers rotation)	280°

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MACHINABLE CUTTING ANGLES

Fixed cutting angle frontal	45° / 90° / 135°
Fixed cutting angle backside	45° / 135°

WORKABLE SIDES

Number of faces (top, side, bottom)	1 + 2 + 1
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LOADING UNIT: PROFILE POSITIONING

Workpiece reference stop near the working unit	<input checked="" type="checkbox"/>
Maximum loadable length (mm)	6.500
Belt loading magazine for 10 profiles with a length varying from 500 mm to 6.500 mm	<input checked="" type="checkbox"/>
Electronically controlled 0 - 360° collet rotation (C1 axis)	<input checked="" type="checkbox"/>
Minimum machinable profile section W x H (mm)	30 x 30
Maximum profile height W x H (mm)	135 x 205

WORKPIECE LOCKING

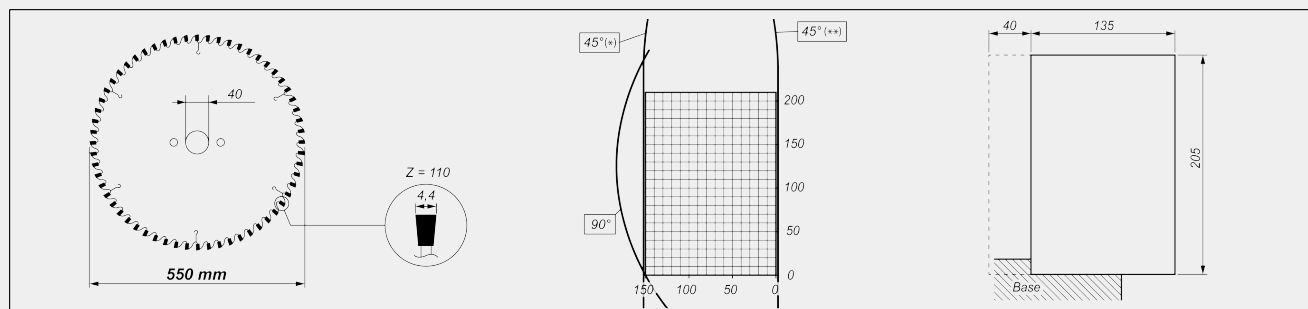
Automatic fixed clamping system before machining area	<input checked="" type="checkbox"/>
Automatic fixed clamping system after machining area	<input checked="" type="checkbox"/>
Clamping system standard, high 20 mm	<input checked="" type="checkbox"/>
Clamping system for profile adapted to profile system	<input type="checkbox"/>

FUNCTIONS

Milling, drilling PVC operations for profiled bar	<input checked="" type="checkbox"/>
Label printer	<input type="checkbox"/>
Rotary axis gripper	<input checked="" type="checkbox"/>

CUTTING MOTORS (MANUAL CHANGE)

Maximum power rating in S6 (kW)	4
Maximum speed (r.p.m.)	2.850
Fixed cutting angle frontal	45° / 90° / 135°
Fixed cutting angle backside	45° / 135°

CUTTING DIAGRAM


(*) frontal (**) backside

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

UNLOADING UNIT

Unloading table with a pneumatic pusher for workpieces of up to 4000 mm	<input type="radio"/>
Belt magazine unloading depth (mm)	1.900

ELECTRIC CABINET COOLING

Electrical cabinet with air conditioner for operating temperature < 45 °C	<input checked="" type="radio"/>
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Included ● Available ○

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