

schtec Profile Machining and Cutting Centers



SVMC 120

Profile Machining and Cutting Center (3 Cutting Saw – V Type)

Standard Features

- Infeed magazine, 11 pieces can be loaded on the machine. (Max. length 6.5 m)
- Simultaneous optimization on the machine allows the machine to self-optimize on the waste profiles, this can be switch between
- FDS control and machine control.
- Height and width detection to ensure correct profile is loaded.
- New design of loading station allows profiles to be loaded simultaneously, this feature increase the efficiency of profile changeovers.
- The 4-axis routing portal comprises of 11 high speed routing motors utilising 5mm & 8mm cutters at 0, 90, 180 & 270 degrees plus 3, servo-driven angle router motors with 5mm cutters for multiple profile suites with different rebate drainage angles.
- This allows the SVMC120 to produce all preps in PVC profiles such as drainage, spot marking, euro-cylinder holes, night vents, hinge holes, handle holes, euro groove routing etc.
- Highly efficient simultaneous routing operations on 4-axis routing portal, allowing machining from the top and bottom concurrently for door handles and night vents etc.
- All angles between 30 - 150 degrees are cut with 0.1 degree accuracy with servo axis controlled 500 mm diameter saw.
- Newly designed double clamping system to stabilise both the bevel and rebate with individual clamps and profile specific software controlled variable clamping pressures on each of the 4 sawing clamps.
- Software controlled transom support for Z & T profiles
- Private HMI software developed by Schtec Software Department allows different kinds of window design program data files to be uploaded on machine, fully compatible with established UK software BM and First Degree.
- All alarms and machine faults are displayed on HMI along with solutions.
- 15" Touch Screen and high-performance industrial PC with Windows Embedded system.
- Industrial PC Based Servo Control System (Beckhoff)
- Online diagnostic and troubleshooting via user friendly interface.
- File transfer by USB or ethernet network and remote desktop connection by Wi-Fi or Ethernet connection
- Central lubrication system reduces the time spent for maintenance.
- Scrap conveyor under saw and extraction ports on all saw blade cowls.
- Capacity 100-110 frames per 8 hour shift depending on complexity (timings based on 14 piece top over fixed next to a side light) Approximately 1 piece every 18.6 seconds.

Technical Specifications

Voltage	: 400 V, 3 PH, 50-60Hz	Scrap length in frontal basket waste	: > 400 mm
Power Consumption	: 13.6 kW, 34 A (Max Consumption)	Shorter cutting length discharged on unloading	: >320 mm (*)
Average Power Consumption	: 10.4 kW, 26 A	Longer cutting length discharged on loading	: > 4.000 mm (*)
Max. Profile Height	: 160 mm	Tool Count	: 11 high-speed air-cooling spindles
Max. Profile Height (V)	: 82 mm	Saw Diameter	: D= 500 mm d=30mm (Main Saw)
Min. Profile Height	: 40 mm	Saw Diameter (V Notch)	: D= 300 mm d=30mm (x2)
Max. Profile Width	: 130 mm	Max Tool rpm	: 18.000 rpm
Max. Profile Width (V)	: 125 mm	Max. Axes Speed (Processing)	: 50 m/min
Min. Profile Width	: 35 mm	Max. Axes Speed (Saw)	: 100 °/sec
Min. Cutting Depth (V)	: 15 mm	Max. Axes Speed (Carrier)	: 40 m/min
Max. Profile Bar Length	: 6.500 mm	Air Pressure	: 6-7 Bar
Max. Process Length for Profile	: 6.000 mm	Air Consumption	: 1480lt /min
Maximum Cutting Length	: 3.500 mm (can be increased when it needs)	Voltage	: 400 V, 3 PH, 50-60Hz
Minimum Cutting Length	: 320 mm	Machine Height	: 2.200 mm
Min. Process Length for Profile	: 600 mm	Machine Width	: 3.450 mm
Shorter scrap into rear waste basket	: 275 mm	Machine Weight	: 5.350 kg
		Machine Length	: 16.800 mm