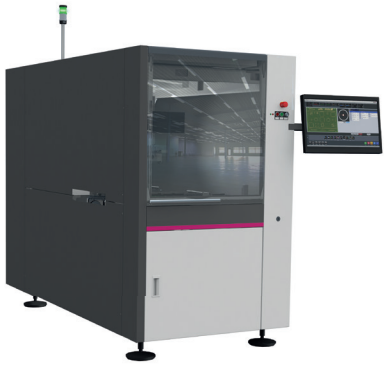
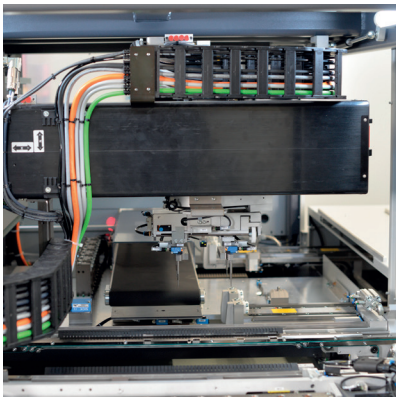
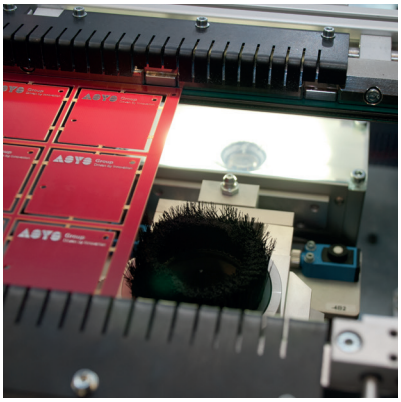
Automatic Depaneling System

DIVISIO 5000 Series

DIVISIO 5000/5100







Description

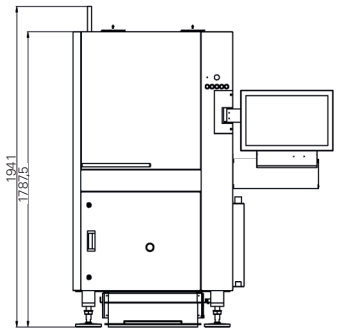
The DIVISIO 5000/5100 is top of its class in flexible, high-speed depaneling systems.
The machine is only 1000mm / 1200mm long and has a working area of 330mmx350mm / 460mmx460mm. The modular frame construction leaves enough room for installation of for example a carrier circulating system or an underfloor conveyor with integrated lift device. The machine consists of 2 lanes which can be configured according to the customer's demands. The PCB panel enters the machine on lane 1 where it is routed and the routed PCBs are subsequently transferred via a gripper to lane 2. The handling gripper axis is made of carbon fiber reinforced plastic, ensuring high stiffness and accuracy.

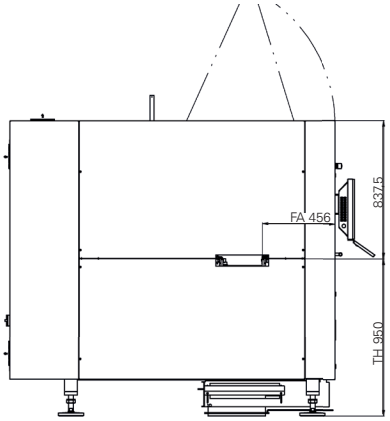
Features

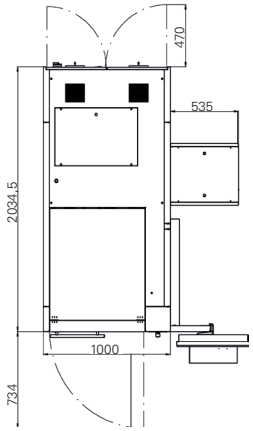
_ Positioning system with CFK- Axis
_ Linear motor and linear measurement system in X and Y axes
_ Ionisation unit
_Automatic tool change
_Complete tool management
+ Breakage control
+ Length verification
+ Diameter check
+ Life span monitoring
+ Dynamic utilization of full router bit
_ Automatic maintenance schedule

Options

_ Automatic gripper finger changeover
_Camera system
+ Fiducial recognition
+ Cut control
+ Program creation with teach function
+ Camera correction
+ Bad mark recognition
+ Code reading
_Vacuum exhaust system
_Manual suction unit
_Low pressure control
_ Automatic product changing
_ ASYCAM CAD data import
_ Customer-specific transport modules
_ Customer specific data interface
_ Global remote control
_ Switch cabinet on top, on side or detached







DIVISIO 5000/5100

	DIVISIO 5000	DIVISIO 5100
	Routing	**Routing**
Machine Configuration		
Transport height	850 mm ± 50 mm	850 mm ± 50 mm
Max. transport width	**330 mm**	**460 mm**
Interface	Siemens, SMEMA	Siemens, SMEMA
Transfer direction	From left to right	From left to right
Operating side	Front of the machine	Front of the machine
Fixed rail	Front of the machine	Front of the machine
Panel Dimensions		
Panel length	70 to 350 mm	70 to 460 mm (508 mm)
Panel width	70 to 330 mm	50 to 460 mm
Panel thickness	0.8 to 5.0 mm	
Panel weight max.	4 kg	
PCB weight max.	1,5 kg	
Component height, spindle-side	8 mm; partial 18 mm (other height on request)	
Component height, gripper-side	40 mm	
Trays on lane 2	400 x 300 mm	600 x 400 mm
Installation Requirements		
Power supply	400 V, 208V 50 / 60 Hz, ± 10%	
Power supply system	3L + N + PE	
Fuse protection	3 x C32 A without ELCB	
Power consumption	3,6 kW	
Air supply	6 bar	
Air consumption	120 Nl/min	
Machine Description		
Length x Width x Height	1000 x 2035 x 1688 mm	1200 x 2265 x 1688 mm
With switch cabinet on top (option)	3120 mm	3020 mm
Weight	1800 kg (standard equipped)	1900 kg (standard equipped)
Speed	X,Y= 2000 mm/sec, Z= 1000 mm/sec	
Acceleration	X,Y= 15 m/s², Z= 15 m/s²	
Positioning	± 0,02 mm (20°C ±1°C)	
Repeatability	± 0,005 mm (20°C ±1°C)	
Cut accuracy	± 0,08 mm with Vision System (20°C ±1°C) ± 0,12 mm without Vision System (20°C ±1°C)	
Noise Level	< 75 dB(A) (possible deviations due to material mix of the panel)	
Upgrades		
Machine networking via IC Net		

ASYS GROUP

ASYS Automatisierungssysteme GmbH
Benzstrasse 10,
89160 Dornstadt, Germany
Tel (+49) 7348 9855 0
Fax (+49) 7348 9855 91
info@asys.de

For more information visit
www.asys-group.com