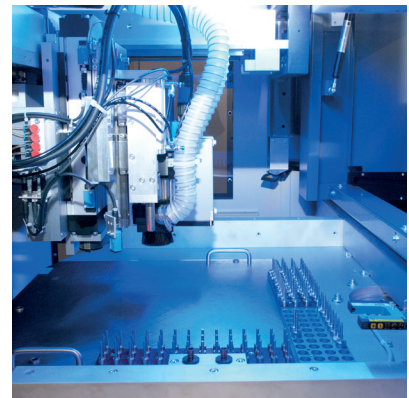
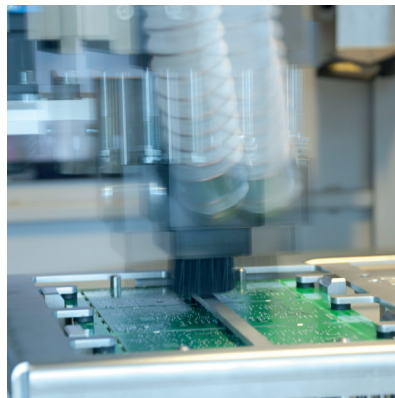
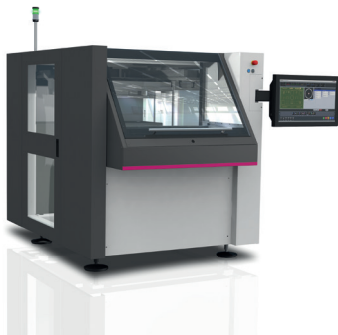


DIVISIO 2000/2100/2300



Description

All systems of the DIVISIO 2000 Series can optionally be equipped with a robot interface. This interface allows the semi-automatic systems to be loaded and unloaded fully automatically.

The **DIVISIO 2000** is a semi-automatic system for stress-free depaneling of PCBs. The X- and the Y-axes are both equipped with highly dynamic linear motor technology, the Z-axis is servo-driven. Already existing product carrier adapters can easily be used with this machine. The vacuum system is optimized with the help of the Tornado-Effect.

The system offers a cost-efficient solution for customers who wish to depanel stress-free but who do not produce such a high volume to justify the acquisition of an inline machine. By positioning the routing axis either above or below the electrically driven rotary table the **DIVISIO 2100** has the flexibility to represent a verified production process. It can therefore be used without any restrictions as back-up for the inline production.

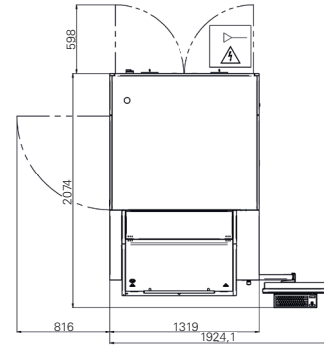
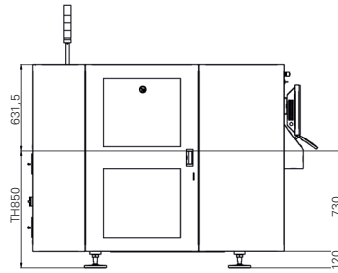
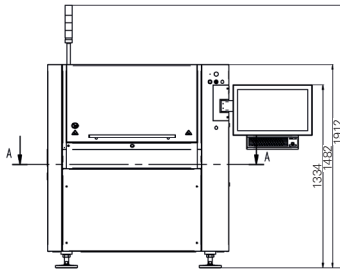
The **DIVISIO 2300** commands the largest working area within the entire DIVISIO depaneling systems.

Features

- _ Linear motors for highest dynamics and accuracy
- _ Rotary-table with two working areas
- _ Touch screen monitor
- _ SIMPLEX HMI offers comfortable operation
- _ Ionization unit
- _ Automatic tool change with 2 routers per magazine
- _ Complete tool management
 - + Breakage control
 - + Length verification
 - + Diameter check
 - + Life span monitoring
 - + Dynamic utilization of full router bit
- _ Automatic maintenance schedule

Options

- _ Routing module (from top / bottom) or sawing unit (from top)
- _ Robot interface
- _ Program creation with ASYCAM CAD import
- _ Camera system
 - + Fiducial recognition
 - + Cut inspection
 - + Program creation with teach function
 - + Correction Function
 - + Bad mark recognition
 - + Code reading
- _ Dust extraction
- _ Manual suction unit
- _ Low pressure control
- _ Adapter technology:
 - + Product-specific adapters
 - + Magnetic pin placement
 - + Adapter coding for up to 255 adapters
- _ Upgrade of automated router bit change to 8 bits
- _ Traceability function
- _ MES Interface



DIVISIO 2000/2100/2300

	DIVISIO 2000	DIVISIO 2100	DIVISIO 2300
	Routing	Routing and/or Sawing	Routing
Machine Configuration			
Transport height	850 mm ± 50 mm	850 mm ± 50 mm	850 mm ± 50 mm
Operating side	Front of the machine	Front of the machine	Front of the machine
Panel (max. LxB)	460 x 360 mm	460 x 460 mm	720 x 500 mm
Routing from top	460 x 360 mm	460 x 460 mm	720 x 500 mm
Routing from bottom	-	460 x 460 mm	-
Sawing from top in Y or X	-	460 x 460 mm (Option)	-
Sawing from top in X and Y	-	460 x 360 mm (Option)	-
NC-Axis	X/Y/Z- Axis		
Panel Dimensions			
Panel length	50 to 460 mm	50 to 460 mm (508 mm)	50 mm to 720 mm
Panel width	50 to 360 mm	50 to 460 mm	50 mm to 500 mm
Panel thickness	0.5 to 4.5 mm		
Panel weight max.	4.5 kg		
Component height, spindle-side	8 mm; partial 18 mm (other height on request)		
Component height, adapter-side	40 mm; partial 70 mm (depending of fixing pins)		
Installation Requirements			
Power supply	400 V, 208 V 50 / 60 Hz, ± 10%		
Power supply system	3L + N + PE		
Fuse protection	3 x C16 A without ELCB		
Power consumption (without suction)	0.4 kW	0.5 kW	0.7 kW
Air supply	6 bar		
Air consumption	120 NI/min		
Machine Description			
Length x Width x Height	1320 x 1970 x 1480 mm	1620 x 2270 x 1480 mm	1880 x 2796 x 1522 mm
Weight	1150 kg (standard equipped)		
Axis speed max.	X,Y= 2000 mm/s, Z= 1000 mm/s		
Axis acceleration max.	X,Y= 20 m/s ² , Z= 15 m/s ²		
Positioning	≤ ± 0.01 mm (20°C ±1°C)		
Repeatability	≤ ± 0.005 mm (20°C ±1°C)		
Depaneling accuracy	± 0.08 mm with Vision System (20°C ±1°C) ± 0.12 mm without Vision System (20°C ±1°C)		
Noise	< 75 dB(A) (possible deviations due to material mix of the panel)		