DIVISIO Series – Depaneling Division

ASYS Expands Its Broad Spectrum of Depaneling Systems

ASYS provides a broad product line of depaneling solutions that range from semi-automatic to high-end inline systems. All DIVISIO Series machines utilize the latest linear motor technology and are ergonomically designed with particular focus on reliability, easy operation and reduced footprint.

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** provides cost-efficient and stress-free depaneling for small batches. The system can therefore be used without any restrictions as a back-up for inline production.
The routing axis of the depaneling system **DIVISIO 2100** can be positioned either above or below the electrically driven rotary table.
The **DIVISIO 2300** commands the largest working area within the entire DIVISIO depaneling systems.

The **DIVISIO 3100** is a highly compact depaneling system for cutting single-row panels. The sawing unit/spindle is mounted on the linear motor driven XY-axis. An optional camera system can be integrated for fiducial recognition and automatic cut inspection.

The **DIVISIO 4000** is an automatic inline system for high volumes and a small product mix. Arriving panels are transferred to a conveyor, lifted and then picked up by the gripper adapter. The cutting module (spindle or saw) is mounted in a fixed position. Different conveyors can be integrated.

With the further development of the **DIVISIO 5100** we have arrived at the 5th generation. The flexible depaneling platform interprets its own status and can be adapted to any requirement: with manual removal, as an inline system, connected to final assembly or as a fully autonomous production island. Smart interfaces automatically initiate the resulting faster product changeover. Numerous functions such as needs-based maintenance cycles, automatic setup changeover, reduced cycle time, digital copy for offline programming or camera systems enable 70% faster setup. As a result, you can produce up to 150,000 more parts per year with the system. You also increase production time by 4 hours to 20.5 shifts per week - uninterrupted and fully autonomous.

The **DIVISIO 6000** is a high dynamic depaneling system for maximum throughput rates. In addition to the high throughput, a modular system enables the integration of final assembly processes. The modular design provides a wide range of freedom. The functional areas for ‘depaneling’ and ‘feeding to follow-up process’ are supplemented with a new, additional functional area which enables simple adaptation to speed or process applications.

ASYS GROUP

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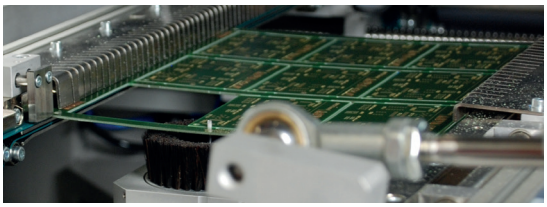

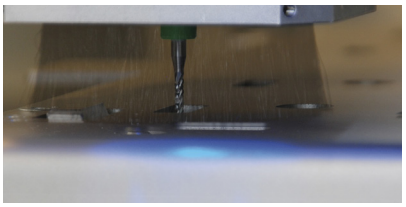

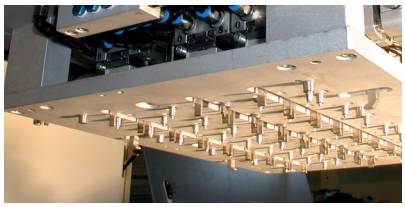

Model Overview and Options

			DIVISIO 2000	DIVISIO 2100	DIVISIO 2300	DIVISIO 3100	DIVISIO 4000	DIVISIO 5100	DIVISIO 6000
Technical	PCB Panel (max. LxW in mm)[1]		460x360	460x460	720x500	360x330	460x350	460x460	460x460
	Machine dimensions (LxWxH in mm)[1]		1320x1970 x1480	1620x2270 x1480	1880x2796 x1522	1000x1600 x1580	1300x1940 x1760	1200x2360 x2152	costomized
	Routing	from above	✖	✖	✖	✖			
		from below		○			✖	✖	✖
	Sawing	from above		○		○			
		from below					○		
	NC-Axes		X/Y/Z	X/Y/Z	X/Y/Z	X/Y/Z	X/Y/Z	X/Y/Z	X/Y/Z
	Handling Axes							1x Carbon	2x Carbon
Routing Unit	Spindle 500 W		○	○	○	○	○	✖	○
	Length / Diameter check		✖/✖	✖/✖	✖/✖	✖/✖		✖/○	✖/✖
	Lifetime monitoring		✖	✖	✖	✖	✖	✖	✖
	Different cutting hights		✖	✖	✖	✖	✖	✖	✖
	Breakage control		✖	✖	✖	✖	✖	✖	✖
	Tool management		✖	✖	✖	✖	✖	✖	✖
	Router bit monitoring	length	✖	✖	✖	✖		✖	✖
		diameter	✖	✖	✖	✖		✖	✖
	Router bit disposal		○	○	○		○	✖	○
	Auto router exchange with	2-up / 8-up mag.	✖/○	✖/○	✖/○	✖/○		- /✖	
		14-up / 20-up mag.					✖/-	○/○	✖/-
Sawing Unit	Adjust saw, 0° or 90°	Manual		○					
		Auto[2]		○[2]			✖		
	Saw blade break monitoring			○		○	○		
	Autom. hold-down, 0°- 90°			○					
	Quick changeover system[3]			○					
Tools	ADA / ADA coding		○/○	○/○	○/○				
	ADF / ADF coding							○/○	○/○
	ADF check function							○	○
	ADG / ADG coding						○/✖		
Setup	Offline programming tool		○	○	○		○	○	○
	ASYCam		○	○	○	○	○	○	○
	Setup by tablet		○	○	○	○	○	○	✖
ESD	spindle/protecting cover/ coating/panes/ionisation		✖	✖	✖	✖	✖	✖	✖
Vision	Fiducial recognition		○	○	○	○	○	✖	○
	VPC / VTS		○/○	○/○	○/○	○/○		○/○	○/○
	"Bad" mark recognition		○	○	○	○	○	○	○
	Autom. cut inspection		○	○	○	○	○	○	○
	Code Read		○	○	○	○	○	○	○
DB & MES	Hand-scanner / Automatic scanner		○/○	○/○	○/○	○/○	○/○	○/○	○/○
	"Good/bad" interface		○	○	○	○	○	○	○
	MES Interface		○	○	○	○	○	○	○
	Traceability function		○	○	○	○	○	○	○
Output	Segment conveyor					✖	○	○	○
	Flat belt						○	○	○
	Carrier transport					○	○	○	○
	Tray Transport							○	○
	Shuttle / Shuttle with cleaning							✖	✖
Access	Sliding cover		✖	✖	✖	✖	✖	○	✖
	Safety light curtain		○	○	○				
Quality	Technical availab. ≥ 98%		✖	✖	✖	✖	✖	✖	✖
	CE declaration		✖	✖	✖	✖	✖	✖	✖
	MCT / PCT		✖/○	✖/○	✖/○	✖/○	✖/○	✖/○	✖/○
	Sound pressure test		○	○	○	○	○	○	○
	Stress tests		○	○	○	○	○	○	○
	MSA		○	○	○	○	○	○	○
	Additional cleaning		○	○	○		○		

✖ Standard
○ Option

[1] Other dimensions on request
[2] Working area saw 460x360 mm
[3] Saw/Router

ADA = Product-specific adapter
ADF = Product-specific gripper fingers
ADG = Gripper adapter
VPC = Visual program correction

VTS = Visual teach system
MCT = Machine capability test
PCT = Process capability test
MSA = Measuring system analysis