



Technical Description

Scope of function

Vacuum-Chamber-Press System for lamination multilayerboards with vacuum assistance. With a maximum pressure force of up to 150 tons and temperatures up to 400° Celsius , this laminationpresses are able to be used for all mayor material types and for all fields of operation. High quality of pressure and temperature control, together with a high mechanical parallelism , guarantee a high repeatable process quality.

Operation

The operation of the presssystem is handled by a connected pc terminal on which the necessary press parameters will be input on a process mask.

The system is able to store up 50.000 recipe files. The automatic process is handled by the press recipe, which controls pressure, heaters and vacuum by an connected processing unit. During the process the system generates an process protocol in real time that contains all data about pressure, heating & cooling and vacuum level as well. During each process cycle the levels of pressure, heating & cooling will be controlled regarding to the loaded process file in up to six programmable steps on each function. Herein the pressure control is done by infinitely variable proportional valve. The platen heaters are controlled in three zones for each platen. The heating as well as the cooling functions can be adjusted in a temperature – time – ramp.

Technical Data	LP 2000-VK	LP 3000-VK	LP 4000-VK
Quantity of Openings	2	3	4
Width of Opening (mm)	147	147	95
Dim. of Heatingplatten (mm)	660 x 750 (Option 810)	660 x 750 (Option 810)	660 x 750 (Option 810)
Max. Lamination Surface (mm)	620 x 710	620 x 710	620 x 710
Pressure Force (kN)	1250 (Option 1500)	1250 (Option 1500)	1250 (Option 1500)
Heizung und Kühlung			
Max. Temperature (°C)	300 (Option 400)	300 (Option 400)	300 (Option 400)
Heatup from 40° to 175°C	approx. 25 Min.	approx. 25 Min.	approx. 25 Min.
Cooling Time	programmable	programmable	programmable
Energy Consumption			
Heatingplatten (kW)	15,0 to 18,6	15,0 to 18,6	15,0 to 18,6
Main Consumption (kW)	50	65	80
Main	3 x 400 V ; 50 Hz	3 x 400 V ; 50 Hz	3 x 400 V ; 50 Hz
Current (A)	72	93	115
Fuse (A)	80	125	160
Processing Unit			
19" Processing Rack	Yes / Proface	Yes / Proface	Yes / Proface
Analog / Digitalcontrollers			
Processterminal w. OS	Yes / Windows 10	Yes / Windows 10	Yes / Windows 10
Heater Controls	Programmable /up to 6 Steps	Programmable /up to 6 Steps	Programmable /up to 6 Steps
Cooling Controls	Programmable /up to 6 Steps	Programmable /up to 6 Steps	Programmable /up to 6 Steps
Pressure Controls	Programmable /up to opt.12 Steps	Programmable /up to opt 12 Steps	Programmable /up to opt.12 Steps
Cooling Water Consumption	approx. 500 l per Cycle	Ca. 680 l per Cycle	approx. 840 l per Cycle
Compressed Air Consumption (Pressure 4 bar)	approx. 90 l per Cycle	Ca. 120 l per Cycle	approx. 150 l per Cycle
Dimension L x B x H (mm)			
Machine	1300 x 1050 x 1600	1300 x 1050 x 1950	1300 x 1050 x 1950
Hydraulic & Vacuum	980 x 700 x 800	980 x 700 x 800	980 x 700 x 800
Processing Unit / Electrical	800 x 400 x 1600	800 x 400 x 1950	800 x 400 x 1950
Weight (kg)			
Machine	3900	4500	5000
Hydraulic & Vacuum	150	150	150
Processing Unit / Electrical	150	200	200

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