



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 320° 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 810	660 x 810	660 x 810
Max. Lamination Surface (mm)	620 x 700	620 x 700	620 x 700
Pressure Force (kN)	1250 (Option 1500)	1250 (Option 1500)	1250 (Option 1500)
Heizung und Kühlung			
Max. Temperature (°C)	300 (Option 350)	300 (Option 350)	300 (Option 350)
Heatup from 40° to 175°C	Ca. 25 Min.	Ca. 25 Min.	Ca. 25 Min.
Cooling Time	programmable	programmable	programmable
Energy Consumption			
Heatingplatten (kW)	15,0 bis 18,6	15,0 bis 18,6	15,0 bis 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)	73	100	127
Fuse (A)	80	125	160
Processing Unit			
19" Processing Rack Analog / Digitalcontrollers	Yes / 3	Yes / 4	Yes / 4
Processterminal w. OS	Yes / Windows 7	Yes / Windows 7	Yes / Windows 7
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 12 Steps	Programmable /up to 12 Steps	Programmable /up to 12 Steps
Cooling Water Consumption	Ca. 500 l per Cycle	Ca. 680 l per Cycle	Ca. 840 l per Cycle
Compressed Air Consumption (Pressure 4 bar)	Ca. 90 l per Cycle	Ca. 120 l per Cycle	Ca. 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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