

# Vacuum Lamination Press

Item Number: KT-VLP



## Introduction

Experience clean and precise lamination with Vacuum Lamination Press. Perfect for wafer bonding, thin-film transformations, and LCP lamination. Order now!

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Dimensions	Over-all: 775mm(L) x 550mm(W) x 1325mm(H)		
Structure	<ul style="list-style-type: none"> <li>• Two 135 x 135 mm flat heating platens made of high temperature resistant Cr steel with max. working temperature of 500°C</li> <li>• 1000W Heating element is inserted into the center of the heating plates for fast heating</li> <li>• Max. Load on 135x135mm Heated Platen: 10 Metric Tons at 500°C ( 55 kg/cm<sup>2</sup> );20 Metric Tons at RT ( 110 kg/cm<sup>2</sup> )</li> <li>• Two precision temperature controllers which control two heating plates separately</li> <li>• with 30 programmable segments</li> <li>• Water cooling jackets are built on the both top &amp; bottom of the heating plates for assisting cooling</li> </ul>		
Hydraulic Pump	<ul style="list-style-type: none"> <li>• Modified electric hydraulic press is connected to vacuum chamber.</li> <li>• Movable distance between two heating plates: 15 mm.</li> <li>• Automatic max. pressure controlled via a digital pressure gauge.</li> <li>• Pressure accuracy: +/-0.01 Mpa ( 0.1 kg/cm<sup>2</sup> )</li> <li>• Two flat heating plates are installed with water cooling plates for Max. 500°C working temperature.</li> <li>• Water cooling (&gt;15L/min) is required to cool the heating plates when the operating temperature is over 200 °C.</li> </ul>		
Temperature control and Pressure Display	<ul style="list-style-type: none"> <li>• Two precision temperature controllers with 30 programmable segments control the heating plates .</li> <li>• separately with +/-1°C accuracy.</li> <li>• The temperature controllers have PID auto tune function, over-temperature protection and thermal couple broken protection.</li> <li>• Max. Temperature: 500°C with inert gas or vacuum with accuracy +/-1°C</li> <li>• Max. Heating rate: 2.5°C/min</li> <li>• Software and PC interface is built in the controller , which can be connected to a PC for computer controlling via a RS232 connector.</li> <li>• Digital pressure meter ( controller ) is built outside the vacuum chamber.</li> <li>• You can set pressure at the desired value which can stop the electric hydraulic press automatically.</li> </ul>		
Vacuum Chamber	<ul style="list-style-type: none"> <li>• Electric hydraulic press and heating plates are placed inside then vacuum chamber.</li> <li>• Vacuum chamber is made of SS304 with the size: 525Lx480Wx450H (mm).</li> <li>• Vacuum chamber Capacity : about 75 Liters.</li> <li>• 300mm dia. vacuum sealed hinged type door with 150mm Dia. quartz glass window is installed for easy sample loading and observation.</li> <li>• Silicone O-ring can be used for all vacuum sealings .</li> <li>• One precision digital vacuum guage ( 10E-4 torr ) is installed on the vacuum chamber .</li> </ul>		
Model	KT-VLP100	KT-VLP300	KT-VLP400
Heating plate size	100x100mm	300x300mm	400x400mm
Plates travel distance	30mm	40mm	40mm

Working pressure	30T during heating/40T in the cold state
Pressure gauge	Digital pressure gauge
Heating temperature	<500°C
Temperature control	Touch screen with PID thermal controller
Vacuum chamber	304 Stainless steel
Vacuum pump	Rotary vane vacuum pump
Vacuum pressure	-0.1Mpa
Power supply	AC110-220V, 50/60HZ