

# Vacuum Hot Press Furnace Machine For Lamination And Heating

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 Charnber	<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			
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		