

# Quintus<sup>®</sup> Compact Laminator Systems

Highest Performance and Easy to Use



# Isostatic Laminators: Features and Benefits

## Why Quintus?

- » ASME pressure vessel code design
- » ISO-9001:2000 certified quality system
- » PED pressure vessel design and CE Mark certification
- » Wide selection of standard and custom designed models
- » Computer design, manufacturing, and testing from a single source
- » Excellent field service with a full-time staff of technicians
- » Superior safety record in high-pressure equipment

## Production Benefits:

- » More predictive properties
- » Reduced scrap rates
- » Improved quality
- » Higher productivity

## First in the World in Isostatic Pressing

Quintus Technologies has designed, built, and sold more hot and cold isostatic presses than any other company in the world.

Quintus's experience and engineering skill has also made it the undisputed leader in the growing world of isostatic lamination. Many customers have already come back to Quintus for their second or third laminators.

Standard models are available up to 30,000 psi working pressure. Other sizes are available on special order. A variety of high-pressure pumps are available.

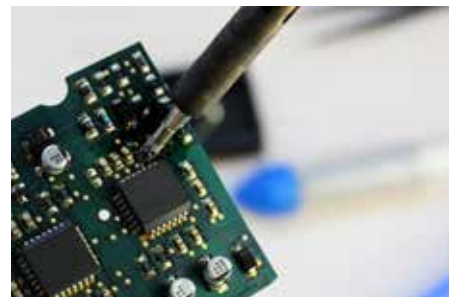
## High Productivity Gains

The most visible difference between the Quintus Laminator and other units is its large, fully accessible work zone. The suspended work basket will hold vacuum-bagged parts in horizontal stacks or vertical rows and can accommodate packages up to 20" in length.

In addition to its overwhelming productivity advantage over uniaxial platen presses, the Quintus Laminator offers other advantages:

- » The vessel fluid is simple potable water, no additives required
- » Small footprint. Permits a low ceiling height
- » Relatively light weight
- » Local qualified technical support and service

With all these superior production efficiencies, a Quintus Isostatic Laminator can pay for itself in a matter of months.



# Isostatic Laminators

## with performance and

### Isostatic Pressing Means Productivity

With Quintus Technologies Isostatic Laminators, there's no trade-off between quality and speed. This high efficiency unit produces laminations of multi layer ceramic (MLCC) capacitors at 20 times the throughput rate of traditional heated platen presses. And even with this high productivity, the quality is virtually flawless:

- » Evenly distributed lamination pressure prevents package distortion
- » Shrinkage is precisely controlled, and part-to-part variation is eliminated
- » Excellent heat transfer to all areas of the part ensures uniform lamination
- » Multiple packages and sizes can be processed in a single 3-10 minute cycle
- » No rounding of edges or camber
- » No edge trimming
- » No in-cycle part rotation
- » Rejected parts and scrap costs are significantly reduced
- » Better Quality MLC Laminations at up to 20 times the throughput!

The product line includes models with operating pressures up to 30,000 psi. These can easily handle the higher-pressure requirements of water-based ceramic tapes and base metal electrode design packages.

### A Proven Process for High Performance Parts

Isostatic (equal on all sides) pressure has been used for over 40 years to densify and improve the durability of critical metal and ceramic parts in aerospace, automotive, and other industrial applications. This versatile process is now offered to manufacturers in the electronics industry as a cost-effective means of laminating.

- » Hybrid chips
- » Bluetooth components
- » MLCCs
- » BMEs
- » Ferrites
- » Varistors
- » Fuel cells
- » Medical electronics & implants
- » Multi-layer PZTs
- » LTCCs
- » Electronic filters

### Model Selection

Model Number	Work Zone		Operating Pressure at 200°F (93°C)	
	Diameter In. mm	Height In. mm	psi	bar
<b>Laboratory</b>				
LIL81005-SS	8 203	10 254	5,000	345
LIL71010-SS	7 178	10 254	10,000	689
<b>Pilot/Production</b>				
IL122005-SS	12 304	20 508	5,000	345
IL202405-SS	20 508	24 610	5,000	345
IL102010-SS	10 254	20 508	10,000	689
IL122010-SS	12 304	20 508	10,000	689
<b>High Pressure Pilot/Production</b>				
HIL111830-SS	11 279	18 457	30,000	2,068
HIL16.52130-SS	16.5 419.1	21 533	30,000	2,068



Other sizes and configurations are available



**Quintus Technologies is the global leader  
in high pressure technology**

The company designs, manufactures, installs, and supports high pressure systems in three main areas: densification of advanced materials, sheet metal forming and high pressure processing covering food and beverage innovation, safety, and shelf life.

Quintus has delivered over 1,900 systems to customers within industries from energy, medical implants, space, aerospace, automotive and food processing. The company is headquartered in Västerås, Sweden, with a presence in 45 countries worldwide.

For more information please visit [www.quintustechnologies.com](http://www.quintustechnologies.com)

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**ISO 9001:2015  
Quality System  
Certified**



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