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COMPONENT MANUFACTURERS  
WORLDWIDE

# ISOSTATIC LAMINATION PRESSES ILS - series



- Up to 40 stack/substrates can be laminated simultaneously
- Wide selection range, from 4 x 4 up to 18 x 18 inch bar size
- Easy to operate, quick product turn-around time
- Low maintenance
- Rigid, compact design takes little floor space
- Stores up to 99 pressure programs
- Maximum temperature 85°C
- Pressure up to 80 MPa or 11600 PSI

**AFFORDABLE WARM ISOSTATIC LAMINATORS**

## BASIC CONFIGURATION:

Isostatic lamination guarantees a completely uniform pressure all over the ceramic stack. The ILS-series of isostatic laminators consist of a piston with cavity that's submerged in a vessel filled with (deionized/distilled) water, which is pressurized. Multiple heaters and a precise temperature regulator accurately keep the piston and the water at the set temperature during the pressing cycle. Green ceramic bars are vacuum sealed in plastic bags are placed in an easy to handle basket that's used to maximize the available space in the pressing cavity and to pre-load the ceramic bars to increase the productivity. The operator places the basket into the piston while standing in front of the machine. After

closing the door (safety interlock), the operator can start the pressure cycle. Motors smoothly lower the piston containing the ceramic bars into the pressure vessel (water). The ceramic bars are pressurized following the lamination profile previously programmed (or saved). Several lamination modes are available to either reach the final lamination pressure in one step or in several steps. The machine requires little maintenance due to its sturdy, yet simple design. The long-term reliability of the pressure generator, (sealing) o-rings and hydraulic components have been proven over years and years of daily use in the field.

### Technical specification

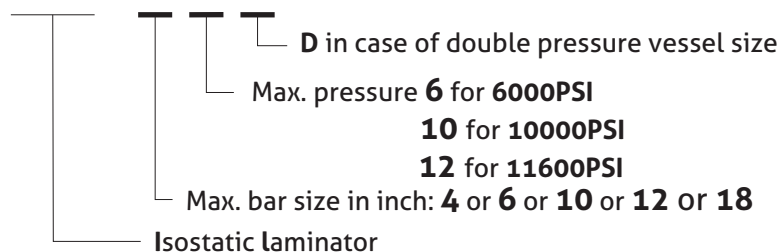
Capacity	up to 40 stacks/substrates can be laminated simultaneously
Maximum bar size	depends of machine model, max. 18 inch
Cycle time	typically 12 cycles per hour
Pressure range	50 - 80 Mpa. 800 - 11600 PSI (depends of machine model)

Bar size (inch)	Max. Pressure (MPa/PSI)	Pressure vessel size (mm/inch)	Machine dimensions (mm/inch)			
			Lenght	Width	Height	Height max
4	42/6000 or 70/10000 or 80/11600	60 x 180 x 130/2.5 x 7 x 5	950/38	775/31	2180/86	2390/94
6	42/6000 or 70/10000 or 80/11600	100 x 255 x 220/4 x 10 x 9	1400/56	1050/42	2180/86	2535/100
		* 100 x 460 x 220/4 x 18 x 9	1400/56	1100/44	2260/89	2300/90
10	42/6000 or 70/10000 or 80/11600	150 x 360 x 305/6 x 14 x 12	1450/57	1300/52	2260/89	2320/91
12	42/6000 or 70/10000	200 x 450 x 400/8 x 18 x 16	2400/95	1500/59	2370/94	2600/102
18	42/6000	200 x 550 x 500/8 x 22 x 24	2760/109	1500/59	2500/99	2800/111

\* D double pressure vessel size

How to order: \*

# ILS- X X X



\*Options and other requirements have to be specified separately.



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