

ISOSTATIC LAMINATION SYSTEM ILS-6



- Presses up to 40 6"x6" bars simultaneously
- Easy to operate, quick product turn-around time
- Low maintenance
- Compact design, takes little floor space
- Stores up to 99 pressure programs
- Maximum temperature 85 °C
- Pressure up to 42 MPa or 6,000 psi

Low-cost isostatic warm press

ILS 6 is one of the most compact isostatic laminators available on the market. Its easy operation and low maintenance result in a low cost of ownership. In comparison to pressing between steel plates, the isostatic lamination of green ceramic bars results in a completely uniform pressure all over the bar. This homogeneous pressing contributes to significantly improved quality of the resulting ceramic components because of increased reliability and yield.

The ILS 6 isostatic laminator consists of a piston with cavity submerged in a vessel filled with deionized water. Both the whole cylinder and water are accurately kept on the temperature set by the operator. Green ceramic bars vacuum-sealed in plastic bags are put into an easy-to-handle rack that uses the space in the pressure vessel optimally. The operator can place the rack into the piston while standing in front of the machine. After closing the

door as a safety measure the operator can start the pressure cycle. The machine moves the piston into the pressure vessel automatically by smoothly operating motors. The ceramic bars are pressurized in accordance with the program entered by the operator. A pressure program for slow increase of the pressure, or increases in several pressure steps can be entered.

An optional vacuum sealing machine can be used to prepare the next lot of bars while the machine is pressing the previous lot. The machine requires little maintenance due to its sturdy design. The pressure generator and gaskets have proven themselves with years and years of daily use in the field.

Change of gaskets is easy by a special lifting system of the piston by motors. Only high quality parts from top producers are used to optimize reliability and lower your cost in operation.

Isostatic Lamination System ILS-6

Typical specifications ¹



Capacity:	40 bars at 6 by 6 inches
Maximum bar size:	8 x 8 inches
Cycle time: typically	12 cycles per hour
Pressure vessel size:	- diameter 250 mm or 10 inches - depth 400 mm or 16.7 inches
Pressure range:	13 - 42 MPA 1,800 - 6,000 psi
Time at pressure:	0 up to 99 minutes
Maximum temperature:	85 °C
Safety:	equipment complies with US and CE safety regulations
Dimensions:	Length 1,100 mm or 43 inches Depth 800 mm or 31 inches Height 2,200 mm or 86 inches

Options:

- Vacuum bag sealing machine; inclusive of tools, racks, and sturdy table.
- Metal plates designed to meet your ceramic bar size.

1) Because our equipment is customized for specific requirements, specifications given are subject to change.



Grajski trg 15
8360 Žužemberk, SLOVENIA
phone: +386 7 3885 200
Fax: +386 7 3885 203
E-mail: kekoequipment@siol.net
URL: <http://www.keko-equipment.com>

Agent: