

LCI *Grinding machines*



High productivity on HPL sheets and flexible coils



Features & Benefits

Designed to process HPL sheets, the **LCI-T** is capable to process the thinnest foil of 0,3mm at the astonishing speed of 70 m/min!

This incredible performance is obtained by the special design of its feed system. The unique triangular-shaped unit keeps a convenient pass-line and increases the abrasive belt length thus improving efficiency and productivity.

For the production of continuous and flexible materials, such as HPL, PVC and others, we have developed a special version of our **LCI** grinder, which features wider grinding cylinders, wrapping rolls and advanced automation and controls suitable for integration into fully-automated lines.

All models are equipped with standard deionizing bars and hi-pressure blowers to clean the processed surfaces.



CONCEPT

The IMEAS grinding machines for decorative laminates match 0.01 mm accuracy calibration thickness with enough roughness of the surface for effective gluing on the panel.

The bottom grinding head, equipped with a calibrating roll either made of smooth steel or rubber-coated, is set against a Billy Roll that can be either chromium-plated or rubber-coated, depending on Customer's needs.

The exclusive three-step feeding system allows keeping the HPL sheet tensioned during the whole process; this guarantees high production performances without damaging the material even in case of ultra-thin laminates.

Appropriate systems for ventilation, exhaust and deionization allow removing the dust produced during the grinding process, thus preventing the creation of electrostatic charges.

LCI-T MODEL

The special triangular bottom unit makes this machine perfect to obtain a precise control of the grinding process on bottom HPL surfaces with a comfortable pass line.

LCI MODEL

Equipped with one straight unit, this machine is ideal to grind HPL sheets as well as continuous materials (i.e. coils) such as PVC, thin HPL and so on.

Technical Data Sheet

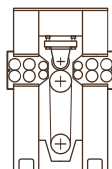
STANDARD FEATURES

- Frames made of electro welded steel, stress relieved, CNC milled, prime-coated and painted.
- High efficiency motors
- PLC Siemens S7 with ProfiNET™ connection
- Wide screen with touch panel graphical interface
- Integrated lubrication circuit and bearing temperature monitoring system with alarm interface⁽¹⁾
- De-ionizing bars

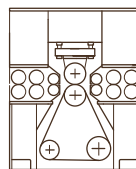
- Top cleaning brush at machine infeed and top/bottom air cleaning device at machine out feed
- On-board pneumatic plant with emergency tank, lockable inlet, manometer and pressure adjustment

OPTIONAL FEATURES⁽²⁾

- Electronic interfacing and self-setting of sanding units
- Sound-proof enclosure cabinet
- On board vibrations monitoring system
- PLC Allen-Bradley



LCI



LCI-T

Model	LCI	LCI-T
No. of working units	One bottom grinding unit	One bottom triangular grinding unit
Applications	Grinding of HPL and flexible materials	Grinding of HPL sheets
Useful widths	1300 – 1600 – 1900 – 2300 mm (others on request ²)	
Thickness range	0,4÷25 mm	
Machine opening	300 mm	
Feeding speed	7÷70 m/min (higher speed available as option ²)	
Main motors	60÷110 kW	
Abrasive belt length	2620÷2800 mm depending on version	
Machine weight	10.000 - 15.000 kg (according to working width)	

NOTES

1. Only available on high-speed rotating bearings.
2. Available at extra price.

IMEAS spa reserves the right to change any data without notice.