LIMATA

X1000 A
X2000 A

X series
Automation

About X-Series Automation

▸ Island of automation or in-line setups for DF and SM Imaging (Rigid and Flex-Sheets)

▸ Small footprint turnkey DI automation (including flipping mechanism)

▸ In-line capability for direct connection to pre- and post-processing steps

▸ Loading from L-Rack, basket or slot pallet magazines

▸ Configurable with Single- or Twinset DI system set-ups (X1000 and X2000 Series)

Xseries Automation | Specifications

1. X1000 Automation Options | Island of Automation or In-Line
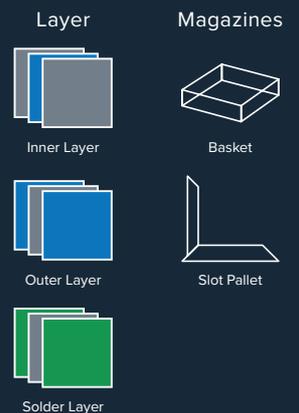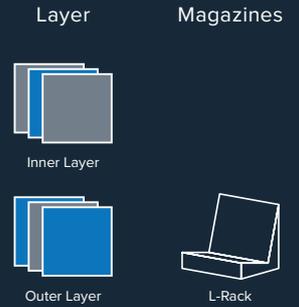
X1000 A DF Single

X1000 A DF Twin

Application(s)	DF (e.g. Inner- / Outer Layer)	
Dimensions (W x D x H) (Single/Twin)	4.7 m x 2.3 m x 2.0 m (15.5 ft x 7.5 ft x 6.6 ft) 6.0 m x 2.3 m x 2.0 m (20.0 ft x 7.5 ft x 6.6 ft)	
Power supply	208 - 240 VAC 40-60 Hz 32 A / 1 Phase 6-8 bars / 40 l/min	
Operating modes	Fully automated incl. flipper and manually	
Automation loader / Unloader	Integrated semi-vertical loader / Unloader from magazine or in-Line configuration	
Magazine options	L-Rack	
Rigid and Flex-Sheets / Max. panel	610 mm x 610 mm (24" x 24")	
Panel thickness	0.05 mm - 3.2 mm / 2 mil - 0.125" (Optional thicker)	
Max. Panel weight	3.5 kg per panel (Optional higher values)	
Max stacking height	160 mm / 6.3" e.g. approx. 100 Panels @ 1.5 mm / 0.06" core (rigid)	
Options	Extended in-line transportation options Input DI cleaning (air-knife or roller) HEPA Filter system	

Layer — Inner Layer, Outer Layer

Magazines — L-Rack

X1000 A DF SM Single

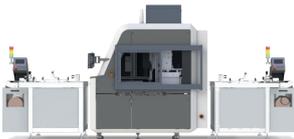### X1000 A DF SM Twin

Application(s)	SM (Solder Mask layer) DF (e.g. Inner- / Outer Layer)	
Dimensions (W x D x H) (Single/Twin)	5.3 m x 2.3 m x 2,0 m (17.3 ft x 7.5 ft x 6.6 ft) 6.6 m x 2.3 m x 2,0 m (21.6 ft x 7.5 ft x 6.6 ft)	
Power supply	208 - 240 VAC 40-60 Hz 32 A / 1 Phase 6-8 bars / 2 l/min	
Operating modes	Fully automated incl. flipper and manually	
Automation loader / Unloader	Integrated semi-vertical loader / Unloader from magazine or in-Line configuration	
Rigid and Flex-Sheets / Max. panel size	Standard max. 610 mm x 610 mm (24"x 24") Optional 610 mm x 765 mm (24" x 30")	
Panel thickness	610 mm x 610 mm (24" x 24")	
Max. Panel weight	No limitation (SM) 3.5 kg per panel (Optional higher values)	
Max stacking height	Capacity up to 50 panels (solder mask) 50 mm in Basket (DF Inner layer)	
Options	Extended in-line transportation options Input DI cleaning (air-knife or roller) HEPA Filter system	

Layer — Inner Layer, Outer Layer, Solder Layer

Magazines — Basket, Slot Pallet

X1000 R2R

Application(s)	FPC (roll-to-roll) Dry-film imaging
Dimensions (W x D x H)	1.4 m x 4.9 m x 2.3 m (4.6 ft x 16.0 ft x 7.6 ft)
Power supply	208 - 240 VAC 40-60 Hz 32 A / 1 Phase 6-8 bars
Roll width – Max	Max. 610 mm / 24"
Roll width – Min	Min. 100 mm / 4"
Roll material thickness	0.02 mm - 0.5 mm / 0.8 mil - 20 mil
Options	SMC ionisation Ultrasonic edge sensor for transparent foils

2. X2000 Automation Options | Island of Automation or In-Line

X2000 A Single

X2000 A Twin Set

Application(s)	SM (Solder Mask layer) DF (e.g. Inner- / Outer Layer)
Dimensions (W x D x H)	**X2000 A_Single** 4.5 m x 3.5 m x 2.3 m (15.0 ft x 11.5 ft x 7.5 ft) **X2000 A_Twin** 6.0 m x 3.5 m x 2.3 m (20.0 ft x 11.5 ft x 7.5 ft)
Power supply	380 - 400 VAC 40-60 Hz 32 A / 3 Phase (Std.) 480 VAC 40-60 Hz 32A / 3 Phase (US Version) 6-8 bars
Operating modes	Fully automated incl. flipper and manually
Automation loader / Unloader	Integrated semi-vertical Loader / Unloader From Magazine or in-Line configuration Integrated Gantry system gripper handshake flipping method
Rigid and Flex-Sheets / Max. panel size	Standard max. 610 mm x 610 mm (24" x 24")
Panel thickness	min. 0.5 mm / 20 mil (SM) 0.05 mm - 3.2 mm / 2 mil - 0.125" (DF)
Max. Panel weight	No limitation (SM) 3.5 kg per panel (Optional higher values)
Max stacking height	Capacity up to 50 panels (solder mask) 50 mm in Basket (DF Inner layer) 160 mm in L-Rack (DF layer)
Options	Extended in-line transportation options Input DI cleaning (air-knife or roller) HEPA Filter system

Layer

Inner Layer

Outer Layer

Solder Layer

Magazines

Basket

L-Rack

Slot Pallet

3. Other Options

3.1 Transport Carts

Transport cart designed for the safe and convenient movement of panels within the production line.
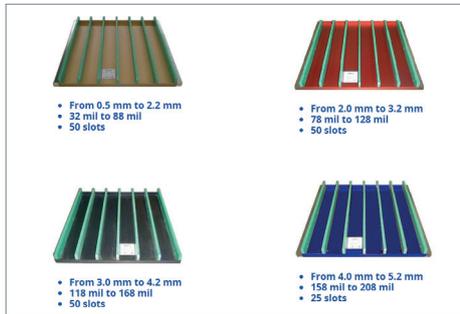

Trolley Slot Pallet

Trolley L-Rack

Trolley Baskets

3.2 Magazines

Designed for secure storage and handling of panels during processing.

- From 0.5 mm to 2.2 mm
- 32 mil to 88 mil
- 50 slots

- From 2.0 mm to 3.2 mm
- 78 mil to 128 mil
- 50 slots

- From 3.0 mm to 4.2 mm
- 118 mil to 168 mil
- 50 slots

- From 4.0 mm to 5.2 mm
- 158 mil to 208 mil
- 25 slots

3.3. Additional automation and handling

Cart Lift Station: Platform designed to lift and lower transport carts between different height levels, such as from ground level to a production line or storage area.

Inlet Conveyor MB 50: Available in single or double version. Ensures smooth and efficient panel feed into the production line

Get in touch:
info@limata.de

limata.com