



DATASHEET

Label Print and Apply System

Legi-Air 4050 AC Shuttle

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The new Legi-Air 4050 AC Shuttle Label Print and Apply System is a high-performance labeller for maximum speeds.

Systematic refinement of the Alpha Print is evident via a whole series of technical features, making the system a particularly fast labeller, at the same time as ensuring consistently high print quality.

On Print and Apply Systems it is often the print module which determines the working rate. This is not the case with the new Legi-Air 4050 AC Shuttle.

A loop device ensures a ready supply of labels which are custom-printed before being dispensed at unusually high speeds onto the passing products. The capacity of this storage device means that even higher cycle speeds of short duration can be achieved. A check is kept on the loop by a dancer roller to ensure there is a supply of labels present. The benefits of this variant are ease of use and the compact system design.

Labelling capacity may be up to 20 times greater than printing capacity. Print speeds of up to 16 m per minute and conveyor speeds of up to 70 m per minute can be achieved.

Typical applications are labelling of identical products or products of continuous height. Compressed air is not required unlike most systems in the market today as the Print Apply System is completely electric and virtually Plug and Play. The result is a high level of cost-efficiency.

Labels are applied by the Legi-Air 4050 AC Shuttle using what is termed the wipe-on method, where the label is wiped onto the product or packaging surface.

The wipe-on applicator has the additional benefit of allowing flexible switching to other label formats. Labels of between 14 mm and 210 mm long can easily be processed. The system automatically calibrates itself to the length of label used.

Labels can be applied in exactly the required position without any need for offsetting, even if there is a change in belt speed or the conveyor stops suddenly. A shaft encoder permanently monitors the conveying system transporting the products.

For partial printing on the label, print modules with automatic Ribbon Saver systems are available, resulting in further cost savings.

Technical specifications

Print technology

Thermal transfer or direct thermal

Dispensing method

Wipe-on

Print resolution

- 8 dots/mm (203 dpi)
- 12 dots/mm (300 dpi)
- 24 dots/mm (600 dpi)

Print speed

Up to 400 mm per second

Maximum throughput width

160 mm (option of 173 mm)

Label sizes

Maximum: 148 x 210 mm

Minimum: 14 x 10 mm

Maximum length of dispensing device

300 mm

Maximum take-off speed

70 m per minute, limited by label format

Minimum label gap

3 mm

Label roll

300 mm external diameter with up to 450 running metres, roll core of 76 mm (3"), outside winding, roll end advance warning Option: Inside winding, larger roll core diameter and 350 mm label roll external diameter

Data interfaces

All current interfaces (details in the print module brochure)

Control interfaces

Floating outputs (relays), optocoupler inputs, M12 connections for photocells and alarm lamps

Maintenance intervals

According to interval notice

Dispensing capacity

Up to 600 labels a minute; dispensing capacity depends on label size, text changeover and product speed

Positional accuracy of labels when dispensed

± 0.8 mm

Interchangeable dispensing device

Optional

Flexible print module technology

Datamax, Sato, Zebra, Avery PEM, CAB

Print dispenser activation

Reflex sensor, light barrier, inductive or capacitive sensor, microswitch, floating contacts (PLC)

Alarm device

Standard: Error messages in the text display, floating contacts (PLC)

Optional: Three-colour alarm lamp

Diagnostics function

Via display and USB software

Compressed air consumption

0.3 to 3 l per dispensing cycle, depending on label size, applicator type and setting

Compressed air connection

6 bar, compressed air must be clean, dry and free of oil (DIN ISO 8573-1)

Weight

65 kg plus (depending on version)

Electrical connection

91 to 263 VAC, 50/60 Hz, 5 amp

Ambient conditions

Temperature: 10°C to 35°C, 15 to 95% relative air humidity, non-condensing

Approval

CE-mark, optional: GOST-R

All technical specifications depend on the print modules used (see separate print module brochure).

Options

- RFID labelling
- Three-colour alarm LED
- Dust-protective housing (including with heating) for use in particularly problematic environments
- IPC inside the housing
- Legitronic® label print software
- Bluhmware for controlling and networking the systems
- Label presence monitor
- Scanner (1-D/2-D), vision systems, sensors, RFID gates
- Product detector
- Shaft encoder for variable product speed adjustment
- Frame in various versions (fixed, shaft-adjustable, mobile)



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