

AUTOMATIC WEIGH-PRICE  
LABELLER

# LS-4500



**WEIGHING**  
DYNAMIC OR  
STATIC



**4" PRINTER**  
250 mm/s



**MULTIPLE  
POSITION  
LABELLING**



**8,000 PLUs**  
MEMORY



**TOUCH SCREEN  
CONSOLE**  
OPTIONAL



**ETHERNET**



**METROLOGICAL  
VERIFICATION**  
OPTIONAL (EU)

## Outstanding functions

- High speed weighing: up to 250 ppm.
- Labelling of fix/variable weight/price.
- Discrimination by weight checking.
- Generic traceability in label.
- Adapted to comply with EU Regulation 1169/2011 referring to food information.
- Barcodes: EAN-8, EAN-13, EAN-128, CODE 128, ITF-14, QR code, GS1 Datamatrix and GS1 Databar (up to 4 barcodes per label).
- Air applicator: maximum productivity.
- MID certification: approved equipment.

## Weighing

- Weighing type:
  - Dynamic or static.
- Ranges according to dimensions of the weighing conveyors:
  - 3 kg / 1 g with conveyors of L300 x W200 mm.
  - 6 kg / 2 g with conveyors of L400 x W280 mm, L400 x W400 mm and L600 x W280 mm.
  - 15 kg / 5 g with conveyors of L600 x W400 mm, L800 x W280 mm and L800 x W400 mm.

## Labelling system

- Print type:
  - Direct Thermal (DT) or Thermal Transfer (TT).
- Printhead:
  - Long-lasting 4" (historical control).
- Resolution:
  - 8 dots/mm.

- High speed printing:
  - Up to 250 mm/s.
- Label applicator type:
  - Pneumatic piston. In top labeller also possibility of 90° rotating applicator and "Air-jet®" air blowing. In bottom labeller, just by contact.
- Position of the label applicator:
  - Top, under and/or side (front or back, consult us).

## Labels

- Maximum backing paper width:
  - 110 mm.
- Inside diameter of the label roll cardboard core:
  - Ø76 mm (the cardboard joint must be the same width as the backpaper).
- Dimensions:
  - From L40 x W40 mm, up to L120 x W102 mm.

## Construction

- Structure:
  - AISI 304L stainless steel and anodized aluminium.
- Belts (all of them with FDA approval):
  - Standard.
  - High speed: super adherent.
  - Sliders: for expulsion areas.
- Guides:
  - AISI 304L stainless steel, anodized aluminum and cesticlene.
- Console:
  - Material: AISI 304L stainless steel.

- "Qwerty" keypad and graphic backlit LCD display.
- 15" TFT touch screen, optional.
- Adjusting the height of the top labeller from the console.

## Communication to PC

- Ethernet TCP/IP.
- 2 RS-232.

## PC software

- DIS: for equipment configuration, production data management and back up (LBS).
- DLD: for graphic design of labels.
- Integration tools (see section on software).

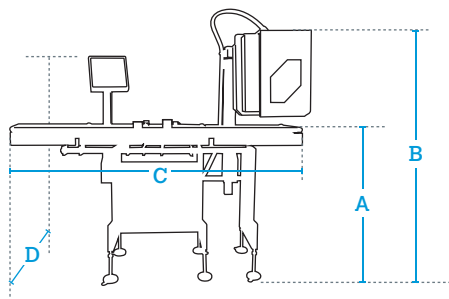
## Power supply & compressed air

- Electrical: 230 V / 50 Hz; 115 V / 60 Hz.
- Air: max. 150 l/min (at 6-8 bar)

## Possible integration with other equipment

- Dibal LP-3000 manual weigh-price labeller.
- Dibal GS-3000 batch collector (+ LP-3000).
- Dibal MD-5000 metal detectors.

## DIMENSIONS



### DATA IN mm

<b>A</b>	850 - 950 (adjustable height)
<b>B</b>	1,485 - 1,895 (adjustable height)
<b>C</b>	1,970 (with L400-L400-L400-L600 conveyors)*
<b>D</b>	795 (conveyors width + console width. For W280 conveyors)**

\* These measurements correspond to the sum of the separation, infeed, weighing and labelling conveyors. For other sizes, contact us.

\*\* For other sizes, contact us.

# Models


## LS-4534 400/400/600x280

- 1 infeed and 1 weighing L400 x W280 mm conveyor, and 1 labelling L600 x W280 mm conveyor.
- For products of up to L350 x W280 mm, and up to 15 kg.
- 1 top labeller, direct thermal printing, 4" printhead and piston applicator.
- Performance\*: 100 labels/minute (with L60 x W60 mm labels and product up to L120 mm and 0.5 kg). Up to 140 labels/minute with air-jet applicator. In MID conditions (M).

 Optional

## LS-4534 400/400/600x400

- 1 infeed and 1 weighing L400 x W400 mm conveyor, and 1 labelling L600 x W400 mm conveyor.
- For products of up to L350 x W400 mm, and up to 15 kg.
- 1 top labeller, direct thermal printing, 4" printhead and piston applicator.
- Performance\*: 100 labels/minute (with L60 x W60 mm labels and product up to L120 mm and 0.5 kg). Up to 120 labels/minute with air-jet applicator. In MID conditions (M).

 Optional


## LS-4534 600/300/600x200

- 1 infeed L600 x W200 mm conveyor, 1 weighing L300 x W200 mm conveyor, and 1 labelling L600 x W200 mm conveyor.
- For products of up to L200 x W200 mm, and up to 3 kg.
- 1 top labeller, direct thermal printing, 4" printhead and piston applicator.
- Performance\*: 100 labels/minute (with L60 x W60 mm labels and product up to L120 mm and 0.5 kg). Up to 140 labels/minute with air-jet applicator. In MID conditions (M).

 Optional

## LS-4534 600/600/800x280

- 1 infeed and 1 weighing L600 x W280 mm conveyor, and 1 labelling L800 x W280 mm conveyor.
- For products of up to L550 x W280 mm, and up to 15 kg.
- 1 top labeller, direct thermal printing, 4" printhead and piston applicator.
- Performance\*: 100 labels/minute (with L60 x W60 mm labels and product up to L120 mm and 0.5 kg). Up to 120 labels/minute with air-jet applicator. In MID conditions (M).

 Optional

## LS-4534 600/600/800x400

- 1 infeed and 1 weighing L600 x W400 mm conveyor, and 1 labelling L800 x W400 mm conveyor.
- For products of up to L550 x W400 mm, and up to 15 kg.
- 1 top labeller, direct thermal printing, 4" printhead and piston applicator.
- Performance\*: 100 labels/minute (with L60 x W60 mm labels and product up to L120 mm and 0.5 kg). Up to 120 labels/minute with air-jet applicator. In MID conditions (M).

 Optional

## LS-4534 800/800/800x280

- 1 infeed and 1 weighing L600 x W400 mm conveyor, and 1 labelling L800 x W400 mm conveyor.
- For products of up to L750 x W280 mm, and up to 15 kg.
- 1 top labeller, direct thermal printing, 4" printhead and piston applicator.
- Performance\*: 100 labels/minute (with L60 x W60 mm labels and product up to L120 mm and 0.5 kg). Up to 120 labels/minute with air-jet applicator. In MID conditions (M).

 Optional

## LS-4534 800/800/800x400

- 1 infeed and 1 weighing L800 x W400 mm conveyor, and 1 labelling L800 x W400 mm conveyor.
- For products of up to L750 x W400 mm, and up to 15 kg.
- 1 top labeller, direct thermal printing, 4" printhead and piston applicator.
- Performance\*: 100 labels/minute (with L60 x W60 mm labels and product up to L120 mm and 0.5 kg). Up to 120 labels/minute with air-jet applicator. In MID conditions (M).

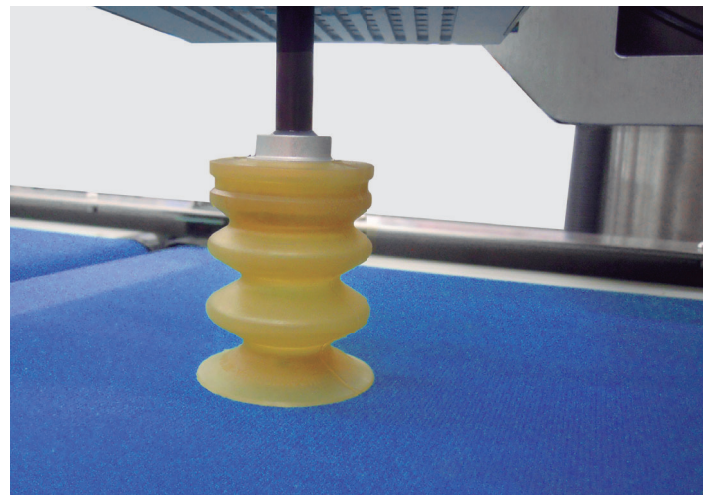
 Optional

\* Maximum performance will depend on the size, weight and morphology of the product, as well as on the regularity of the infeed of the products, dimensions and characteristics of the label, and MID conditions (M).

# Options



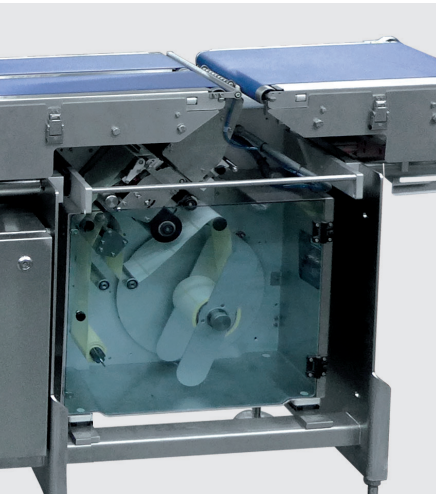
> Touch screen console



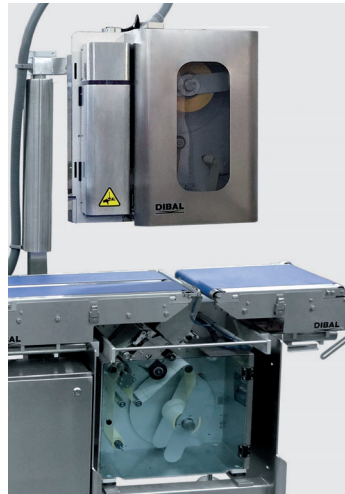
> Pneumatic piston applicator

Option	Characteristics	Ref.
L300 X W200 mm sequencing conveyor	Includes frame extension.	Contact us
L400 X W280 mm sequencing conveyor	Includes frame extension.	Contact us
L400 X W400 mm sequencing conveyor	Includes frame extension.	Contact us
L600 X W280 mm sequencing conveyor	Includes frame extension.	Contact us
L600 X W400 mm sequencing conveyor	Includes frame extension.	Contact us
L800 X W280 mm sequencing conveyor	Includes frame extension.	Contact us
L800 X W400 mm sequencing conveyor	Includes frame extension.	Contact us
Touch screen console	15" TFT.	Contact us
Thermo transfer printing	Ribbon kit.	Contact us
Air applicator	Replaces the pneumatic piston applicator.	Contact us
90° rotating applicator	Replaces the pneumatic piston applicator.	Contact us





> Bottom labeller

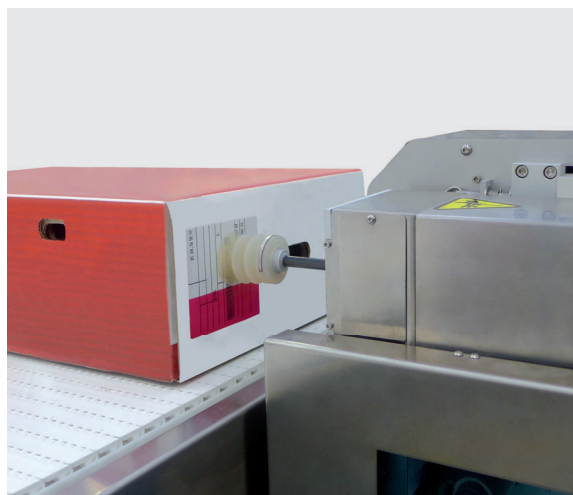


> Second bottom labeller



> Second top labeller

Option	Characteristics	Ref.
Bottom labeller (replaces the top one) for models: LS-4534/400/400/600x280 LS-4534/600/600/800x280 LS-4534/800/800/800x280	Includes frame extension + L400 x W280 mm exit conveyor. Long life 4 "print head, 8 dots/mm resolution and direct transfer printing.	Contact us
Bottom labeller (replaces the top one) for models: LS-4534/400/400/600x400 LS-4534/600/600/800x400 LS-4534/800/800/800x400	Includes frame extension + L400 x W400 mm exit conveyor. Long life 4 "print head, 8 dots/mm resolution and direct transfer printing.	Contact us
Bottom labeller (additional to the top one) for models: LS-4534/400/400/600x280 LS-4534/600/600/800x280 LS-4534/800/800/800x280	Includes frame extension + L400 x W280 mm exit conveyor. Long life 4 "print head, 8 dots / mm resolution and direct transfer printing.	Contact us
Bottom labeller (additional to the top one) for models: LS-4534/400/400/600X400 LS-4534/600/600/800X400 LS-4534/800/800/800X400	Includes frame extension + L400 x W400 mm labelling conveyor. Long life 4 "print head, 8 dots / mm resolution and direct transfer printing.	Contact us
Top labeller (additional to the top one) for models: LS-4534/400/400/600x280 LS-4534/600/600/800x280 LS-4534/800/800/800x280	Includes frame extension + L800 x W280 mm labelling conveyor. Long life 4 "print head, 8 dots/mm resolution and direct transfer printing.	Contact us
Top labeller (additional to the top one) for models: LS-4534/400/400/600x400 LS-4534/600/600/800x400 LS-4534/800/800/800x400	Includes frame extension + L800 x W400 mm labelling conveyor. Long life 4 "print head, 8 dots/mm resolution and direct transfer printing.	Contact us



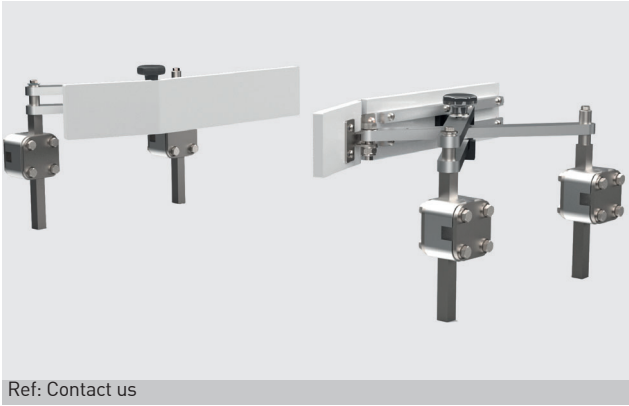
> Side labeller



> Detector on arch (horizontal + vertical)

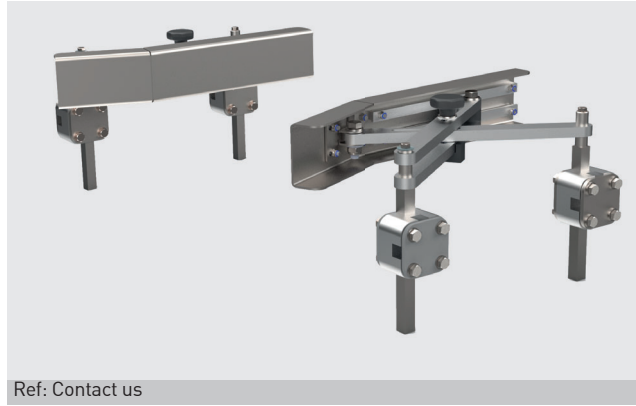
Option	Characteristics	Ref.
Side labeller (for all models)	Includes structure for head support. Long life 4 "side print head, 8 dots/mm resolution and direct transfer printing.	Contact us
Horizontal barrier detector	To replace the horizontal detector.	Contact us
Detector on arch (horizontal + vertical)	To replace the horizontal detector. For products with little height (e.g.: envelopes).	Contact us
IP65 protection kit (equivalent)	Protected engines.	Contact us
DIS software	Equipment configuration, received data management and backup (LBS). (See software section).	7340ENW3
DIS+DLD software	Equipment configuration, received data management, backup (LBS) and graphic label design. (See software section).	7340ENW3+ 7340YNW3
DLD software	Label graphic design. (See software section).	7340YNW3
Standard packaging		Contact us
Cage packaging	Necessary depending on the destination.	Contact us
Metrological verification (M)	According to EU weighing directives (MID).	Contact us

# Accessories



Ref: Contact us

**Cestilene guides**



Ref: Contact us

**Stainless steel guides**



Ref: Contact us

**W200 mm exit ramp**

Non-motorized PVC rollers for W200 mm conveyors.



Ref: Contact us

**W280 mm exit ramp**

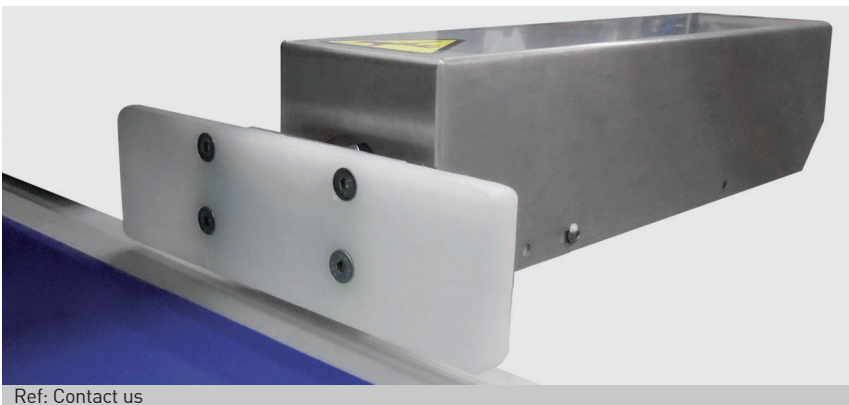
Non-motorized PVC rollers for W280 mm conveyors.



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**W400 mm exit ramp**

Non-motorized PVC rollers for W400 mm conveyors.



Ref: Contact us

**Ejection system**

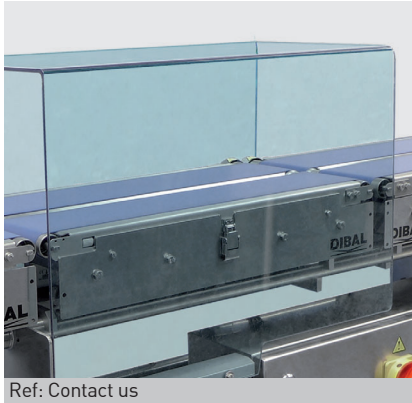
Rejectors.

Options: pneumatic piston, air blowing, accompanying blade or push blade.



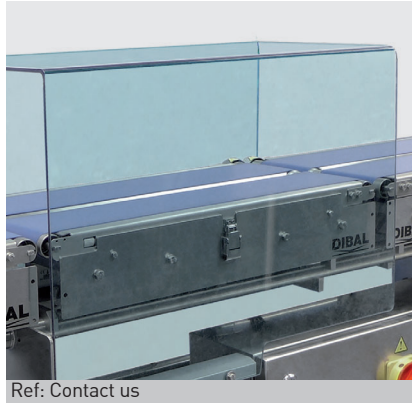
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**Visual and audible alarm (24V)**



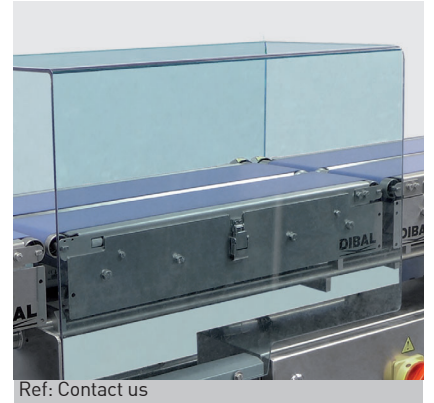
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**Polycarbonate protector for L300 x W200 mm weighing conveyor**



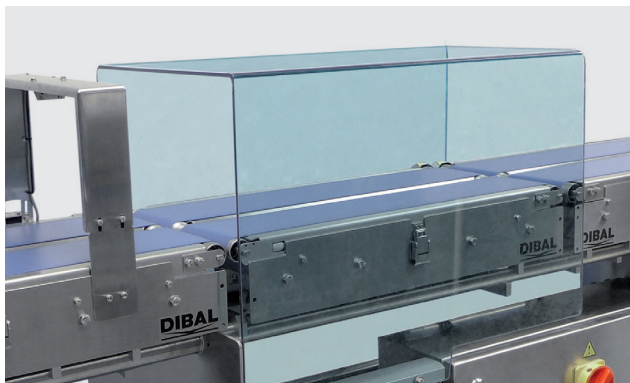
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**Polycarbonate protector for L400 x W280 mm weighing conveyor**



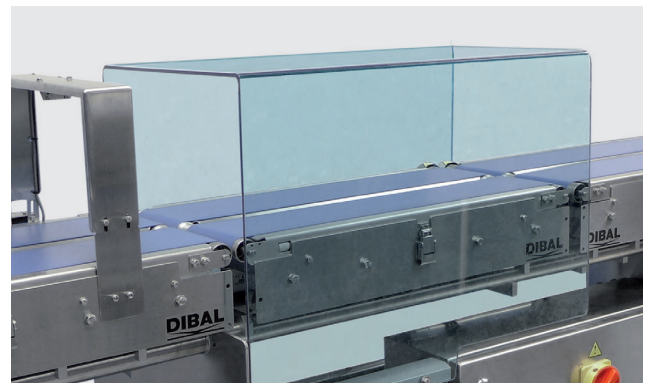
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**Polycarbonate protector for L600 x W280 mm weighing conveyor**



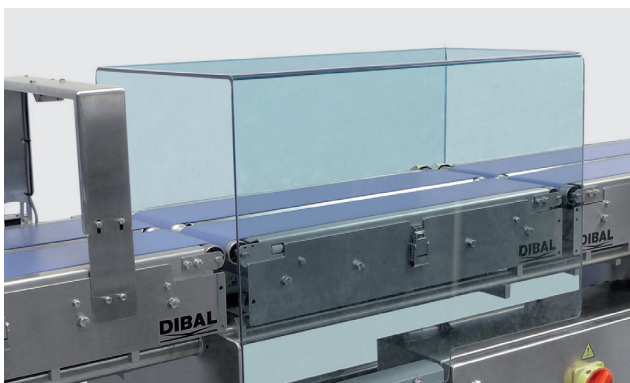
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**Polycarbonate protector for L800 x W280 mm weighing conveyor**



Ref: Contact us

**Polycarbonate protector for L400 x W400 mm weighing conveyor**



Ref: Contact us

**Polycarbonate protector for L600 x W400 mm weighing conveyor**



Ref: Contact us

**Polycarbonate protector for L800 x W400 mm weighing conveyor**