

Example of a modularized label

This is a summary, but not complete, description of the Modularized Label that has recently been added into EN 1573 Bar code — Multi industry transport label

Current supply and distribution chains frequently involve several parties and several sequential handling steps during the life cycle of a transport unit. This modularized label is created to support complex supply and distribution chains. The following requirements have been taken into consideration:

- Solution if not all information is available for printing a full label at one time. Shipment and transport information can be generated after the first labelling process with a primary packaging label.
- Full traceability of the transport unit from the point of creation (manufacturing or packaging) to consumption via several handling parties.
- Support for several delivery processes between different parties, referring to different underlying orders.
- Support for several transport legs and transport service providers during one delivery.
- Support for rerouting of goods (transport units) during the transport process.

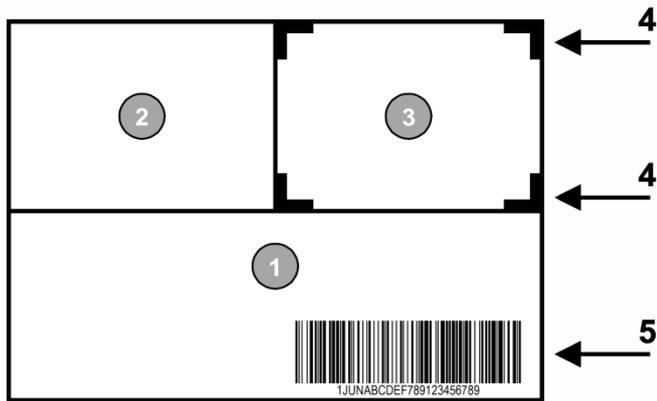
The modularized label consists of three information modules, see Figure B.9, below. Each module gathers information that is available and requested at different steps, according to section 4.1. The purpose and information content of the different modules is:

- 1) Packaging label module. Containing information available at manufacturing or packaging, e.g. product and packaging information and the unique license plate.
- 2) Delivery label module. Containing order and delivery unique information, e.g. ship from and ship to related information and additional data keys to the customer's database.
- 3) Transport label module. Containing information related to the transport service, e.g. the ship to name and address for the specific transport assignment, data keys to the carrier's database and other transport related information.

The packaging label (1) should not be replaced during the life cycle of the package (transport unit). The other two modules are updated by replacement label(s) pasted over the former.

This label layout utilizes both human readable as well as linear and 2D barcode symbols.

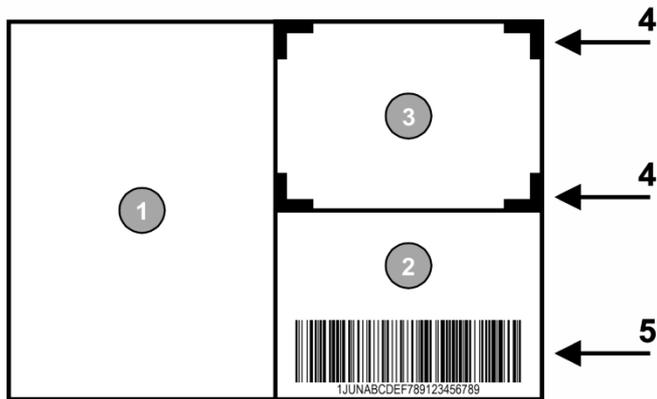
The modularized labels will be formatted according to industry requirements. The preferred two options are the A5 format with horizontal orientation (see Figure B.9) or with vertical orientation (see Figure B.10). Reasons for printing the modularized label horizontal or vertical orientations are printing devices which might be available in different print widths and/or usage of label holders.



KEY

- 1 = Packaging label module, size: 210 x 74 mm
- 2 = Delivery label module, size: 105 x 74 mm
- 3 = Transport label module, size: 105 x 74 mm
- 4 = Corner marks for Transport label guidance
- 5 = License plate barcode

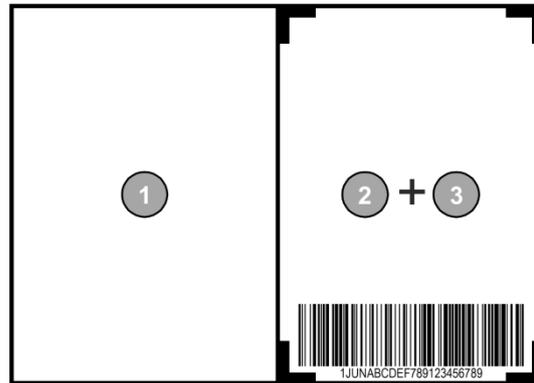
Figure 1 — Overview of the modularized multi industry transport label in A5 format, horizontal orientation



KEY

- 1 = Packaging label module, size: 105 x 148 mm
- 2 = Delivery label module, size: 105 x 74 mm
- 3 = Transport label module, size: 105 x 74 mm
- 4 = Corner marks for Transport label guidance
- 5 = License plate barcode

Figure B.10.1 — Modularized multi industry transport label with three label modules, vertical orientation



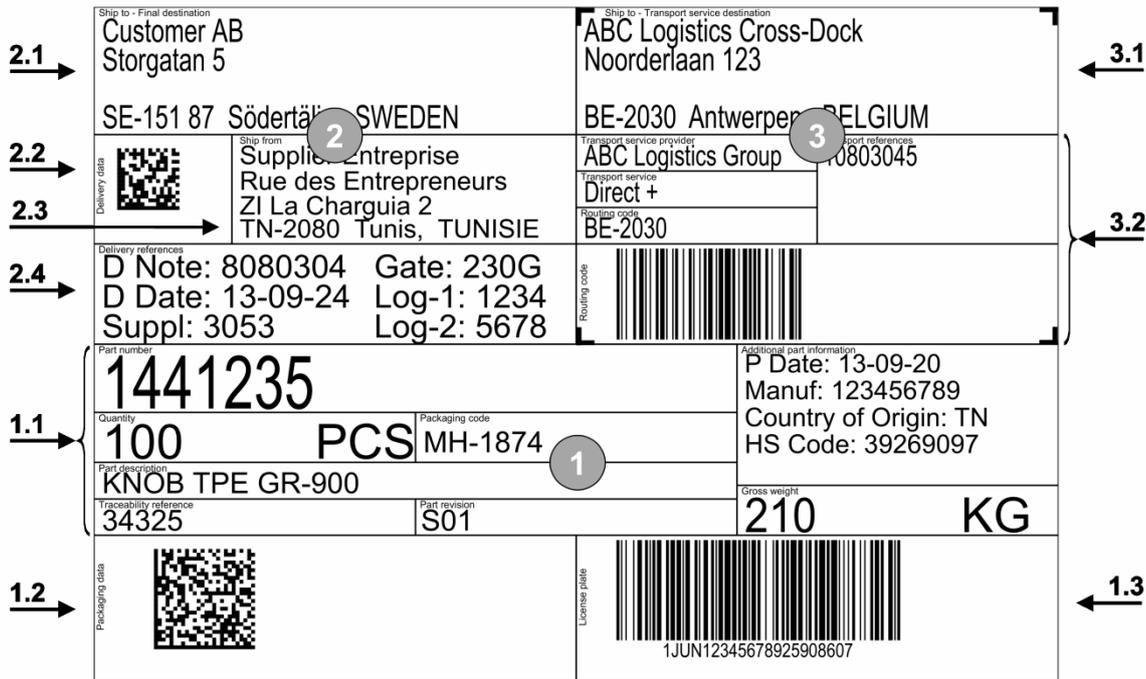
KEY

1 = Packaging label module, size: 105 x 148 mm

2 + 3 = Combined Delivery and transport label module, size: 105 x 148 mm

Figure B.10.2 — Modularized multi industry transport label with two label modules, vertical orientation

Figure 2 — Overview of the modularized multi industry transport labels in A5 format, vertical orientation



KEY

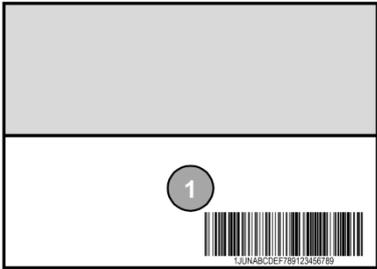
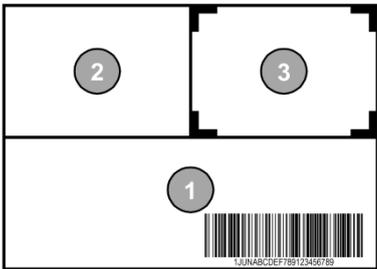
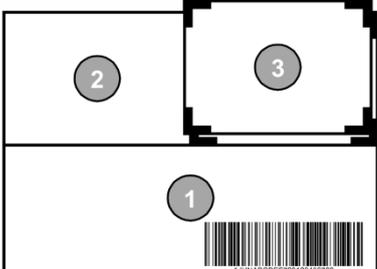
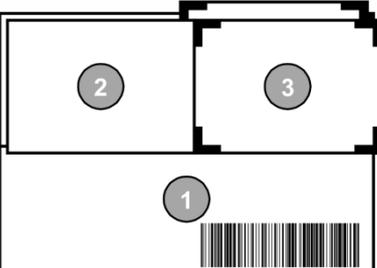
- 1 = Packaging label module, size: 105 x 148 mm
- 1.1 = Product and packaging related information in human readable format
- 1.2 = Product and packaging related information in 2D symbol format
- 1.3 = License plate barcode
- 2 = Packaging label module, size: 105 x 74 mm
- 2.1 = Recipient
- 2.2 = Delivery related information (e.g. order no, delivery note no, logistics references) in 2D symbol format
- 2.3 = Sender
- 2.4 = Delivery related information (e.g. order no, delivery note no, logistics references) in human readable format
- 3 = Transport label module, size: 105 x 74 mm
- 3.1 = Destination for the transport service
- 3.2 = Transport related information in human readable and barcode format

Figure 3 — Example of the modularized multi industry transport label with three label modules in A5 format, horizontal orientation

Application of the modularized multi industry transport label with vertical orientation in different supply chain scenarios is outlined Table B.1.

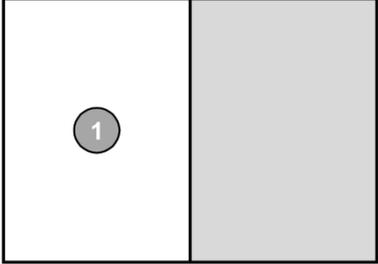
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Table B.1 — Example of application of the modularized multi industry transport label with vertical orientation

Process step	Labelling scenario
<p>Creation of the package (in manufacturing or packing)</p> <p>Printing and attaching the Packaging label (1) to the package (transport unit) before despatch.</p>	
<p>At despatch</p> <p>Printing and attaching the Delivery label (2) and the Transport label (3).</p>	
<p>Cross docking (e.g. shifting transport service provider)</p> <p>If needed: Re-labelling with a new Transport label (3).</p>	
<p>At despatch from the second party</p> <p>Printing and attaching a new Delivery label (2) and a new Transport label (3).</p>	

Application of the modularized multi industry transport label with horizontal orientation in different supply chain scenarios is outlined Table B.2.

Table B.2 — Example of application of the modularized multi industry transport label with horizontal orientation

Process step	Labelling scenario
<p>Creation of the package (in manufacturing or packing)</p> <p>Printing and attaching the Packaging label (1) to the package (transport unit) before despatch.</p>	
<p>At despatch</p> <p>Printing and attaching a combined Delivery and transport label (2 + 3).</p>	