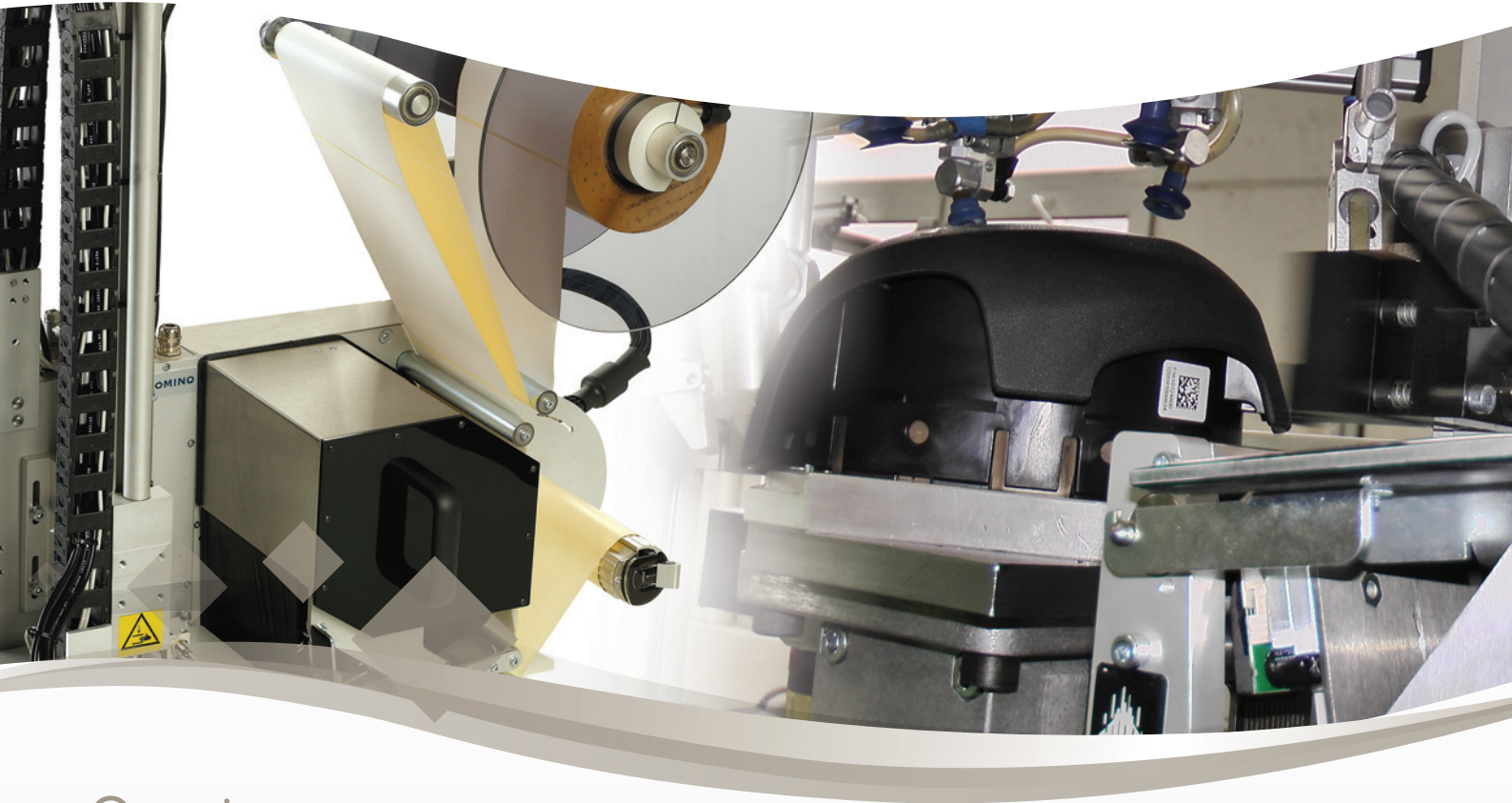


Precision labelling made easy with M-Series print and apply labelling systems



Overview

As a supplier to the automotive industry, Gentner GmbH has specialised in the processing of technical plastics such as polyamides, polyacetals, polycarbonate blends and TPOs since the company was founded.

By applying state-of-the-art injection moulding technologies, the company has grown from a simple injection moulding subcontractor into a competent, reliable and highly productive supplier of safety components for the automotive industry.

“From design to assembly and initial commissioning, Domino was always there to guide us so we never felt out of our depth.” Jurgen Samusch



Key facts

- Three M200-T100 systems for the precision labelling of airbag housings
- Problem-free system integration into the existing infrastructure thanks to a modular design
- M-Design software for creating label layouts
- Additional safety and flexibility thanks to system compatibility
- The unique design of the dispensing tamp enables a wide range of labels to be attached with the same stamp

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Ultra-modern production processes, such as multi-component injection moulding, the monosandwich process and gas injection moulding, are used to produce both technically and optically demanding parts.

When it comes to safety components, the manufacturing and processing data must be verifiable for the specific parts for years after the component has been produced.

With this in mind, the company opted for the flexible print and apply labelling systems from the Domino M-Series, which provide each manufactured part with a label showing all of the data required to ensure full traceability.

Focus on safety

If a car crashes and its airbag does not open, the reason for this must be established. To do so, each airbag must be traceable.

To this end, Gentner purchased three Domino M200-T100 print and apply labelling systems with a precision applicator, which are installed next to the conveyor equipment on a floor stand at a labelling height of 1.80 m and used

to mark the airbag housings. The housing to be labelled is removed from the injection moulding machine using a handling system and positioned in front of the label applicator with an accuracy of +/- 1 mm. As soon as the part is located in the defined labelling position, the customer system sends the printing data to the labelling system as a data telegram via the serial interface.

Labelling is then activated via a potential-free contact. In addition to the item and part number, the attached label also contains a 2D data matrix code, which in turn contains encrypted information about when and on which line the respective part was produced. Identification takes place at standstill. Once the label is applied, the 2D data matrix code is checked using a reader. If it cannot be read, the produced part continues no further in the manufacturing process.

Jürgen Samusch, from the production planning department at Gentner GmbH, explains why his company purchased Domino products; “One of the main reasons we chose Domino was the flexibility involved in using the print and apply labelling systems and of course the services the company offered along with the products. From design to assembly and initial commissioning, Domino was always there to guide us so we never felt out of our depth. Another reason was the problem-free integration of the systems into our existing infrastructure and connection to our manufacturing systems; Domino was extremely supportive, right from the start.”

“By using devices with the same design and installing virtually identical systems, we are in a position to respond flexibly to customer requirements thanks to Domino. With the M-Design software for creating the label layouts, we can deal with problems, adapt layouts, interchange systems and optimise the print quality quickly at all times. Because we also use consumables from Domino, we can always be sure of optimum reliability and quality. If we experience problems that we cannot solve ourselves, Domino’s technical hotline gives us access to qualified technicians who can help us over the phone, which reduces the need for unnecessary service callouts”, concludes Jürgen Samusch.

The high degree of compatibility ensures that every system can be used on every production line. This provides additional safety and flexibility in airbag production.

