

PRESS INFORMATION

Status: 16.09.2019
Rev. 0
Page 1/4

BSH Hausgeräte chooses Kiefel

The new machine concept ensures the highest quality and lowers production costs

The leading European home appliance producer BSH has again opted for a machine from KIEFEL GmbH, Freilassing for their plant in Giengen, Germany. The machine in question is the KID 100/230 BFS-R thermoforming system with forming and punching tools, on which the company produces refrigerator door liners.

The new thermoforming machine concept represents a significant milestone for the factory in Giengen. It enables the home appliance specialist to increase energy efficiency whilst higher output of deep-drawn parts has helped further lower the cost per unit.

Kiefel launched the innovative door liners manufacturing concept onto the market in 2018. Its energy-efficient heating, reliable trimming, reduced set-up times and sophisticated waste management are impressive. In thermoforming, 80 percent of the electrical energy is consumed by the heating process. With the KID 100/230 BFS-R, the Freilassing experts have succeeded in reducing the heating energy by up to 40 percent thanks to a novel heating configuration. The thermoforming specialist made full use of its packaging division's extensive know-how when developing the forming/trimming as part of complex process. A multitude of delivered machines with forming/trimming tools provide solid experience and comprehensive knowledge.

The KIEFEL engineers have also improved the forming process itself. Features such as the fully servo-controlled knee lever system and the tool height difference compensating function ensure first class trimming of components and a trimming knife long service life. Approximately 600 formed and trimmed doors are produced on a 2 cavity tool every hour. Frequent tool change is standard. The new fully automated tool change program handles this within five minutes – entirely unmanned!

PRESS INFORMATION

Status: 16.09.2019
Rev. 0
Page 2/4

The machine concept reduces space requirements by 30 percent and increases performance by up to 300 percent compared with conventional door thermoforming machines.

Other features include lower energy consumption and cost savings thanks to reduced operating and maintenance costs. Lower production costs combined with enhanced product quality – a solid argument for investment in the KIEFEL KID 100/230 BFS-R!

Technical data

KID 100/230 BFS-R

Maximum forming surface	1000 x 2300 mm
Maximum forming height	positive 150 mm, negative 50 mm
Maximum film width	1080 mm
Maximum cycle time	6 Cycles/min, 360 cycles/hour
Maximum number of cavities	max. 4 cavities



BU: Thermoforming machine KID 100/230 BFS-R with forming and trimming tool, for refrigerator liners

PRESS INFORMATION

Status: 16.09.2019
Rev. 0
Page 3/4

(Fact Box)

Kiefel GmbH develops and produces high quality machines for processing plastic films. Our customers include well-known manufacturers from the automotive, medical engineering, refrigerator and packaging industries.

Kiefel has a global presence thanks to our own sales and service branches in the USA, France, the Netherlands, Russia, China, Brazil, Indonesia and India, as well as our sales partners in more than 60 countries.

Kiefel owns the automotive specialist KIEFEL Automotive s.r.o. based in the Czech Republic, the Dutch thermoform toolmaker Kiefel Packaging BV and the Austrian company KIEFEL Packaging GmbH, a supplier of tools and automation solutions.

Kiefel and its subsidiaries employ around 1,160 staff. KIEFEL GmbH is a member of the Brückner group, based in Siegsdorf, which is a family owned group of medium-sized enterprises active in machinery and plant engineering with around 2,600 employees at 29 different locations worldwide.

(Fact Box BSH Plant Giengen)

Over its rich 70-year history, BSH Hausgeräte GmbH's oldest production site has become a high-tech location where refrigerators, freezers and fridge-freezers are developed and produced to the latest requirements and energy-efficiency criteria. Here, the competence center for the development of cooling equipment coordinates the research and development activities for BSH cooling devices worldwide. Our products stand for state of the art technology, reliable quality and sophisticated design.

Giengen is home to the BSH the logistics center, from which refrigerators and freezers produced in Giengen as well as large and small appliances from the other southern German BSH plants are shipped around the world.

PRESS INFORMATION

Status: 16.09.2019
Rev. 1
Seite 4/4

(Fact Box BSH)

BSH Hausgeräte GmbH is one of the world's leading companies in the sector and the largest home appliance manufacturer in Europe.

Founded in 1967 as a joint venture of Robert Bosch GmbH (Stuttgart) and Siemens AG (Munich), BSH has been 100 percent owned by Bosch Group since January 2015. In its over 50 years of history, BSH has grown from a German exporter into one of the world's leading home appliance manufacturers. With around 61,000 employees worldwide, BSH reached revenues in 2018 of around 13.4 billion euros.

BSH produces the entire range of modern home appliances at 42 factories worldwide. The product portfolio ranges from cookers, ovens and extractor hoods, dishwashers, washers and dryers, fridges and freezers to small appliances such as vacuum cleaners, coffee machines or food processors.

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