







Main benefits at a glance

-  **Reliable chain rail sheet transport system**  
Narrow material clamping & compact construction, thus smaller sheets can be used, reducing costs and improving energy efficiency due to better heat area coverage and lower heat requirements for the flange area.
-  **Full control of the forming process**  
Combined diagrams showing all important process parameters, e.g. bubble height, mold movement, pre-suction valve, vacuum valve, set limits and master curve, to enable fast reactions & the best product quality.
-  **Faster heating adjustment**  
Paired upper/lower heating banks enable easy power adjustment of single heating elements, resulting in much faster creation of product recipes and optimization of material heating.
-  **Accurate bubble height measurement**  
Laser measurement of the bubble height, fixed or with motor-driven positioning, provides high accuracy for optimum material distribution and constant wall-thickness of the product.
-  **Pressure bell locking and sealing system**  
Kiefel's patented locking system combined with a solid soft-contact seal between pressure / upper clamping frame, prevents frame deformation thanks to reduced clamping forces; is suitable for vacuum & pressure forming molds.
-  **Low noise machine design**  
Extensive research and noise investigation have resulted in a very low noise machine, minimizing health risks for operators (average noise level <= 80 dBA).



CAT Computer Aided Teaching Software

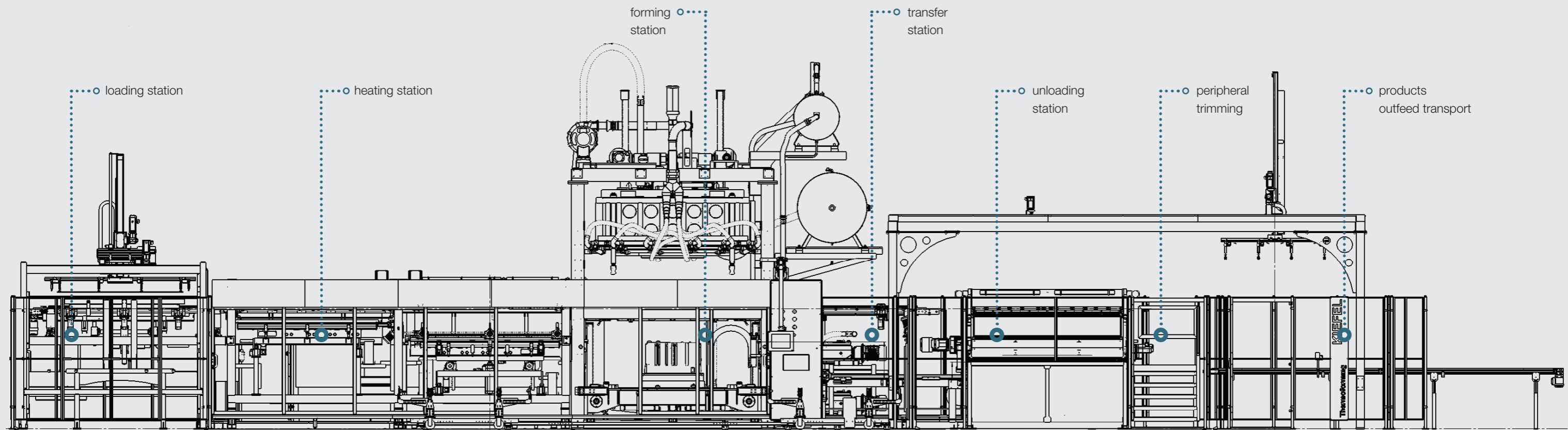


Industry 4.0 – QR-CODE/DATA print



**SHARPFORMER**  
KID PREMIUM &  
SMART

Technical data	KID 1.000 Premium	KID 1.250 Smart
Forming Technology	pre-suction bell/vacuum-pressure	pre-suction bell/vacuum-pressure
Forming Pressure	max. 2 bar	max. 2 bar
Max. forming area	1000 x 2200 mm	1250 x 2100 mm
Min. forming area	500 x 750 mm	500 x 750 mm
Forming height above sheet	800 mm	800 mm
Forming height below sheet	50 mm	50 mm
Sheet thickness	1.0 – 5.0 mm	1.0 – 5.0 mm
Max. mechanical speed	200 cycles/h	150 cycles/h
Product trimming	inline single or double guillotine	inline single guillotine








# Improve your product sharpness with modular high-efficient machine

The Kiefel Sharpformer for refrigerator inner liners

The latest generation of our SHARPFORMER KID 1.000 Premium & KID 1.250 Smart inline thermoforming machines are designed to best attend your production needs.

The special modular concept and the improved vacuum-pressure forming technology enable a higher production speed of refrigerator inner liners made of HIPS or ABS material.

-  **SPEED** – double guillotine dry cycle: 18s
-  **HIGH EFFICIENCY** – machine online > 95%
-  **ACCURACY** – precise repeatability
-  **RELIABILITY** – proven machine concept
-  **PRESSURE FORMING** – for sharper contours

The basic process comprises: automatic loading of plastic sheets from the stack, heating, forming, trimming of the components with an inline guillotine and product unloading. Other special configurations are available upon request, such as punching, laser cutting, C-press, etc.

**Simple, robust, stable, easy maintenance – whether with a SHARPFORMER basic machine or a customized version – You always have the best machine outputs and product quality repeatability!**

