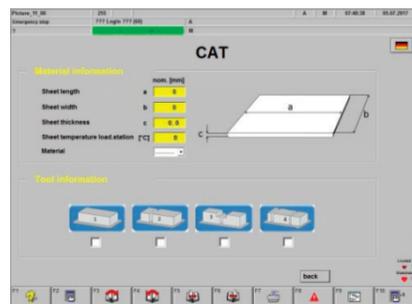


KIEFEL Sharpformer Key Advantages

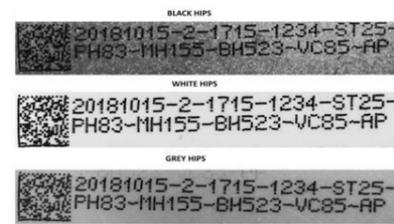
- +** **Reliable chain-rail sheet transport system**
Narrow material clamping and compact construction, thus smaller sheets for reduced costs and more efficient energy use due to better heat area coverage and lower energy to heat the flange area
- +** **Full control of the forming process**
Combined diagrams with all important process parameters at a glance, e.g. bubble height, mold movement, pre-suction valve, vacuum valve, set limits and master curve, to enable for the operator fast reaction and the best product quality
- +** **Faster heating adjustment**
The paired upper/ lower heating banks control makes the power adjustment of single heating elements a simple task, resulting in much faster product recipes creation and material heating optimization
- +** **Accurate bubble height measurement**
Laser measurement of the bubble height, fixed or with motor-driven positioning, provides high accuracy for best material distribution and constant wall-thickness at the product
- +** **Pressure bell locking and sealing system**
KIEFEL patented locking system combined with a solid soft-contact seal between pressure/ upper clamping frame, due to reduced closing forces avoid deformation of the frame and is suitable for either vacuum and pressure forming tools
- +** **Low machine noise design**
Extensive research and noise investigation resulted in a very low noise machine, minimizing health risks for the operator. Noise average level < = 80 dBA.



CAT Computer Aided Teaching Software



e-Portal electronic documentation 24 hours

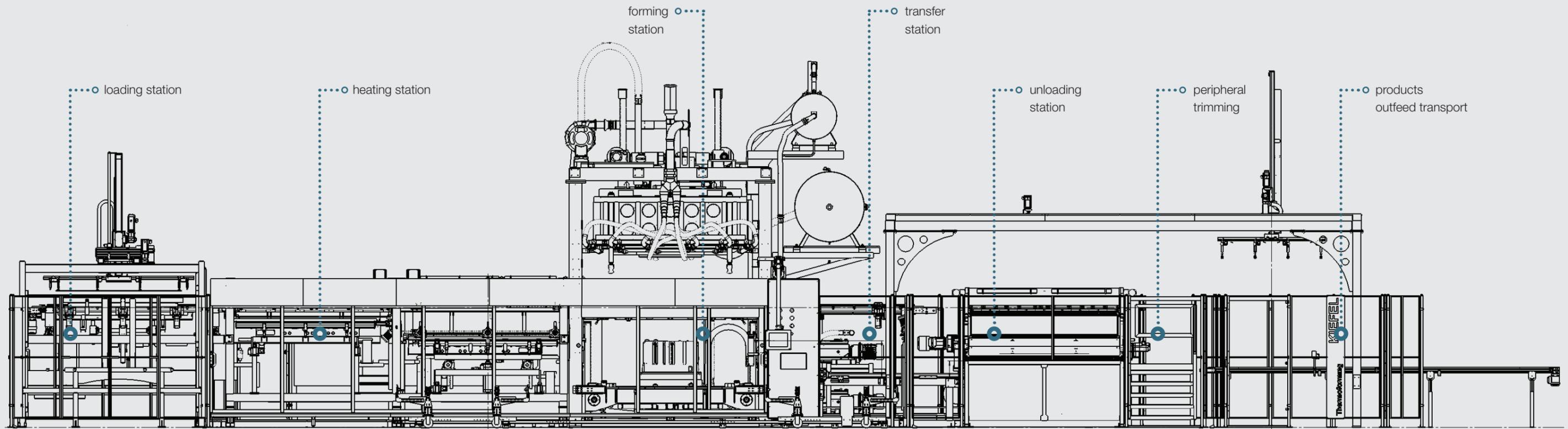


Industry 4.0 – QR-CODE/DATA print



SHARPFORMER
KID/KIV SERIES

Technical data	KIV	KID	KID SxS (Side-by-Side)
Forming Technology	Pre-blow Box/Vacuum	Pre-suction Bell/ Vacuum-Pressure	Pre-suction Bell/ Vacuum-Pressure
Forming Pressure	–	max. 2 bar	max. 2 bar
Maximum forming area	1000 x 2200 mm	1000 x 2200 mm	1250 x 2100 mm
Minimum forming area	500 x 800 mm	500 x 800 mm	500 x 800 mm
Forming height above sheet	800 mm	800 mm	800 mm
Forming height below sheet	50 mm	50 mm	50 mm
Sheet thickness	(0,8) 1,0 – 5,0 mm	(0,8) 1,0 – 5,0 mm	(0,8)1,0 – 5,0
Maximum mechanical speed	23 s/piece (2 guillotines)	18 s/piece (2 guillotines)	23 s/piece (1 guillotine)
Sheet thickness	Inner-liner 120 pcs/h Door-liner 180 pcs/h	Inner-liner 150 pcs/h Door-liner 211 pcs/h	Inner-liner SxS 0-90pcs/h Inner-liner 110 – 130pcs/h



Improve your product harpness with modular high-efficient machine

The Sharp Former for Refrigerator Inner and Door liners

The latest generation of Inline Thermoforming Machines KID / KIV series Sharpformer is designed to best attend your production needs and besides provide you the right solution for different budgets and markets worldwide.

The especial modular concept design combine at the same time high efficiency production of refrigerator inner and door liners made of HIPS or ABS, enabling you to choose within two moulding technologies:

KIV – our realibale well-known vacuum forming technology for standard inner-liners shapes and cost effective production;
KID – our new generation vacuum-pressure forming technolgy for more demanding inner-liner shapes and higher production speeds.

- ⊕ **SPEED** – dry cycle 18s
- ⊕ **HIGH EFFICIENCY** – machine availability >95%
- ⊕ **ACCURACY** – exact repeatability
- ⊕ **RELIABILITY** – proven machine concept
- ⊕ **PRESSURE FORMING** – for more sharp contours

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

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

