

GEISS AG is leading supplier in the field of vacuum forming machines and trimming machines

Manufacturing vacuum forming machines since 1955, GEISS has been known for a long time as an innovative partner in that business. Supporting the system of single-station, closed-chamber vacuum forming machines GEISS has grown into a leading supplier when it comes to complicated parts with high demands.

GEISS has accomplished three outstanding developments, which are unique worldwide. The first development is the **implementation of halogen heaters** in the vacuum forming machines. This evolution reduces heating times of thermoplastics up to 50% and turns machines with this system into the most productive machines of that system.

The second development is the infinitely adjustable clamping system of a closed chamber vacuum forming machine. The lower clamping system (in closed chamber machines called the "window plate") and the upper clamping frame are available as fully and infinitely adjustable systems. The machine user never needs any additional frames, bars, exchangeable parts whatsoever and the machine system is kept warm during mould changes. These inventions (completely programmable and automatically readjusting on request) give the user an extraordinarily high flexibility.

Last but not least, GEISS designs all its machines with a so-called "parametric" system. It allows the customer to choose the optimum machine size for his purpose. There is no need to rely on one of the standard sizes. As the whole design is carried out automatically any risk of a "special design" or "prototype machine" is excluded. In the meantime GEISS produces more than 60% non-standard-size machines.

As the first supplier, GEISS developed **CNC-trimming machines** for vacuum formed parts in 1984. Having delivered more than 400 of these machines, GEISS' know-how and experience are remarkable. Three series of those machines are available. From the light series "ECO", especially designed for vacuum-form-

ers, over the "FZ"-series to the "direct drive"-series for mould makers, the whole market can be covered. No need to underline that even those machines are designed in parametric design, so that any size required can be accomplished.

Since GEISS started the business in 1946 as a mould maker it has been able to gather a lot of experience in this field since then. Specialized on vacuum forming moulds and trimming jigs **GEISS is the only supplier worldwide who can offer turnkey projects** from design to finished product out of one hand.

Trimming machines with **ultrasonic cutting head** amend the programme for automotive suppliers where it comes to invisible airbag weakening systems.

The market for these machines is to a large degree the automotive sector. Interior and exterior automotive parts are produced and finished. A new challenge for the vacuum forming process is the so-called "**class-A**"-surface requirement of exterior car parts.

The second biggest market includes all transport systems such as trucks, trains, aircraft and busses. Interior and – more and more – exterior parts are manufactured in vacuum forming or twinsheet forming.

The refrigerator industry constitutes another big market, particularly for inner liners and door liners. Experimental stages for exterior housings are under development!

In sanitary equipment GEISS is worldwide leading with the experience of nearly 150 machines for forming cast acrylic!

Glass-clear forming, exterior PR signs, light domes for industrial lighting, all these branches rely on GEISS. Reading the **headline** of all GEISS vacuum forming machines' quotes you will understand the GEISS logo "one step ahead": **"Vacuumforming machines of that range are suitable for the forming of each thermoplastic material in each thickness independent of the machine's equipment"**.

GEISS AG
one step ahead

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GEISS trimming machine type "ECO"



pallet for computerized packing



transport pallet



windshield for motorbike



center console