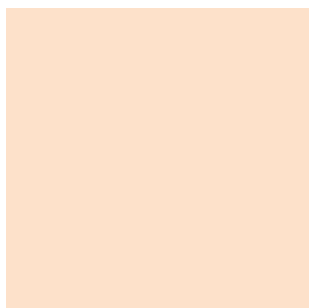
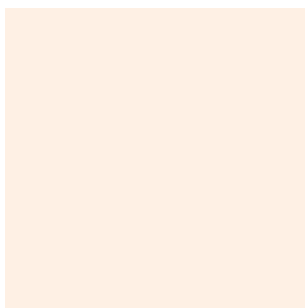


Foam Molds



Plastics  
Technologies  
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**FRIMO covers the entire range of foam mold technologies – from the most simple foam molds for prototype up to most demanding production foam molds. The customer and product specific requirements are always priority No. 1. Our extensive efforts in engineering and simulations for our foam molds and the corresponding development of products round up our range of delivery.**

**FRIMO offers prototype, pre-production and production foam molds for these parts:**

- Instrument Panels
- Airbag Covers
- Door Panels
- Belt Line Trims
- Glove Box Covers
- Knee Protections
- Center Consoles
- Hoods
- Headrests
- Covers
- Seat Coverings
- Pillar Trims
- etc.



## FRIMO Foam Molds

FRIMO offers the right foam molds considering all technical and economical aspects. The feasibility is always depending on the part geometry, quantity required and customer's demands.

### Engineering / Service

- Data-management & Engineering
- Run-off design for retainer and skin
- Positioning simulation Retainer into skin
- Determination of foam thickness for the entire part
- Foam injection simulation
- Demolding simulation
- Pictures showing the temperature distribution along the foam mold's contour

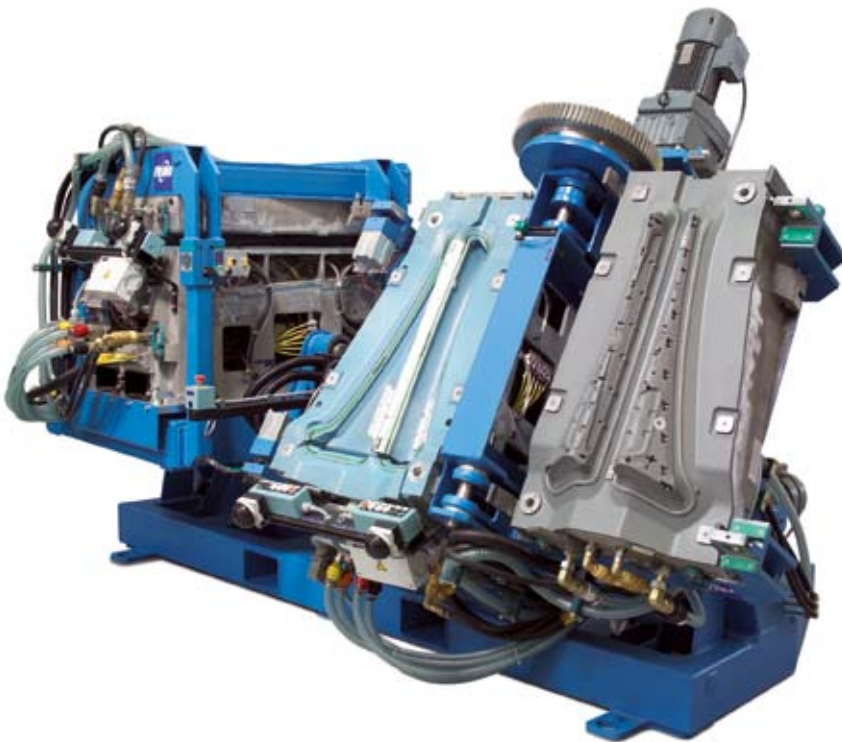
### Prototype Foam Molds

Simpliest foam molds, for up to 100 foamed parts, are built with a lower part in laminate aluminium grit design. Standard prototype foam molds for up to 1000 foamed parts consist already of a lower part in casted aluminium design. The upper parts of the simple prototype foam molds are made of Ureol. For larger quantities we recommend prototype foam molds made of aluminium block material, that means upper and lower part are contour-milled out of aluminium block material.

### Pre-Production Foam Molds

In general these molds are designed like production foam molds, but partially operated manually. These foam molds produce already first parts out of a production foam mold at an early stage. The cycle time still needs to be tuned. At a later time the pre-production foam mold will be retrofitted to operate as a production foam mold.

## From simple to high end



### Production Foam Molds

All FRIMO production foam molds consist of upper and lower parts made of casted aluminium. Depending on the specific demands lid and/or cavity can be front-cast coated or directly milled. The lower parts have pneumatically operated slides and flaps as well as a vacuum system for skin positioning. The foam molds can be designed as stand-alone molds or for installation into a mold carrier.

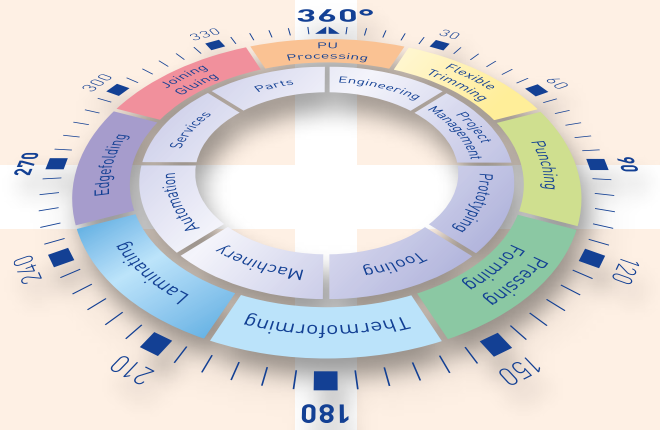


### Advantages

- Small production tolerances
- Long-life tools (longer than product life-time)
- Best ergonomics
- Uniform temperature distribution over the whole mold surface
- Small lateral foam waste
- Simple maintenance and care
- Easy integration into existing production installations / conceptions
- Complete recording of process data
- Nearly unlimited data exchange between mold carrier and mold



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