

# HEYE INTERNATIONAL



mould design at its best to match every filler's requirements

Container glass manufacturing

Apart from access to the necessary know-how, glass container quality is only as good as the quality of equipment and materials employed. Optimal production conditions need detailed attention to mould equipment design and materials. So let's evaluate what's behind sophisticated mould design co-operation and the benefits afforded to container manufacturers.

Its mechanical engineering has set industry standards for more than five decades. Extensive industry expertise, combined with the positive attitude and enthusiasm of Heye International employees is mirrored by the company motto 'We are Glass People'. Its three sub-brands HiPERFORM, HiSHIELD and HiTRUST form the Heye Smart Plant portfolio, addressing the glass industry's hot end, cold end and service requirements respectively.

### UNIMOULD

Based at Obernkirchen, Germany, UniMould GmbH has over 60 years' experience in the production of accessories for the glass packaging industry.

The company delivers quality and service that exceed customer expectations, in a market where quality standards are constantly raised and surpassed. UniMould continually invests in the latest machine tool technology to deliver the highest quality components possible, on time and at a competitive price. ■



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**W**hen the production of a new bottle or jar is planned, besides the mould design itself, attention should also be focused on container design. All this depends on the type of container and whether empirical data (weight analysis, deformation studies etc.) are already available or comparable. Heye International specializes in the know-how necessary to handle new designs.

In the case of traditional and lightweight container designs alike, Heye uses the Finite Element Method (FEM), deriving values relating to the internal pressure situation, head load and impact stress test. This FEM is a simulation software that ultimately reveals if the container with the stipulated weight and wall thickness data meets the filler's requirements.

As an alternative, for ultra-lightweight containers, Heye offers customers the support of a pre-test under real production conditions, either at the customer's production site or at a glass plant within the Ardagh Group.

### COOPERATION BENEFITS

When it comes to the design of moulds and plungers for new

containers, Heye works together closely with its sister company UniMould, which has considerable long-term experience in the manufacture of NNPB/PB plungers, plugs and cooling tubes.

Several years ago, UniMould developed a special and well-proven plunger coating. Together with the high quality mould and plunger material, this coating optimizes the impact and internal pressure condition of containers. Damage to a container's internal surface is avoided by this special plunger material and coating combination.

"This cooperation has resulted in a market leadership position with regard to the performance and stability of glass containers," says Knut Prasuhn, Head of the Service Department at Heye International. "Our customers benefit from this 'one-stop' service and cooperation, generating a wide diversity of valuable experience."

### HEYE INTERNATIONAL

Based at Obernkirchen, Germany, Heye International GmbH is one of the international glass container industry's foremost suppliers of production technology, high performance equipment and production know-how.