

HEYE MULTILEVEL SAFETY CONCEPT

FIRST CLASS SAFETY

TO MAXIMISE PROFIT



HiPERFORM

WE ARE GLASS PEOPLE

 heye  
international

# SAFETY SERVES PRODUCTIVITY

As a global manufacturer of glass plant technology we have recognized an international trend of growing investment into safety conditions. This trend responds to our conviction that safety is a key factor of maximum productivity.

For this reason, we have developed the Heye Multilevel Safety Concept with many patented solutions. This includes improvements and achievements in the fields of engineering, training and equipment – and it is an initiative to meet the strict safety regulations of different international markets, for instance GOST in Russia, OSHA in the USA, CCC in Asia or European standards.



## ENGINEERING

With clear engineering design layouts we aim to create working environments that are safe, ergonomic and clean. For instance, we secure the flow of glass and avoid hot glass in dangerous locations.

Product quality is addressed by reducing the risk of dirt and particles entering the container. The clearly structured production design also makes it easy for your employees to operate the different functions correctly and make unnecessary disruptions a thing of the past.

## TRAINING

Well-trained employees guarantee seamless workflows and provide their managers with essential information on existing and potential problems. Moreover, a properly trained workforce contributes significantly to the attainment of productivity and safety.

Experienced Heye International production specialists provide you with a series of job-specific training courses either at our training center in Obernkirchen, Germany, or onsite at your facilities.

# EQUIPMENT

The development of safe equipment has been a major goal within our R&D activities. All in all, we have considered four fields to be the most important:

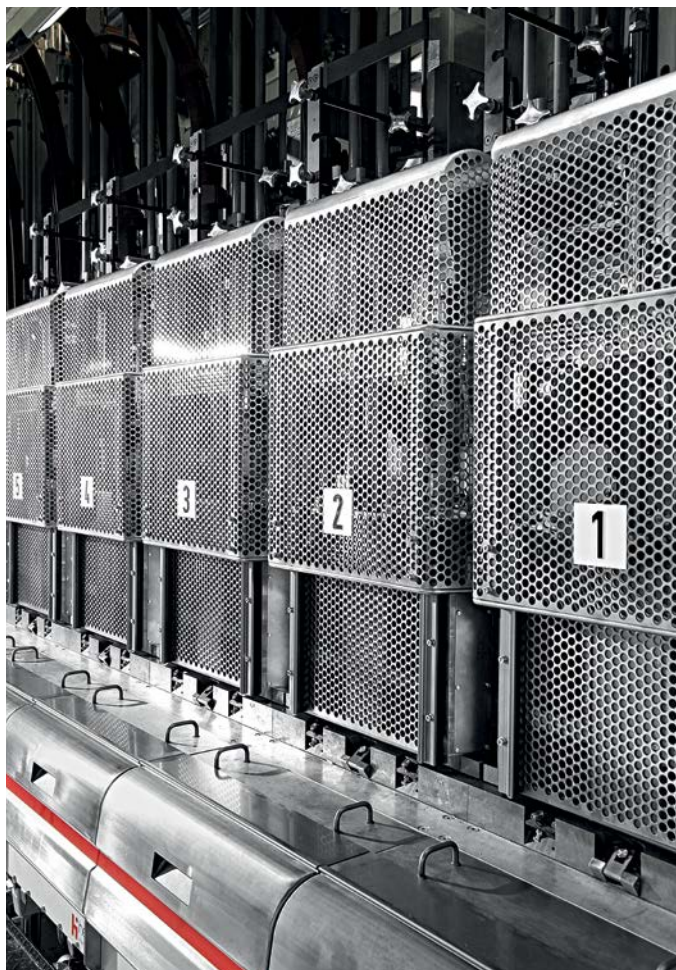
- total forming control for blank and blow side
- a clear and clean design of the equipment
- useful tools and working instruments
- additional protection devices coupled with sophisticated workflows

## Blank Side Protection Grid

A specifically developed protection grid, integrated in the machine control, ensures extra safety on the blank side. E.g. in order to perform the lubrication program of the blanks, the operator pushes the corresponding button, the section is moved into rest position, the grid is lowered and access to the blanks is provided. After the lubrication process is completed, the operator confirms the corresponding button, the grid goes back up and the section goes into operation again.

## Blow Side Monitoring

On the blow side, an infrared sensor monitors the dead plate position for each cavity over the whole cycle of a section. In the event of abnormal heat radiation due to glass handling failures or demoulding the following gobs for the section will be rejected.



## Automation through Swabbing Robot

This powerful robot allows swabbing without container losses or section stops. High safety and process repeatability are guaranteed. At the same time, it manages up to 75 % savings on lubrication. The robot is running on a rail in the overhead beam. This means that the floor is free from obstructions and mould changes can be performed as before. All new Heye IS-Machines are prepared for the installation of the robot. The robot can be combined with the Heye blank side protection grid.



## Safe Valve Block Concept

The new valve block concept is based on an ergonomic design and includes the possibility to integrate our Heye Safety Snap Valve into each line – an effective method to avoid unintended motion of the equipment during maintenance or repair.

## Intelligent Central Lubrication

The new injector generation and our intelligent six cycle central lubrication system ensure the most efficient usage of oil which is only used in the quantity needed at the different lubrication points. The results: Less oil consumption and higher cleanliness of the machine, reducing the risk of fire.

## Clean Design

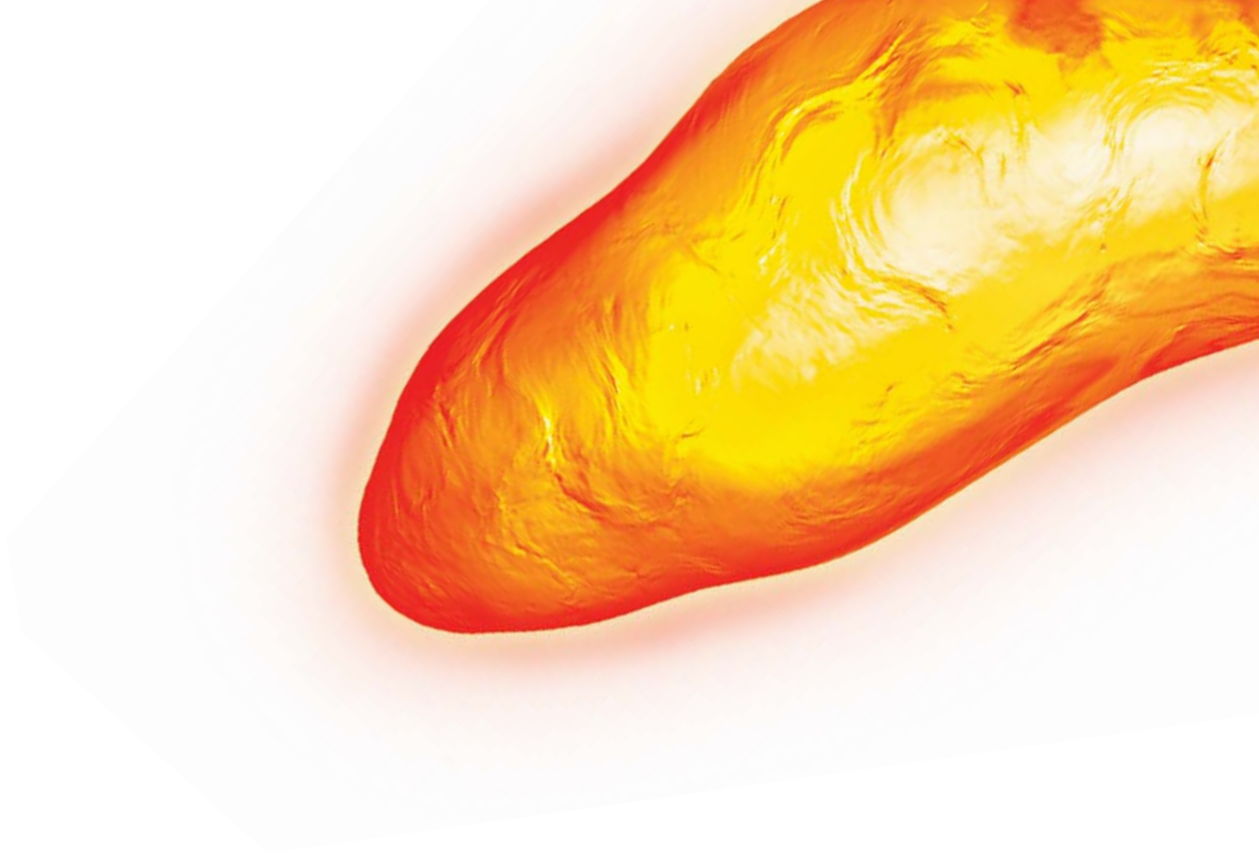
The protection of both the equipment and employees is the main aim of our clean designs. This includes e.g. integrated cable channels as well as specific protection hoods and covers to protect installations and enable comfortable maintenance access.

## Tools & Devices

A number of useful tools are available to increase protection and facilitate everyday work. This includes the blow side heat protection ladder and the blank side lifting device.

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