

NNPB by Heye: Trust the Original



"As the inventor of NNPB technology, Heye is the partner with the most experience in this field."

In a market driven by efficiency and sustainability, Heye's NNPB technology remains a key solution for lightweight glass container manufacturing, offering thinner walls without compromising strength or stability.

Why NNPB? The Heye Advantage

Heye's NNPB technology delivers more than just lightweighting. It combines precise engineering with long-term process reliability. Key benefits include:

- **Material savings:** Thinner walls mean reduced glass usage, leading to lower raw material costs and reduced CO₂ emissions.
- **Lower energy consumption:** Less glass mass per container requires less energy in forming and annealing processes.
- **Improved wall thickness distribution:** Essential for both mechanical strength and aesthetic consistency.
- **Fewer defects:** A more stable process reduces variations and error rates.
- **Higher production speeds:** Optimised forming cycles enable increased output without compromising quality.
- **Sustainability:** NNPB helps achieve environmental goals through lightweight designs and resource efficiency.

As the inventor of NNPB technology, Heye is the partner with the most experience in this field. Numerous successful lightweighting achievements for our customers confirm our leadership.

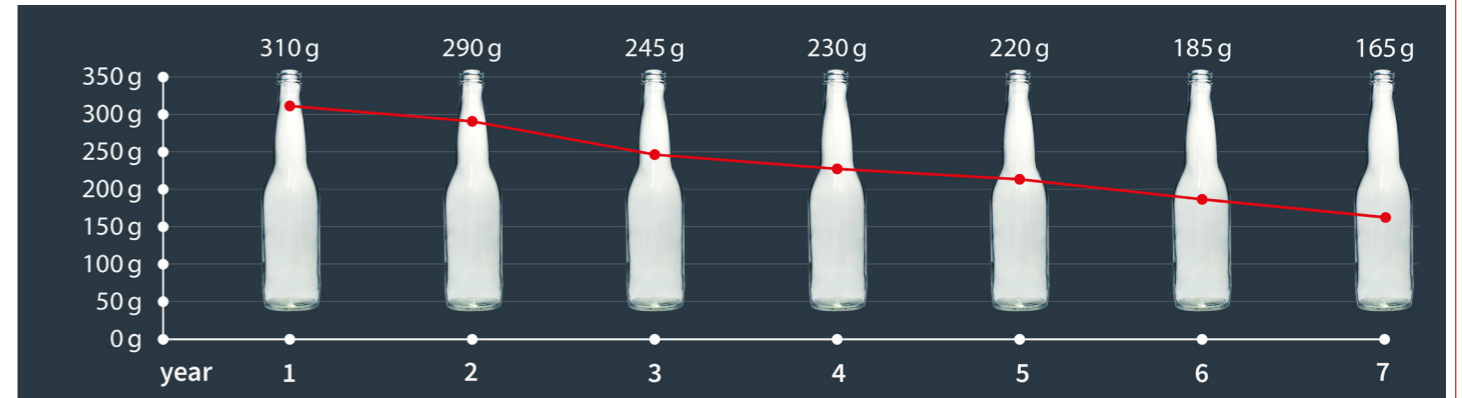
"Our customers can rely on decades of experience. We have achieved significant weight reductions that have given them a decisive edge and helped them take a pioneering role in the market," says Knut Prasuhn, head of service at Heye.

"When it comes to precision, efficiency, and long-term reliability, only the original Heye NNPB technology delivers what others promise."

Technology Meets Practice: NNPB Training Solutions by Heye

To ensure the successful implementation of NNPB technology in daily production, Heye International offers targeted training programmes. These sessions provide practical, hands-on knowledge to help your team gain confidence in applying the technology effectively on the shop floor.

Training can also be delivered as part of a Technical Assistance Agreement (TAA), a flexible framework offering ongoing expert support, process analysis, and knowledge transfer tailored to your specific production environment. This approach ensures long-term success and optimal integration of the technology into your processes.



Heye Process Control (HPC): A Key Support for NNPB

This intelligent system regulates all relevant forming parameters – such as gob weight, plunger movement and timing – in real time. Recommended by global brand owners, HPC results in consistent quality, reduced waste, and higher efficiency. With over 1,000 installations worldwide, HPC has proven itself as a benchmark for process stability and the integration of digital technologies into production environments.

Connecting hpc to SmartLink

To support transparent and efficient process monitoring, Heye SmartLink can be connected to Heye Process Control. It serves as a secure data interface, allowing production data from the HPC to be accessed, stored within the local network and used for analysis or integration into higher-level systems. This connection enables data-driven decision-making and process optimisation without compromising system integrity or security.

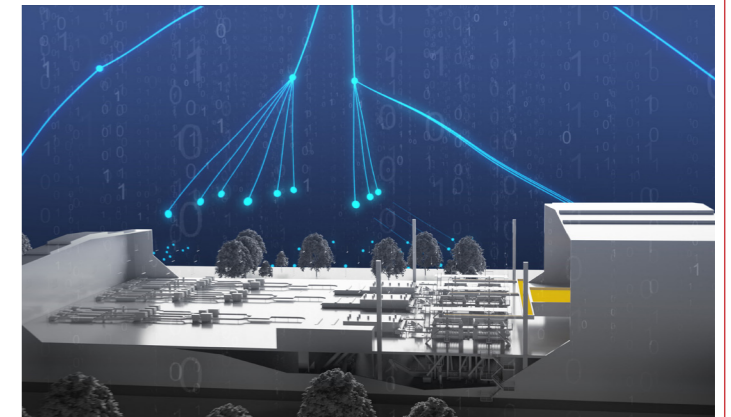
Go for a hpc upgrade - Refresh Your System!

- Newer HPC generations offer:
- Enhanced process stability
- Real-time data access and analytics
- Improved energy and resource efficiency
- Predictive maintenance features
- Easy integration into smart factory environments

Upgrade your Heye Process Control – unlock the full potential of your NNPB line and contact the Heye sales team for tailored upgrade options and support.

ABOUT HEYE INTERNATIONAL:

Based in Obernkirchen, Germany, Heye International GmbH is one of the container glass industry's foremost suppliers of production and inspection technology, high-performance equipment and



production expertise. Our mechanical engineering has set industry standards for more than six decades, significantly contributing to our customers' success.

Heye's vision is to ensure the highly cost-effective, sustainable and safe operation of glassworks worldwide and thus further strengthen the position of glass as the packaging material of the future. We consider glass the purest and most natural packaging on our planet. Our actions are driven by experience, courage and passion.

Thus, we make a positive impact on the environment and health, fostering a sustainable future. Today. Tomorrow. Together.

Further information:

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