CONTAINER GLASS · SIMULATION-LED ENGINEERING

SEE GLASS FROM A NEW PERSPECTIVE.

> "From bottle concept to first production, backed by science instead of trial and error."

Empakglass – Performance Solutions provides technical support to glass manufacturers, fillers and distributors, from concept and mould design to on-site help and troubleshooting.

We follow a scientific approach backed by our own software tools, moving beyond empirical methods to results that are closer to real production.

Our aim is simple: reduce the time to market, from the bottle concept to the first production. Our training and support are given by our own field technicians.

WHAT WE DO.

STRATEGY & MARKETS

Greenfield projects · Margin contribution studies · New markets support · Risk analysis

CONTAINER DEVELOPMENT & MOULD DESIGN

Container design · Parison design & forming simulation · Mould cooling analysis · Stress analysis · Gauges

QUALITY CONTROL & INSPECTION

Product & process audits · HACCP · Container improvement · Inspection SOPs · Packaging development

MOULDSHOP MAINTENANCE

Mouldshop software · Statistical analysis · Equipment lifetime calculation · Construction support

IS PRODUCTION & MAINTENANCE

IS maintenance · Line start-up · Job change SOPs · Forming & glass conditioning

BATCH & FURNACE

Batch & furnace software · Furnace optimisation · Glass composition · Operational support

SOFTWARE & SIMULATION.

PAKFORMING®

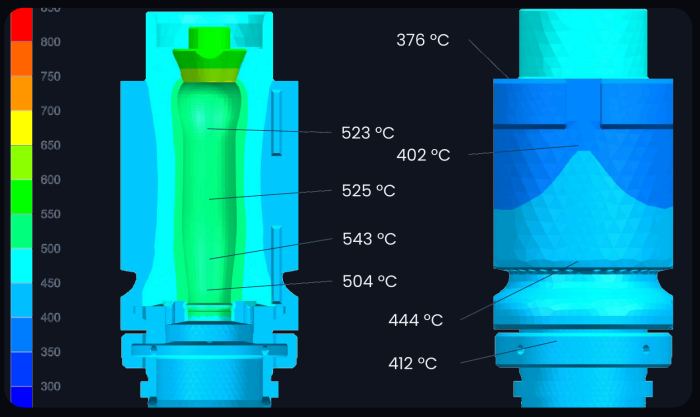
Engineering software to analyse the container forming process. Simulate production on a computer, not on the shop floor: follow the glass frame by frame, from the gob landing in the blank mould to the final wall thickness, and predict the glass distribution before the first production run.

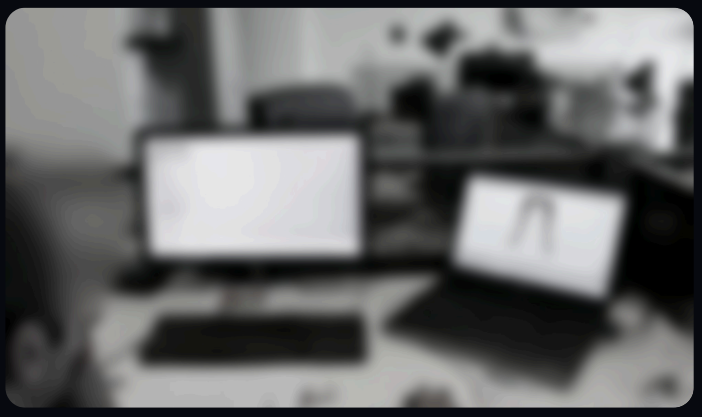
PAKTOOLS®

The pocket-knife software for the glass industry: one simple package for all departments, linking glass properties to the IS machine and timing.

FORMING SIMULATION × FEA

The real glass distribution is carried into the stress model to determine breakage percentages and to simulate filling-line and transport handling. Every bottle gets its own answer: the same cooling concept does not win on every bottle, so we simulate each one.

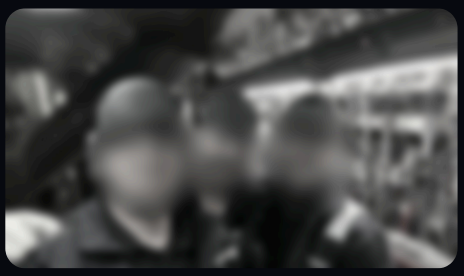




TRAINING PROGRAMMES.

GIVEN BY OUR OWN FIELD TECHNICIANS, AT YOUR PLANT OR AT OUR OFFICE

- Mould design & Product development · 4 days
- Glass container technology · 3 days – 24 hours
- Cold end & quality control · 4 days – 32 hours
- Glass container plant audits · 2 days – 16 hours
- Food safety for glass container plants (ISO 22000 / FSSC 22000) · 3 days – 24 hours
- Breakage analysis · 1.5 days – 12 hours


WHERE WE WORK.

2012
Lisbon · Portugal

2021
Gabrovo · IS production

2021
Plovdiv · Mould design

2024
Hyderabad · India

OFFICES & PARTNERS

Lisbon: Rua Diogo Cão, Nº6, Loja 8, 2660-445 Sto. António dos Cavaleiros. Our IS Department has been running since 2014.

ENNIONSTUDIO, our Creative Design Studio Partner: glass container design that is producible on IS machines (www.ennionstudio.com).

TALK TO OUR TEAM

Lisbon · Gabrovo · Plovdiv · Hyderabad

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