



OUR COOPERATION PARTNERS



**otto
systems®**
A YUDO and Otto Hofstetter Company



Otto Hofstetter AG

ABOUT US

We are a young, dynamic and innovative company relying on an experienced team – some of us have been active in the beverage industry for more than 20 years. Our administration and sales organization has its headquarters in Izmir, Turkey. The R&D engineering team is based in Bavaria/Germany, close to our production site. The customized preforms of the specified design are sampled in our laboratory in Switzerland.

Mint-Tec® and Neck-Lite® are trademarks of
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NECK-LITE® THE INNOVATION

The ‚Neck-Lite‘ (pat. pend.) technology of CPS now permits to clearly **reduce the wall thickness below the bottle neck** in PET bottle production and to permanently **save the material** in question. This is achieved by leaving 4 to 12 equispaced ridges serving as melt channels through which the hold pressure can be kept effective for the avoidance of shrinkage. By this the bottle's neck retains its tight tolerances which guarantee the tightness of the closure. These ridges or melt channels form a sort of window which at first glance doesn't at all look like a weakening, but on the contrary like a brace.

It suggests a **strengthening** of the area despite the fact that material has been removed. Apart from this the reduced wall section supports the blowing process in that reheating in the blowing machine **requires less energy in the neck area**. By this we also achieve more longitudinal stretching which gives the material a **considerably higher stiffness**. The blowing process causes the windows resulting from the hollowing-out to resume the original outer diameter so that there are no negative effects for the subsequent handling and filling.



THE
INNOVATIONS
ARE APPLIED
ALREADY ON
THE PREFORM!

MINT-TEC® THE INNOVATION

Mint-Tec® (patented) is a highly **innovative technology** to press the preform base into **optimum shape** for the subsequent blowing process. The effect is a **significantly reduced wall thickness** of the preform base while the base surface is increased. As the warmest spot of a preform after injection moulding is the base, very little force is needed to bring the base into optimum shape. Our **special minting device** shapes the conical or spherical base of the preform directly after injection moulding in the first heat.

The Mint-Tec® unit is designed to use the reheating effect directly after moulding to **decrease the base wall thickness and increase the outer surface of the preform by means of a gentle, but fast minting process**. At the end of this shaping process the preform is in contact with the cooling sleeve where cooling takes place very rapidly thanks to the **reduced wall thickness** and the increased outer surface.

THE BENEFITS ARE: UP TO 8% LIGHTER BOTTLE WITHOUT COMPROMISING BOTTLE PERFORMANCE!

Cost Savings in relation to
PET resins as per the sample
below:

Preformproduction: 96 cavities
Initial Preform Weight: 25.0g
Realized Preform weight: 24.0g
Saving: 1.0g
Cycle time: 9sec

Annual Material saving:
**323 TONS OR
355.000,- € PER
YEAR**
(AT 1.100,- € / TON)



NECK-LITE® YOUR ADVANTAGES

- Neck-Lite® allows a **saving of 1-2%** of the total PET bottle weight.
- The Neck-Lite® solution offers a **perfect preform neck** in the trend to less weight: **extended surface** and **reduced wall thickness** underneath the support ring!
- Neck-Lite® can be used for **bottle optimization** by **modification of the neck splits** in the injection mould with an attractive ROI!
- Neck-Lite® is a **unique develop-ment in the PET market** leading to highest efficiency and reliability.
- Neck-Lite® Preforms support a **shorter cycle time** and a **significant energy saving** for the blow moulding process, while a reduced heater lamp power saves energy!

MINT-TEC® YOUR ADVANTAGES

- Mint-Tec® allows a **saving of 3-6%** of the total PET bottle weight.
- The Mint-Tec® solution offers a perfect preform design in the trend to less weight: **extended surface and reduced wall thickness** at the base!
- Mint-Tec® can be used for **bottle optimization without modification of the injection mould**. A core change with an attractive ROI is required to achieve the weight reduction!
- Mint-Tec® leads to **significant energy savings** in the blow moulding process.
- Mint-Tec® is a **unique development in the PET market** leading to highest efficiency and reliability.
- Light base bottles and shorter cycles at the same time for the injection AND blow moulding process!