Mould saving: LUBEN GLASS' groundbreaking mould maintenance project

A leading manufacturer of machinery for the glass industry, LUBEN GLASS has developed advanced solutions for mould maintenance, ensuring that the volume and precision of the surface remain unchanged. Called the 'Mould Saving Project,' this visionary approach comes to life through two key technologies: ultrasonic washing and advanced polishing with the VR1 machine.

When it comes to moulds, each is typically responsible for reproducing the desired shape with precision whilst maintaining its volume over time. That said, mould maintenance is a delicate process that requires attention - lest wear and dirt compromise their efficiency. Indeed traditional maintenance techniques (cleaning and polishing) can lead to risks of mechanical wear or abrasion on the mould surface, resulting in increased mould volume. Here Luben Glass' solutions are designed precisely to avoid such issues. The use of ultrasonic technologies and non-abrasive polish-

ing with VR1 ensure that the mould surface remains intact - with no risk of altering the volume.

ULTRASONIC WASHING: DEEP AND PRECISE CLEANING

Using high-frequency acoustic waves, the Luben Glass ultrasonic system generates vibrations that effectively remove dirt and impurities without coming into direct contact with the mould surface. This process enables targeted cleaning while keeping the mould geometry unchanged. The main feature of this technology is that it exerts no abrasive mechanical action on the mould surface; thus, the moulds remain as good as new, with perfectly replicable volume and surface retention at each production cycle.

VR1 POLISHING: PERFECT FINISHING WITHOUT REMOVING MATERIAL

After the cleaning process, polishing the moulds is a delicate operation, as any type of abrasive could remove some of the material from the surface of the mould, which could affect the final quality of the product. Luben Glass has developed the VR1 polishing machine, an innovative machine that allows moulds to be polished without removing any material from the surface. Using advanced technology, polishing is done through a process that exerts no abrasive force, avoiding altering the volume of the mould. Thanks to this system, moulds not only recover a perfect finish. They also retain their original characteristics - ensuring a high-level production process.

'MOULD SAVING PROJECT' BENEFITS

- Maintenance of Volume and Geometry
- By using nonabrasive technologies, the 'Mould Saving Project' allows the volume and geometry of the mould to remain unchanged over time.
- Longer mould Durability

Thorough maintenance by ultrasound and advanced polishing with VR1 increases mould life

- Better Quality of the Final Product

A well-maintained mould produces bottles with perfect finishes, with no defects or irregularities in the surface. This results in superior quality glass bottles that meet the aesthetic and functional requirements of the market. ■

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