

ZYAROCK® lehr & lift-out rollers

Flat glass annealing & conveying at its best



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State-of-the-art technology for optimal glass conveying

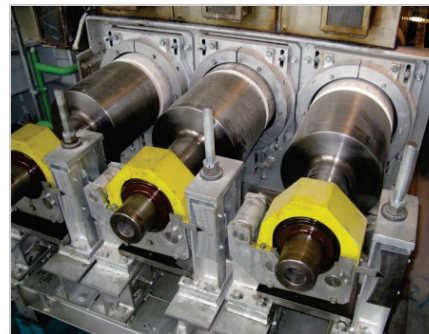
ZYAROCK® is the VESUVIUS brand of all fused silica products and technical solutions developed for the glass industry. VESUVIUS is the market leader in the supply of fused silica rollers for demanding applications such as flat glass and steel strip annealing. ZYAROCK® lehr & lift-out rollers are used to convey a ribbon of flat glass through a horizontal annealing furnace in a temperature range from 700 to 300 ° C. The rollers are designed to fit process requirements and manufactured with tight tolerance and control on surface roughness and dimensional accuracy.

ZYAROCK® lehr & lift-out rollers benefits

- **Geometrical stability – during installation and operation**
High purity fused silica material is selected for the manufacturing of ZYAROCK® lehr & lift-out rollers and a specific technology is applied leading to a homogenous and solid ceramic body that shows excellent hot rigidity performance. No deflection during hot installation and constant diameter from roller to roller throughout the temperature range, ensuring a consistent rotation speed.
- **Smooth surface and inert against tin or tin oxide**
ZYAROCK® fused silica material used to manufacture lehr & lift-out rollers is characterized by its very stable oxide form having non-wetting behaviour versus metallic elements. Tin or tin oxide carried over by process deviations does not react with the roller surface due to the specific surface characteristics and can be easily removed.
- **Increased quality, lower costs**
Glass quality improvements and reduced rejects are achieved through significantly reduced sulphate build-ups as compared to steel rollers. Through its very low thermal conductivity, ZYAROCK® lehr & lift-out rollers provide the best choice for a controlled annealing process leading to a low distortion glass without micro cracks and a low stress and even glass ribbon.

Tailored solution for your requirements

VESUVIUS designs and manufactures ZYAROCK® lehr & lift-out rollers to fit your applications and requirements. Typical roller diameters are from 150 up to 330 mm and overall length up to 7000 mm. All VESUVIUS ZYAROCK® lehr and lift out rollers are subject of a detailed engineering review with both lehr builder and final operator to ensure best service performance.



12" diameter ZYAROCK® lift-out rollers in operation



6" diameter ZYAROCK® lehr rollers in use for manufacturing of architectural float glass

Where to find information about ZYAROCK® lehr & lift-out rollers?

Contact us: www.zyारock.com
Website: www.vesuvius.com