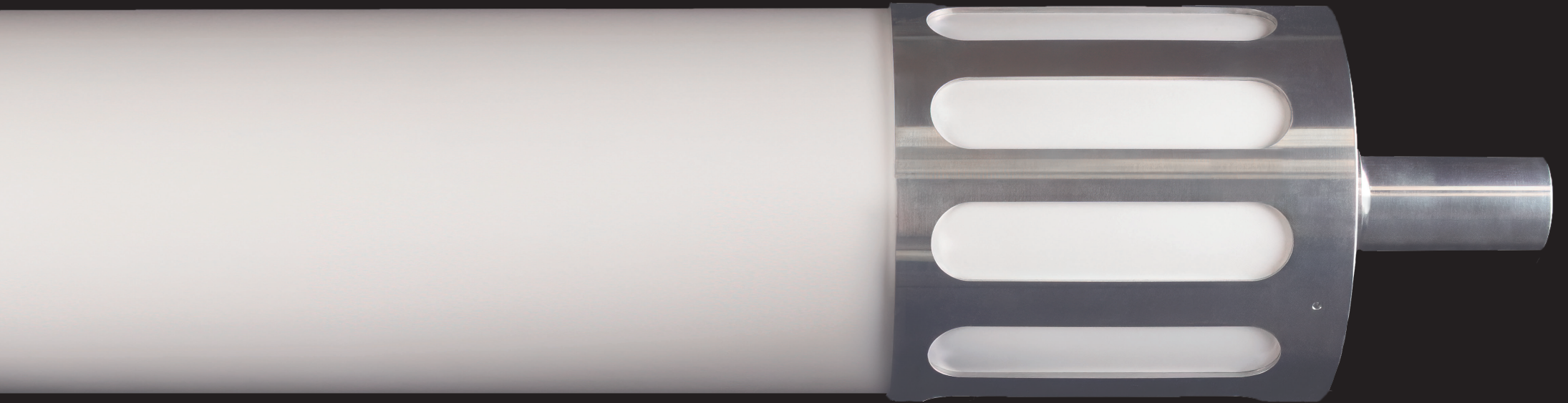


Think beyond. **Shape the future.**



## **SMARTLY DRIVEN\* PLUS for Lift-out & Lehr rollers**

NEW HIGH-PERFORMANCE MECHANICAL ATTACHEMENT



# SMARTLY DRIVEN\* PLUS for Lift-out & Lehr rollers

## STATE-OF-THE-ART TECHNOLOGY FOR OPTIMAL GLASS CONVEYING

ZYAROCK\* lift-Out & Lehr Rollers are used to convey a ribbon of flat glass through an annealing furnace in areas where the glass is cooled-down from 800 °C to 300°C. VESUVIUS\* is the market innovative leader in the supply of fused silica rollers for high-end demanding applications, and is now pleased to introduce the SMARTLY DRIVEN\* PLUS solution for applications such as display and ultra thin glass. Available in solid or hollow rollers.

### ZYAROCK\* SMARTLY DRIVEN\* PLUS for Lehr & lift-out rollers benefits

- + Improved Reliability
  - Unique mechanical system with no risk of unsticking endcaps
  - Compatible for installation in hot conditions
- + Improved Driving
  - TIR:  $\leq 0.15\text{mm}$  for LEHR
  - TIR  $\leq 0.3\text{ mm}$  for LOR
  - Stable TIR during Life Span
  - Better torque transmission
- + SMARTLY DRIVEN\* PLUS
  - Available for both Solid or Hollow rollers
  - Diam. up to 330mm
  - For roller with length Up to 7000mm
- + Higher Temperature of Use
  - Up to 250°C for roller with OD  $< 200\text{mm}$
  - Up to 150°C for roller with OD  $> 200\text{mm}$
- + Better Sustainability
  - Chemicals free connection
  - Corrosion protection Chrome6 free



### RELIABILITY in use and during installation for both LOR and Lehr Rollers

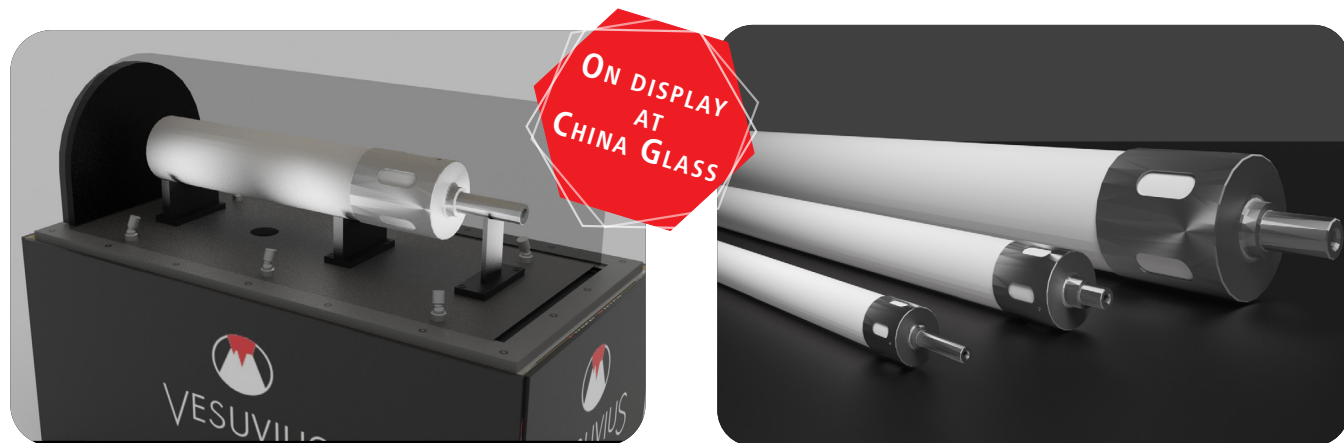
VESUVIUS SMARTLY DRIVEN\* PLUS introduces a breakthrough fully mechanical attachment system.

VESUVIUS' innovation no longer relies on organic glue that could be destroyed by overheating, causing endcaps to unstick. This new solution answers the markets need for reliability by removing the risk of endcaps unsticking and bringing improved and consistent TIR geometrical values. After an unforeseen overheating, the roller sustains its original driving characteristics and eliminates the need for hot and urgent maintenance, thereby reducing cost and downtime.

### SMARTLY DRIVEN\* PLUS connection, a wider application range

The SMARTLY DRIVEN\* PLUS technology operates continuously in a larger range of temperature and resists a peak exposure up to 350°C for more than one hour. This system supports a short time excessive torque.

Each piece of ZYAROCK lift-out and Lehr rollers are subjected to a detailed engineering review to ensure best VESUVIUS service performance.



 Think beyond. **Shape the future.**  
Website: [www.glass.vesuvius.com](http://www.glass.vesuvius.com)

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