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Importance of Ceramic Roller Quality & Maintenance to Tempered Glass Quality

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Keywords

1=fused silica 2= Roller 3=distortion 3=TIR (total indicated run-out)

Abstract

With the market demand and technique development, the tempering glass industry is facing more and more opportunities and challenges. Heat-treating system of glass has undergone significant evolutions, from vertical tong tempering to horizontal roller hearth, to continuous furnaces and oscillating systems. Fused silica ceramic rollers, heating auxiliary furnace air and compulsory convection furnaces have also been introduced. Following the demand for various functions of glass, new glass products are developed and new related specifications getting stricter. Meanwhile, with the birth of new products, which are based upon processing equipment, the revolution of products has resulted in the transformation of the above heat-treating systems.

High-purity fused silica ceramic rollers are playing a critical role in the process. When getting soft, glass keeps in touch with rollers, which directly influence the glass quality. Vesuvius high quality ceramic rollers provide long life span and improve the glass quality, to enhance the competitiveness of the glass product in the market.

It's widely known that strong understanding of the heat-treating system of glass and skillful practice operation is critical for high quality glass, but it's not the only guarantee. Profound knowledge of the ceramic rollers and proper & timely maintenance and excellent premise management are also taking unexpected effects.