

CLEAN ROOM ACCESS ASSURED WITH TORMAX

Measured and tested under the cleanroom standards laid down by the current global International Standards Organization (ISO), the TORMAX TX9000 hi-spec automatic sliding door system was identified as one of the cleanest systems available on the market today.

“Our system has been classified as clean as ISO 14644-1 Class 2 standard,” confirms Mark Johnson, President and CEO of TORMAX USA. “This is considerably more rigorous than the old GSA Federal Standard 209E Class 1 that many automatic door operating systems are still classified under. Specifiers need to understand that the ISO Class 3 standard is in fact equal to the old FS209E Class 1 standard. The Class 2 standard which our system has achieved doesn’t even have an equivalent in the old classification.”

A cleanroom is any controlled environment that has a low level of pollutants such as dust, airborne microbes, aerosol particles and chemical vapours which could adversely affect manufacturing processes. They are commonly used in semiconductor and electronics manufacturing, the pharmaceutical and biotech industries, medical device and life sciences, as well as critical process manufacturing found in aerospace, optics and the military. ISO cleanroom classifications are rated according to how much particulate of specific sizes exist per cubic meter.

An automatic entrance can contribute to improved air quality, reducing the need for users to touch the door while providing a seal with good integrity once closed. An airlock utilizing two sets of automatic doors can further reduce internal pollution levels. Delivering an extremely stringent automatic sliding entrance system, the TORMAX TX9000 was tested using the in-house designed iMotion® 2301 direct drive combined with quality vinyl seals to deliver a system that is classified clean to the ISO Class 2 standard.

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Suitable for use in almost all critical cleanroom facilities, the TORMAX system also delivers unparalleled reliability in the long-term. "In any cleanroom, maintenance significantly disrupts production processes. A reduction of downtime has to be a factor for consideration when specifying an automatic access door," emphasises Johnson.

The iMotion® 2301 is designed without any of the usual parts that wear out, such as brushes and gears. This significantly cuts maintenance requirements and delivers a near-indefinite life expectancy. In addition, an intelligent micro-processor control system ensures permanent monitoring of door leaf movements. Door function is automatically adjusted and optimised if operating conditions change through general wear and tear or a change in temperature for instance.

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