

Case Study

STMicroelectronics.

Processing and shipping up to 19 million items a day.





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Challenge solved.

STMicroelectronics, the third largest, independent semiconductor company in the world, designs and sells almost every type of semiconductor, offering more than 3,000 main product types.

To maintain its current position and provide for future growth; STMicroelectronics constructed a new purpose built assembly and test facility to handle inplant inventory.

Dexion was contracted to design and implement an automated storage and retrieval system capable of processing and shipping up to 19 million items a day. The concept for storage and order fulfilment is based on an automated bin storage and retrieval system (AS/RS), utilising mini-cranes.

Products and services used.

The purpose-designed racking system is 20 bins high and 92 bins long in seven aisles, provides a total of 25,536 locations for tote bin storage.

Seven fully automatic high speed mini-load cranes are operating in the new facility and each has a dedicated in-feed conveyor line. Bins are conveyed to an allocated crane aisle, dictated by the bin management system which is controlled by Dexion’s Realtime Distribution System (RDS).

