

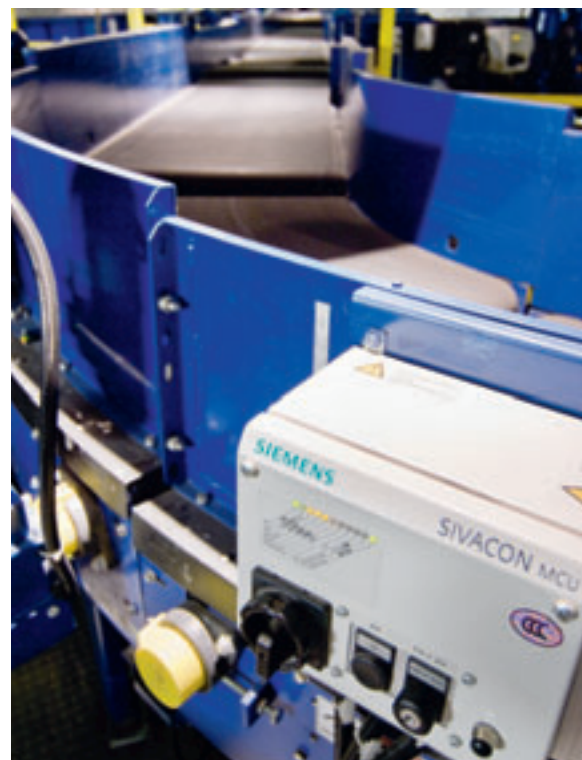


Beijing International Airport: A modern airline hub in China

Totally Integrated Automation

Answers for industry.

SIEMENS



The requirements

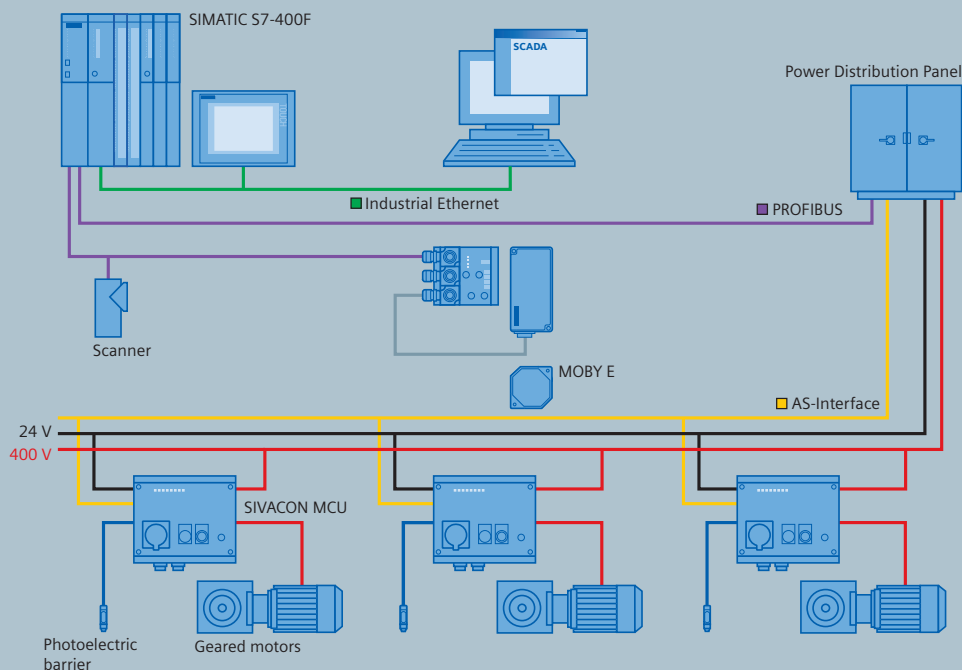
The Summer Olympic Games were undoubtedly the sporting highlight of 2008, while at the same time presenting a tremendous challenge for the available infrastructure. Beijing was expecting a deluge of visitors to the Games – in addition to the many millions of people who visit China's capital every year. The capacity of Beijing International Airport therefore had to be increased to cope with this rush.

The solution

The new Terminal 3, which has more than doubled the annual capacity of Beijing International Airport from 30 to 66.5 million passengers. The "heart" of the terminal is one of the world's largest and most modern baggage handling systems. Its outstanding features include:

- 330 check-in desks
- 68 km of conveying systems
- Approximately 12,000 drive systems, consisting of high-performance geared motors with efficiencies of 94 to 96 % – combined with distributed motor starters and frequency converters
- Distributed control of the geared motors with SIVACON Motor Control units
- Over 100 high-performance PLC's (Programmable Logic Controller) from the SIMATIC S7-400 range – including a number of high- available failsafe PLC's
- 42 bar code scanners
- 222 RFID reader stations for tray identification
- 15 manual encoding stations

The distributed drive systems are linked via an AS interface. This bus system is ideal wherever no large quantities of data have to be transmitted to and from the automation components. Its outstanding features are: ruggedness, ease of installation and quick replacement of components.



The advantages

Terminal 3 went into full operation, on schedule, in March 2008. One of the contributory reasons was that the technologies and components used had undergone extensive tests in the globally unique Siemens Airport Center. As a result, the customer could rest assured that its requirements would be met right from the very beginning – and, what’s more, the entire project would be completed within a considerably shorter time.

The system can sort and transport up to 19,200 bags per hour. MOBY E systems, a form of RFID technology from Siemens, are used for identifying the baggage trays. Their outstanding reading quality not only reduces the rate of misdirected baggage but also enables a higher sorting speed. All these factors put the airport operator in the best position to handle the flood of visitors to the Summer Olympic Games.

The new system benefits from all the advantages characteristic of Totally Integrated Automation, including optimum harmonization of all the components used, and problem-free expansion of the baggage handling capacity whenever it becomes necessary. During system operation, the customer can of course depend on competent and reliable service and support – 24 hours a day, seven days a week.

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