

Solutions for stage automation

# Ultimate show effects with virtuoso stage automation

SIMOTION & SINAMICS: Motion control system and drives for the fascinating motion control of upper and lower stages, Stage Technologies Ltd., London, Great Britain

Stage Technologies Ltd. is one of the leading specialists for theatre automation and realizes turnkey stage technologies for customers around the globe – including prestigious organizations and iconic venues.

## Stage is free for moving moments

The systems of this London-based company, which have already received multiple awards, control lifts and powerful flying rigs. They therefore play a decisive role in ensuring that industrial premieres and unique moments in the history of live entertainment come across realistically.

The Maxis SI theatre control system was developed specifically for demanding live events. Its architecture can be extremely flexibly designed to control just a few up to hundreds of motors. Not only this, motors of every power rating and size can be controlled – even by wireless. This is ensured by the SINAMICS S120 high-performance drive system that has proven itself many times over in industrial environments. SINAMICS S120 is a fixed component of Maxis SI.



Image Source Rob Moore

## Well-proven technology in the limelight

The heart of the system is the innovative SIMOTION D motion control system integrated in the drive system. Since it can be freely programmed, supplementary to the standard functions

(e.g. positioning) – additional ultramodern features can be integrated into the system. For instance, Sculptor 3D performer flying motion and anti-sway technology as well as many other real-time features can be implemented, which expand and improve the system. Several SIMOTION controllers can be coupled via PROFINET, the leading industrial Ethernet standard. This feature allows a high number of motors to move in synchronism. The high specified safety standards are realized by using the Safety Integrated functions of the SINAMICS S120 drive system.

## A strong ensemble – perfectly coordinated

The combination comprising SIMOTION, the SINAMICS S120 drive system and the operator control devices from Stage Technologies with eChameleon software, offers a versatile, operator-friendly stage automation interface – in conjunction with a powerful industrial control system. The joint engineered solutions from Stage Technologies and Siemens are based on extensive operating experience and set themselves apart as a result of the maximum service life and lower overall costs across the complete system life cycle.

### Advantages at a glance:

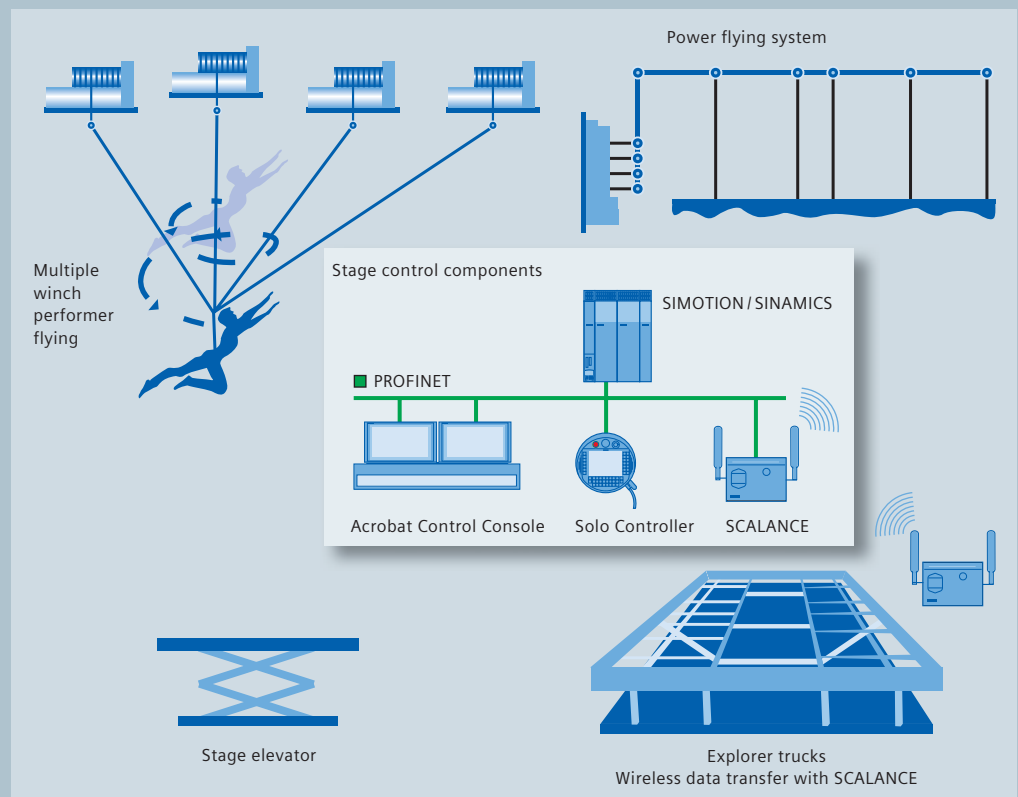
- The system fulfils the demanding specifications of Stage Technologies
- Customized automation solutions through close collaboration between experts from both companies
- Risks of system failures and reduction of the overall costs over the medium- and long-term minimized through high reliability and dependability
- 24 hour/7 day service, spare parts and support worldwide



Control enclosure of the Maxis SI with SINAMICS S120 components and SIMOTION D motion controller (lower right)

## Main roles on stages around the world

The valuable synergies, resulting from the close collaboration between Stage Technologies and Siemens, pay off: more than just once, this London-based company has clearly won orders against the competition when it comes to implementing customized technology and automation systems. This is clearly verified when reviewing the first-class references: these include the world-famous Cirque du Soleil as well as the Royal Opera House (GB), The Royal Festival Hall (GB), Dragone's Theatre of Dancing Water (Macau), Lyric Opera of Chicago (USA), San Francisco Opera (USA), Andrew Lloyd Webber's Really Useful Group (UK) – and the list goes on.



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Dispo 21500  
Schö/34427 GD.MC.GM.SIPR.52.1.08  
SB 06110.5  
Printed in Germany  
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