

Mechatronic drive system MOVIGEAR® – The ideal solution for baggage handling systems



Project overview

Sector

Airport industry

Application

Baggage handling system

Solution

MOVIGEAR®,
the mechatronic drive system

Customer

Gatwick airport
London, UK

Project

Modernization of the baggage handling system at Gatwick airport in London

The London Gatwick airport has launched a £1 billion investment program to cope with the ever increasing number of passengers. Within the framework of this program, it was decided to expand the existing baggage handling systems of the north and south terminals. The goal is

to increase the capacity to over 24 million passengers per year. The reliability of the baggage handling system was the main focus. Other key criteria were energy saving, a small number of variants, and the reduction of installation and startup costs.

Project description

The mechatronic, highly efficient drive system MOVIGEAR® from SEW-EURODRIVE meets all these requirements. With its compact housing that accommodates a motor, gear unit, and electronics and with its distinctive overload behavior, MOVIGEAR® is ideally suited for the requirements of baggage handling systems. The extremely high efficiency level IE4 (Super Premium Efficiency) of the motor supports for the target of a sustainable, energy-saving solution. The operator

of Gatwick airport also appreciates these advantages. SEW-EURODRIVE was chosen in July 2010 as supplier of innovative drive technology for the modernization and extension of the north and south terminals' belt based baggage system. The key requirements have already been fulfilled thanks to MOVIGEAR®. Currently, 1,200 drives ensure trouble-free operation of the system. It is planned to increase the number of MOVIGEAR® units to about 2,000.

Customer feedback

“For our new baggage systems, it was fundamental for Gatwick Airport to install drives that were carefully selected for their operational function and efficiency. Our primary criteria required exceptional reliability with energy efficiency to help Gatwick achieve its ‘Decade of Change’ environmental targets including reducing carbon emissions.

Secondary criteria included:

- Minimizing the number of drive types
- Reducing the number of possible failure modes, e.g. mechanical brakes, fans etc.
- Utilizing simplified control systems

By examining the market we identified SEW-EURODRIVE’s MOVIGEAR® range as the drive assembly that best satisfied our criteria. As a measure of our approval we have installed 1,200 drive assemblies and introduced the specification into our technical standards.”

Alex Adams
Principal Engineer – Baggage Systems
Gatwick Airport

Additional information about the MOVIGEAR® drive system is available at:
<http://www.movigear.eu>

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