

Efficient and reliable drive solutions
for your airport logistics

Technical advantage and quality
“made in Germany”



SEW-EURODRIVE provides drive even before takeoff

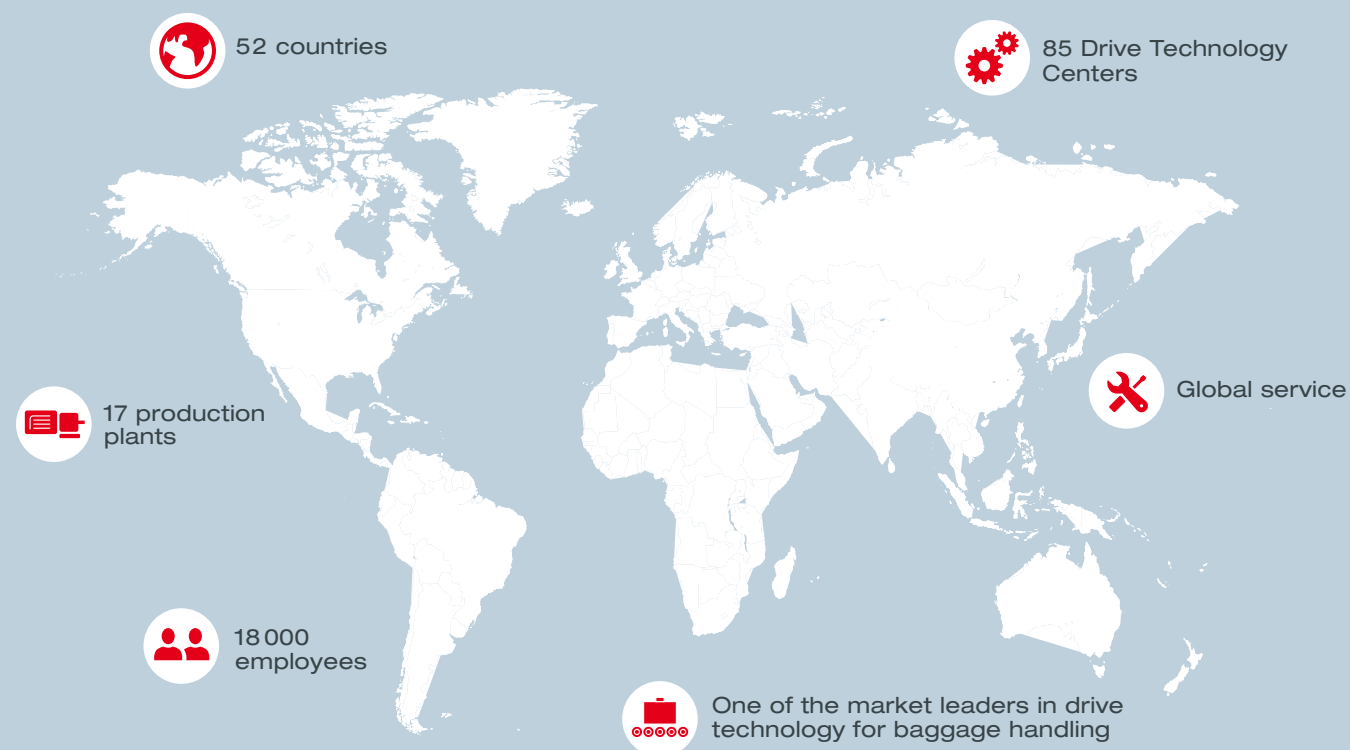
Airports face major operative challenges every day and call for detailed planning and the perfect coordination of complex processes. Constantly changing requirements with regard to safety and passenger handling, coupled with stricter environmental regulations and increasing competition between airports, call for adaptability and agility, especially within airport logistics.

Airports therefore choose partners who have in-depth knowledge of complex airport logistics processes. SEW-EURODRIVE proves that it has this knowledge on a daily basis around the world. SEW-EURODRIVE will support you as an experienced partner, because every day

at many international airports such as Frankfurt, London, Paris, Beijing, Hong Kong, or Sydney, we play a crucial role in the smooth transport and logistics processes. SEW-EURODRIVE has been a trendsetter in drive technology and a synonym for quality "made in Germany" for 90 years.

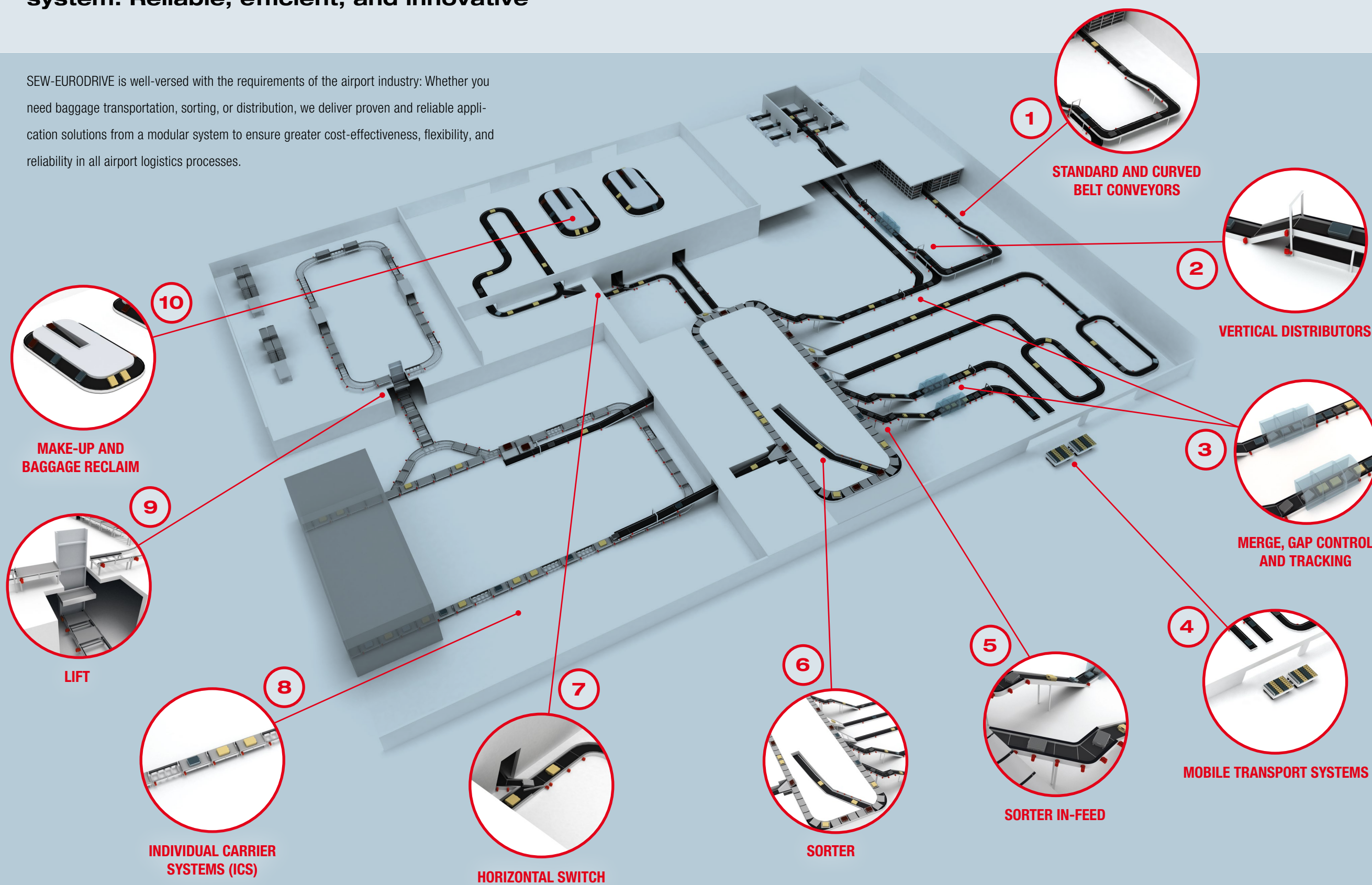


Find out more about our products and solutions for baggage handling at:
www.sew-eurodrive.de/airport



Custom solutions for your baggage handling system: Reliable, efficient, and innovative

SEW-EURODRIVE is well-versed with the requirements of the airport industry: Whether you need baggage transportation, sorting, or distribution, we deliver proven and reliable application solutions from a modular system to ensure greater cost-effectiveness, flexibility, and reliability in all airport logistics processes.



Baggage handling at Los Angeles International airport (LAX)

Existing Baggage Handling System

The existing baggage handling system featured typical asynchronous motors for managing high breakaway torques. After the system start, they were being operated far below their ideal efficiency. They were completely oversized and inefficient for the ongoing operation. Their high start-up torque and their low operating efficiency generated excess heat, which also required additional, cost-intensive, external cooling and that in turn raised the noise level very much higher.

Task

The aim was to improve the efficiency to reduce both the operating and the cooling costs. This aim was achieved thanks to the joint efforts of the consultants from CAGE, Inc. and SEW-EURODRIVE. They managed to modernize the existing baggage handling from the ground up and to deploy far more efficient drive solutions.

Solution from SEW-EURODRIVE

About 450 decentralized mechatronic MOVIGEAR® drives and DRC.. motors were used in the new system. Both drives contain a highly efficient permanent magnet motor with a high overload capacity. They provide an extremely high, unique breakaway torque of over 300% compared to the

nominal torque. Moreover, the fast installation, simplified maintenance, and lower need for spare parts also reduced the operating costs, so that the investment paid itself off in less than one year.

Result

The new system proved to be extremely reliable, efficient, and precise. The staff working with the system appreciate very much that the new drives produce less noise and heat thanks to their cutting-edge electronics and their extremely high operating efficiency. Thanks to this reduction in the input power, the excess heat, and the additional cooling, it was

possible to lower the energy consumption by up to 40% with the new system. In addition, the baggage handling requires far fewer spare parts for its warehouse inventory, and its flexible design allows for extensions for future growth.

American Airlines saves up to 40% of its energy costs

Overall advantages

- ✓ **Complying with the stringent “California Title 24 energy standards” and corresponding reduction of the energy consumption**
- ✓ **Lower operating costs**
- ✓ **Improved work environment for staff due to lower noise levels**
- ✓ **Minimized heat losses**
- ✓ **Providing flexibility for future expansion**



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“The BHS industry in the U.S. has realized that its future lies in the MOVIGEAR® permanent magnet motor technology. The system operator at Los Angeles International Airport was impressed by the unique characteristics of our drive solutions. More projects are already in the pipeline.”

Michael Stewart, Industry Manager BHS, SEW-EURODRIVE Inc., Lyman, SC (USA)



You can find further information about this reference at <https://www.sew-eurodrive.de/baggage-handling-system>

High-quality engineering

Our products and solutions get your applications moving. Standardised and proven modules for airport logistics enable you to increase your output while also reducing the level of complexity. We enjoy a prestigious reputation with leading, international consultants and associations in the airport industry.

- ✓ Increased throughput through shorter response time and a local module controller
- ✓ Faster sorting with high performance drive systems
- ✓ Significantly improved energy efficiency with mechatronic drives
- ✓ Simpler and faster installations with integrated drive systems and single-cable technology
- ✓ Lower investment costs as system can be realized with fewer variants
- ✓ Reduced life cycle costs with low-maintenance technologies
- ✓ Faster project implementation with standardized interfaces and functions
- ✓ Minimized noise emissions with fanless drive technology
- ✓ Increased availability thanks to expanded drive functionality
- ✓ Flexible baggage handling through modular system



Get in touch with us: airport@sew-eurodrive.de



A unique portfolio for your success



ECDriveS® drive systems Roller drives for light-duty materials handling

Time saving and easy positioning.



Further information at: www.sew-eurodrive.de/en/ecdrives

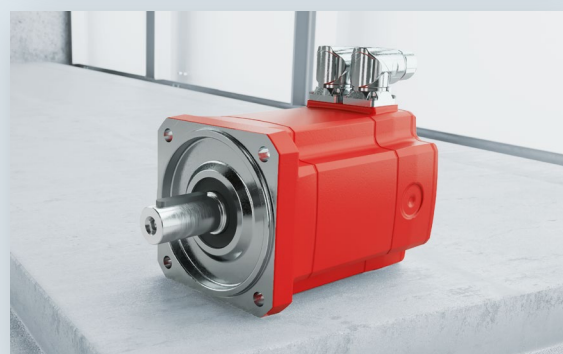


MOVIGEAR® classic drive unit

Consistency, modularity and simple installation with high potential for energy saving.



Further information at: www.sew-eurodrive.de/en/movigear-classic



CM3C.. series Synchronous servomotors

Reduced installation costs and start up times.



Further information at: www.sew-eurodrive.de/en/cm3c



MOVIMOT® flexible decentralized inverter

Wide range of options, modular diversity, and easy installation.



Further information at: www.sew-eurodrive.de/en/movimot-flexible



DRN.. series IE3 AC motors

Complies with all the statutory and normative specifications – all over the world.



Further information at: www.sew-eurodrive.de/en/drn



MOVIMOT® advanced drive unit

Flexibility to pair with any standard gear unit and compatibility with all standard Ethernet-based infrastructures.



Further information at: www.sew-eurodrive.de/en/movimot-advanced

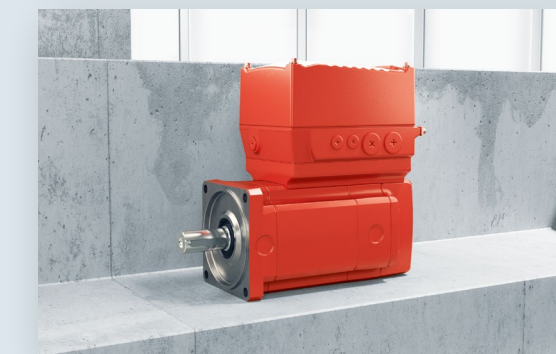


MOVIGEAR® performance drive unit

Compactness and high overload capacity up to 300%.



Further information at: www.sew-eurodrive.de/en/movigear-performance



MOVIMOT® performance drive unit

Up to 300% overload capacity and maximum IE5 energy efficiency.



Further information at: www.sew-eurodrive.de/en/movimot-performance

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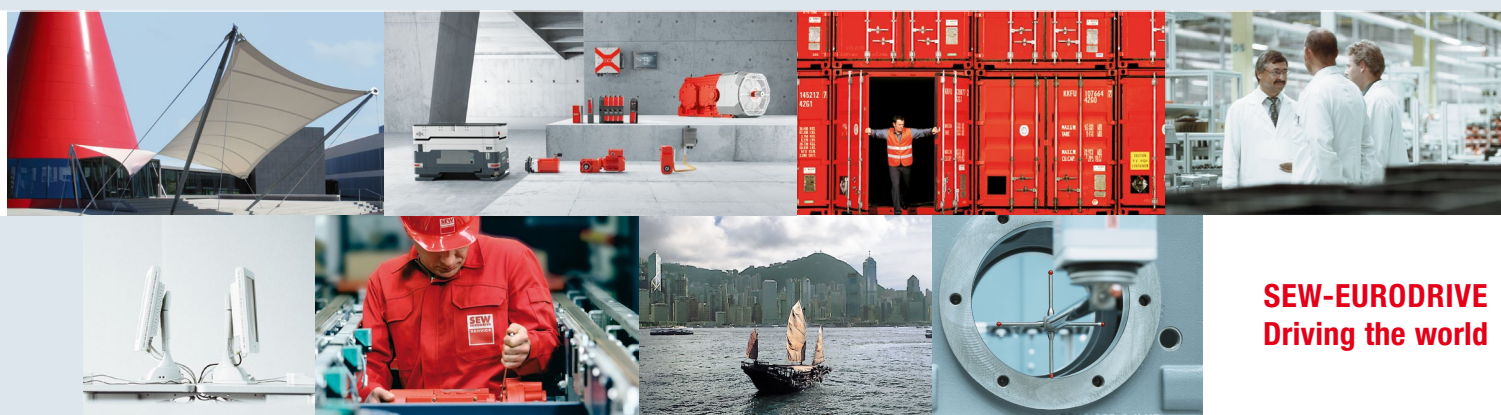
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