

Simply genius –

ECDriveS® drive system
for light load conveyor technology



ECDriveS®

The new drive system for light load conveyor technology

ECDriveS® technically stands for **E**lectronically **C**ommutated **D**rive **S**ystem, a brushless DC gear-motor. However, ECDriveS® also stands for “easy drive” – the simple, efficient and cost-cutting drive solution for roller conveyors from SEW-EURODRIVE.

ECDriveS® is straightforward: plug it in – ready – that’s what “easy drive” means

- DC drives – optimized for the lower power range of roller conveyors in light load conveyor technology
- Simple handling
- High degree of flexibility
- Simple integration and startup
- Impressive endurance and durability in operation



The ECDriveS® drive system is therefore the perfect addition to our broad product portfolio of standard gearmotors, motor starters and decentralized drives for intralogistics in the lower power range.

Overview of ECDriveS®

- Brushless DC gearmotor that is directly integrated into the roller conveyor and is also universally usable
- External commutation electronics with ethernet-based zone controls or binary control. Ethernet controls feature integrated conveyor logistics that can provide both conveying with zero pressure and decentralized solutions for a wide range of other conveying tasks
- 250% overload capacity at 40 W S1 power rating
- Optimized gear unit construction for a long service life, even at high capacity utilization
- Precise positioning of the material to be conveyed thanks to integrated encoder

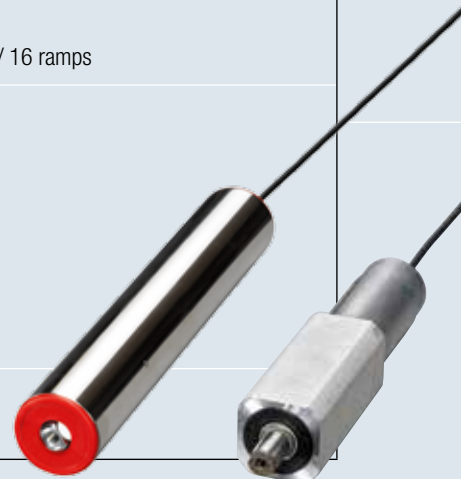
Technical data

Gearmotor

| | Driven roller, ECR-type ECDriveS® | Gearmotor, ECG-type ECDriveS® |
|---------------------------------|--------------------------------------|----------------------------------|
| Number of gear unit ratios i | 11 | 9 |
| Max. velocity | 0.04 – 5 m/s | 8.5 – 645 rpm |
| Max. acceleration torque Nm | 9.6 | 14.3 |
| Max. brakeaway torque Nm | 21 | 32 |
| Nominal current A | 2.5 | |
| Maximum current A | 8 | |
| Degree of protection | IP54 (IP66 optional) | |
| Temperature range | -10 – 40 °C (-30 °C optional) | |

Electronics

| | Direct fieldbus control, ECC-DFC-type ECDriveS® | Direct binary control, ECC-DBC-type ECDriveS® |
|----------------------|--|--|
| Nominal voltage V | 24 | |
| Communication | Ethernet protocols: PROFINET, EtherNet/IP™, Modbus/ TCP, EtherCAT® | 3 DI + error output |
| Configuration | ECDriveS® PC-Tool ECShell | DIP switch 32 speeds / 16 ramps |
| Functions | <ul style="list-style-type: none"> – Precise ramps – Positioning – Zero pressure accumulation (ZPA), FlexZone, merger, tracking – Torque-on-demand – Automatic configuration – Automatic sensor recognition – Diagnostics | |
| Degree of protection | IP54 | IP20 |



SEW-EURODRIVE is right there for you

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