

# ECDriveS<sup>®</sup> Drive System

Roller drive system for light load conveyor technology





## ECDriveS®

### The new drive system for light load conveyor technology

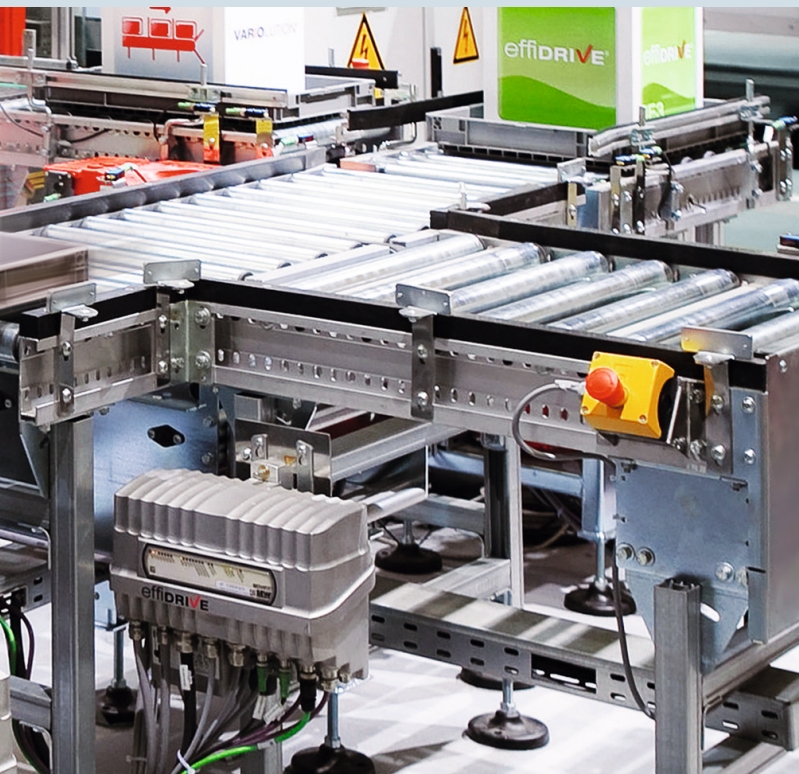
ECDriveS® stands for **E**lectronically **C**ommutated **D**rive **S**ystem, a roller conveyor drive solution from SEW-EURODRIVE.

The roller drive features a brushless DC gearmotor that is optimized for lower power range conveyors in light load applications. It features simple system integration, installation, and startup. Flexible communications options include ethernet-based zone control, or basic binary operation. Plus, SEW-EURODRIVE's industry-leading reliability and performance is built right in.

#### Overview of ECDriveS®

- Available as a drive roller, or standalone brushless DC gearmotor
- Metric and Imperial standard conveyor roller sizes
- External commutation electronics with ethernet-based zone controls or simple binary control
- Ethernet control version features integrated conveyor logistics for zero pressure accumulation and other decentralized positioning solutions
- Integrated encoder provides precise material positioning
- 250% overload capacity at 40 W S1 power rating
- Rugged gear unit construction

*The ECDriveS® is available as a complete drive roller unit, or as a standalone gearmotor.*



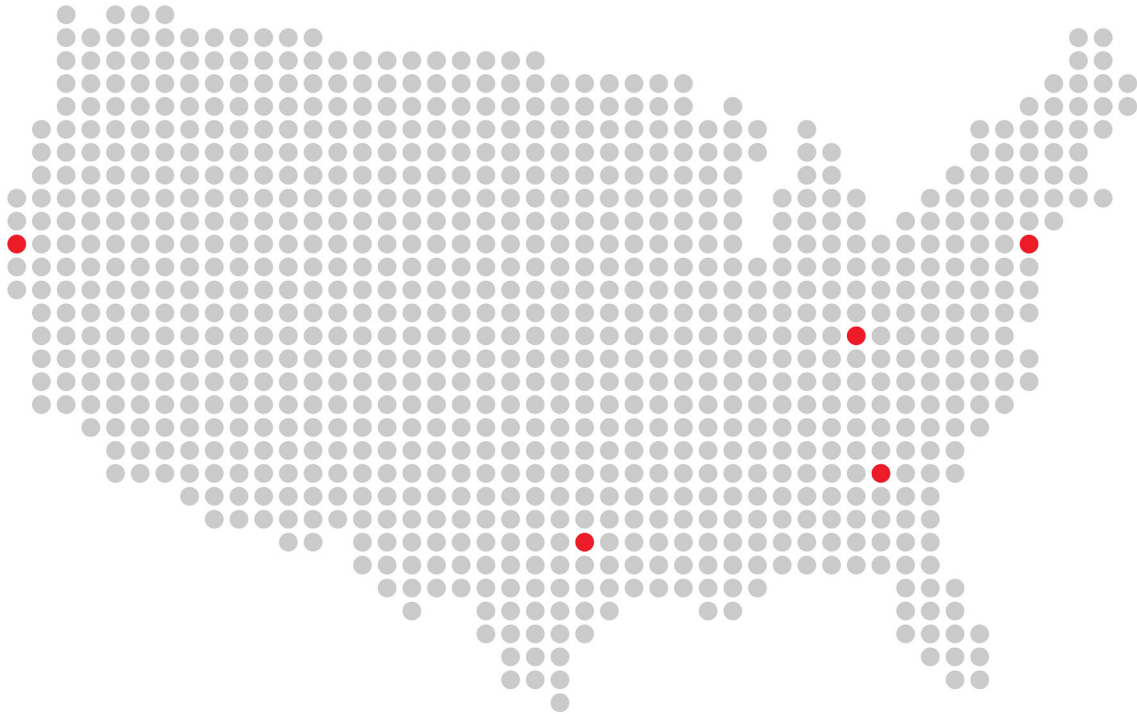
## Technical data

### ECDriveS 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"> <li>– Precise ramps</li> <li>– Positioning</li> <li>– Zero pressure accumulation (ZPA), FlexZone, merger, tracking</li> <li>– Torque-on-demand</li> <li>– Automatic configuration</li> <li>– Automatic sensor recognition</li> <li>– Diagnostics</li> </ul>	
Degree of protection	IP54	IP20



## U.S. locations

### U.S. Headquarters/Southeast Region

SEW-EURODRIVE, Inc.  
220 Finch Road  
Wellford, SC 29385  
P: (864) 439-7537  
cslyman@seweurodrive.com

### Southwest Region

SEW-EURODRIVE, Inc.  
202 W. Danieldale Rd.  
DeSoto, TX 75115  
P: (214) 330-4824  
csdallas@seweurodrive.com

### Western Region

SEW-EURODRIVE, Inc.  
30599 San Antonio St.  
Hayward, CA 94544  
P: (510) 487-3560  
cshayward@seweurodrive.com

### Midwest Region

SEW-EURODRIVE, Inc.  
2001 West Main St.  
Troy, OH 45373  
P: (937) 335-0036  
cstroy@seweurodrive.com

### Northeast Region

SEW-EURODRIVE, Inc.  
2107 High Hill Rd.  
Bridgeport, NJ 08014  
P: (856) 467-2277  
csbridgeport@seweurodrive.com

### Industrial Gears

SEW-EURODRIVE, Inc.  
148 Finch Rd.  
Wellford, SC 29385  
P: (864) 439-8792  
igssorders@seweurodrive.com