More Efficiency with
Drive Systems from SEW-EURODRIVE

Timber industry
SEW-EURODRIVE is familiar with the requirements of the timber industry. The applications for woodworking and wood processing are varied and demanding: Debarking, sawing, drilling, milling, planing, pressing, grinding, processing, finishing etc., the machines and equipment must be dynamic, precise, sturdy and powerful. At the same time, they must be designed to cope with the increasing degree of internationalization.

Another reason to choose drive engineering products of a professional, global player. Drive Engineering “made by SEW-EURODRIVE” offers countless combinations through the modular system. We are able to create individual solutions that meet the requirements of the application in a flexible manner. Furthermore, gearmotors from SEW-EURODRIVE meet all requirements on “equipment intended for use in potentially explosive atmospheres” as defined in directive 94/9/EC (ATEX95).

SEW-EURODRIVE is your competent partner for all areas, from process planning, through project planning all the way to startup; we also keep in mind the mutual goal of “reliable system operation.” Our services are available around the globe, reducing standstill times to a minimum!

Our reliable mechanical and innovative electronic drive components are the result of decades of experience in building drives for the timber industry. SEW-EURODRIVE products are extremely robust, have a high overload capacity both electrically and mechanically, they are dust-proof and have a particularly high level of corrosion resistance.

Driving the world – with innovative drive solutions for all applications in the timber industry. All SEW-EURODRIVE products and systems make the best use of the space available around the machine and ensure great flexibility and reliability. Minimum maintenance work and simple handling in terms of operation and servicing mean you can be sure that your machines and equipment will work more efficiently right from the first time.
“Drive systems from SEW-EURODRIVE create movement around the world. Even in your system.”
High-quality products with excellent performance

The SEW-EURODRIVE modular concept offers millions of combinations. This wide selection enables you to choose the correct drive for all applications, each based on the required speed and torque range, space available and the ambient conditions. Even drive electronics fit perfectly into the modular system, convincing users through unit modularity and unit volume as well as highest control precision, integrated positioning and sequence control or hoist capability.

Drive electronics "made by SEW-EURODRIVE" means SEW-EURODRIVE develops, produces and assembles these electronic products. These features enable our drives to achieve maximum flexibility so you can face future challenges with confidence. Operator terminals enable optimum visualization of the system. They allow for display and control of production processes, particularly in conjunction with higher-level controllers.

**Standard fieldbus interfaces**

<table>
<thead>
<tr>
<th>Standard:</th>
<th>PROFIBUS, INTERBUS, DeviceNet, CAN, CANopen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Actuator/sensor bus:</td>
<td>RS-485 interface, AS-Interface</td>
</tr>
<tr>
<td>Safety fieldbus:</td>
<td>PROFIsafe, Safetybus P</td>
</tr>
<tr>
<td>Ethernet:</td>
<td>ETHERNET, PROFINET, Modbus TCP</td>
</tr>
</tbody>
</table>
Drive Systems from SEW-EURODRIVE

**Servo drive systems** provide precision and dynamics in single-axis or multiple-axes applications as well as in synchronized process sequences:
- Low backlash servo planetary or helical-bevel gear units
- Powerful and compact servomotors
- Synchronous servo linear motors
- MOVIAxis® multi-axis servo drive

**Decentralized drive systems** provide efficient and decentralized installations regardless of system philosophy or size:
- MOVIMOT®, gearmotors with integrated frequency inverter
- MOVI-SWITCH®, gearmotors with integrated switching and protection function
- Field distributor
- Hybrid cables
- MOVIFIT® drive control system
- Contactless energy transfer with MOVITRANS® system components

System accessories:
- DOP Operator terminals
- Project planning aides
- Start software
- Remote maintenance concepts
Only the best for your industry – drive engineering solutions from SEW-EURODRIVE

The outstanding properties of our drive technology make it clear why SEW-EURODRIVE is featured in the most important industries all over the world: Power density, a variety of variants, overload capacity and reliability give the user the desired security – optimally positioned and highly efficient in every application.

The modular structure of our system and the countless combination options create the best possible prerequisites for the development of special solutions as required in the timber industry.
The processing steps in the timber industry are characterized by a wide range of extremely varied tasks. As a systems supplier and drive engineering specialist, SEW-EURODRIVE has taken upon itself the task of offering solutions for all the requirements arising from this situation. This philosophy is based on our understanding of every single step in the timber industry and the way in which we identify with the tasks facing the customer. As a result, SEW-EURODRIVE not only offers mechanical systems but has also concentrated on supplying the electronics to match.
Drives from SEW-EURODRIVE set standards

<table>
<thead>
<tr>
<th>Machines and applications</th>
<th>Solutions from SEW-EURODRIVE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wood processing machines for processing, conveying, storing and picking technology:</td>
<td></td>
</tr>
<tr>
<td>- Saw mills</td>
<td>- Helical, parallel shaft helical, helical-worm and helical-bevel gearmotors; MOVIDRIVE® drive inverters and MOVITRAC® frequency inverters</td>
</tr>
<tr>
<td>- Timber product industry and wood veneering</td>
<td>- MOVI-PLC® – Drive-based Motion and Logic Control: DHP11B control card</td>
</tr>
<tr>
<td>- Solid wood processing, e.g. sawing, milling and planing machines</td>
<td>- MOVIMOT® gearmotors with integrated frequency inverter</td>
</tr>
<tr>
<td>- Furniture industry, e.g. panel or veneer processing, special machines for surface finishing</td>
<td>- MOVIFIT® drive control system</td>
</tr>
<tr>
<td>- Manual work</td>
<td>- Servo gear units and geared servomotors</td>
</tr>
<tr>
<td></td>
<td>- Modular, powerful components from the decentralized drive system</td>
</tr>
<tr>
<td></td>
<td>- Powerful industrial gear units</td>
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</tbody>
</table>
Always the right choice

The drive engineering components used in wood processing plants not only have to be powerful and robust, they must also offer a high level of precision and absolute reliability to ensure fault-free operation. Therefore, drive engineering components “made by SEW-EURODRIVE” are always the right choice:

- The innumerable combination options available in the modular system ensure individual solution concepts and extreme flexibility.
- The servo drive systems fulfill the exacting requirements in terms of dynamic properties and precision.
- Compact, cost-effective and robust decentralized installations are realized with decentralized drive systems.
- Powerful industrial gear units with < 800 kNm withstand the highest loads without any trouble.
We offer special solutions as standard

<table>
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<tbody>
<tr>
<td><strong>Saw mill technology</strong></td>
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<tr>
<td>Machines and systems producing timber and storing logs and timber, e.g.</td>
<td>Drives with:</td>
</tr>
<tr>
<td>– Cutting and shaving machines</td>
<td>– High-efficiency gear units and motors with long life and low noise –</td>
</tr>
<tr>
<td>– Logging systems</td>
<td>millions of combinations offering virtually unlimited application possibilities</td>
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<tr>
<td>– Timber transportation</td>
<td>– Large variety of mounting positions and a large number of gear unit ratios for optimum adaptation to the application</td>
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<tr>
<td>– Sorting and stacking systems</td>
<td>– Torque ratings &lt; 800 kNm: High-capacity industrial gear units offering high levels of torque</td>
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<tr>
<td>– Mobile saw mills</td>
<td>– Tailor-made drive electronics: Control, positioning and automation with the MOVITRAC® frequency inverters and MOVIDRIVE® drive inverters</td>
</tr>
<tr>
<td>– Storage logs/timber</td>
<td>– MOVI-PLC® – Drive-based Motion and Logic Control: DHP11B control card</td>
</tr>
<tr>
<td>– Classifying logs</td>
<td>– High level of enclosure option to IP56, IP65 or IP66</td>
</tr>
<tr>
<td>– Debarking/slicing</td>
<td>– MOVITFIT® drive control with degree of protection IP69K for use under rough ambient conditions</td>
</tr>
<tr>
<td>– Transportation</td>
<td>– High level of corrosion protection with special and multiple coats of paint, stainless steel bolts and internal treatment of the motor for operation outdoors</td>
</tr>
<tr>
<td>– Sorting</td>
<td>– Double oil seal</td>
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<tr>
<td>– Cutting/planing, chipping, shaving</td>
<td>– Synthetic oil, vent holes and condensation drain holes for changing temperatures</td>
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<tr>
<td>– Veneering/drying</td>
<td>– Integrated, decentralized drive technology for modular systems</td>
</tr>
<tr>
<td></td>
<td>– Proven safety for use in potentially explosive air/gas or air/dust mixtures: gear units and motors according to directive 94/9/EG (ATEX95)</td>
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<th><strong>Timber product industry</strong></th>
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<td>and wood veneering</td>
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<td>Machines and systems for producing wood panels and veneers, e.g.</td>
<td></td>
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<tr>
<td>– Veneer peeling machines</td>
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<tr>
<td>– Chipboard machines or producing coating materials</td>
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<tr>
<td>– Sawing</td>
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<tr>
<td>– Peeling (veneer peeling machines)</td>
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<tr>
<td>– Shredding (chippings, fibers, chips)</td>
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<td>– Transporting</td>
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<tr>
<td>– Mixing/blending</td>
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<tr>
<td>– Pressing (chipboard/OSB, oriented strand board)</td>
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<td>– Storage timber/veneer</td>
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</table>
Adaptable and powerful

External ambient conditions, such as water, wind, cold, heat or dust, do not deter drive engineering components “made by SEW-EURODRIVE” because, gear units and motors from SEW-EURODRIVE are not only available with surface protection and anti-corrosion protection as standard, they also come equipped with optional double oil seals or synthetic oil. This means that transportation lines or debarking machines can easily be designed for use outdoors without any major additions to the project planning workload.

SEW-EURODRIVE also offers a comprehensive range of products for use in potentially explosive air/gas or air/dust mixtures, e.g. in timber cutting applications.

**Gear units and motors for category 2**
(guaranteeing unit safety in standard operation and in case of expected unit malfunctions – one fault)
- 2G (gas), for use in zones 1 and 2
- 2D (dust), for use in zones 21 and 22
- 2GD (authorized for combined gas/dust mixtures), for use in zones 1, 2 and 21, 22

**Gear units and motors for category 3**
(guaranteeing unit safety in standard operation):
- 3G (gas), for use in zone 2
- 3D (dust), for use in zone 22
- 3GD (authorized for combined gas/dust mixtures), for use in zones 2 and 22
Highest quality wood processing – right through to the finished product

Machines and applications

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<th>Furniture industry – automated technology</th>
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<td>Reliable gearmotors with a high power density, overload capability and:</td>
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<td>- Finely stepped ratios</td>
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<td>- Minimum space requirements</td>
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<td>- Flexible and robust designs</td>
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<td>- Wide range of possible combinations</td>
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<td>- Virtually maintenance-free operation</td>
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<td>- Simple startup</td>
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<td>- Powerful, intelligent drive inverters perfectly matched to the gearmotor</td>
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<td>- MOVI-PLC® – Drive-based Motion and Logic Control:</td>
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<td>DHP11B control card</td>
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<td>- Gear units and motors according to directive 94/9/EC (ATEX95) for drives intended for use in potentially explosive atmospheres</td>
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<tr>
<td>- Precise, highly dynamic servo gear units in coaxial or angular design in direct mounting for fast acceleration, accurate positioning and fast processing</td>
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<td>- SEW-EURODRIVE geared servomotors offer a completely positive design from the motor shaft all the way to the gear unit output shaft to ensure safe applications.</td>
</tr>
<tr>
<td>- Frequency inverters for controlling and automating almost any drive application</td>
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<tr>
<td>- Compact, decentralized drive systems for conveyor systems, for example with MOVIMOT® gearmotors with integrated frequency inverter, or MOVIFIT® drive control system</td>
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Solutions from SEW-EURODRIVE

| Machines and systems, for example, for: |
| - Panel and veneer processing |
| - Special machines for surface finishing |
| - Assembly and packaging systems |
| - Conveyor, storage and picking technology |
| - Processing machines |
| - Planers |
| - Milling machines |
| - Chippers |
| - Pegging machines |
| - Drilling machines |
| - Finishing (coating, veneer sticking) by means of |
| - Rotary veneer machines |
| - Gluing machines |
| - Grinding machines |
| - Wood lathes |
| - Sawing |
| - Transporting |
| - Positioning |
| - Furniture assembly |
| - Packaging |

Machines and applications

- Panel and veneer processing
- Special machines for surface finishing
- Assembly and packaging systems
- Conveyor, storage and picking technology
- Processing machines
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Solutions from SEW-EURODRIVE

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- Frequency inverters for controlling and automating almost any drive application
- Compact, decentralized drive systems for conveyor systems, for example with MOVIMOT® gearmotors with integrated frequency inverter, or MOVIFIT® drive control system
Our expertise for the furniture industry

The varied motion sequences involved in producing furniture require complex technical machines, such as rotary veneering machines, lathes or milling machines. This means that the drive technology must also fulfill the high demands in terms of reliability, flexibility, dynamic properties and precision.

SEW-EURODRIVE’s system solutions for the furniture industry not only include standard solutions, such as drive technology for use in potentially explosive atmospheres, but also individual component requirements, such as mounting position or acceleration specifications, low-noise operation or user-friendly startup.
We see service as an integrative function. Our sales engineers will assist you with expert advice, open analysis and application project planning. You can find our specialists in 61 assembly plants located in 44 countries around the globe. They will be glad to answer any questions you might have and respond very quickly to any service call. Installation and startup are performed on-site quickly and individually, factors which are essential for smooth plant operation. Our global after-sales service offers preventative maintenance for long-term, trouble-free operation – guaranteed. And if anything does go wrong, we offer a 24/7 hotline for maximum availability.

Whether you require maintenance, repair, spare parts service, preventative maintenance, oil service or 24-hour availability: The individual modules from SEW-EURODRIVE’s CDS® – Complete Drive Service system can be combined with one another to offer a service tailored to suit all requirements. Each module is based on the expertise of a global player with practical experience and an understanding of customer service at the highest level. Feel free to contact SEW for further information.

CDS® – Complete Drive Service
The service brand from SEW-EURODRIVE

Request a brochure today!
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E-mail: sc-mitte@sew-eurodrive.de

For us, a complete system also means global presence and service
Our range of services for customers also includes seminars and information sessions as well as specialist literature containing details of products and basic know-how. SEW-EURODRIVE offers practice-based seminars throughout the year that are designed to meet the requirements of specific target groups, such as the personnel responsible for project planning, startup, maintenance or service, as well as the drive technology implemented. For an overview of the seminars on offer and the dates they are available, go to www.drive-academy.de!

Let us share our knowledge with you

Always available:
Our website (www.sew-eurodrive.de) not only includes up-to-date information, seminars currently on offer and detailed documentation, it also provides software updates for you to download. It is also easy to purchase spare parts and track the status of your orders via the Internet.
How we’re driving the world

With people who think fast and develop the future with you.

With a worldwide service network that is always close at hand.

With drives and controls that automatically improve your productivity.

With comprehensive knowledge in virtually every branch of industry today.

With uncompromising quality that reduces the cost and complexity of daily operations.

With a global presence that offers responsive and reliable solutions. Anywhere.

With innovative technology that solves tomorrow’s problems today.

With online information and software updates, via the Internet, available around the clock.

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SEW-EURODRIVE Drive Technology \ Drive Automation \ System Integration \ Services

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