Productivity Solutions for the Pulp & Paper Industry
The paper industry faces a host of challenges to stay competitive in a sector where raw material and energy expenses constitute a huge share in production costs. To stay competitive, papermakers worldwide face many challenges today: reducing costs and lead time, increasing operational efficiencies coupled with greener methods to produce paper with quality and reliability, while simultaneously complying with stringent environmental regulations. GE can help overcome these challenges by supplying electrical technologies and engineered solutions to meet individual mill requirements and efficiency of the production process.

Our technology solutions are integrated throughout the pulp and paper process providing:

- Enhanced safety—safety is our number one priority
- Reduced downtime—higher availability through better mean time between failure
- Improved efficiency—lower life time cost
- Cleaner production—energy and raw material management
- Enhanced performance—reliable modern control strategies
- Improved balance between capacity and demand—advanced manufacturing execution system (MES) solutions

Enabling efficiency and productivity in the pulp and paper production process

Modern manufacturing methods for highest quality.
Innovative systems for improved performance

GE has a complete set of electrical and automation solutions that help produce quality paper products while keeping a constant focus on improving plant throughput and yield, reducing energy usage and lowering environmental footprint.

Years of research and development in new concepts give GE a specific capability to provide innovative solutions to paper producers around the globe. GE’s paper solutions date back to 1894 when the first-ever electrical winder was introduced. Our proven technologies have continued to evolve with a constant focus on the success of our customers.

Single drives

For extreme environments we deliver single drive systems for pumps and fans. Enabling increased efficiency, accuracy and flexibility in your processes, GE offers both low and medium voltage air-cooled drive technologies that are scalable in power rating, easy to install and maintain, can save space in the electrical room, and offer high availability—all critical factors to improving your performance and process effectiveness.

<table>
<thead>
<tr>
<th>Drive system</th>
<th>Power range</th>
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<tbody>
<tr>
<td>LV7000 Series</td>
<td>1 kW – 2,000 kW at 380 VAC – 690 VAC</td>
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<tr>
<td>MV4 Series</td>
<td>250 kW – 4,000 kW at 3,300 VAC – 4,160 VAC</td>
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<tr>
<td>MV6 Series</td>
<td>350 kW – 6,000 kW at 6,600 VAC – 10,000 VAC</td>
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Multi-drive systems

GE’s multi-drive systems are for tissue, graphical and coated papers, pulp mills, paper machines, off-machine coaters, supercalenders, winders, and finishing and board machines. Multi-drive systems offer the highest control precision, availability, economical performance, and simple, plausible operation. Our complete solution covers the motor control center (drive line-up) via a converter, motor and the drive control system.

Process control system

Our automation systems, together with our powerful drive systems, help to achieve excellent results in terms of plant availability and process efficiency.

In addition, our technological control systems allow increased optimization of the complete paper process, thus supporting reduced production times and increased product quality, and energy savings.
Services from GE

We understand the vital importance of process availability—and our focus on service keeps us actively engaged, both when things are going right, and when they are going wrong.

With a comprehensive global network of service engineers and technicians, GE is uniquely positioned to provide the knowledge, experience and skills for your full range of industrial service requirements—protect assets, maintain critical processes, help minimize risks and help maximize productivity. We deliver original equipment spares around the world as well as repair, refurbish and upgrade customer systems with the latest technology. We offer risk protection through contractual services based on our system experience and sophisticated application calculations. Through advanced digital platforms, we deliver expert onsite and remote emergency 24/7 support, intervention and planned maintenance customized to meet unique customer requirements.

Modernizations & upgrades
We tailor large and small modernization and upgrade programs to meet your exact requirements while working to minimize plant downtime. We provide feasibility studies, design, project management, and implementation. Our engineers understand that upgrade work is about good planning and risk management from a close, cooperative and flexible relationship with our customers. We fit turnkey and innovative solutions to your specific applications.

Maintenance & repairs
Guided by a customized maintenance program, our installed systems will undergo regularly scheduled checks performed by a combination of the customer’s maintenance team, a GE service engineer and remote monitoring. A service report documenting the systems status allows our service experts to analyze current system conditions with historical checks and calibrations. Our global network of repair centers are localizing to serve you faster.

Spares & replacement parts
Even the best system has a limited lifetime. Eventually seals leak, bearings become worn, capacitors dry out and suppliers of mass-market components and software move on.
- Parts, sub-products, spare products
- New, remanufactured, exchanged, repair and return, test and certification
- Express option (off-the-shelf)
- Inventory management

Remote support
To support your on-site maintenance team GE can assist via a remote connection to the controller and the drives. We provide secured remote connection to GE equipment (outside the control network). This remote connection enables our services engineers to provide real-time support, ongoing health analytics and key performance indicators (KPIs), as well as basic configuration management support.

Contractual services
Depending on the installed systems and individual service demand GE offers a wide range of service solutions. For each paper mill, together with our customer, we define the perfectly fit solution. Optimization service, maintenance, repair and emergency services will be covered. The effect of higher availability and better system performance through regular contractual service agreements is provable and can even be guaranteed.

Training
We regularly utilize our global network of training centers, as well as provide onsite training where you work. Courses can be tailored to meet your needs, promoting hands-on experience and using real-scale simulation technology. All GE instructors have extensive experience in the field and are rigorously updated on the latest technologies, application requirements, and industry standards.
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