What makes your Large Machines fit for efficient and continuous operation?

Comprehensive services over the complete lifecycle: From maintenance through spare parts stocking up to retrofit.

Answers for industry.
Customer Support
it’s our passion.

Worldwide, Siemens stands for high-quality products, systems and solutions. This excellent reputation is not only based on innovative technology and superior product quality, but even more on outstanding customer and technical support - and that worldwide. Thousands of satisfied customers confirm it: Our service activities create all of the prerequisites for significant increases in productivity.
Large Machines – the heart of your plant

They run and run and run: Our high-voltage electrical machines such as the H-Modyn, H-Moflex, H-Modul and Series F series have been in reliable use for decades now. These platform machines are used in almost every sector. And also our special machines, e.g. those used in rolling mills, ships and nuclear power stations are convincing as a result of their high reliability and long lifetime. Tailored to address individual requirements, each of these high-quality machines is of considerable significance or even of central importance for the operation of your complete plant. Therefore it is crucial to secure continuous disturbance-free operation - also after many years.

We support you to extend the lifecycle of your plant

Maintenance: Do you require an individual maintenance plan? You can obtain a comprehensive program for preventive maintenance from Siemens, which will maximize the lifetime of your electrical machinery.

Spare parts stocking: Depending on the cancelation expenses, it can make commercial sense to stock essential components. This will then allow you to limit the downtime to just the time to replace the component when a fault does occur. We can help you when it comes to selecting specific spare parts to be stocked and replacing components at the appropriate time.

Retrofit: A retrofit will give your large machines a „second life“. State-of-the-art technology will bring older systems to a significantly higher level of performance, with improved efficiency and output, will extend the lifecycle of your plant and reduce your maintenance costs.
A long lifetime is part of our service.

Unfavorable operating conditions and environmental effects can reduce the lifecycle of various components. Qualified and regular maintenance plays a significant role in securing the availability of the complete lifecycle of your plant.

Maintenance – measures for a long lifetime

Everybody knows: You can only achieve the highest system availability with a mature design and a high production quality and then only if the plant is appropriately operated and maintained by qualified personnel. Siemens provides you with a comprehensive preventive maintenance program.

Your advantages at a glance:
- Maximum lifetime of your electrical machinery
- Minimum component wear
- Qualified recommendations for efficient spare parts stocking
- Prevention of non-scheduled downtimes and associated costs
- Early detection regarding potential for improvement of the operating conditions
- Professional monitoring of the lifecycle of your electrical machine

You profit from individual maintenance plans - adapted to your operating conditions and machine. The basis is an inspection that we carry out and a professional analysis of the results. This will be followed up by a service-/spare- parts quotation that is precisely tailored to your requirements.

If you so desire, we will support you when it comes to tracking down optimization potential in your plant - or training your personnel regarding the special features of your machine. It goes without saying that our service organization is also at your disposal for inspections (audits) troubleshooting and repairs for the complete machine. And that around the globe and around the clock.
Spare parts stocking - minimum replacement times for a high availability

Siemens stands for outstanding product quality. However, operating and environmental conditions can limit the lifetime of some components in your electrical machine. The probability of failure increases with age and the operating time. At the same time the availability of your complete plant decreases.

The maintenance-friendly design of our electrical machines and our global service organization allow small and large components to be replaced in the shortest time. Our large machines for your application are products that were individually produced and optimized. As a consequence, the procurement time for important spare parts such as rotors and stators or bearing shells can however take a significantly longer time - up to approximately the general delivery time of a comparable, complete machine. Depending on the costs that are incurred when a failure actually occurs, it can make economic sense to stock key components, in order to limit downtimes to just the time it takes to replace the component. We will be more than happy to provide you with recommendations for an appropriate stock of spare parts.
Keeping up with the times: Retrofit.

Even when it comes to state-of-the-art technology, time takes its toll. Whether decreasing productivity of the systems or higher maintenance costs: A retrofit is the intelligent response to signs of aging. Precisely then, when the plant or system is still in good condition, but no longer represents state-of-the-art technology, then our retrofit measures are the cost-effective solution to extend the lifecycle and the efficiency of your plant.

The economic alternative

With a retrofit, you reliably reduce increasing maintenance costs - caused by the passage of time - and ensure a higher degree of availability of your plant or system. Even though techniques in the process industry hardly change over decades, economic reasons often require that out-of-date technology is replaced by modern products - for example when processes and environmental requirements continue to develop. With retrofit measures, you can profit from significant increases in performance and higher efficiencies.

Do you want to replace your machine? There are two basic options: An exact replica built applying the latest technical standards - or in the form of a functional replacement by a machine from our current portfolio where the interfaces are appropriately adapted.

One-to-one post-manufactured replica

The advantage of this solution: The optical appearance, design, dimensions and characteristics of the machine remain unchanged. In fact, even existing certificates of operation can generally be kept and used further. The one-to-one replica represents a reproduction of the original machine, but using the latest materials and applying the latest standards. The main components, such as e.g. rotor, stator, bearings and enclosure can be exchanged with those of the original machine. For tailored large machines, naturally indispensable: An „identical“ replica of a machine means that all of the mechanical design and associated documentation of the original machine must be known. This is the reason that we can only replicate machines that we had originally supplied.

Faster and smoother retrofit using the drop-in concept: Siemens handles the interface adaptation for cables, cooler, foundation connections - including the subsequent commissioning.
**Functional replacement - „drop-in“ solution**

If it involves increasing the performance of the existing plant or system as a whole, then with the functional replacement, we can offer you a favorably-priced solution. With this so-called drop-in concept, machines from our current portfolio are used. It goes without saying that the foremost objective is a simple, fast and straightforward replacement. This is the reason that we adapt the interfaces to the load machine as foundation, electrical cable, cooling water and bearing oil connections, also considering the required performance data. In order to avoid resonance effects in operation, when required, our engineering team can perform a structural analysis. A drop-in solution offers you the maximum degree of flexibility. For instance, even old machines from other manufacturers can be replaced by our new large machines. Further, our current type series generally have smaller envelope dimensions than those of older machines. As a consequence, the power or the efficiency of the machine and plant can be increased - generally without involving any significant retrofit work.

**Your advantages with a retrofit:**

- Increased plant availability
- Update to the latest standards (including safety standards)
- Reduced energy consumption and increased energy efficiency
- Increased productivity

**At a glance: Customer Support for Large Machines**

- Erection supervision
- Commissioning
- Condition monitoring
- Service and maintenance contracts
- Spare parts
- Replication and functional replacement
- Inspection, maintenance and troubleshooting in the field
- Revisions and repairs
- Technical support
- Training courses

You will find additional information on our services across the complete product lifecycle in our brochure: „Service & Support, Answers for industry – Life cycle services for Large Drives“.
For questions, you are more than welcome to contact us at any time.
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