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*Ingenuity for life*



# Digital Drive Train Services

Start into the digital future

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# Digital Services for the entire drive train

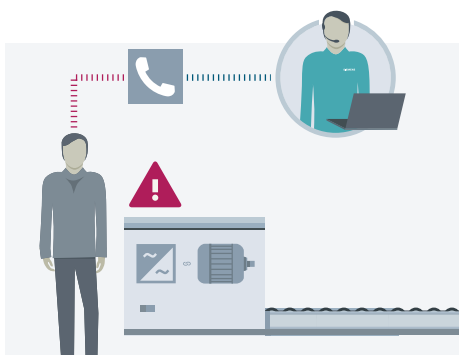
## Digital Drive Train Services offers many benefits

Corrective

### Accelerated troubleshooting

#### Remote Support

Maximum availability requires the fastest possible reaction speed. If an alarm is triggered, you can immediately contact a certified service expert. With your permission, relevant data is accessed via a secure remote connection. All analysis, diagnostic and intervention options can therefore be utilized within a very short time.



#### Your benefits:

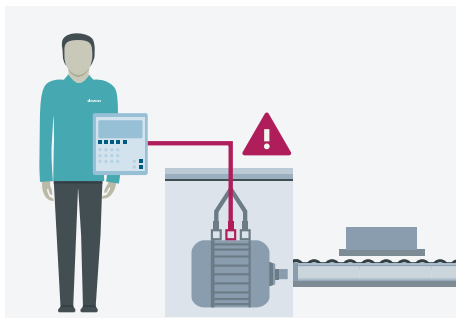
- You shorten unplanned downtimes
- You reduce on-site service costs
- You rely on high data security

Preventive/Predictive

### Higher plant availability

#### Mobile Diagnostics

With Mobile Diagnostics, our service experts read out the data from your drive train on site using mobile measuring equipment. Measurements can be performed at contractually agreed time intervals. On this basis, expert reports can be generated and precise service recommendations derived, for example for maintenance activities.



#### Your benefits:

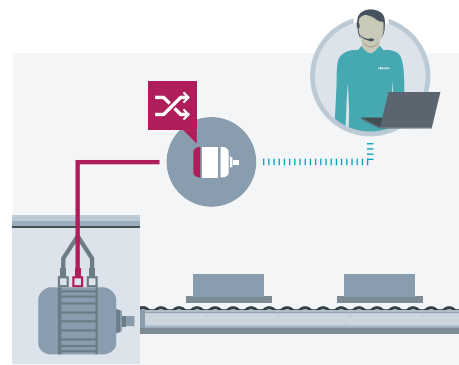
- You benefit from an immediate analysis without installation adaption
- You increase plant availability
- You optimally schedule maintenance and service activities

Preventive/Predictive

### Optimized maintenance

#### Remote Diagnostics

Remote Diagnostics allows you to continuously monitor your drive train components. Motors are monitored using a permanently installed condition monitoring system. The parameters measured are recorded directly on site and accessed and analyzed by our service experts via a secure remote connection at defined time intervals. In this way, changes in operating condition can be detected at an early stage and the appropriate countermeasures can be promptly taken.



#### Your benefits:

- You minimize unscheduled downtimes
- You detect failures at an early stage and can take countermeasures
- You optimally schedule maintenance and service times

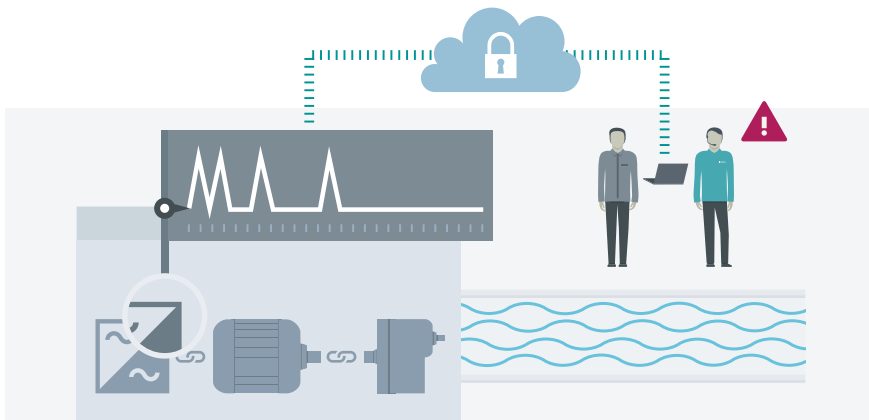
Corrective/Preventive/Predictive

## Cloud-based data analysis

### Drive Train Analytics

With Drive Train Analytics, condition data from your drive train components is transferred to the cloud via an encrypted connection. All the data is combined in a single system. Continuous monitoring ensures the constant transparency of the condition of your components. When necessary, our certified service experts immediately contact you, identify the error, and support you with troubleshooting measures before critical changes can occur.

With Drive Train Analytics, you also benefit from automated status reports and alarm notifications so that you can detect failures at an early stage. You can monitor your connected devices at any time on your customer dashboard. You also have the option of consulting our Siemens experts to obtain service recommendations.



#### Your benefits:

- You benefit from early error identification
- You minimize downtimes through condition-based maintenance
- You rely on automated status reports

Proactive

## Reduced energy costs

### Energy Performance Contracting

Energy Performance Contracting is an innovative service for implementing higher energy efficiency. Optimization measures in the drive train are financed through savings in energy costs. Only part of the savings are used for the service rate and the balance remains as a direct benefit for you. The projects are implemented according to a four-stage process that involves minimal risk for you, thanks to the promised cost savings.



#### Your benefits:

- You save up to 30% on energy consumption
- You use a package of measures for energy optimization
- You lastingly increase energy efficiency

# The modular portfolio

**With Digital Drive Train Services, we offer you not only the hardware, the connectivity, and the platform, but also the related Digital Services – throughout the entire drive train.**

Remote Services enables you to react quickly to plant failures and connect a service expert directly to your plant. With our Condition Monitoring Services, we offer standardized and customized solutions for any size of plant, tailored to your particular needs. You can perform mobile measurements on site and you can as well set up permanently installed measuring equipment in your plant.

Or you can start directly into the future with Drive Train Analytics – based on a combined Remote Services and Condition Monitoring Services approach – and enjoy the benefits of secure, cloud-based data analysis. With our Improvement and Optimization Services, we also offer you the opportunity to optimize your asset performance based on efficiency analysis.

**As a plant operator, you know that drive trains are an important lever for greater efficiency, reliability, and cost-effectiveness.**

**The key to achieving these goals lies in the data generated by drive trains. With Digital Drive Train Services from Siemens, you can make this data useable.**

**This allows you to keep your drives highly available, to achieve optimum productivity – and to actively shape your plant's digital future.**

# Your benefits with digital services

## Remote Services

Shorten unplanned downtimes by enhancing troubleshooting activities

## Condition Monitoring Services

Minimize unplanned downtimes by optimizing maintenance activities

## Improvement & Optimization Services

Optimize the asset performance by managing assets based on performance KPIs

### Drive Train Analytics



### Energy Performance Contracting

(Energy Analytics as option)

### Remote Support (incl. On-Call Service)



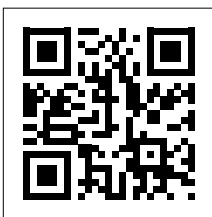
### Remote Diagnostics



### Mobile Diagnostics



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