Our drive: Your success.
Your addition in transmission.
Your addition in transmission.

+ Our company
+ Our range of services
+ Your application
+ Your solution
+ Your advantage
Ultra-modern by tradition

The foundations were laid over 100 years ago: In the small mill belonging to the Stephan family in the 1890s, everything already centred around the perfect drive system. And that is how it has remained – though we have of course grown in the meantime.

**Premium Stephan: Innovative and reliable**

Today we offer a wide range of products in the area of gear units and geared motors. This enables us to offer our customers tailored solutions at any time, from the standard gear unit, through products adapted for specific applications to custom-made gear units.

**Internationally networked thanks to Premium Transmission Ltd.**

We have been part of Premium Transmission Ltd since 2011. The long-established Indian company has been a leading provider in the field of mechanical power transmission for over four decades. The comprehensive resources in the product range and the impressive know-how of the Indian market leader are now also enriching our production plant in Hamelin. – And at the same time helping us to continue to offer our customers the best products and optimum service in future. After all, we know that real added value is only derived from excellent quality.
Ultra-modern by tradition

Premium Stephan, certified according to ISO 9001, FVA member

Premium Transmission Ltd. certified according to ISO 9001, AGMA and CTI member

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1908
Foundation of Stephan-Werke – drive technology developers

1922
Development of the first geared motor

1955
The 1,000,000th Stephan motor comes off the production line

1985
Development of a high-precision gear unit for the robotics industry

1993
The Stephan family company becomes part of the Brook-Hansen Group

1994
Market launch of the S3 gear unit series

2005
Market launch of the S4 geared motor series

2009
Market launch of the E4/C4 industrial gear unit series

2011
Stephan becomes part of Premium Transmission Ltd.

2013
Market launch of the M-series geared motors

Everything from a single source
+ Gear units and geared motors
+ Application-specific solutions, adapted to your needs, right through to custom-made gear units
+ Product and system solutions such as drive sub-assemblies

Everything top quality
+ Outstanding reliability
+ Know-how accumulated over many years
+ Proven products made of the best components

Everything in your interest
+ Excellent problem-solving skills
+ Oriented on your specific requirements
+ Flexible and intensive service
Our Service bonus

Universal deployment and availability
Our solutions are not limited to individual industries but are adjusted according to your needs. And we can guarantee especially short delivery times.

Safety and reliability
Premium Stephan stands for optimum levels of efficiency and absolute reliability – in applications right across every industry, from underwater gear units to cooling tower drives.

Customer orientation and service
Your objectives are the key factor: if it is not listed in the catalogue we will develop it for you. With customer orientation, competence and excellent quality.

Highly cost-effective
We always deliver best fit – i.e. at the best possible price for the function that you actually need. This is achieved thanks to a large number of multiple-use parts, even for customised solutions.

Wide product range
Our solutions are in use everywhere – in conventional industry as well as in the harshest environments and under extreme load.
Guaranteed added value for you

Quality and quality assurance
We only work with the best components. And we also ensure the high standard of our work with an extremely dynamic and committed quality management team.

Your addition:
+ Drive technology made/engineered/tested in Germany
+ Premium Stephan certified acc. to ISO 9001, FVA member
+ Premium Transmission Ltd. certified acc. to ISO 9001, member of AGMA and CTI

Manufacturing and production
We do more and more for our customers, straight from the factory: from drive layout, gear unit design and project management through to assembly on your premises.

Your addition:
+ Housing machining for cast iron, aluminium and steel
+ Gear teeth ground with no play or precision-milled
+ Assembly using installation cranes and in-house paint shop

Flexibility and modernity
Our large, ultra-modern plant can be flexibly adapted to meet your needs, so we can produce exactly what you require – very quickly and with great reliability.

Your addition:
+ State of the art machinery
  HEDELIUS machining centre – extremely versatile thanks to 5-axis workspace with lots of room, EMCO CNC lathe – excellent thermal stability, machining precision and rapid traverse speed, with good cutting performance
  Wide range of testing options for dimensions, noise levels and precision

Everything that you need
+ Large torque range up to 4,000,000 Nm
+ Standard and special designs
+ Application-specific solutions

Everything when you need it
+ High availability
+ Short delivery times
+ Rapid development of customised solutions

Everything to make it pay
+ High level of multiple use parts
+ Utilisation of existing designs
+ High cost-effectiveness in product modification/adaptations and special solutions
Our world turns around you

We are there where you need us – and we ensure proximity to the customer anywhere in the world. How can that be? It’s very simple: by means of our global presence, including branches, authorised dealers and assembly centres.

Your addition:
- We respond quickly and flexibly – virtually anywhere in the world.
- We assist you with commissioning, maintenance, repairs and overhauls.
- We meet our deadlines thanks to just-in-time deliveries.
- We guarantee your operations by means of good worldwide parts availability.
- We provide immediate assistance – with our on-site service.

Full service – at any time

We ensure that you can be one step ahead in the market: Our service ranges from the perfect offer for your particular needs to the timely delivery and commissioning of the finished machine, as well as comprehensive follow-up support, maintenance and servicing of your Premium Stephan products. Please feel free to contact us: Our project managers, application experts and customising project teams will be happy to help!

Your addition:
- Adaptation and layout according to your requirements
- Assistance with project planning
- Technical advice for selection and configuration
- Implementation of innovative solutions
- Project-specific documentation
- Analysis of important data such as gear layout, gear unit temperature under load and more, from our test laboratory
Everything quickly on the market
+ Separate teams from all the crucial areas
+ Pragmatic decisions, high levels of professionalism, rapid processing

Everything professionally managed
+ Many years’ experience of customer-specific developments and series deliveries – including internationally
+ Clear process structures for optimum safety and efficiency

Everything on the basis of partnership
+ Numerous references and lots of experience in the project business
+ Customer and project-specific product and project documentation
Your product selection

Our solutions are not limited to particular industries, but they do have some common distinguishing features: uncompromisingly good quality, high torque ranges and extreme durability.

Geared motors

You can expect a wide range of models with scalable performance features and various options for customisation. The high quality gears and optimum gear tooth meshing ensure quiet operation. The standard dimensions and the EASY-FIT assembly system ensure rapid and easy assembly.

Your addition:

- High performance thanks to optimum design and use of components
- Available as in-line helical gear, parallel shaft-mounted and helical-bevel gear models
- Wide range of different housing and flange designs, as well as shaft options
- Performance characteristics of the motors can be individually configured and are available as integral or IEC versions
- Gear ratios from 2.8 to 315 : 1 in finely graduated steps

<table>
<thead>
<tr>
<th>200 Nm</th>
<th>25,000 Nm</th>
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Your addition:

- Innovative overall concept guarantees best fit and reduced Total Cost of Ownership
- Available as helical gear and bevel-helical gear models
- Robust and maintenance-friendly
- Wide range of options: “ProCool” system series for use at high temperatures, the “Advanced Protection Sealing” series for high dust levels, monitoring system, special paint finishes etc.
- Gear ratios from 6.3 to 315 : 1 in finely graduated steps
- Rapid commissioning thanks to matched components

Ideal for use in the demanding, process-related area and under harsh environmental conditions: our industrial gear units boast an impressively rigid housing design and superior thermal performance. Thanks to their high level of efficiency they are extremely economical in operation.

Special industrial gear units

Your addition:

- Best fit of the service offering, according to your functional expectations
- Implementation of innovative concepts and installation support provided by expert project and development teams
- Safety by means of monitored production processes
- Reliability confirmed by numerous references

The perfect solution for your company – precisely matched to your needs and in your plant in no time at all, thanks to our project teams.
**Industrial gear unit series**

Ideal for use in the demanding, process-related area and under harsh environmental conditions: our industrial gear units boast an impressively rigid housing design and superior thermal performance. Thanks to their high level of efficiency they are extremely economical in operation.

18,000 Nm 750,000 Nm

**Your addition:**
+ Innovative overall concept guarantees best fit and reduced Total Cost of Ownership
+ Available as helical gear and bevel-helical gear models
+ Robust and maintenance-friendly
+ Wide range of options: ‘ProCool’ system series for use at high temperatures, the ‘Advanced Protection Sealing’ series for high dust levels, monitoring system, special paint finishes etc.
+ Gear ratios from 6.3 to 315 : 1 in finely graduated steps
+ Rapid commissioning thanks to matched components

**Special industrial gear units**

The perfect solution for your company – precisely matched to your needs and in your plant in no time at all, thanks to our project teams.

up to 4,000,000 Nm

**Your addition:**
+ Best fit of the service offering, according to your functional expectations
+ Implementation of innovative concepts and installation support provided by expert project and development teams
+ Safety by means of monitored production processes
+ Reliability confirmed by numerous references
Precision gear units

You will find us where precise and accurate work is required – and we have over 25 years’ experience in the design and production of precision gear units.

Your addition:
+ Designed for high levels of braking and acceleration torque in frequent reversing mode
+ Levels of efficiency unequalled in the market
+ Very low energy demand
+ Suitable for cleanroom applications
+ Cost-effective production thanks to a modular system
+ Ultra-precise tracking and pinpoint positioning – particularly in robotics
+ Option of setup on existing servomotor

105 Nm

4,000 Nm
You will find us in use (almost) everywhere

The areas of application for solutions from Premium Stephan are wide and varied.

+ **Cooling towers**

Our cooling tower fan drives are designed to cope with the high demands and the especially difficult operating conditions to be found in the cooling tower and heat exchanger industry. The gear units are more reliable and quieter than average. This enables a long service life under constant heavy load.

+ **Materials Handling technology**

There is a wide, scalable product range of helical and bevel-helical gear units available to you – tailored to meet your requirements in heavy-duty materials handling. This enables optimum plant availability even under the harshest environmental conditions.

+ **Environmental technology**

We have more than 15 years’ experience in the field of environmental technology and with ventilator drives. The design of our gear units, for example with Dry-Well / “Protective Sealing”, provides guaranteed freedom from leaks. The “high reliability” seal design ensures the extreme durability of the system.

+ **Areas subject to explosion hazards - ATEX**

Our gear units are designed for operation in areas subject to dust or gas explosion hazards.

+ Safety with gas: zones 1 + 2
+ Safety with dust: zones 21 + 22

+ **Special applications**

We can also provide you with the appropriate solution for other, special requirements: Whether you need extremely quiet hoisting gears for a theatre stage or an extremely robust drive unit for crane installations right next to the sea, etc., our specialists will be happy to help. And together we are guaranteed to find the optimum solution!
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