Performance features of project processing:
- Support in project planning and drive system construction
- Expert project and development team create innovative concepts
- Project-specific documentation (layout, languages, contents)
  Design-specific documents, e.g., for gearing design, drive/mount temperature under load, welding, etc.
- Process security throughout the entire design cycle (Design, verification, prototype development, test run in Premium Stephan Test-Lab, etc.)
- Construction FMEA for gearbox optimisation (optional)
- Ensuring and implementing the project roadmap
- Speed – from the first idea to the finished series

Custom design features
Gearbox, examples
- Housing design in grey cast iron, also available in spheroidal cast iron or as a welded housing (optional thermally stress-relieved)
- Special transmission ratios
- Gearboxes with two or more output shafts
- Compatible connecting dimensions for substitutions in existing designs (substituting within an existing design)
- Immersion- or pressure-circulation lubrication as required
- Gear geometry is optimised to suit the usage e.g., low sound emissions, longevity that results from a high ratio of bearing contact area to total area, low backlash
- Gear qualities comply with DIN 3990/ ISO 6336 in series qualities 5 ... 10

General performance information, examples
- Torque range up to ca. 100,000 Nm
- Rpm e.g., up to 10,000 min-1
- Performance requirements correctly implemented

Examples:
- Bearings adapted for external forces and required service life
- Paint and wear protection are designed based on the application
- Special methods for ensuring long-term durability and corrosion protection are possible
- Broad spectrum of optional cooling methods, e.g., oil/air cooler, integrated cooling circuit, fan blades
- Connection elements specially adapted to load alteration/loosening behaviour, with optional stainless steel design
- Custom-designed name plates, with optional stainless steel design
- Scalable sealing systems, e.g., Premium Stephan’s ”High Reliability”

AS- Rotary shaft sealing system
- Wear parts’ design specially suited to specific maintenance intervals
- Maintenance requirements, e.g., user-friendly lubrication is taken into consideration
- Optimised product modules
- Low component variance and high amount of carry-over parts
- End result is widely available

Logistics, examples
- High flexibility and short delivery times
- Prefabricated assembly groups for the highest end result flexibility
- System delivery
- Of gearbox and system components, e.g., with oil pump and oil cooler
- With mounted additional components, e.g., special motor from the client
- Mounting, commissioning, and service directly by the manufacturer (service option)
- Use of Premium Stephan’s supply chain know how to ensure the series availability – even in cases of „fluctuating demand”

Your benefits with Custom Design made by Premium Stephan
- Best-Fit of the product offered (price/function relationship) for your application
- Safety thanks to established and continually improved development, verification, and manufacturing processes
- Reliability as proven by numerous references in diverse fields, such as environmental technology, robot technology, and the food industry
- Speed (time to market) in project implementation ensures your competitive advantage

More than 80 years’ experience in geared motor technology.
More than 25 years’ experience in the areas of small and large series for custom solutions.

We help make your job a success!
Application references.

Flexible range of products. Fast implementation. Reliable partnership.

Your benefits.

Everything from one source
- Gearboxes and geared motors
- Application-specific products (customisation)
- Product and system solutions (e.g. drive assemblies)

Speed in the implementation of specific requirements (customisation)
- Product modifications (application products)
- Special gearboxes (application/engineered products)
- Special developments (engineered products)

Reliability
- Tried-and-tested S4 product range (successor to Hansen S3)
- Know-how and experience stretching over many years guarantee a well-honed design

"Impossible" is unacceptable
- Problem solving is our forte
- Premium Stephan’s purpose is to analyse your specific requirements and to quickly find solutions

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