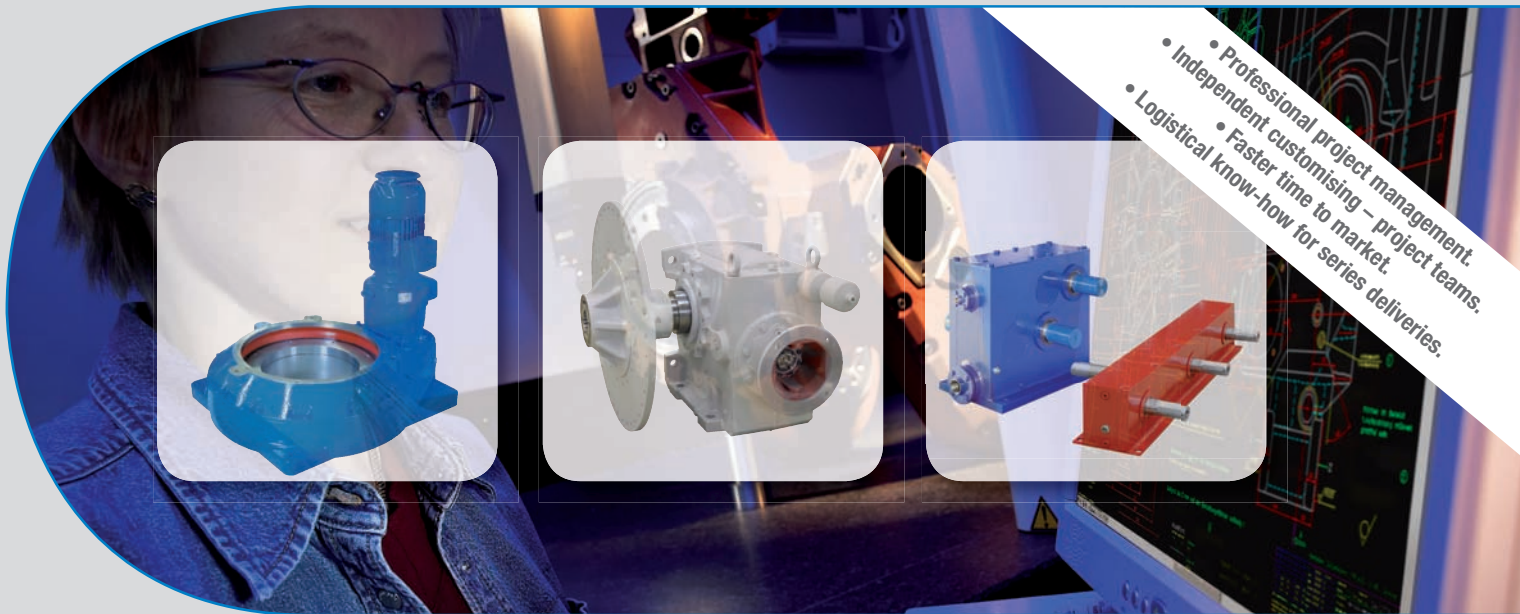


Your application with a profile of individual requirements

Our solution: Customized Design by Premium Stephan



- Professional project management.
- Independent customising – project teams.
- Faster time to market.
- Logistical know-how for series deliveries.

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 alternation/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.



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

Flexible range of products. Fast implementation. Reliable partnership.



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