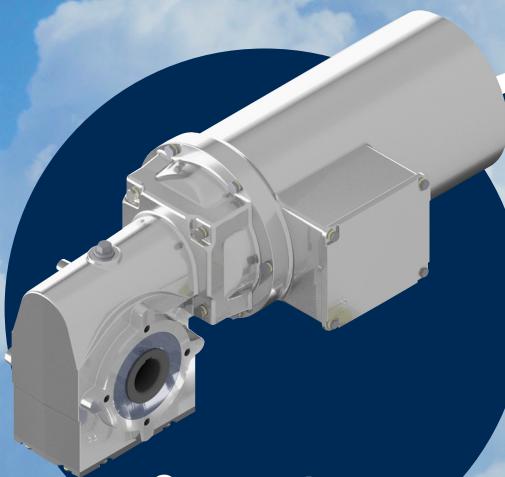
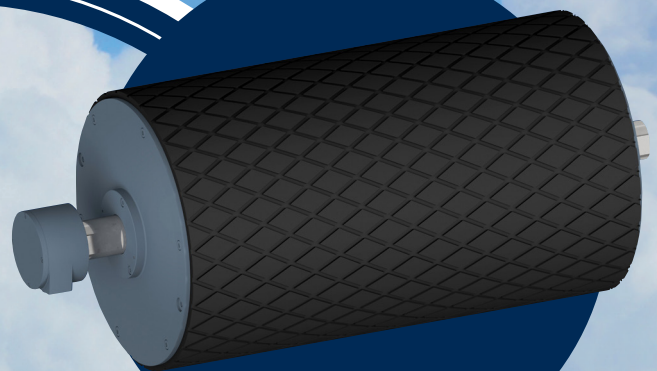


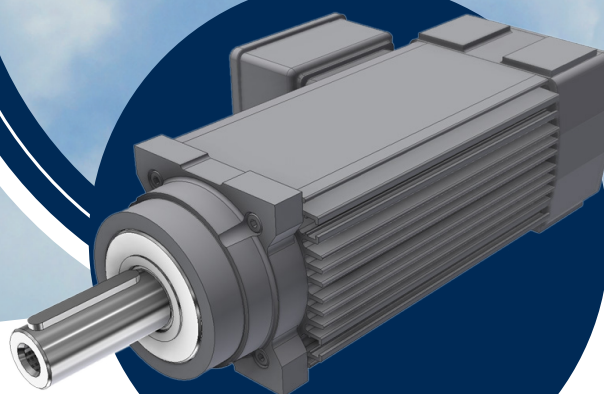
YOUR **DRIVE** FOR SUCCESS.



Gear motors



Drum motors



Flat motors

OVERVIEW DRIVE TECHNOLOGY

HIMMEL[®]
technologies
YOUR DRIVE FOR SUCCESS.

GENERAL INFORMATION

Drive technology from a strong group of companies

Our drive technology brings together the expertise of HIMMEL Antriebstechnik, LAT Maschinen- und Antriebstechnik and BOCKWOLDT Antriebstechnik. These three experienced companies, united within a strong group, have stood for quality, technical innovation and practical solutions for decades. Together, we supply a wide range of industries with high-performance and reliable drive systems.

Three specialists – one mission

HIMMEL Antriebstechnik develops robust gear motors and flat motors that have proven their worth in the mechanical and plant engineering sectors worldwide.

LAT introduces high-performance drum motors – ideal for applications with limited installation space, high protection requirements up to IP69K and clean contours.

BOCKWOLDT complements its product range with precision-manufactured spur, helical and special gearboxes of the highest technical standard.

Together, we cover a wide range of gear motors, flat motors and drum motors – tailored to each specific application and its requirements.

The benefit for you: synergies that create added value

Our close collaboration offers you key benefits:

- A wealth of expertise from all areas of drive technology.
- Short communication channels and rapid implementation.

- Drive systems that are designed to be functional, cost-effective and practical.

Drive technology expertise you can rely on

With the combined strengths of HIMMEL Antriebstechnik, LAT Maschinen- und Antriebstechnik and BOCKWOLDT Antriebstechnik, you benefit from a high-performance range of drive systems – durable, efficient and future-proof.

Drive technology from a single source.

Three companies.

One compelling solution.



Customised design

Drive technology that moves things – solutions that inspire

As specialists in high-quality drive technology, we offer a comprehensive range of gear motors, flat motors and drum motors – robust, efficient and designed for the most demanding industrial applications.

However, our true strength lies not only in our products, but in our understanding of your individual requirements.

Your challenge is what drives us

Whether it's non-standard dimensions, specific performance requirements or complex installation scenarios:

We develop custom-made drive solutions that are precisely tailored to your processes. To achieve this, our experienced sales team and our design department at our Gescher site work hand in hand – quickly, flexibly and with a clear focus on results.

Strong on service. Strong as a team. Strong for you.

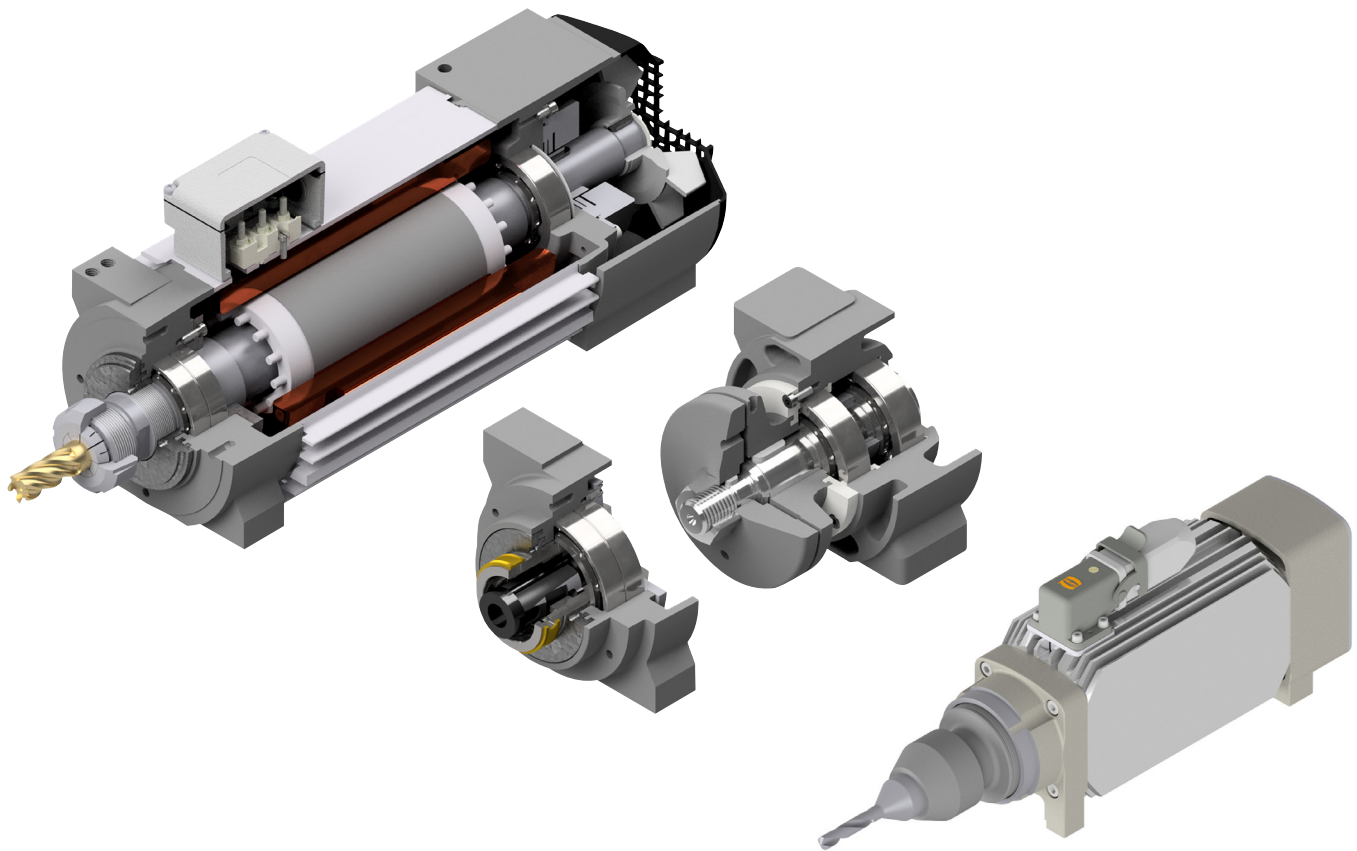
- A skilled field service team – right there on site, with technical expertise and a practical understanding of your business.
- A dedicated in-house sales team – swift coordination, reliable communication and personalised support.
- Efficient design and development – streamlined processes, rapid response times and high-quality technical solutions.

Working together to find the perfect solution

We support you every step of the way, from the initial idea to the finished product – personally, as partners, and to the highest quality standards. With our drive technology, you can count on efficiency, durability and innovation. Choose drive systems with a systematic approach. And a team that goes the extra mile for you.



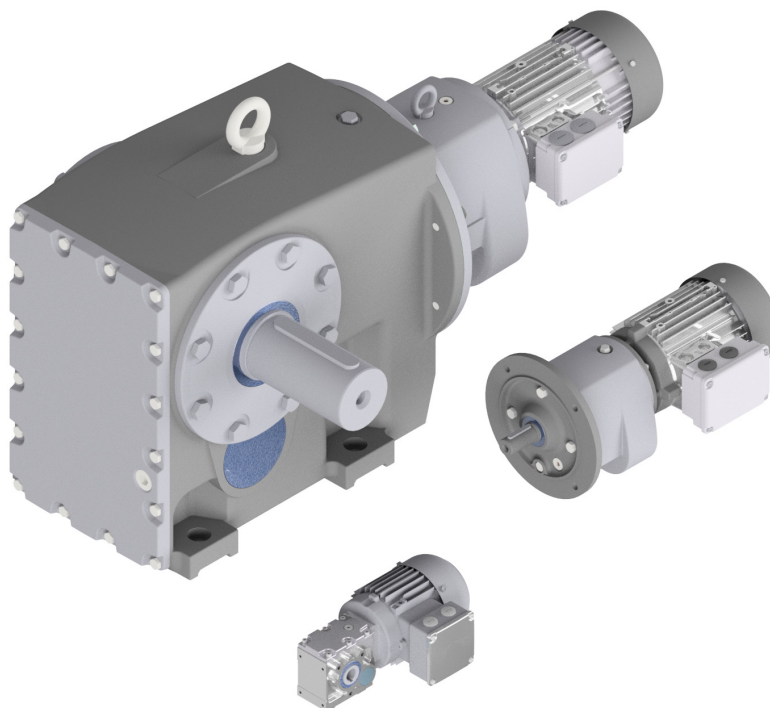
K35 - K160



Technical Data	
Nominal power	0.25 - 115 kW
Motor speed	up to 24,000 1/min
Certification	CE / CSA / cCSAus
Output design	Flanged plates, shaft with key, HSK-C, HSK-F, Hydro-Format system, collet, quick-change clamping system, angular gearbox, customised solutions on request
Bearings	Single bearing, double bearing, high-precision bearing pair, hybrid bearing
Electrical connection	Terminal box, plug, cable
Brake	according customer's requirement
ATEX-design	according customer's requirement

Helical gear motor E20 - E140 / D/Z10 - 181
Bevel gear motor K30 - K200
Helical worm gear motor C10 - C122

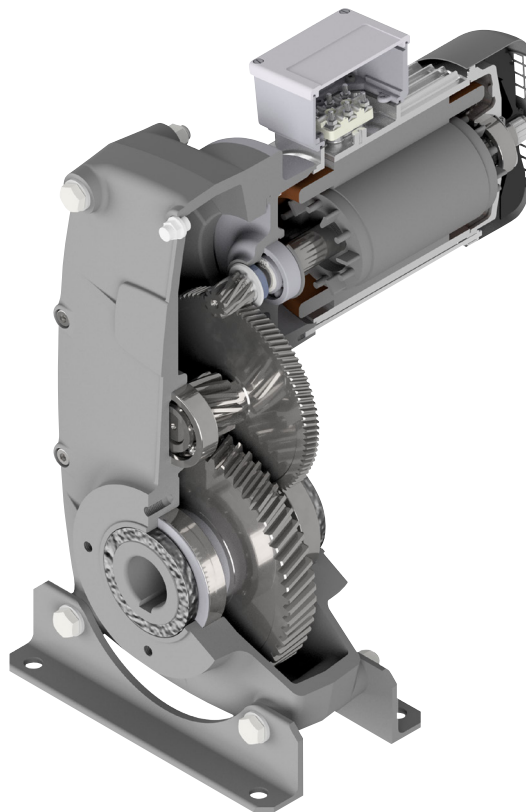
Flat gear motor F31 - F201
Worm gear motor S01 - S11



Technical Data	
Housing material	Grey cast iron, aluminium
Rated power	0.09 - 160 kW
Rated torque	20 - 28,000 Nm
Translations	1.7 - 14,126
Output shaft	Hollow shaft, solid shaft (single-ended or double-ended) or spline-toothed
Designs	Foot, flange, flange on both sides, foot and flange, centring cover, shrink disc, torque support
Customised versions	Output shaft in imperial dimensions, cooling tower, agitator, oil level monitoring: sight glass, venting: vent valve, filter, vent screw, oil drain: ball valve/hose tap, ATEX version
Output shaft bearing	standard, axially or radially reinforced
Drive types (Motor)	Electric motor; short-shank, coupling and servo adaptors; motor mount
Seals	Shaft seal, Viton
Protection class	IP54, IP55, IP56, IP65
Surface protection	C1 - C5

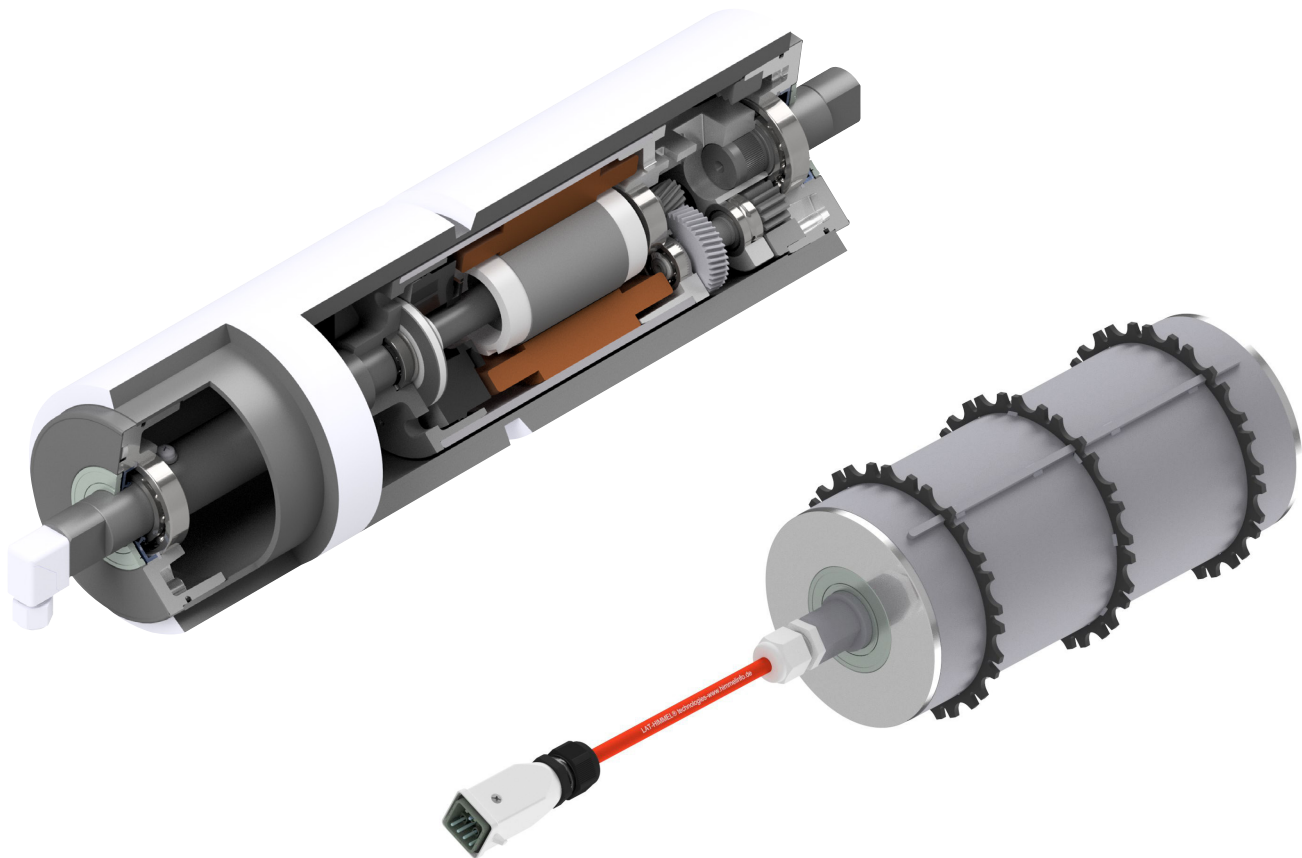
Helical gear motor CB 00 - CB 11

Flat gear motor CB SF 350 - CB SF 3050



Technical Data	
Housing material	Grey cast iron
Rated power	0.12 - 75 kW
Rated torque	50 - 6,000 Nm
Translations	$i = 2,11$ to $i = 3339$
Output shaft	Hollow shaft, solid shaft (single-ended or double-ended)
Designs	Foot, flange, foot/flange, torque support, foot angle
Customised versions	Free input shaft, IEC standard lantern, special shaft, special flange, oil sight glass, agitator version, ATEX version
Output shaft bearing	standard, axially or radially reinforced
Drive types (Motor)	Three-phase motor
Seals	Shaft seal, Viton
Protection class	IP 55, IP 56, IP 65
Surface protection	C1 - C5

TM60 - TM1000



Technical Data	
Drum diameter	50 - 1,500 mm
Performance range	0.018 - 400 kW
Belt speed	0.03 - 9.5 m/s
Rotational speed	6 - 600 1/min
Protection class	IP65 - IP69K
Material options	Steel, stainless steel, aluminium
Drum types	crowned, cylindrical, welded axial key(s), smooth and profiled coatings (FDA-approved)
Electrical connection	Terminal box, straight and angled cable outlets, plug
Certification	CE / cCSAus / ATEX
Electrical features	Winding protection, encoder
Mechanical features	Backstop, brake, sprockets, roller brush

An overview of our services

- **Diagnosis & Repair::**

We carry out professional analysis and repairs on your gearboxes, motors and pumps – regardless of their design or manufacturer. We diagnose the causes of faults with the outstanding precision, rectify defects efficiently and ensure that your drive systems are back up and running smoothly.

- **Maintenance:**

Regular maintenance prevents costly downtime and extends the service life of your machinery. Using state-of-the-art measurement technology, we analyse the condition of your drive systems, identify wear at an early stage and take targeted action before serious damage occurs.

- **Overhaul & Upceep:**

We ensure that your drives remain efficient in the long term. Through a comprehensive overhaul, we restore them to peak condition – from cleaning and testing to replacing worn components. Our aim: maximum efficiency and reliability.

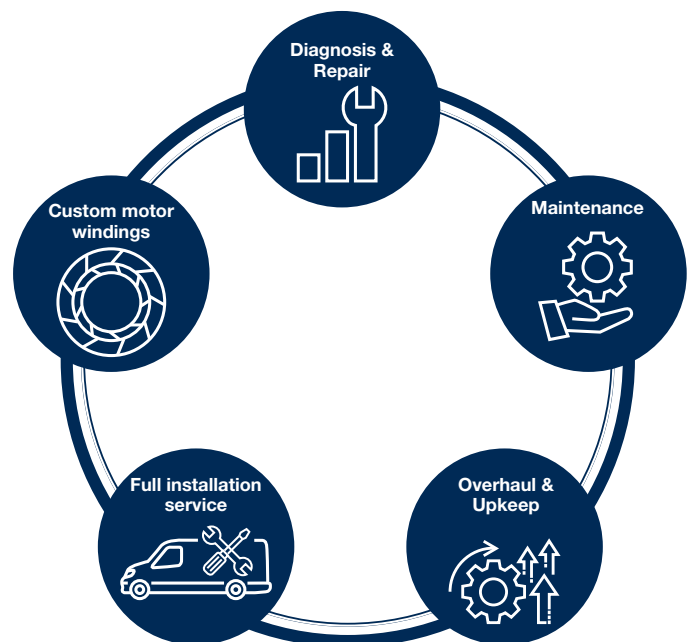
- **Full installation service:**

Whether on site or in our workshop – we take care of the entire dismantling and reassembly of your drive systems. Following a thorough inspection and repair, we reassemble all components to the highest standards, thereby ensuring smooth operation.

- **Custom motor windings:**

With over 75 years' experience and our own winding work-

shop, we are experts in the repair and rewinding of motors. Thanks to precision craftsmanship and state-of-the-art technology, we produce bespoke windings that guarantee maximum efficiency and durability – even for the most demanding applications.



Optimization made visible: a before-and-after comparison



Winding repair



Overhaul of an HSK80-E spindle motor
(63 kW, 12,000 rpm)



Maintenance and repair of a
centrifugal pump installed in a dry well

We are service and/or sales partners of well-known manufacturers

GRUNDFOS 

GRUNDFOS 
AUTHORISED
SERVICE PARTNER

HOMA
PUMPEN MIT SYSTEM

SULZER

 **EBARA**

PLEUGER

 **calpeda**[®]

xylem
Let's Solve Water

VERDER
passion for pumps

 **varisco**
solid pumping solutions

WEG



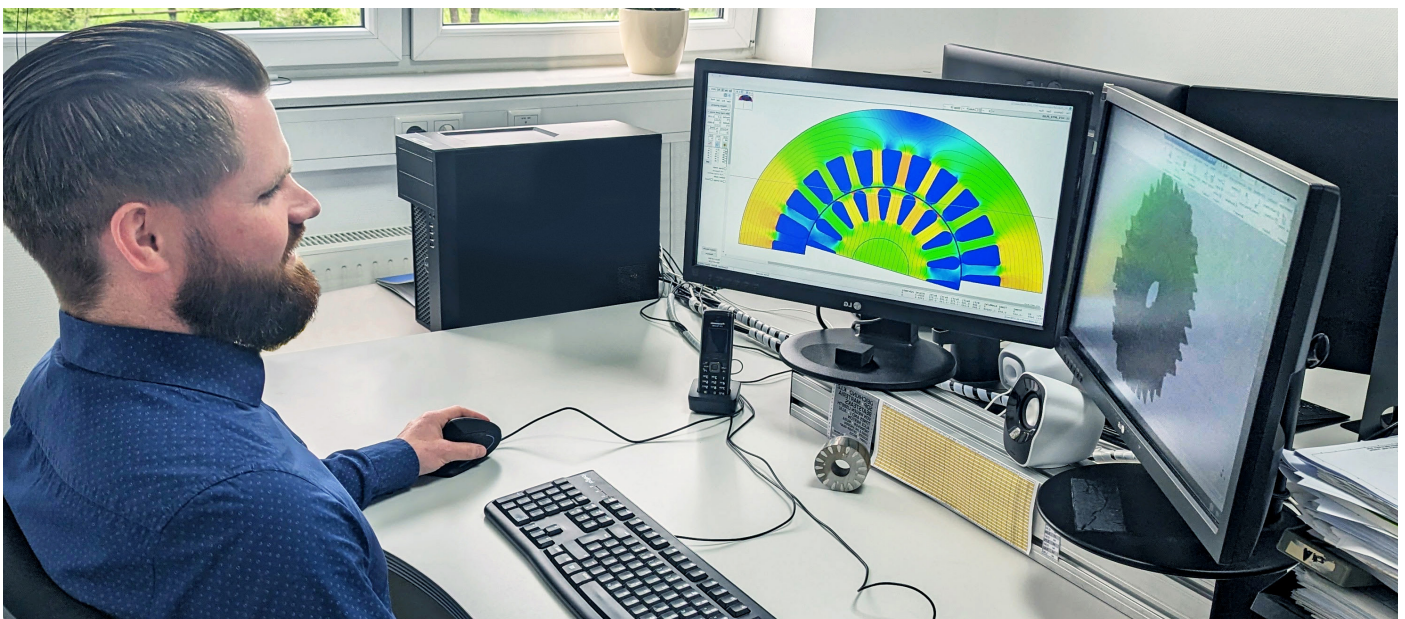
Simulation

Particularly when our motors are subject to the most demanding requirements, an optimal winding design and the structural analysis of the components are of crucial importance. All electrical data is calculated by our experts. New winding designs are verified and adjusted using numerical simulation in accordance with the latest standards. This ensures that the optimum performance is always achieved under the given conditions.

Mechanical design is also supported by modern software solu-

tions that assist us with a wide range of issues. This enables us to calculate bearing service life whilst taking a wide variety of factors into account.

Furthermore, we utilise numerical methods such as the finite element method (FEM). This enables us to detect weak points at an early stage in the development process and, where necessary, carry out contour optimisations.



Rapid Prototyping

State-of-the-art 3D printing processes are used in the ongoing development of our HIMMEL® products. This significantly speeds up the development of prototypes for individual components and ensures that our development team's ideas are brought to life for you as quickly as possible.

The layer-by-layer additive manufacturing process can produce a physical component or assembly directly from the CAD design data, meaning that potential optimisations or adjustments can be implemented as early as the development phase. This allows us to avoid manufacturing processes that are significantly time-consuming and costly.

Rapid prototyping has already been successfully used in a wide range of applications, enabling, for example, the development of new ventilation concepts designed to optimise cooling air flow. The effectiveness of the design measures taken to optimise our

HIMMEL® products is verified using a wide variety of test methods. The necessary tests are carried out in-house.





Test Facility

The in-house test facility comprises three test benches for HIMMEL® products alone. In addition to a power test bench, two run-in test benches are available. Our performance test bench can accommodate a wide range of HIMMEL® products using various generators and measuring systems. State-of-the-art measurement technology records up to eight sensor channels in real time. This enables various test sequences to be carried out and recorded with precision. During post-processing, the recorded data is analysed and presented graphically.

Two fully automated run-in test benches ensure a run-in process suitable for series production in accordance with specific requirements. This allows grease distribution runs and run-in phases to be carried out in parallel, based on time or temperature. All HIMMEL® products are fully operational upon delivery. A time-consuming and expensive run-in phase at the customer's site is therefore no longer necessary.



Our references

Numerous satisfied customers place their trust in our expertise. Whether they are medium-sized companies or international corporations, our bespoke solutions and reliable services have already proven their worth in many projects.



YOUR DRIVE FOR SUCCESS

HIMMEL® technologies

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