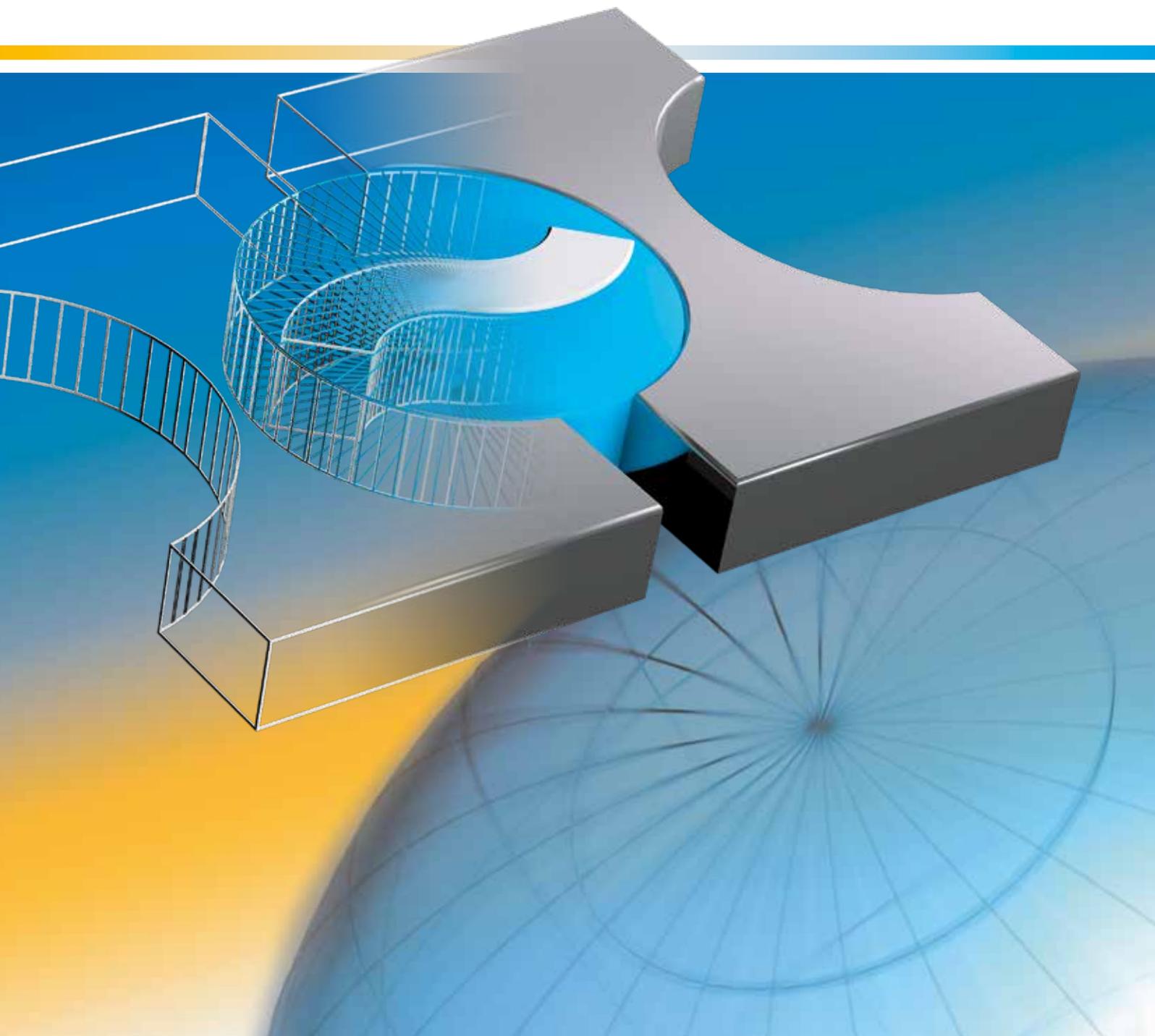




**HANNING**

moving ■■■ ideas

**YOUR SUCCESS  
DRIVES US!**



## YOUR PARTNER FOR CUSTOM-FIT DRIVES

**Life is motion which we have been lending to your products for over 75 years.** Based on

our slogan „moving ideas“, we develop drive concepts and solutions that will strengthen your position on the market. By doing so, we have evolved into one of the leading manufacturers of electric and electronic drive systems in the world.

Our extensive knowledge of international markets and industry as well as our global presence have been the key to our success. The HANNING production network comprises not only the German locations in Oerlinghausen and Eggesin, but also further production locations in Romania and India. That enables us to be close to our customers and ensures accessibility and first-class service.

We have combined our know-how in three market divisions – Industrial Applications, Appliance Applications and Linear Actuators. Every individual unit is highly specialized and offers both forward-looking and customized solutions for a wide variety of applications and segments.

Our portfolio includes e. g. products for the appliance and medical technology industry, for process and material handling systems, mechanical engineering, furniture and textile industries.

### Industrial Applications

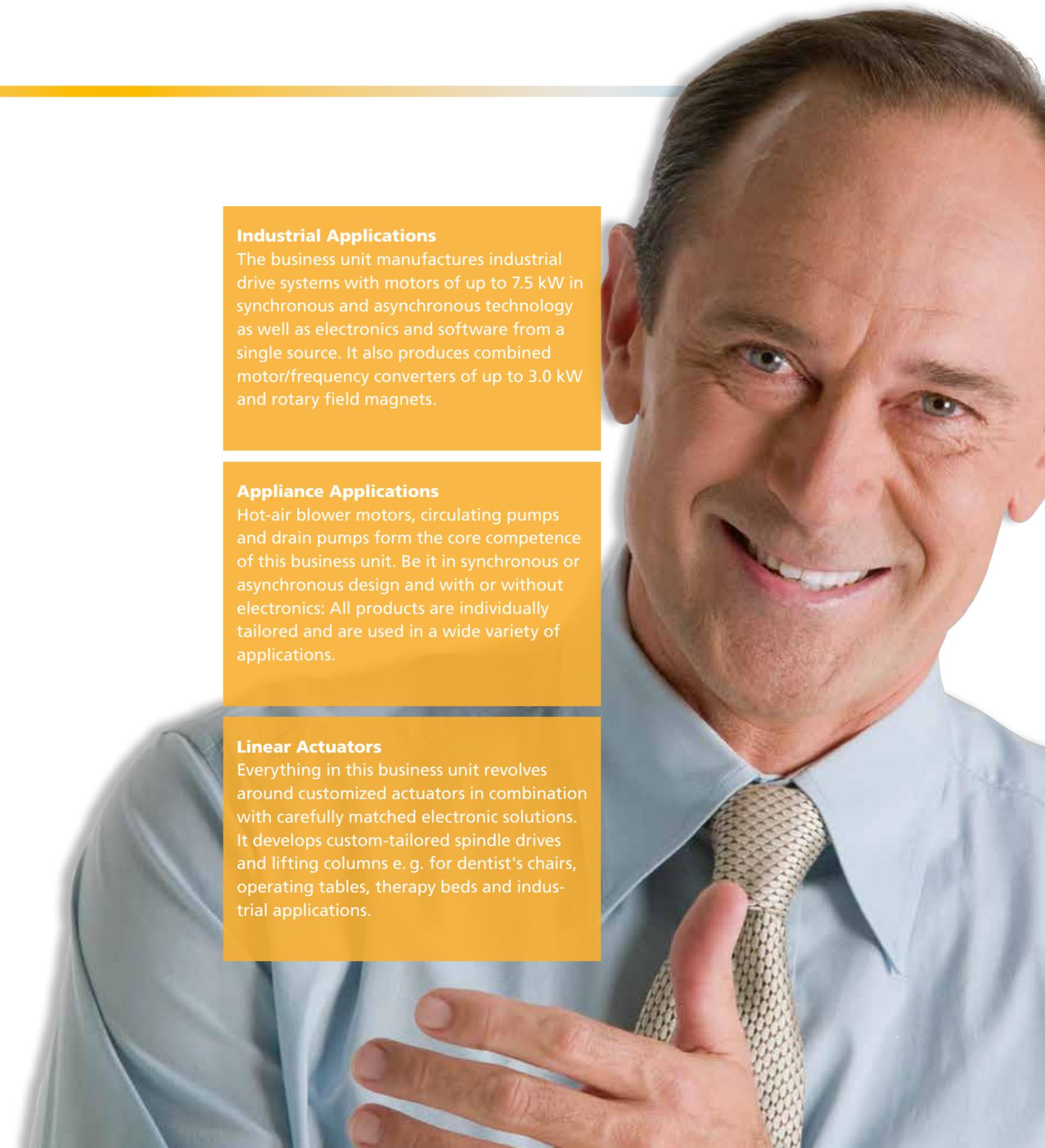
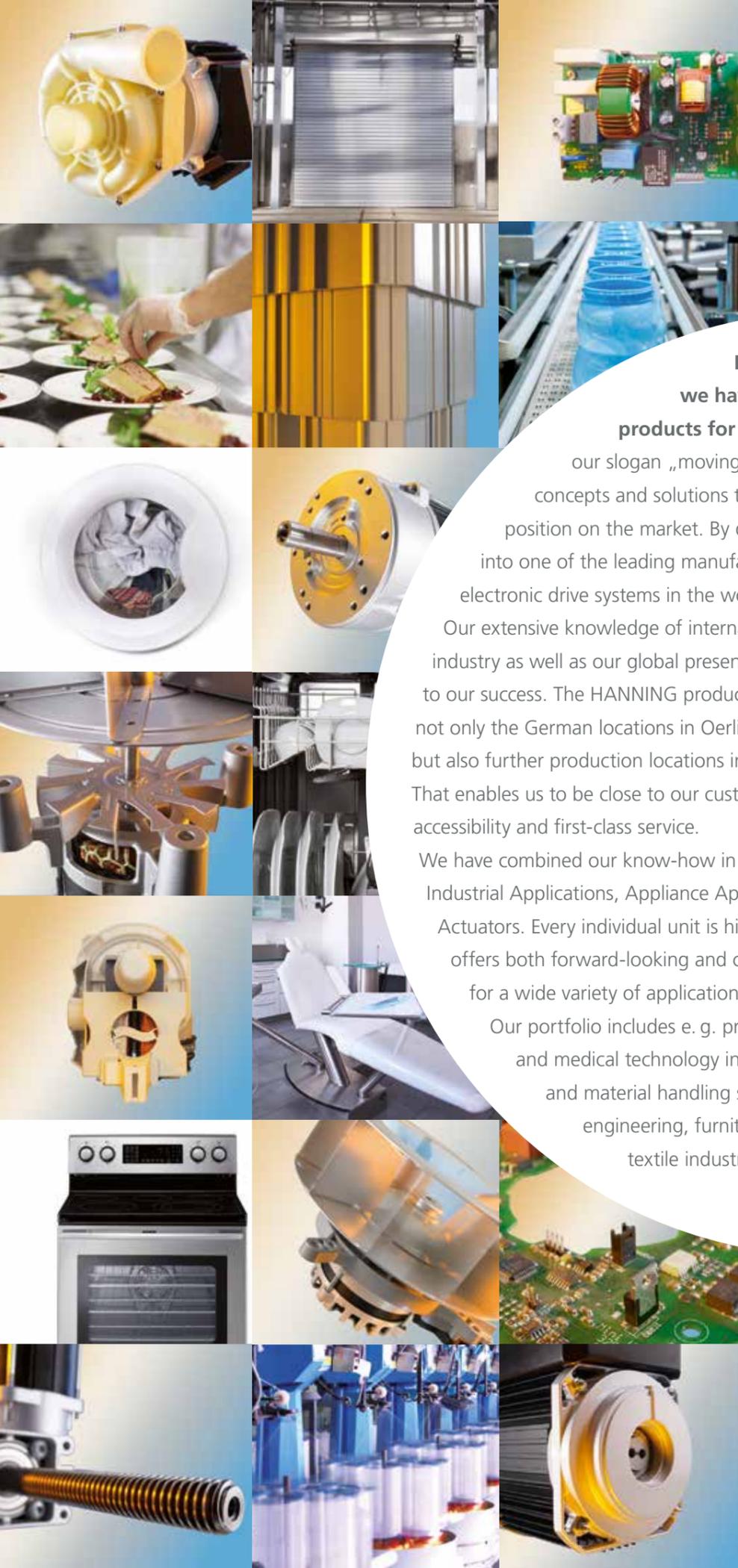
The business unit manufactures industrial drive systems with motors of up to 7.5 kW in synchronous and asynchronous technology as well as electronics and software from a single source. It also produces combined motor/frequency converters of up to 3.0 kW and rotary field magnets.

### Appliance Applications

Hot-air blower motors, circulating pumps and drain pumps form the core competence of this business unit. Be it in synchronous or asynchronous design and with or without electronics: All products are individually tailored and are used in a wide variety of applications.

### Linear Actuators

Everything in this business unit revolves around customized actuators in combination with carefully matched electronic solutions. It develops custom-tailored spindle drives and lifting columns e. g. for dentist's chairs, operating tables, therapy beds and industrial applications.



1948

1949

1951

1952

1953

1954

1955

1956

1957

1958



1947  
Robert Hanning founds  
Elektrobau Hanning GmbH



1950  
Development of a dairy  
pump



1953  
An electromechanical  
centrifugal control system is  
new to HANNING's portfolio

1955  
The company  
produces industrial  
motors with an  
output of up to  
11 kW and starts the  
development of  
small motors at the  
same time



1956  
Washing machines, equipped with  
HANNING drain pumps, find their way  
into German homes

## VALUES YOU CAN COUNT ON

HANNING ELEKTRO-WERKE develops and produces high-tech solutions that make a significant contribution to the success of your products. We are known for our reliability, sense of responsibility, our partnership culture and commitment. These values make us a capable and reliable partner for our customers over the long term.

Daily interaction with clients is a decisive factor for success, and at HANNING ELEKTRO-WERKE that is characterized by clear values which encourages stability and trust.

### Creating added value with profile

Be it in development, production or sales: Everything we do serves a single purpose – our aim to create added value. Technically innovative, customized solutions of uncompromising quality are a prerequisite just like a smooth collaboration. We guarantee these by leveraging mandatory values like discipline, reliability, sense of responsibility and consistency in terms of approach. That is how we create added value. After all, sustainable growth can only be achieved when the collaboration is important to

all participants. That is what counts. And that is how we safeguard the ability of our customers and HANNING ELEKTRO-WERKE to meet future challenges.

### Thinking and acting in a sustainable manner

Our results are proof of our approach to think about the long term and act in a sustainable manner. For instance, we have been working closely together with many customers all over the globe for decades. These partnerships are characterized by team spirit, just like the collaboration between our employees. We willingly rise to the technological and economic challenges of the present and together with you we will shape the future.

### Overview of the HANNING production network

**International production network:**  
Oerlinghausen and Eggesin/Germany,  
Oradea/Romania, Vadodara/India

**Staff:**  
Approx. 1,500 employees worldwide

**Business units:**  
Industrial Applications, Appliance  
Applications, Linear Actuators

**Sales partners:**  
Represented all over the world

HANNING ELEKTRO-WERKE  
in Oerlinghausen, Germany  
»



1959  
Industrial motors with planetary gears are used in drum-type washing machines



1960  
Following Germany's recovery, exports gain more and more importance – especially for the appliance industry

1961

1962

1963  
HANNING develops the first circulating pump for dishwashers made of plastic



1964

1965

1966



1967  
The product portfolio is extended to include a drive system for gates

1968



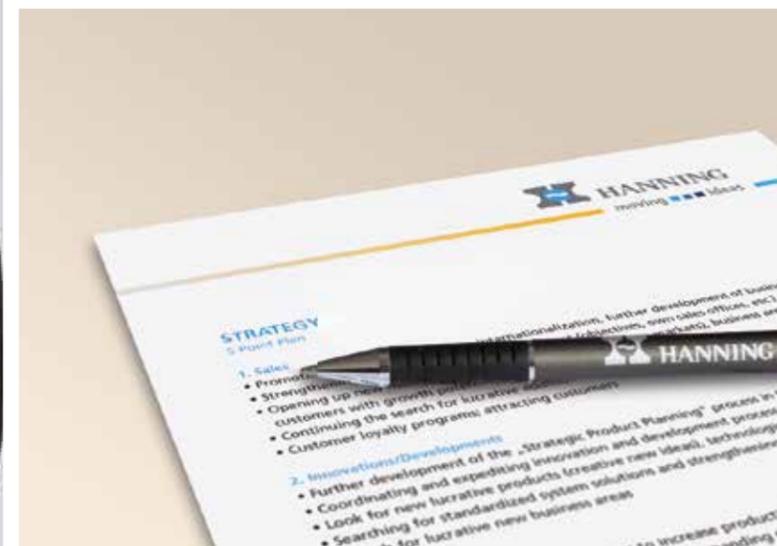
1969  
The linear drive system with pneumatic control celebrates its debut

1970



## WELL POSITIONED STRATEGICALLY

Anyone who wants to deliver maximum performance over the long term, has to work and continue their development systematically. Clear objectives and a thoughtful strategy lay the cornerstones at HANNING. We strive to further improvement in all business units and extend our lead.



Success is the result of a consistent strategy

Innovation and flexibility are the results of a consistent strategy at HANNING ELEKTRO-WERKE. This process focuses on bringing all activities in line with your requirements and inspiring you with customized solutions.

### Innovative, creative, reliable

We are constantly striving to improve by looking for new, creative solutions for your requirements and implementing these solutions. In order for this to happen, our roadmap for the future defines the most important stations of our continuous improvement and provides us with guidance.

### Strategy becomes objective

The strategy of HANNING ELEKTRO-WERKE is set out in a so-called 5-point plan. This plan defines the objectives for all business units and describes how optimization plans and recommendations for making improvements can be introduced and implemented in specific management projects. As a customer, you benefit from our results.



1972  
Development of a special drive for hot/cold air recirculation units



1974  
HANNING develops as first vendor drain pumps with encapsulated coils

1977  
Company changes its name to HANNING ELEKTRO-WERKE GmbH & Co. KG



1980  
Production at Oerlinghausen location is expanded considerably. A logistics hall with a high rack storage area is added

## WHAT COUNTS ARE YOUR REQUIREMENTS

As a supplier of drive components and systems, we see ourselves primarily as a technology and development partner. We incorporate our engineering know-how in your projects from the very beginning while listening carefully to you and implementing customized solutions for your requirements.

All products of HANNING ELEKTRO-WERKE are known for reliability, maximum quality and efficiency. After all, we match the specifications precisely to your application.

### Ready for your requirements

The key to solutions tailored to suit your demands is possessing extensive industry know-how and the technical expertise of our three business units. Each individual unit offers an extensive vertical integration in production. That ensures sufficient scope for individual implementations regardless of whether housings, shafts, flanges or end shields: Every detail represents added value for our customers. Moreover, we support you in the approval of new solutions and at your request take care of international licensing such as UL, CSA or CCC.

### From development to marketability

Time is money, especially in the development process. We guarantee efficiency by way of precise planning and closely integrated project phases. First, we analyze your requirements. Based on the results, our engineers develop a custom-fit technology concept.

Especially efficient: Even during the product development phase, we plan the production processes in parallel. That shortens the time to readiness for serial production and speeds up your innovation cycles.

### From analysis to implementation with system

Analysis of your drive requirements

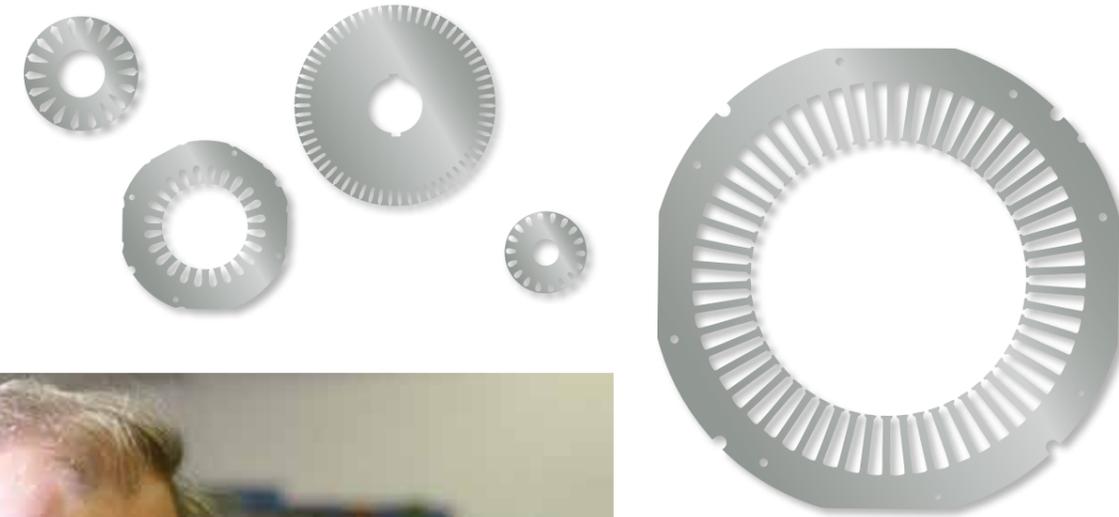
Concept development

Simultaneous engineering

Production and lab testing of prototypes

Pilot production and field testing

Start of serial production



Be it in production or in development: Your requirements provide the tempo

1983

1984  
An oil-free compressor is added to the product portfolio



1985  
Electronics open up new control possibilities. In order to utilize it, the company establishes its own electronic development

1986

1987

1988

1989

One of the first frequency inverter is available



1990

1991



1992  
Following Germany's reunification, HANNING ELEKRO-WERKE opens the Eggesin location in Mecklenburg-West Pomerania

1993

1994

The synchronous drain pump is released



## PLANNED INNOVATION

To make sure that good ideas are translated into economically successful drive solutions, we apply a set of tried and tested methods. That way we ensure maximum investment security for all parties involved and help technical innovations secure their place in the market quickly.

### Strategic product planning



When it comes to product planning and production, we leave nothing to chance. That applies both to our innovations and our development projects.

### Five steps to success

Demand, feasibility, expenditure and benefit make up the criteria for the success of new drive solutions. To satisfy these criteria, we apply methods that build on one another and set binding milestones in the innovation process.

Every product idea is first analyzed and evaluated with regard to its potential. If the result is positive, the specification phase begins with an exact definition of the project. In the third step, we prepare a business plan. After that, we start the development work and conduct extensive tests, which lead to an implementation plan. Step five is the production followed by the market launch.

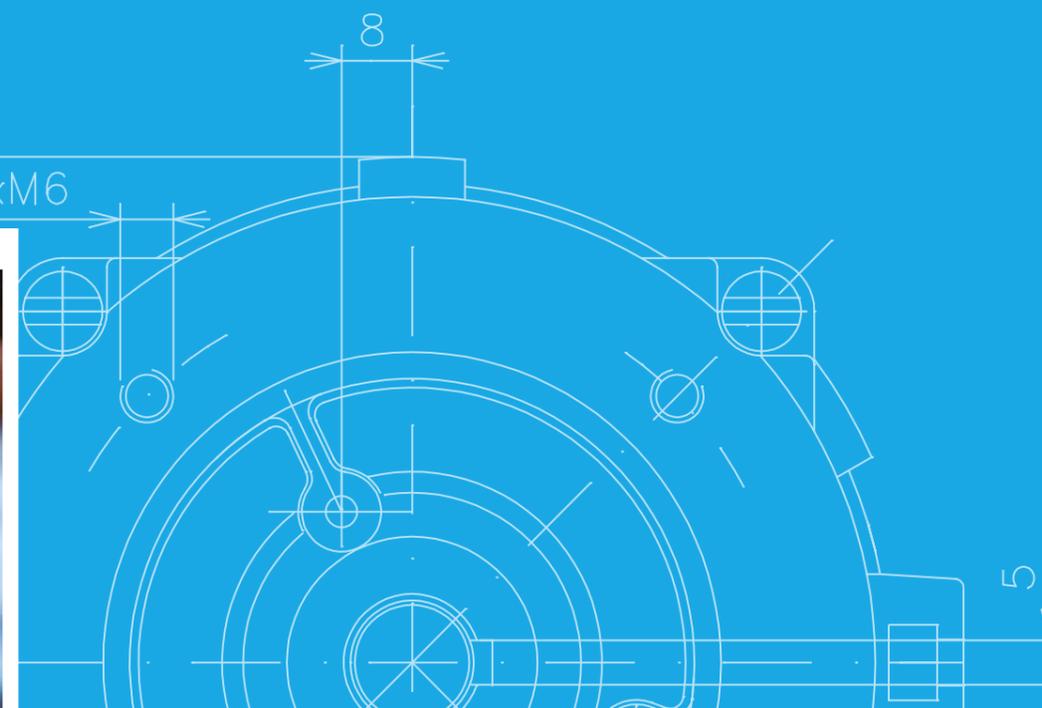
### Efficiency with intermeshed processes

Production is organized just as systematically as the product planning. The outcome are processes that allow for continuous improvement and guarantee maximum efficiency. Every production location has its core competence and works closely together

with the other locations. This results in a global competence network with enormous innovation potential. The employees work hand in hand on a workpiece without any standby and lead times.

### Thoroughly optimized for quality

We are continually developing high quality standards and utilize natural resources in a responsible manner. This is safeguarded by a process-oriented quality management system, which monitors the production processes at all locations and ensures worldwide compliance with the quality and environmental guidelines in accordance with ISO 9001 and ISO 14001.



1995	1996 Foundation of HANNING (HONG KONG) with a production site in Shenzhen, P.R. China	1997	1998 In the 1990s HANNING becomes the world's leading provider of linear actuators for dentist's chairs	1999 	2000 New development: Drain pumps that are resistant to foreign objects	2001 New system for commercial dishwashers 	2002	2003	2004 Foundation of UAB HANNING VILNIUS, Lithuania 	2005 Lifting columns designed for use in medical technology are new to HANNING's portfolio 	2006
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## A CAPABLE TEAM FOR YOUR GOALS

We owe our capabilities and innovative strength to our highly motivated staff, which comprises more than 1,500 employees worldwide. They are responsible for realizing your objectives together with you on a daily basis through their competence and dedication.

Our employees represent our most important asset. This philosophy is more than just a set phrase for HANNING ELEKTRO-WERKE. It is a guiding principle for our human resources strategy and has been practiced at HANNING for more than seven decades. We have a great deal of faith in the people that make up our company and thus offer them first-class, flexible work conditions and a variety of career opportunities worldwide.

### It's the mix that matters

A strong team requires a wide variety of talents and skills. That's why we make sure that employees with many years of experience work closely together with our junior staff. They learn from one another and help the company improve as a whole.

### We help shape tomorrow's professionals

HANNING ELEKTRO-WERKE invests in tomorrow's professionals and managers. For instance, in collaboration HANNING and local universities offer a complete Bachelor degree program that is anchored in practice at HANNING. Moreover our German locations are some of the largest operations that provide in-house vocational training in their respective regions. We offer excellent professional training conditions and interesting career prospects for young people.



Eggesin Plant



Serving you: Employees of HANNING ELEKTROWERKE

Oerlinghausen Plant

2007	2008 Company founds HANNING MOTORS INDIA PVT. LTD. in Vadodara, India	2009 Development of a variable-speed and low-noise drain pump	2010 The hamotic varicon compact synchronous drive with integrated power control electronics and control units is unveiled	2011 The hamotic varicon compact synchronous drive with integrated power control electronics and control units is unveiled	2012 The haflowtic compact synchronous circulation pump CPO45 with Aluminium winding	2013 The haflowtic varicon BLDC circulating pump CPE16 is released removable electronics celebrates debut	2014	2015 New in the portfolio: the hamatic cap linear actuators with 24 V DC brush motors	2016	2017 Foundation of HANNING MOTORS ROMANIA SRL, Oradea, Romania	2018	2019	2020 hamotic varicon Synchron-Kompakt-antrieb 2.2 kW mit abnehmbarer Elektronik feiert Premiere	2021 Further development of our activities in India, HANNING MOTORS INDIA, Transfer of production from Shenzhen, P.R. China to India	2022 Further expansion of HANNING MOTORS ROMANIA SRL. Production transferred from Vilnius, Lithuania, to Romania	While the future comes on its own terms, we are responsible for progress
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## WITH DRIVE INTO THE FUTURE

The world of drive systems is experiencing dynamic development. Performance, torque and size can be adapted to applications nowadays with ever-improving precision and energy efficiency. As one of the world's leading manufacturers, HANNING ELEKTRO-WERKE plays a major role in influencing this trend.

### “Can't” is not in our vocabulary!

Our motto: We either have the best possible solution for your requirements in our portfolio or will develop an individual solution for you. This mission statement has come to represent our customer-oriented approach. By doing so, we strengthen your position in the market and provide together with you new momentum for growth and economic success – today, tomorrow and in the future.



## THE RIGHT SOLUTION FOR YOUR APPLICATION

Thanks to customized solutions from our five, highly specialized product segments

### haflowtic pumping

This product segment includes capable circulating and drain pumps that are designed for industry and medical technology applications.

### hamatic moving

The linear actuators of this product segment ensure movement along a precisely defined path at a controlled speed and with high precision for years. That's why they are in high demand in the medical technology, mechanical engineering, furniture and textile industries.

### hamotic driving

Single and three phase AC motors as well as their torque, efficiency, form and geometry are tailored to your specific requirements – especially for materials handling and medical technology as well as vacuum pumps and gearbox applications.

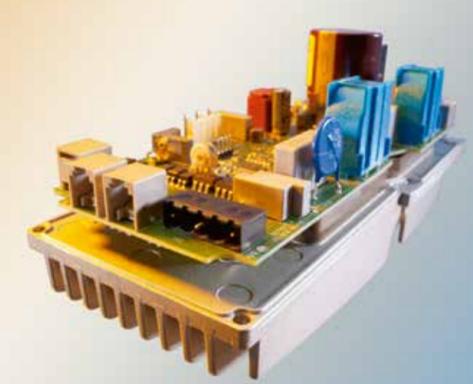
### hatronic controlling

This product segment offers innovative drive control systems which ensure that motors and frequency inverters interact seamlessly in diverse applications.

### haventic ventilating

Our fan and blower motors handle even the most challenging and difficult ventilation applications. After all, we tailor all fan/blower components to suit your requirements.

For more information, visit [www.hanning-hew.com](http://www.hanning-hew.com) or consult our product brochures.



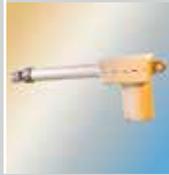
2013

The haflowtic varicon BLDC circulating pump CPE16 is released removable electronics celebrates debut



2014

2016



2015

New in the portfolio: the hamatic cap linear actuators with 24 V DC brush motors

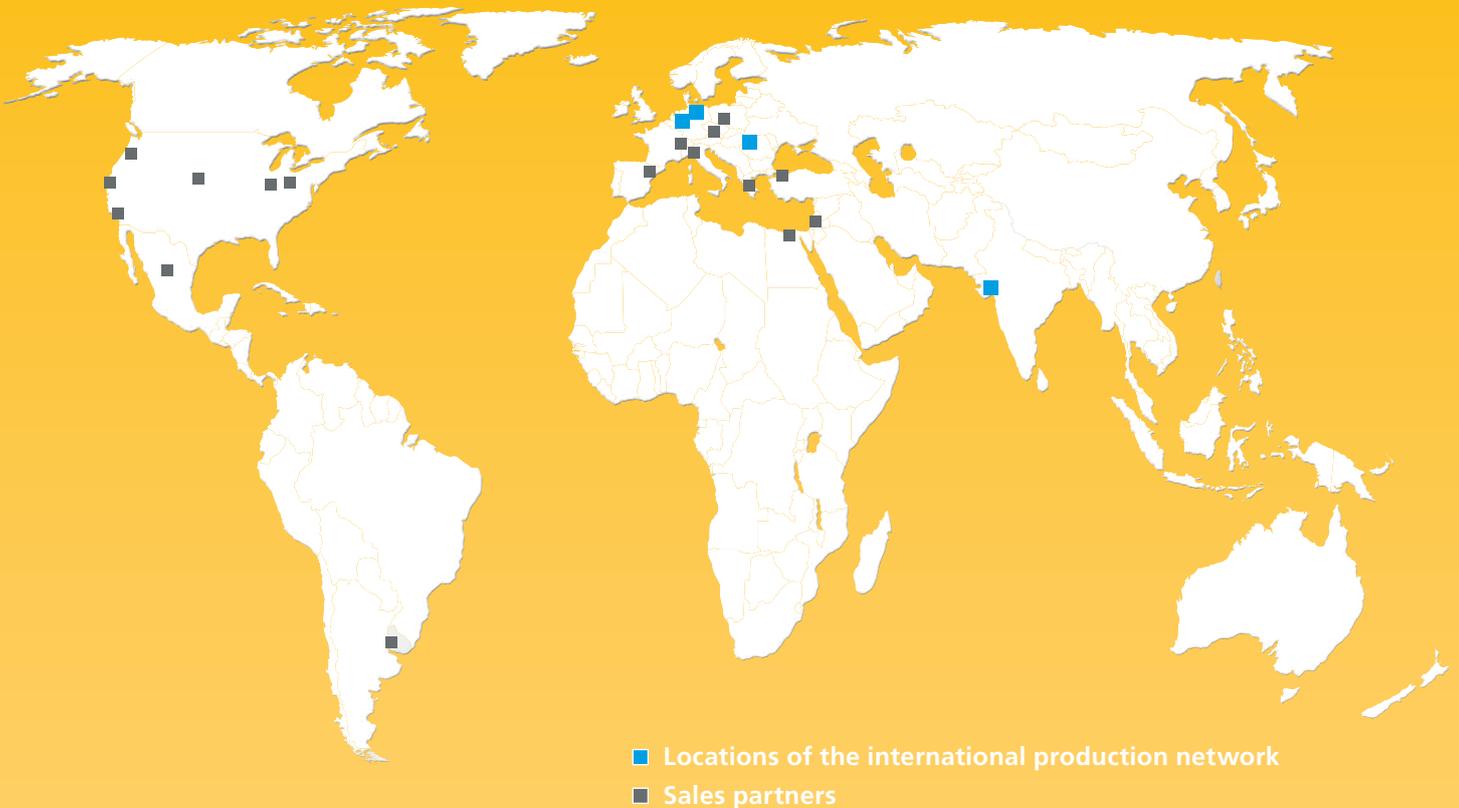
2017

Foundation of HANNING MOTORS ROMANIA SRL, Oradea, Romania



2018

**WE ARE HERE FOR YOU ALL OVER THE WORLD!**



With our products we are active in many sectors and are here for you all over the world. With the HANNING production network, we ensure the necessary accessibility and close proximity around the globe. In addition to that, we have worldwide qualified sales partners.



# HANNING

moving ■■■ ideas

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