ATEK
DRIVE SOLUTIONS
BRAKES·GEARS·MOTORS

POWER BECOMES MOTION

Solutions for a complete drive train with brakes, gearboxes and motors



Status as of 06/2026



EFFICIENT. VERSATILE. COMPREHENSIVE.

Together with **ATEK Drive Solutions GmbH,** we are shaping the transformation from component manufacturer to solution provider for the entire drive train. Our path to the future is built on growth and the continuous advancement of our technological expertise. For this purpose and to form **ATEK Drive Solutions GmbH,** ATEK Antriebstechnik Willi Glapiak GmbH and Deutsche van Rietschoten & Houwens GmbH merged, combining decades of experience in the fields of gearboxes and brakes at the Rellingen site, which has been supplemented by expertise in servomotor development.

Our goals are ambitious: we are integrating engine assembly at our modernized and expanded site in Rellingen, and by 2030, we aim to double both our revenue and the number of employees compared to the respective numbers in 2022.

Here, just outside Hamburg, we work with a dedicated team that values, digital tools, flat hierarchies, short communication channels, and high standards and quality. We are passionate about technology, encouraging of teamwork, and committed to developing tailored solutions for our customers and partners.

We have ideal conditions for the success of our transformation: For decades, ATEK and Rietschoten have successfully occupied a market niche for gearboxes and industrial brakes and developed great growth potential, which is now being unlocked by **ATEK Drive Solutions GmbH.**

ATEK
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AT A GLANCE

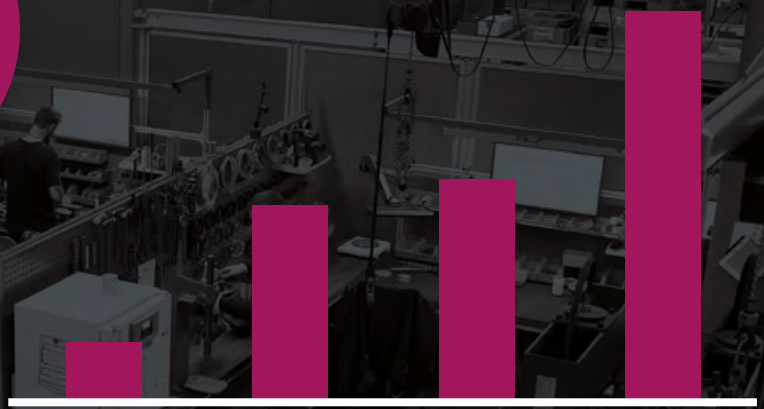
> 60
The number of countries we supply with products

45
The number of years our longest-operating gearboxes has

450,000
The number of individual items we have in stock

16,000,000
The number of product variations available

100
The number of gearboxes we produce per day



2010	2022	2024	2030
22 employees	75 employees	85 employees	125 employees

1939
Foundation of the Willi Glapiak turning shop, which later became ATEK

1961
Foundation of Deutsche van Rietschoten & Houwens GmbH

1983
Merger of Willi Glapiak GmbH and the ATEK engineering office to form ATEK Antriebstechnik Willi Glapiak GmbH; relocation of the registered office to Rellingen

2011
Deutsche van Rietschoten & Houwens GmbH becomes part of the Obermark Group

2019
ATEK Antriebstechnik Willi Glapiak GmbH becomes part of the Obermark Group

2022
The production site of Deutsche van Rietschoten GmbH is relocated to Rellingen

2024
Deutsche van Rietschoten & Houwens GmbH is merged with ATEK Antriebstechnik Willi Glapiak GmbH to form **ATEK Drive Solutions GmbH**

2025
Inauguration of the expanded site with 50 additional jobs and 20 new assembly stations

2030
Target: Doubling of sales compared to 2022

ALL-ROUND SERVICE FOR MAXIMUM VALUE RETENTION

Comprehensive service is available throughout the entire product lifecycle – from spare parts supply to professional refitting.

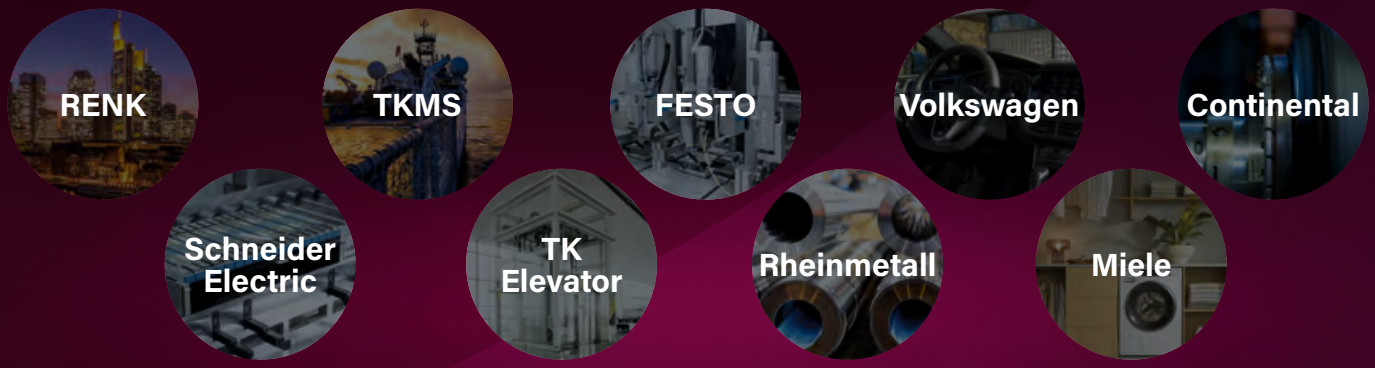
Our services at a glance:

- **Spare parts supply**
  Fast delivery ensured by serial number traceability – even for older models
- **Refit & modernisation**
  Professional refitting of older drive systems, comprehensive application consulting, and drive design
- **Product lifecycle management**
  Early involvement in innovation processes and replacement strategies to ensure you always remain at the cutting edge of technology
- **Repair and inspection service**
  Fast repairs, urgent repairs, service reports, individual training, cost-effective disposal, and a collection and delivery service

Your strong partner for drive solutions:

- **Short response times**
  Personal support enables rapid responses to enquiries, quotations, and orders
- **Everything from a single source**
  Having a single point of contact for consulting, delivery, and service provides advantages, with no additional suppliers and clearly defined warranty
- **Customized solutions**
  In-house prototype construction and modern testing facilities to ensur innovative, technically advanced results
- **Express delivery times**
  Standard products typically delivered within two weeks
- **International availability**
  Fast support is ensured worldwide by a global dealer network

WE ARE PROUD OF OUR CUSTOMERS



ATEK DRIVE SOLUTIONS

RELIABLE SOLUTIONS FOR EVERY INDUSTRY

Drive technology from **ATEK Drive Solutions** has proven itself millions of times across nearly all industries. Where standard solutions are not sufficient, customized concepts are created—cooperative, targeted, and efficient. The portfolio is broad and continuously evolving. Partnership is offered for:



Brake solutions – safety and robustness for demanding tasks

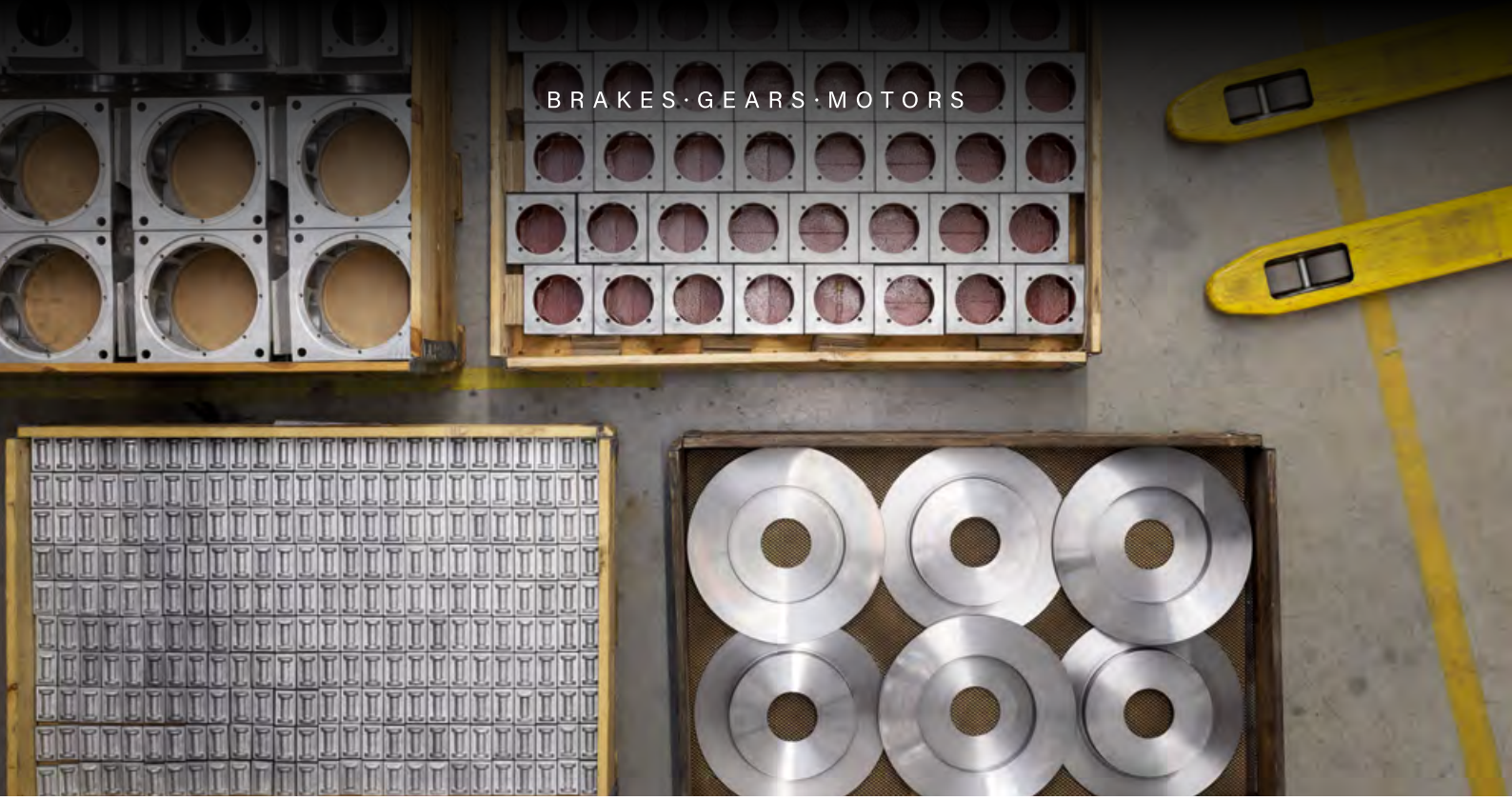
- **Mining**
  Ultra-stable brakes for the toughest conditions – day and night
- **Cranes & hoists**
  Compact high-end systems with variable designs
- **Cable & wire machines**
  Customised, compact brakes for every machine size
- **Amusement parks**
  Maximum safety and reliability for rides
- **Shipbuilding**
  Completely assembled, individually tailored brake systems
- **Stainless steel**
  Brakes for extreme temperature and force loads
- **Offshore & renewable energies**
  Saltwater-resistant, explosion-proof, high-performance brakes
- **Power plants**
  Powerful solutions for energy control and safety

Gearbox solutions – precision, cost-effectiveness and reliability for every application

- **Machine tools**
  High-precision, high-performance gearboxes for demanding machining processes
- **Woodworking**
  Robust, overload-proof gearboxes for flexible, economical production
- **Automation & Robotics**
  Customisable gearboxes with maximum process reliability, a long service life, and efficiency
- **Food & medicine**
  Hygienic, corrosion-resistant and energy-efficient solutions – with food-grade lubricants (NSF H1) on request
- **Logistics & packaging**
  Durable, dynamic systems for demanding, fast, and precise conveyor and packaging systems

Motor solutions – dynamism, precision and efficiency for a wide range of applications

- **Automation & robotics**
  High-precision servomotors for fast, accurate motion sequences in automated production lines
- **Machine tools**
  Powerful motors for precise control and reliable machine processes
- **Medical & laboratory technology**
  Reliable servo drives for the highest operational safety and hygiene standards
- **Packaging & logistics**
  Energy-efficient servomotors for dynamic, low-maintenance conveyor and packaging systems
- **Renewable energies**
  Robust drives to ensure efficient control in wind and solar technology



THREE COMPONENTS – ONE SOLUTION

With brakes, gearboxes, and motors, we convert power into motion.

With extensive expertise in gearboxes, brakes, and servomotors, **ATEK Drive Solutions** provides **customized solutions for complete drive systems with German quality**.

Utilizing **comprehensive know-how, state-of-the-art software, and high-quality, sustainable materials, the highest technical standards and precise implementatio**n of individual requirements are ensured. The team remains up to date with the latest technology, enabling optimal response to specific customer needs.

A key advantage is the **short delivery time.** Optimized processes, efficient warehousing, and **forward-looking production planning ensure fast and reliable availability**—so projects can be completed on schedule and waiting times are kept to a minimum.

ATEK
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BRAKE TECHNOLOGY

Innovative, sustainable and safe brakes and brake systems

A modular system comprising various brake types—including hydraulic, pneumatic, manual, and electric versions—is available for a wide range of applications.

Extensive expertise based on decades of experience at Deutsche van Rietschoten & Houwens GmbH in heavy industry, shipbuilding, mining, steel construction, and the mining sector forms the foundation for customized solutions.

All brakes and braking systems are assembled at the site in Germany. Upon request, braking systems can be delivered in accordance with internationally recognized standards and certifications.



GEAR TECHNOLOGY

Expertise in modular gearboxes

The gearboxes from **ATEK Drive Solutions** combine the expertise of several generations. Customer orientation, short delivery times, and a wide range of solutions are central priorities. The portfolio includes worm gearboxes, planetary gearboxes, bevel gearboxes, miniature gearboxes, servo gearboxes, and special gearboxes.



MOTOR TECHNOLOGY

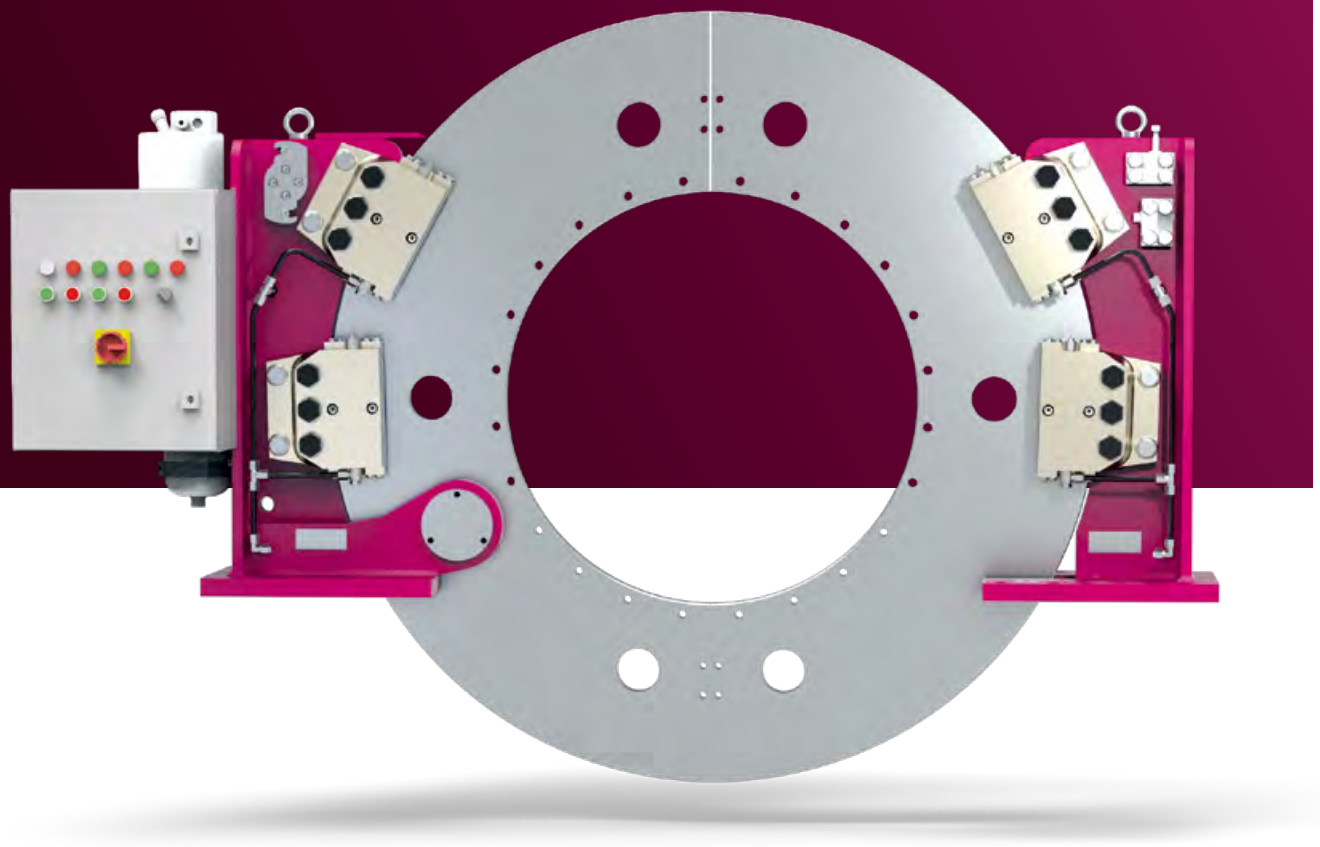
Drive for performance

The development of in-house motors completes the portfolio as a full-range provider for entire drive systems. Electric motors, including controllers, are developed in a wide variety of configurations—some so compact and powerful that direct integration into gearboxes is possible. This approach saves installation space and increases efficiency.

OUR ELEPHANT BRAKES

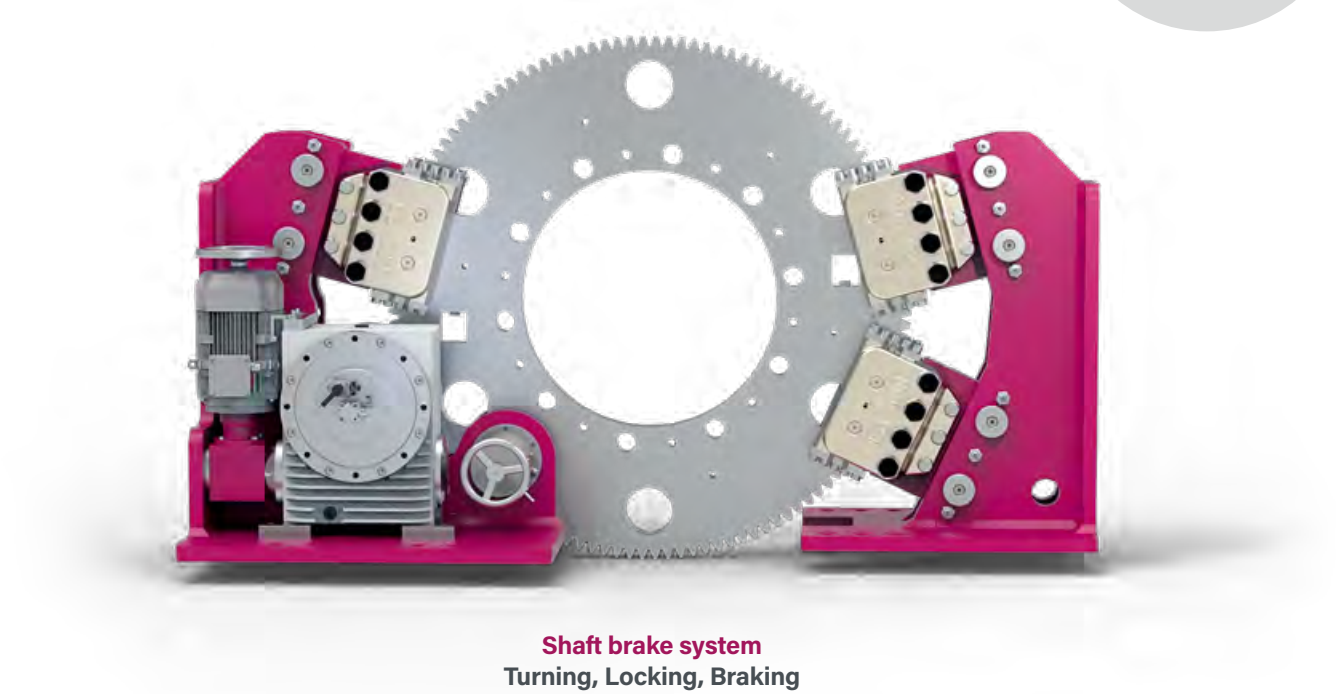
OUR HIGHLIGHT: CUSTOMISED SHAFT BRAKE SYSTEMS

The customized shaft brake systems are optionally equipped with split brake discs and remain fully functional even after flooding with a water column of up to five meters (higher values available on request). The systems are designed for submersion durations of up to 72 hours and continue to operate reliably afterward. They can withstand shock loads of up to 150*g*. The analytical verification of shock resistance as well as complete ILS documentation will be provided for you by **ATEK Drive Solutions.**



ELEPHANT BRAKES

SHAFT BRAKE SYSTEMS



Shaft brake system
Turning, Locking, Braking

System solutions for customised shaft brake systems on ships, consisting of a turning gear (“turning”), a locking device (“locking”) and a shaft brake (“braking”), an actuating unit (e.g. hydraulic) and a control system. Combine according to your requirements and preferences.



Braking

- Quick shutdown of the shaft
- Support for the reversing process
- Improved manoeuvrability
- Support for braking the shaft
- Prevention of flow-induced rotation during non-operation



Turning

- Low travel speed turning, e.g. in port, even with the transmission disengaged
- Controlled shaft rotation during installation, repair and maintenance



Locking

- Shaft blocking during maintenance and servicing work
- Flow-induced rotation prevention when not in operation

ELEPHANT BRAKES

BRAKING – ELEPHANT BRAKES – BRAKING SYSTEMS



Brake system
4 × Type EB500

Hydraulically operated closing, spring operated opening

Braking force*:
> 400 kN



Brake system
4 × Type EB600

Hydraulically operated closing, spring operated opening

Braking force*:
> 750 kN



Brake system
4 × Type EB700

Hydraulically operated closing, spring operated opening

Braking force*:
> 1,250 kN

TURNING – CRUISING GEAR

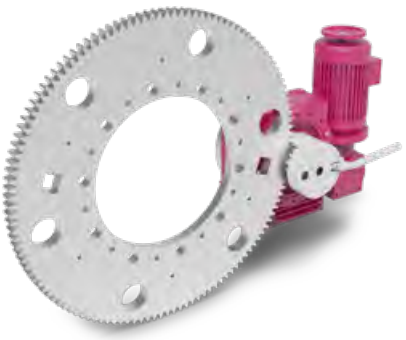


Turning gear
Type S200

Size 1 (BG1)

Breakaway torque: 20 kNm

Continuous torque: 15 kNm



Turning gear
Type S250

Size 2 (BG2)

Breakaway torque: 80 kNm

Continuous torque: 45 kNm



Turning gear
Type S350

Size 3 (BG3)

Breakaway torque: 170 kNm

Continuous torque: 80 kNm

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LOCKING – LOCKING DEVICE



Locking device

Locking bolt diameter:
up to 200 mm

Locking torque:
up to 3,500 kNm

Other sizes available on request

CONTROL SYSTEM AND POWER UNIT



Control System

The entire control of the braking system is handled by a freely configurable control system. This is, among other things:

Flood-proof

ATEX-compliant

CSA/UL-compliant

With analogue or digital design



Power Unit

Electrified/electro-hydraulic

Low maintenance

Powerful

Noise level:
<62 dB(A) possible

* Dependent on the coefficient of friction of the friction lining



ELEPHANT BRAKES – LEVER BRAKES



Lever brake
Type RH

Manually operated closing,
spring operated opening

Braking force*:
up to 29.3 kN



Lever brake
Type RH

Pneumatically operated closing,
spring operated opening

Braking force*:
up to 26.8 kN



Lever brake
Type RH

Hydraulically operated closing,
spring operated opening

Braking force*:
up to 35.3 kN



Lever brake
Type EMS

Spring operated closing,
electrically operated opening

Braking force*:
600 N – 2,700 N

ELEPHANT BRAKES MODULAR SYSTEM

- A wide range of combinations is possible
- Same actuation can be used for multiple brake calipers
- More flexibility and customisation options
- Brake forces up to 35,300 N can be achieved

TYPE OF PLIERS	100	101	102	103	105	106
RH 050 & 051	■	■	■	■		
RH 100		■	■	■	■	
RH 125	■	■	■	■		
RH 200			■	■	■	
RH 215–245			■	■	■	
RH 250			■	■	■	
RH 300				■	■	■
RH 350 & 360						

ATEK DRIVE SOLUTIONS

ELEPHANT BRAKES

COMING SOON



Lever brake
Type RH

Electrically operated closing,
spring operated opening

Screw-on dimensions identical to
known RH lever brakes

Planned braking force*:
up to 40 kN



Lever brake
Type RH

Spring loaded closing,
pneumatically operated opening

Braking force*:
425 N – 28,800 N



Lever brake
Type RH

Spring loaded closing,
hydraulically operated opening

Braking force*:
1.2 kN – 30 kN

OPERATION

107	108	135	204	205	250	251	402	405	406	412	435	550	552	560	563
							■								
					■			■	■			■		■	
							■	■							
■	■				■	■		■	■	■		■	■	■	■
■	■				■	■		■	■	■		■	■	■	■
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■	■				■	■		■	■	■		■	■	■	■
		■	■	■							■				

* Dependent on the coefficient of friction of the friction lining

ELEPHANT BRAKES – FIXED CALIPER BRAKES



Fixed caliper brake
Type EB025

Pneumatically operated closing, elastomer operated opening

Braking force*:
up to 150 N



Fixed caliper brake
Type EB030

Pneumatically operated closing, elastomer operated opening

Braking force*:
up to 210 N



Fixed caliper brake
Type EB108

Pneumatic or hydraulic actuated closing possible, spring actuated opening

Braking force*:
up to 1.5 kN



Fixed caliper brake
Type EB255

Hydraulically operated closing, spring operated opening

Braking force*:
up to 15.6 kN



Fixed caliper brake
Type EB285AR

Hydraulically operated closing, spring operated opening

Braking force*:
up to 34 kN



Fixed caliper brake
Type EB285

Hydraulically operated closing, spring operated opening

Braking force*:
up to 34 kN

ELEPHANT BRAKES



Fixed caliper brake
Type EB115

Pneumatic or hydraulic actuated closing possible, spring actuated opening

Braking force*:
up to 1.5 kN



Fixed caliper brake
Type EB240

Hydraulically operated closing, spring operated opening

Braking force*:
up to 7.5 kN



Fixed caliper brake
Type EB255AR

Hydraulically operated closing, spring operated opening

Braking force*:
up to 15.6 kN



Fixed caliper brake
Type EB470

Hydraulically operated closing, spring operated opening

Material:
Aluminium

Braking force*:
up to 69 kN



Fixed caliper brake
Type EB500

Hydraulically operated closing, spring operated opening

Material:
Grey cast iron with increased corrosion protection (nickel-plated)

Braking force*:
up to 115 kN



Fixed caliper brake
Type EB600

Hydraulically operated closing, spring operated opening

Material:
Grey cast iron with increased corrosion protection (nickel-plated)

Braking force*:
up to 230 kN

* Dependent on the coefficient of friction of the friction lining

ELEPHANT BRAKES – FIXED CALIPER BRAKES



Fixed caliper brake
Type EBS001

Spring loaded closing,
hydraulically operated opening

Braking force*:
15 kN – 30 kN



Fixed caliper brake
Type EBS002

Spring loaded closing,
hydraulically operated opening

Braking force*:
29 kN – 50 kN



Fixed caliper brake
Type EBS004

Spring loaded closing,
hydraulically operated opening

Braking force*:
49 kN – 104 kN



Fixed caliper brake
Type EBS006

Spring loaded closing,
hydraulically operated opening

Braking force*:
85 kN – 210 kN



Fixed caliper brake
Type EBS008

Spring loaded closing,
hydraulically operated opening

Braking force*:
214 kN – 420 kN

ELEPHANT BRAKES

ELEPHANT BRAKES – FLOATING CALIPER BRAKES



Floating caliper brake
Type EBS001FL

Spring loaded closing,
hydraulically operated opening

Braking force*:
15 kN – 30 kN



Floating caliper brake
Type EBS002FL

Spring loaded closing,
hydraulically operated opening

Braking force*:
29 kN – 47 kN



Floating caliper brake
Type EBS004FL

Spring loaded closing,
hydraulically operated opening

Braking force*:
49 kN – 104 kN



Floating caliper brake
Type EBS006FL

Spring loaded closing,
hydraulically operated opening

Braking force*:
80 kN – 180 kN



Floating caliper brake
Type EBS008FL

Spring loaded closing,
hydraulically operated opening

Braking force*:
180 kN – 370 kN



Accessories
for all types

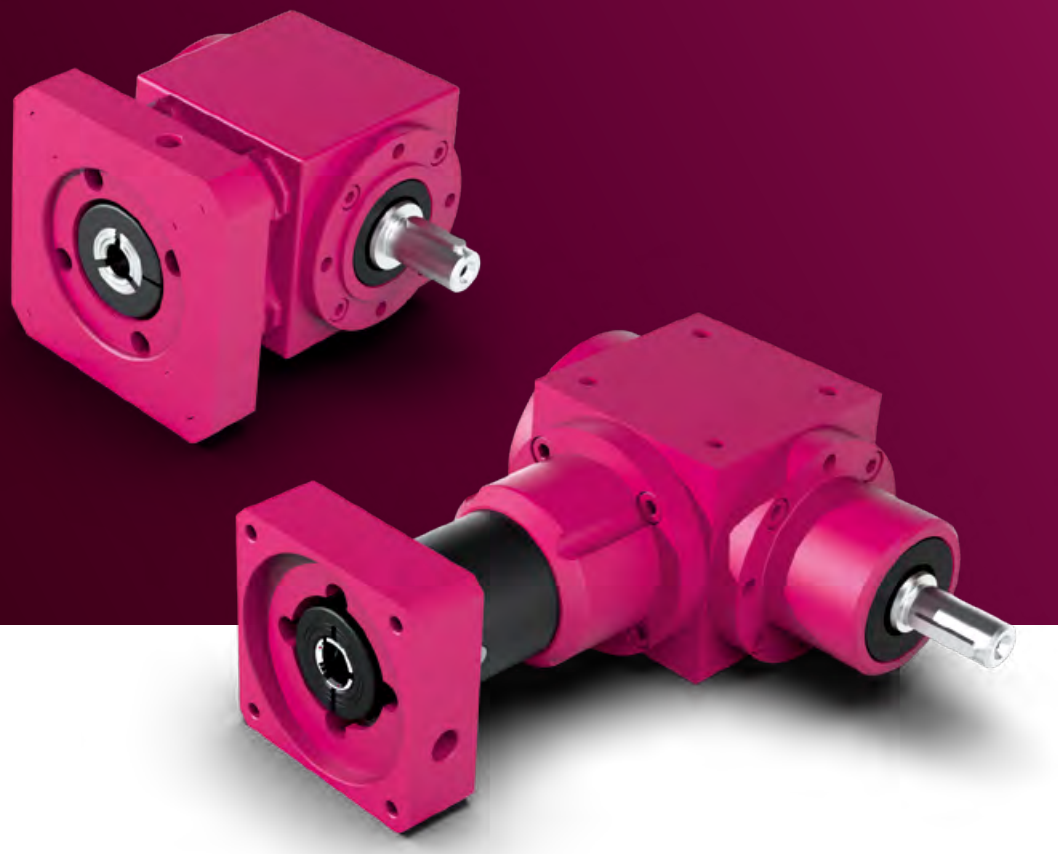
Brake discs, brake pads,
mounting stands, mounting plates,
hydraulic units, controls, clutches,
hubs, and much more

* Dependent on the coefficient of friction of the friction lining

OUR GEARBOXES

OUR HIGHLIGHT: THE VCE SERIES

The VCE series combines bevel gear and planetary gearboxes for innovative servo applications. The single-stage version offers up to 20% shorter design, optimised weight and performance, as well as high precision, torsional rigidity and low torsional backlash. The multi-stage version impresses with its modular design, gear ratios up to 400:1, high rigidity, and a choice of four sizes and 19 gear ratios.



BEVEL GEARBOXES



Bevel gearbox
Type V, VS

Transmissions:
i = 1:1 to 6:1

Maximum output torque:
5,400 Nm

Backlash:
< 6 – 30 arcmin



Miniature bevel gearbox
Type L

Material:
Aluminium

Transmissions:
i = 1:1 to 4:1

Maximum output torque:
16 Nm

Backlash:
< 10 – 30 arcmin



Stainless steel gearbox in hygienic design
Type HDV, HDVS

Material:
Stainless steel

Transmissions:
i = 1:1 to 6:1

Maximum output torque:
430 Nm

Backlash:
< 6 – 30 arcmin

PLANETARY GEAROXES



Planetary gearbox
Type PCE

Transmissions:
i = 3:1 to 100:1

Maximum output torque:
135 Nm

Backlash:
< 10 – 22 arcmin



Angular planetary gearbox
Type BPCE

Transmissions:
i = 3:1 to 100:1

Maximum output torque:
216 Nm

Backlash:
< 15 – 25 arcmin

WORM GEAROX



Worm gearbox
Type S

Transmissions:
i = 5:1 to 83:1

Maximum output torque:
13,720 Nm

Backlash:
< 3 arcmin



Double worm gearbox
Type SD

Transmissions:
i = 25:1 to 6,889:1

Maximum output torque:
10,300 Nm

Backlash:
On request

HYPOID GEAROX



Hypoid gearbox
Type H

Transmissions:
i = 3:1 to 15:1

Maximum output torque:
1,450 Nm

Backlash:
< 3 arcmin

GEARBOXES OPTIMISED FOR IEC STANDARD MOTOR MOUNTING



Bevel gearbox
with IEC motor flange
Type VL

Transmissions:
i = 1:1 to 6:1

Maximum output torque:
1,750 Nm

Backlash:
< 4 arcmin



Worm gearbox
with IEC motor flange
Type SL

Transmissions:
i = 5:1 to 83:1

Maximum output torque:
13,700 Nm

Backlash:
< 3 arcmin



Hygienic design bevel gearbox
with stainless steel motor flange
Type HDVL

Material:
Stainless steel

Transmissions:
i = 1:1 to 6:1

Maximum output torque:
220 Nm

Backlash:
< 4 arcmin

SERVO GEARBOXES



Bevel gearbox with servomotor flange
Type VC

Transmissions:
i = 1:1 to 6:1

Maximum output torque:
472 Nm

Backlash:
< 6 arcmin

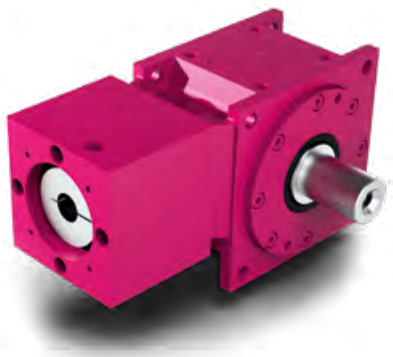


High-ratio servo gearbox
Type VCE

Transmissions:
i = 8:1 to 400:1 (multi stage)
i = 1:1 to 6:1 (single stage)

Maximum output torque:
280 Nm

Backlash:
< 6 – 30 arcmin



Servo gearbox
Type HC

Transmissions:
i = 3:1 to 15:1

Maximum output torque:
1,450 Nm

Backlash:
< 5 arcmin



Servo gearbox
Type LC

Transmissions:
i = 1:1 to 4:1

Maximum output torque:
4 Nm

Backlash:
< 10 arcmin



Servo gearbox
Type SC

Transmissions:
i = 5:1 to 83:1

Maximum output torque:
1,580 Nm

Backlash:
< 3 arcmin



Wheel sets
Bevel gear sets

Transmissions:
i = 1:1 to 6:1

More on request

Worm gear sets

9 sizes of centre distance:
A = 040 to 250 mm

OUR MOTORS

OUR HIGHLIGHT: PCEM – PLANETARY GEARBOX WITH MOTOR

The gear motors combine a gearbox with a powerful motor and are particularly compact and low-maintenance. They offer high efficiency owing to their optimised design and a wide variety of gear ratios.

The PCEM motor group covers outputs from 0.15 to 4 Nm and is available in sizes 40, 60, and 80 mm. The first step is a particularly compact servomotor with a 40 mm housing diameter, 0.75 Nm, 24 VDC, 8 A, and 150 W, which (with its maximum gear ratio of 100:1) offers optimum flexibility, especially for the smallest installation spaces.
The motor gear unit is available with an encoder and a controller.



IEC GEAR MOTORS



Bevel gearbox with IEC standard motor
Type VLM

Bevel gearbox with spiral gearing incl. IEC standard motor

Small, lightweight and space-saving

Transmissions: i = 1:1 to 6:1

Low-backlash design with up to < 6 arcmin



Hygienic design bevel gearbox with IEC standard motor
Type HDVLM

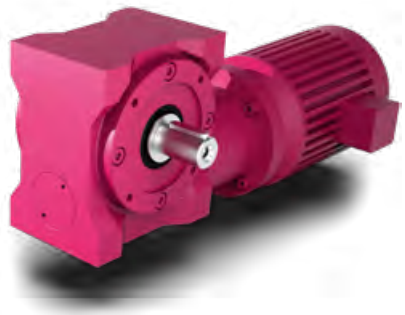
Including motor and gearbox

Gearbox sizes HDVL 065 to HDVL 140

Power range from 0,25 to 2,2 kW

Transmissions: i = 1:1 bis 6:1

Maximum output torque: 430 Nm



Worm gearbox with IEC standard motor
Type SLM

Robust, powerful and low-noise worm gearbox incl. IEC standard motor

Vibration-damping properties

Axial misalignment between input and output shaft

Low-backlash design with up to < 3 arcmin

SERVO GEARBOX MOTORS



Angular planetary gearbox with servomotor
Type BPCEM

Transmissions: i = 3:1 to 100:1

Spiral-toothed bevel gears

Low maintenance

Includes encoder

Optional controller and/or brake



Bevel gearbox with servomotor
Type VCEM

Low holding torque

High efficiency and high power density

Transmissions: i = 1:1 to 400:1

Low-backlash design:
< 6 arcmin (single stage)
< 15 arcmin (multi stage)

Includes encoder

Optional controller and/or brake



Planetary gearbox with servomotor
Type PCEM

High efficiency thanks to optimised, compact design

High gear ratio variety through combination of multiple planetary stages

Transmissions: i = 03:1 to 100:1

Low maintenance

Includes encoder

Optional controller and/or brake

SERVOMOTORS



Servomotor (PMSM)
Type M

Single motor

Low cogging torque

Robust ball bearing system

High efficiency and high power density

Modular system kit

Different performance classes available

Includes encoder

Optional controller and/or brake

ACCESSORIES



Encoder
for all types of motors

Supply voltage 3.3 V and 5 V

Absolute resolution up to 12 bits (4,096 pulses per revolution)

Absolute or incremental output signals according to the industry standard

High accuracy up to ±0.5°

RoHS compliant



Controller
for all types of motors

Compact 4-quadrant controller

CAN interface with DS301 protocol and DS402 device profile

Vector control (FOC) for precise commutation

Integrated digital inputs and outputs

Protective functions: overvoltage, undervoltage, and overtemperature monitoring

ATEK
DRIVE SOLUTIONS
BRAKES · GEARS · MOTORS

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