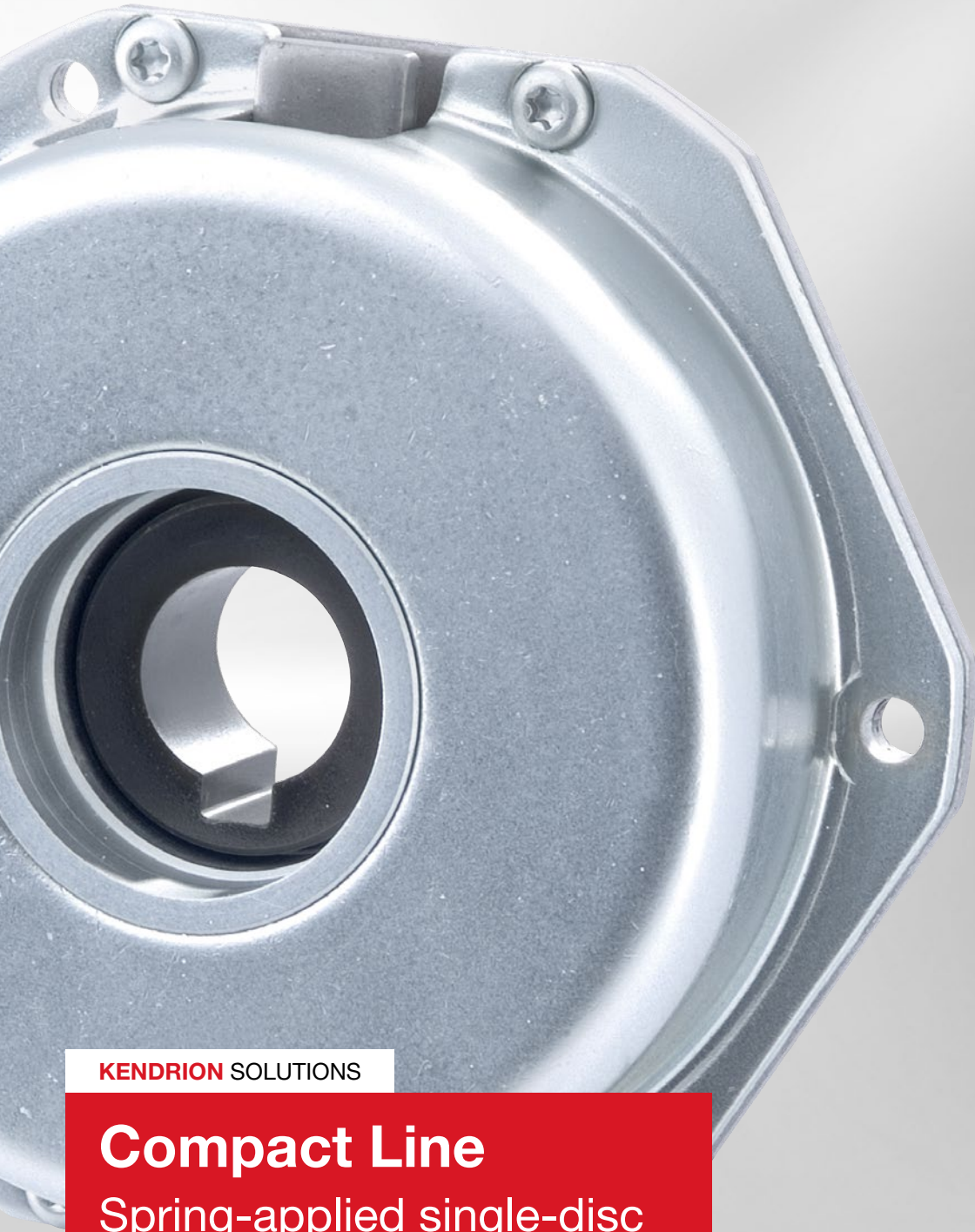


# KENDRION



**KENDRION** SOLUTIONS

## Compact Line

Spring-applied single-disc  
76 13106H00, 76 13113A00

PRECISION. SAFETY. MOTION.

# Kendrion – The brake experts

**Kendrion stands for high-precision electromagnetic actuator systems and components for passenger cars, commercial vehicles and industrial applications. We are the trusted partner of some of the world's market leaders in the automotive and industrial segments when it comes to designing and producing complex components and customised solutions. Rooted in Germany, headquartered in the Netherlands and listed on the Amsterdam stock exchange, our expertise extends across Europe to the Americas and Asia.**

## **Tradition and progress**

More than one hundred years after the company was founded by Wilhelm Binder, Kendrion is ideally equipped for the challenges and tasks of the future. The company has always held a strong position in the market and is expanding its activities all over the world. In the field of electromagnetism, Kendrion stands for highest quality, innovation and precision.

## **Areas of application for brakes and clutches**

The Kendrion business unit Industrial Drive Systems develops and produces electromagnetic brakes and clutches for industrial drive technology. They are used to accelerate, brake, position, hold and secure moving drive components and loads. Areas of applications for the brakes and clutches can be found mainly in robotics and automation, conveyor technology, tooling machines and production engineering, medical technology and elevator technology.

## **Worldwide availability**

The main location is in Villingen-Schwenningen in southern Germany. However, Industrial Drive Systems has further development and production sites as well as a worldwide sales network at its disposal.

We will find the right brake for your application!



**Safety with trusted brakes**



## About the Compact Line

The Compact Line is comprised of spring-applied single-disc brakes delivered as fully assembled units to ensure easy attachment to the motor. Due to their compact design, these brakes are ideally suited to fit into

confined spaces. Electromagnetically operated spring-applied brakes generate the brake torque when voltage is removed.

### Versions

#### 76 13106H00

torque 1 Nm

DC direct current / AC alternating current

#### 76 13113A00

torque 8 Nm

DC direct current

Other torques on request

### Applications

Machining equipment

Building installations

Wheelchairs ...

### Data sheets – General information

The Operating Instructions must be strictly observed during the set-up of the machine (e.g. motor) and during the start-up, operation and maintenance of the brakes. The state-of-the-art brakes have been designed, built and tested in accordance with the requirements of DIN VDE 0580 concerning electromagnetic devices and components. Additional information on technical specifications given in the data sheets is included in the operating instructions.

# Spring-applied single-disc brake

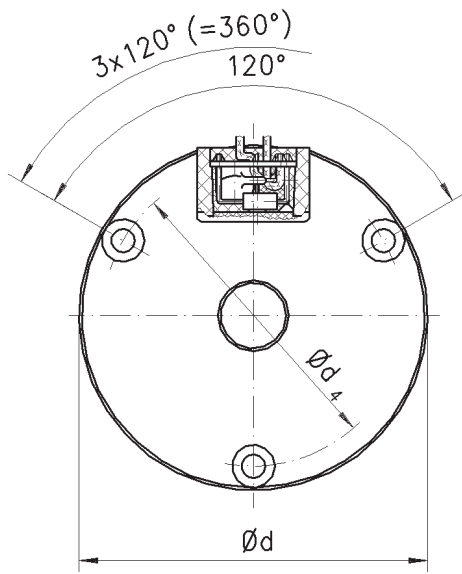
DC or single-phase AC

<b>Versions</b>	76 13106H00 - DC - single-phase AC
<b>Standard rated voltages</b>	76 13106H00 - 24 V DC - 230 V AC, 50 Hz
<b>Protection</b>	IP 00
<b>Thermal class</b>	F
<b>Rated torques</b>	1 Nm
<b>Accessories (options)</b>	mounting screws
<b>Note</b>	Specification subject to change without notice. The "General technical information" and the "Operating instructions" 76 13106H00 / 76 13706H00 must be strictly observed.

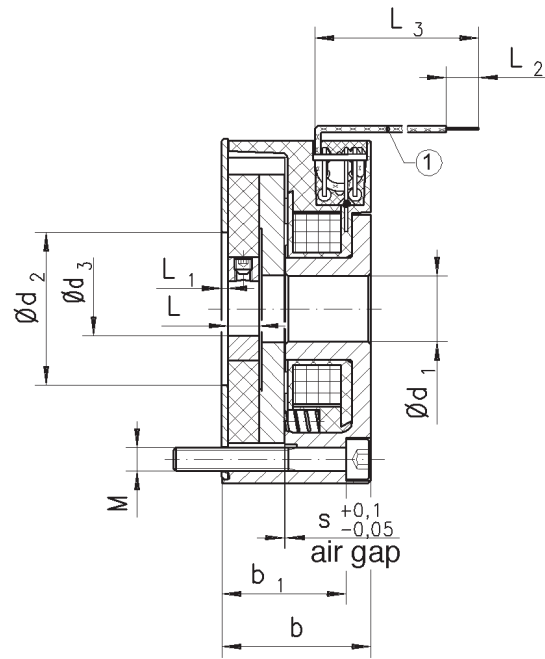


## Technical data

Size	Rated torque	Max. speed	Max. switching power	Max. switching power energy (Z = 1)	Rated power		Response times		Moment of inertia hub and friction disc	Weight
					$P_N$ [W]	$P_S$ [VA]	Coupling time	Disconnection time		
	$M_2$ [Nm]	$n_{max}$ [rpm]	$P_{max}$ [kJ/h]	$W_{max}$ [kJ]			$t_1$ [ms]	$t_2$ [ms]	$J$ [kgcm <sup>2</sup> ]	$m$ [kg]
06	1	8000	50	16	14	24	15	20	0.096	0.42



① flying leads 2x0.25 mm<sup>2</sup>



Size	d	d <sub>1</sub>	d <sub>2</sub>	d <sub>3</sub> (H7)	d <sub>4</sub>	b	b <sub>1</sub>	L	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	s	s <sub>max</sub>	M
06	65	12.2	28.7	6 <sup>1)</sup> / 10 <sup>2)</sup>	56	28	23	5.5	1.35	6	250	0.2	0.5	4

<sup>1)</sup> Min. bore with keyway JS9 as per DIN 6885, sheet 1.

<sup>2)</sup> Max. bore with keyway JS9 as per DIN 6885, sheet 1

Supporting keyway over entire length. Shaft ISO fitting k6. (<sup>1)</sup>, <sup>2)</sup>

# Spring-applied single-disc brake

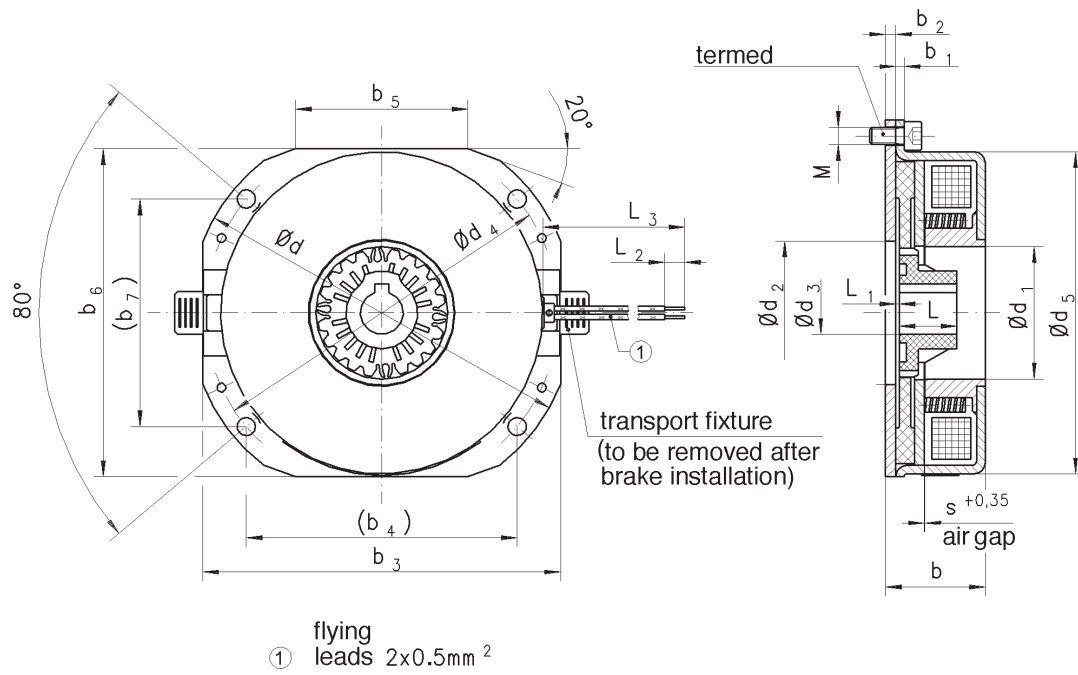
DC

<b>Versions</b>	76 13113A00
<b>Standard rated voltages</b>	24 V, 102 V, 178 V, 205 V DC
<b>Protection</b>	IP 54 (if installed under motor fan hood)
<b>Thermal class</b>	F
<b>Rated torques</b>	8 Nm other torques on request
<b>Accessories (options)</b>	flange, mounting screws
<b>Note</b>	Specification subject to change without notice. The "General technical information" and the "Operating instructions" 76 13113A00 must be strictly observed.



## Technical data

Size	Rated torque $M_2$ [Nm]	Max. speed $n_{max}$ [rpm]	Max. switching power		Max. switching energy (Z = 1) $W_{max}$ [kJ]	Rated power $P_N$ [W]	Response times		Moment of inertia hub and friction disc $J$ [kgcm <sup>2</sup> ]	Weight $m$ [kg]
			built in $P_{max}$ [kJ/h]	attached $P_{max}$ [kJ/h]			Coupling time $t_1$ [ms]	Disconnection time $t_2$ [ms]		
13	8	3000	300	100	32	33	25	30	1.5	1.2



Size	d	d <sub>1</sub>	d <sub>2</sub>	d <sub>3</sub> (h9)	d <sub>4</sub>	d <sub>5</sub>	b	b <sub>1</sub>	b <sub>2</sub>	b <sub>3</sub>
13	134	46	58	12 <sup>1)</sup> / 29 <sup>2)</sup>	123	112	34.5	3	3.5	124.5

Size	b <sub>4</sub>	b <sub>5</sub>	b <sub>6</sub>	b <sub>7</sub>	L	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	s	s <sub>max</sub>	M
13	94.2	60	114	79	20.1	1.2	7	400	0.15	0.9	6

<sup>1)</sup> Min. bore with keyway P9 as per DIN 6885, sheet 1.

<sup>2)</sup> Max. bore with keyway P9 as per DIN 6885, sheet 1.

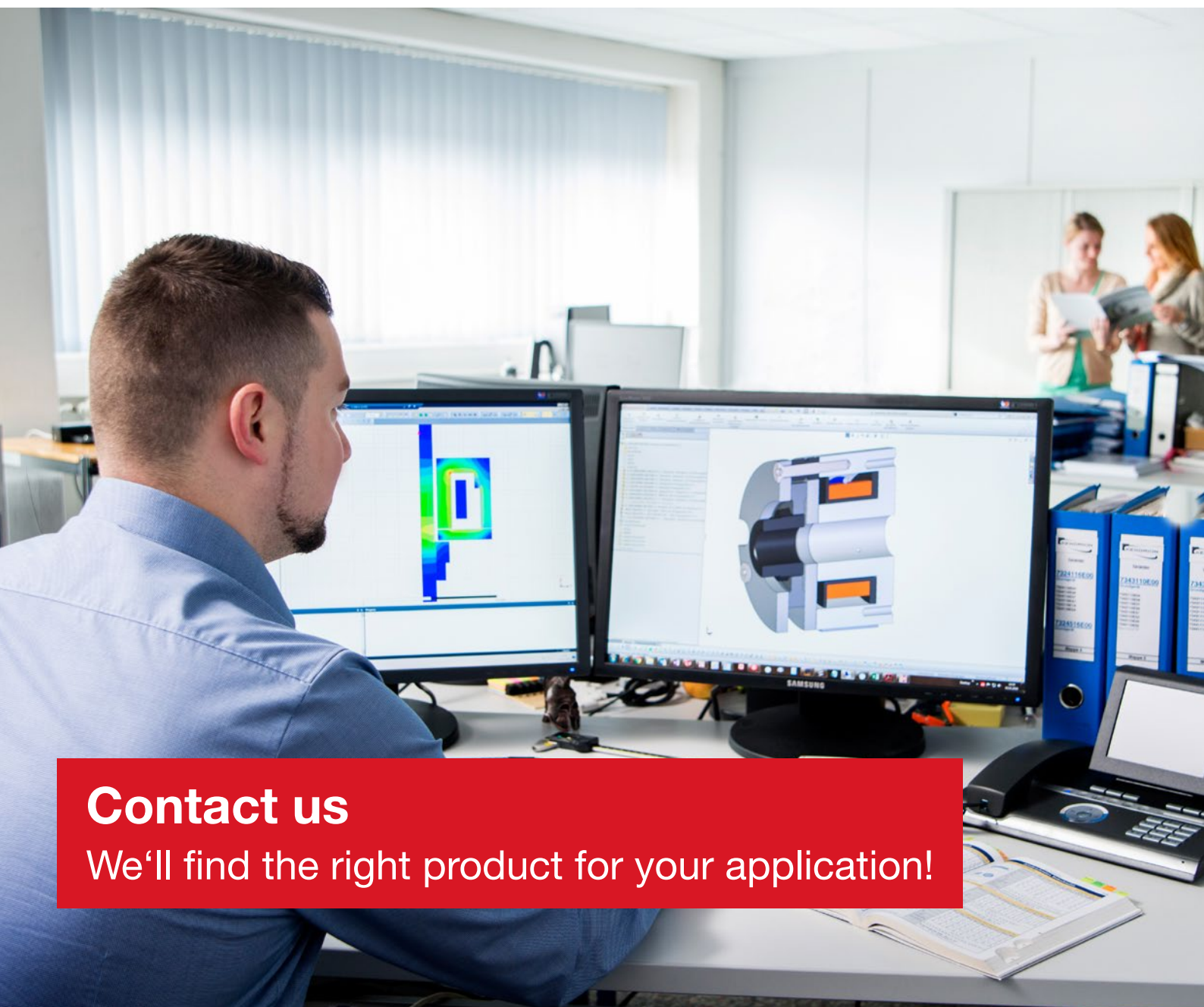
Supporting keyway over entire length. Shaft ISO fitting k6. (<sup>1)</sup>, <sup>2)</sup>)

## Individual customer solutions

Specially tailored to your needs

**Automation solutions have become indispensable in both industry and our everyday lives. Mechatronics helps achieve further expansion of these solutions, and increases the range of applications. In many cases, electromagnetic brakes meet the necessary safety requirements, allowing loads to be securely held and ensuring safe braking in an emergency.**

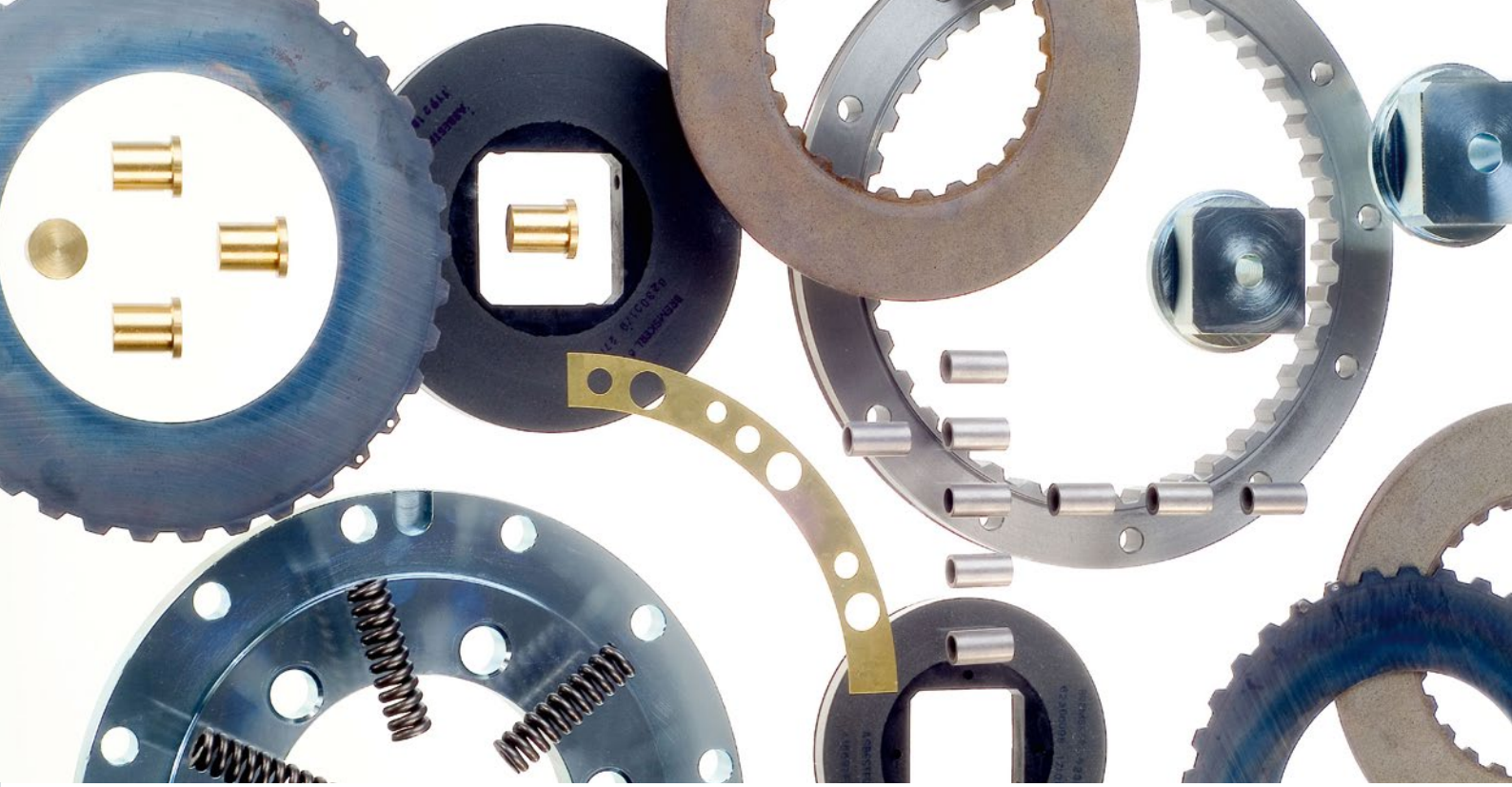
Catering to different market demands while also ensuring product standardization is a challenge that Kendrion relishes. Customized solutions can be developed and manufactured on the basis of an existing portfolio of products, the prerequisite being the analysis and understanding of industry-specific customer requirements. With the right product range and a high level of expertise in automation technology, robotics, machine building and elevator engineering, Kendrion Industrial Drive Systems is your dependable partner, providing the ideal individual brake solution for any application.



**Contact us**

**We'll find the right product for your application!**





## Branded replacement parts from Kendrion

Much more than mere effort

**Perfect operation and excellent functionality of your machine are only possible with original spare parts from Kendrion.**

If you place top priority on long-term product safety and flawless functionality you should always use original Kendrion spare parts and replacement equipment. These high-quality tested products can only be obtained directly from Kendrion. Our worldwide service network ensures availability around the globe.

Reliable spare parts supply is just one of our key strengths. Our flexible manufacturing capabilities and strong logistics management as well as the in-depth know-how of our service-driven personnel ensure fast and competent assistance in any situation.

Our customers appreciate the excellent reliability of original Kendrion spare parts because they offer uncompromising compatibility and ensure full functionality of the equipment in which they are used.

## **Kendrion (Villingen) GmbH**

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Wilhelm-Binder-Strasse 4-6  
78048 Villingen-Schwenningen  
Germany

T +49 7721 877-0  
F +49 7721 877-1462

[sales-ids@kendrion.com](mailto:sales-ids@kendrion.com)  
[www.kendrion-ids.com](http://www.kendrion-ids.com)

