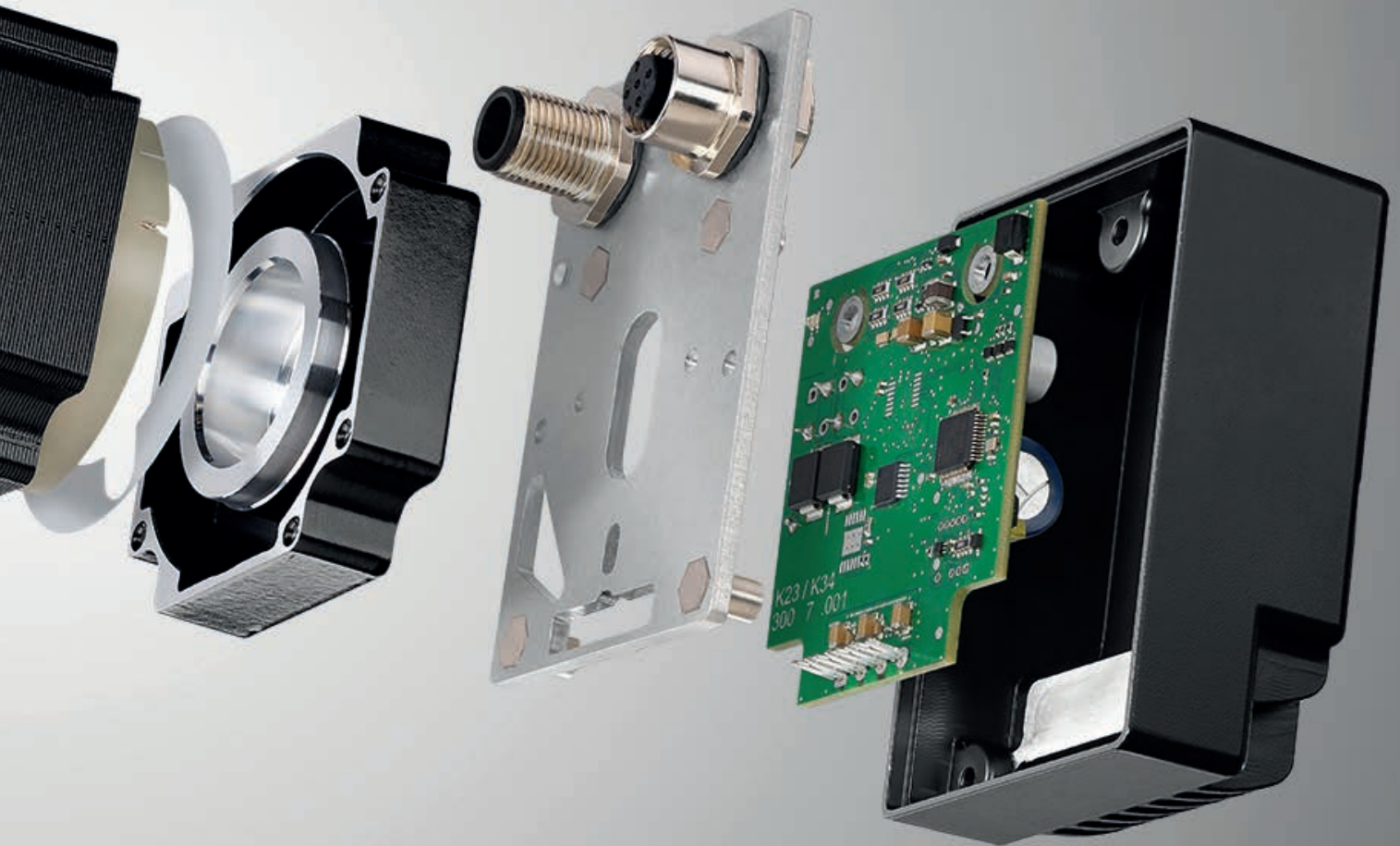




**KOCO**  
MOTION

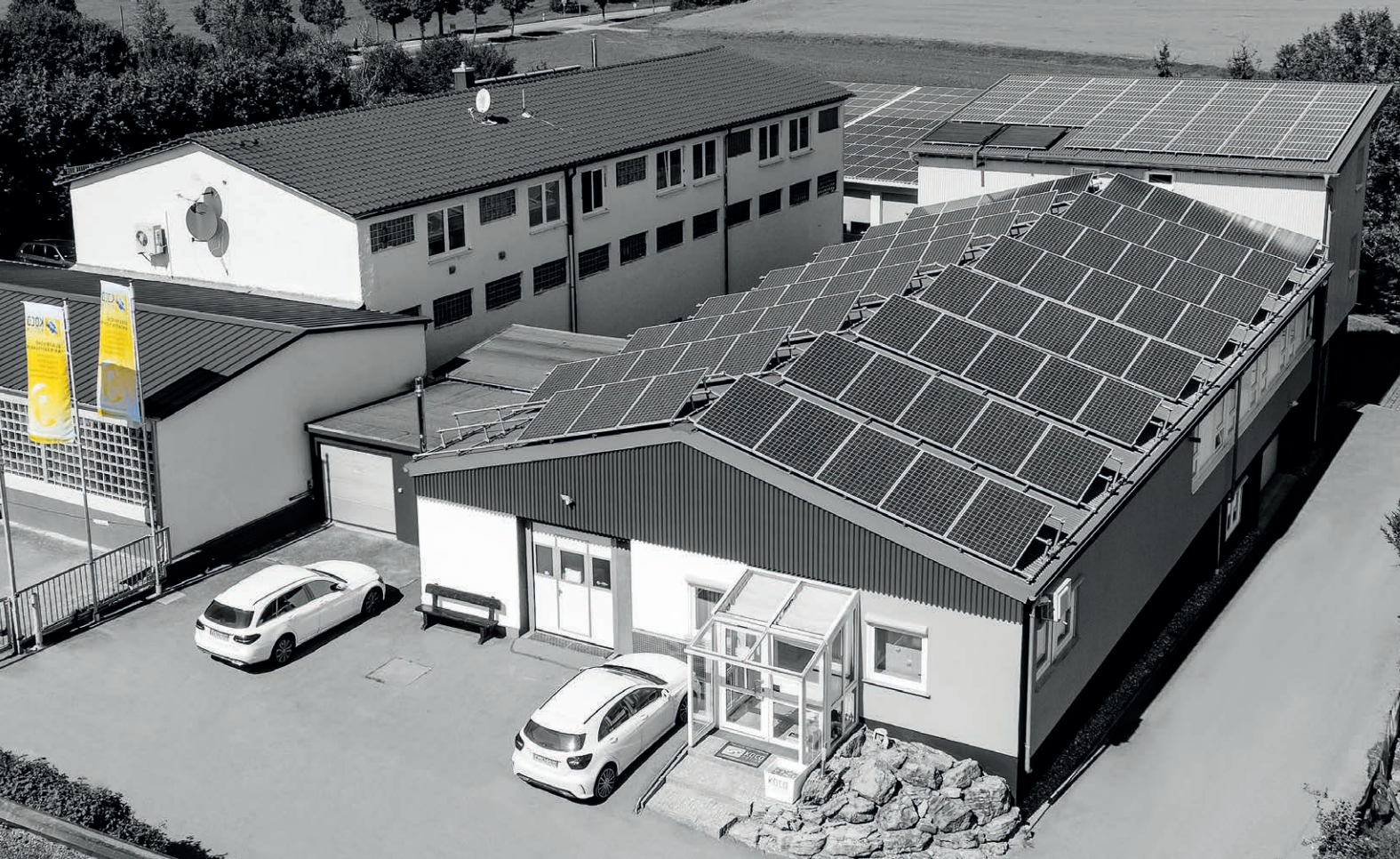
*...Intelligence in motion*



Development | Production | Sales

# Electric Drive Technology

[www.kocomotion.de](http://www.kocomotion.de)



## WE MOVE INDUSTRIES.

Wherever movement needs to be initiated, electric drives can generate it. And usually the origin of any movement is the rotational movement of an electric motor. Therefore, KOCO MOTION drives can be found in many different applications and industries.



INDUSTRY  
AUTOMATION



MECHANICAL  
ENGINEERING



MEDICAL  
TECHNOLOGY



AUTOMOTIVE



SMART HOME



BATTERY TOOLS



LOCKING  
TECHNOLOGY



RENEWABLE  
ENERGIES



AVIATION



AGRICULTURAL  
TECHNOLOGY

## HIGH CUSTOMER SATISFACTION IS OUR MOTIVATION

From tailor-made drive solutions in small series to complex projects with large quantities - our KOCO MOTION team is ready to provide our customers with advice and support.

We collaborate with our customers to coordinate requirements and specifications and ensure compliance with those through close inspections. On-time delivery and tested quality are always our claim and are also proven by certifications according to DIN EN ISO 9001 and DIN EN ISO 14001.

## PERSONAL. ENVIRONMENTALLY FRIENDLY. AND WITH DRIVE.

Our employees are our greatest asset. Their motivation is not only based on good relationships with each other and with KOCO MOTION, but also lies in the opportunity to fully contribute their skills and achieve our company goals in an individual way.

We see ourselves as part of the environment and therefore treat the scarce natural resources we are given carefully. We actively look for ways to keep and improve our actions and behavior in an environmentally friendly manner.

# We are KOCO MOTION

*...Intelligence in motion*

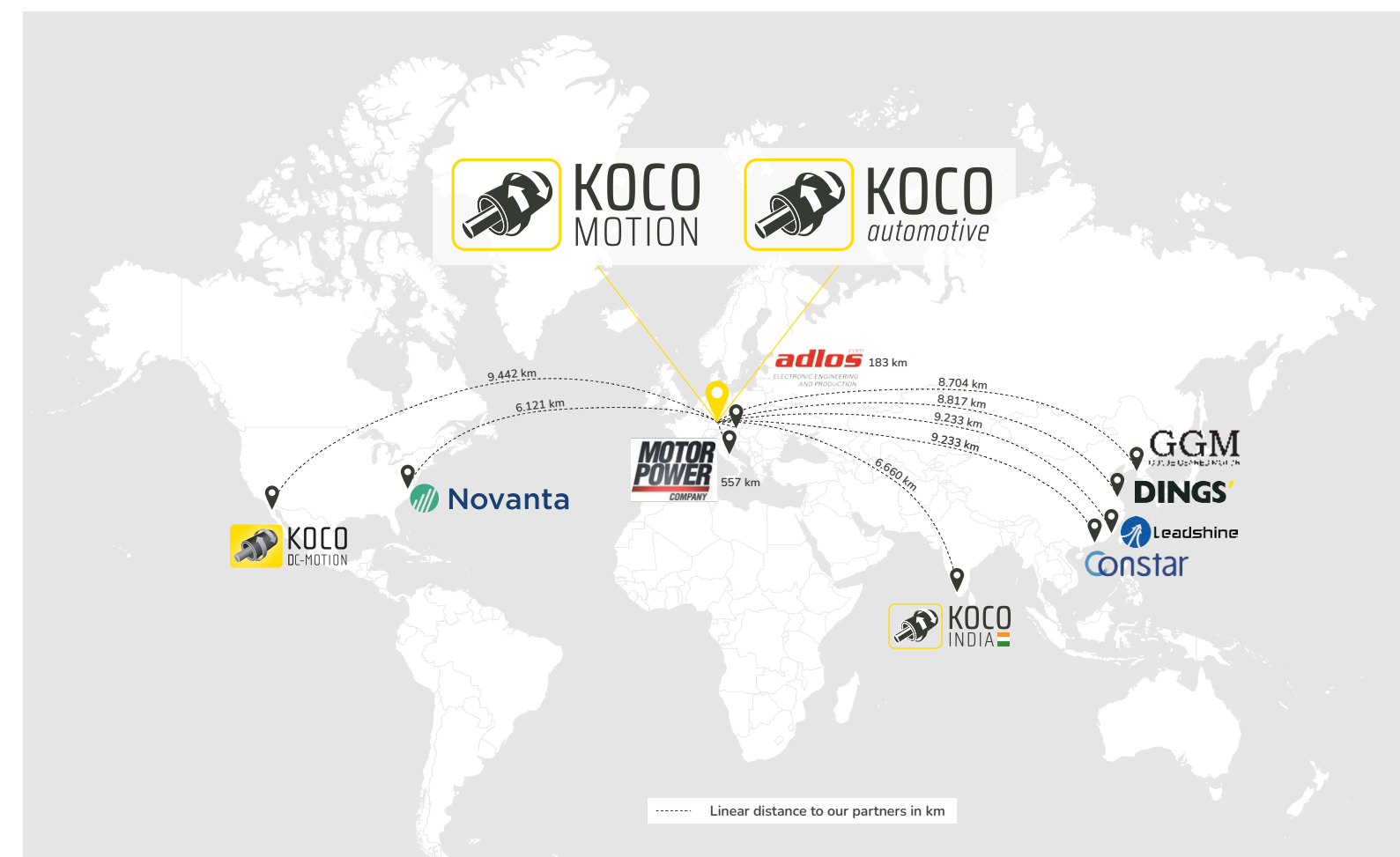
We are only satisfied when the optimal solution has been found for our customers.

As a system house, we always offer our customers the best drive solution and can rely on a global network of motor and control technologies. We implement our customers' projects in a highly professional and extremely flexible manner in partnership with our customers. Our aim is always to achieve the highest quality within the agreed budget.

We draw on years of experience in the development and production of electric motors and respond individually to the wishes and ideas of our customers in project consulting. For us, the focus is on the personal relationship with customers, employees and suppliers. We understand our customers' needs exactly, achieve a high level of customer satisfaction and are THE partner for our customers when it comes to drives.

## NETWORKED WORLDWIDE.

Our strength also lies in the long-term partnerships with our suppliers. We are globally networked, rely on a well-coordinated logistics chain and can therefore ensure efficient processes. Our generous storage capacities minimize transport times and ensure safe and timely deliveries to our customers.





## APPLICATIONS

- Industry automation
- Medical technology
- Valves
- Analytics
- Agricultural technology
- Entertainment and household electronics
- Gastronomy and Vending

## OPTIONS

- Galvanic isolation
- Transmissions
- Hollow shaft
- Linear actuator
- Protection up to IP 65
- Brake resistance
- Multi-axis systems
- Multislave
- Interfaces to



## KannMOTION MANAGER

Programming is child's play with the KannMOTION Manager. Commands can be easily inserted into the editor using drag'n'drop. After a command is selected and the F1 key is pressed, a detailed description of the command is displayed.

Even beginners without programming knowledge and without expensive training can quickly and easily create individual sequences and sequence programs.

For advanced users, the KannMOTION Manager also offers the option of programming the motor in the C language.

With the cockpit of the KannMOTION Manager, simple control commands can be executed quickly.

| Size (Nema) | Voltage max. (V) | Power max. (A) | Controller | Dimensions (mm) | Integrated / External | Interface             |
|-------------|------------------|----------------|------------|-----------------|-----------------------|-----------------------|
| 11 - 17     | 30               | 2,8            | K11        | 28 x 28         | integrated            | RS232                 |
| 17 - 23     | 36 - 48          | 3,0            | K17        | 42 x 42         | integrated            | RS232; RS485; CANopen |
| 23 - 34     | 48               | 6,0            | K23        | 56 x 56         | integrated            | RS485; CANopen        |
|             | 60               | 2,8            | K08        | stand alone     | external              | RS232                 |
|             | 60               | 6,0            | K14        | stand alone     | external              | RS232                 |

# KannMOTION

TAILOR-CUT, INDIVIDUAL DRIVES.

## KannMOTION PLATTFORM

According to the modular principle, each drive is perfectly tailored to the respective customer requirements. Functions, displays or controls as well as additional peripheral devices are easily added - just as the application requires.

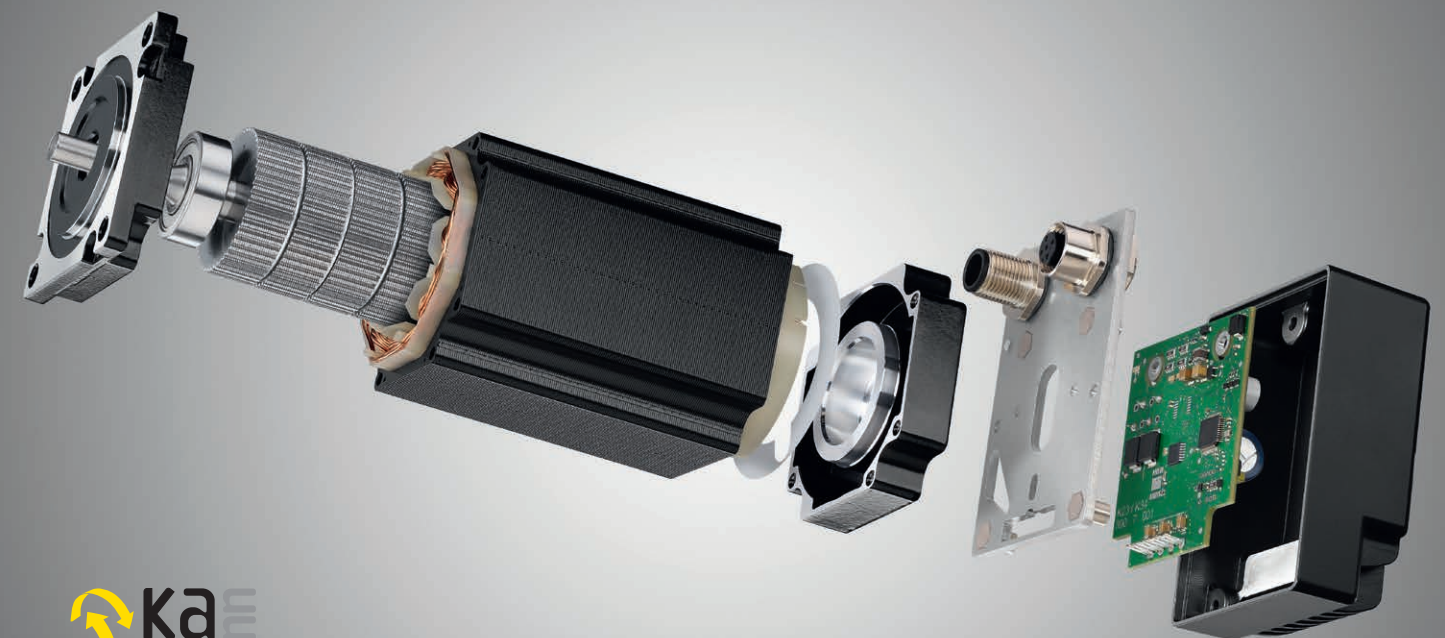
This added value is accompanied by a cost reduction at the same time, because only what the customer application actually needs is integrated. Furthermore, the susceptibility to errors and repairs is minimized and trouble-free operation is virtually guaranteed. This saves money, space and time in the medium and long term.

## TECHNOLOGIES

- DC motors
- Stepper motors
- Linear actuators

## ADVANTAGES

- Customized, individual drive solution
- Space, time and cost saving
- Integrated or external solution
- Easy and quick to program
- Closed-Loop
- Absolute encoder single-turn



More information about KannMOTION.

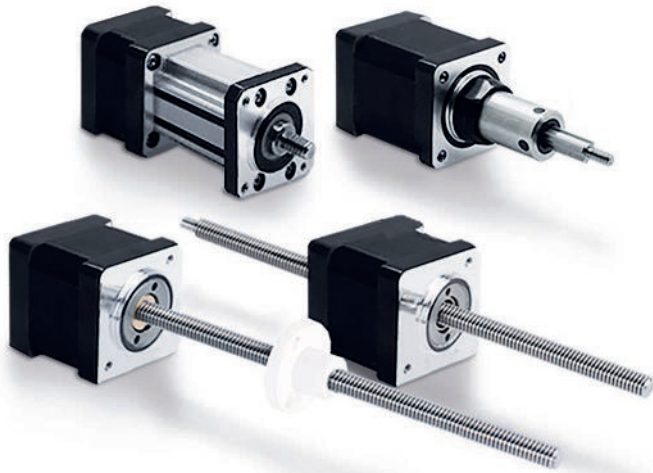
[www.kocomotion.de](http://www.kocomotion.de)

APPLICATIONS

Linear actuators are used, among other things, for lifting, lowering, positioning and for opening and closing valves. Essentially anywhere linear motion is needed - in machines, devices and automation.

The trend is for small linear axes to replace pneumatic cylinders.

- Analyzer
- Packaging machines
- Format adjuster
- Bottling plants
- Robots
- Dosing systems
- Laser systems
- Medical technology



ADVANTAGES

- Great strength, high resilience
- Long lifetime
- High positioning accuracy
- Simple control
- Low noise
- Compact, efficient and reliable
- Flexibly adaptable for a variety of areas of application e.g. with nut-spindle combinations:
  - Cost-effective solutions with injection moldet nuts for trapezoidal spindles
  - Versions with ball screw possible

MOTOR VERSIONS

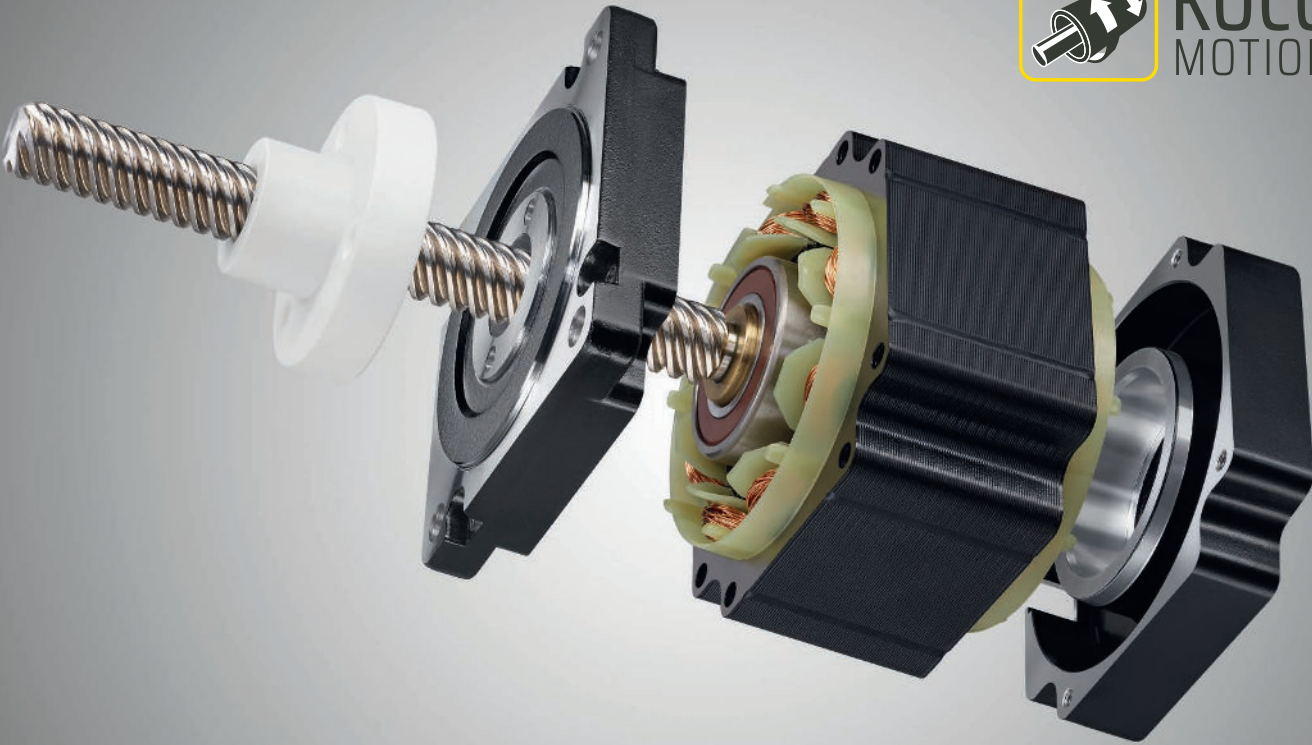
**External (E)**  
The external nut on the spindle creates the linear motion. The nut must be secured against rotation.

**Non-Captive (N)**  
The spindle is pushed through by the motor. The spindle nut is located in the motor.

**Captive (C)**  
Electric cylinder; The linear movement is achieved by the push rod, which is already internally secured against rotation.

**Captive (K)**  
The linear movement is achieved by the push rod, which is already internally secured against rotation.

| Size (Nema) | Flange dimensions (mm) | Version trapezoidal spindle | Spindle pitch (mm/U) | Max. feed force (N) rec. load limit | Version ball screw spindle | Spindle pitch (mm/U) | Max. feed force (N) rec. load limit |
|-------------|------------------------|-----------------------------|----------------------|-------------------------------------|----------------------------|----------------------|-------------------------------------|
| 6           | 14 x 14                | (E), (N), (K)               | 0,609 - 8            | 15                                  | (E)                        | 1 - 2                | 15                                  |
| 8           | 20 x 20                | (E), (N), (K)               | 0,609 - 8            | 140                                 | (E)                        | 1 - 2                | 45                                  |
| 11          | 28 x 28                | (E), (N), (C), (K)          | 0,3175 - 10,16       | 140                                 | (E)                        | 1 - 10               | 140                                 |
| 14          | 35 x 35                | (E), (N), (C), (K)          | 0,609 - 25,4         | 230                                 | (E)                        | 1 - 12               | 230                                 |
| 17          | 42 x 42                | (E), (N), (C), (K)          | 0,609 - 25,4         | 230                                 | (E)                        | 1 - 12               | 230                                 |
| 23          | 56 x 56                | (E), (N), (C), (K)          | 0,635 - 25,4         | 910                                 | (E)                        | 2 - 20               | 910                                 |
| 34          | 86 x 86                | (E), (N)                    | 2,54 - 25,4          | 2270                                | optional                   |                      |                                     |



Linear actuators

GREAT POWERS. HIGH POSITIONING ACCURACY. LONG LIFETIME.

CUSTOM-SPECIFIC ADAPTATIONS

- Winding
- Torque
- Product labeling
- Insulation classes
- Lifetime
- Mechanical interfaces
- Part motor
- Step angle
- Environmental conditions

MOTOR TECHNOLOGIES

- Permanent magnets
- Hybrid stepper motors

CUSTOM-SPECIFIC ATTACHMENT PARTS

- Motor mounts
- Injection molded parts
- Housing
- Encoder
- Brake
- Magnets
- Controller
- Slide guides
- Linear rails

FUTHER OPTIONS

- Wires
- Connectors
- Temperature sensors
- Spindle shape
- Integrated controller
- Anti-backlash-nut



More information about linear actuators.

www.kocomotion.de

# Stepper motors

PRECISE POSITIONING. GREAT POWERS. SIMPLE CONTROL.

## APPLICATIONS

Stepper motors are essential for modern technologies. Their unique ability to rotate in fixed increments allows them to be used in a variety of applications. Stepper motors have a comparatively high torque as a direct drive and can be easily controlled. This precise control combined with its reliability and efficiency makes it the first choice in many high-tech applications.

- Medical technology
- Laboratory and analysis technology
- Precision mechanics
- Robotics
- Printing technology
- Optics

## ADVANTAGES

- Great powers
- High starting torque as a direct drive
- Precise positioning and repeatability of movement
- High holding torque
- Simple control
- Compact, robust design
- Long lifetime
- Flexible customizable



## MOTOR VERSIONS

- Single or double shaft
- Motor length 1-4 or 5 stack
- Protection class IP 40 - IP 67
- With plug or cable outlet

## MOTOR TECHNOLOGIES

- Permanent magnet
- Hybrid stepper motor

## HOLDING TORQUE

- Up to 20 Nm

## FURTHER OPTIONS

- Gear
- Gear boxes
- Encoder
- Brake
- Worm gear
- Magnets
- Controller

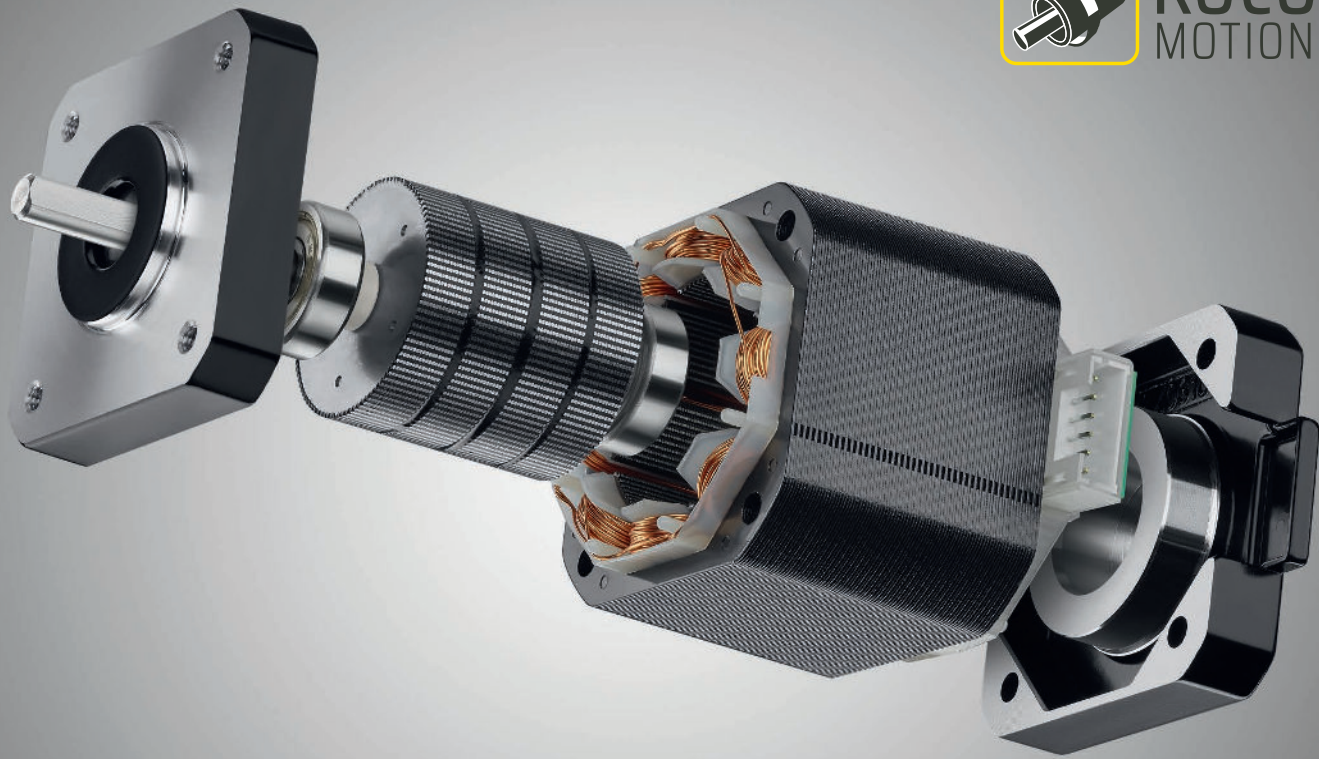
## CUSTOM-SPECIFIC ADAPTATIONS

- Winding
- Torque
- Product labeling
- Environmental conditions
- Insulation classes
- Step angle
- Lifetime
- Mechanical interfaces
- Parts motor

## CUSTOM-SPECIFIC ATTACHMENT PARTS

- Wires
- Connectors
- Temperature sensors
- Digital Hall-sensors
- Shaft geometry
- Integrated controller
- Hollow shaft

| Size (Nema) | Dimensions | Holding torque    | Full step angle     | Phase currents bipolar |
|-------------|------------|-------------------|---------------------|------------------------|
| 6           | 14 x 14    | up to ca. 40 mNm  | 1,8                 | up to 0,3 A            |
| 8           | 20 x 20    | up to ca. 30 mNm  | 1,8                 | up to 0,5 A            |
| 11          | 28 x 28    | up to ca. 100 mNm | 1,8                 | up to 1 A              |
| 14          | 35 x 35    | up to ca. 120 mNm | 0,9; 1,8            | up to 1,5 A            |
| 17          | 42 x 42    | up to ca. 800 mNm | 0,9; 1,8; 3,0       | up to 2,5 A            |
| 23          | 56 x 56    | up to ca. 2 Nm    | 0,9; 1,8; 3,0       | up to 3 A              |
| 24          | 60 x 60    | up to ca. 3,5 Nm  | 1,2; 1,8; 3,0       | up to 6 A              |
| 34          | 86 x 86    | up to ca. 12 Nm   | 0,72; 1,2; 1,8; 3,0 | up to 8 A              |
| 42          | 110 x 110  | up to ca. 20 Nm   | 1,8                 | up to 6 A              |



More information about stepper motors.

[www.kocomotion.de](http://www.kocomotion.de)

## APPLICATIONS

Brushed DC motors can be used universally due to their simple structure. Therefore, there are hardly any applications in which DC motors do not play a certain role.

- Pumps
- Locking systems
- Electric cylinders
- Modelling
- Valve actuators
- Window regulators
- Shading systems
- Entertainment and household devices
- Dosing systems



## ADVANTAGES

- Exact adjustment to the correct operating point
- Cost-effective design
- High efficiency and power density
- Ideal for battery operation
- Simple control via DC voltage and PWM
- Available from 4 mm diameter and in flat designs
- Gear boxes in many versions



## MOTOR VERSIONS

### Input

- Wire harness / connectors
- Soldering pads
- Free wires
- Metal contacts

### Encoder

- Magnet on shaft
- Hall-sensors
- Optical
- Magnetical

### Coil (Robot)

- Winding on iron core (iron anchor)
- Cantilevered (bell runner)
- Flat (flat runner)

### Output

- D-Cut
- Double-D-Cut
- Pinion
- Round shaft

### Bearings

- Slide bearing
- Ball bearing

### Commutation

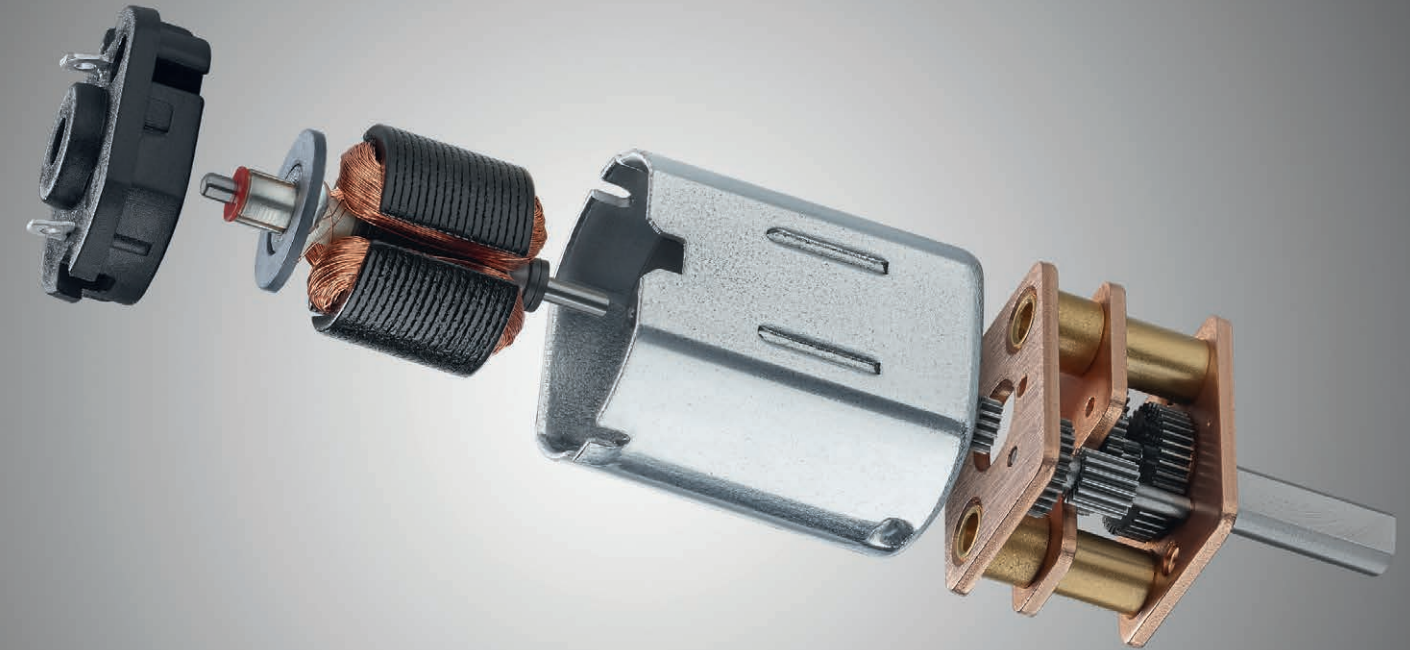
- Metal
- Carbon

### Gear boxes

- Spur gear
- Planetary gear

- Worm gear
- Angular gear

| Product class               | Diameter (mm) | Rated voltage (V) | Rated speed (U/min) | Rated torque (mNm) |
|-----------------------------|---------------|-------------------|---------------------|--------------------|
| Precision bell-shaped rotor | 06 - 32       | 1,5 - 48          | ca. 1300 - 23000    | 0,01 - 560         |
| Bell-shaped rotor           | 04 - 17       | 1,3 - 12          | ca. 1730 - 77680    | 0,03 - 3,8         |
| Iron armatures              | 10 - 28       | 1,4 - 24          | ca. 1750 - 23000    | 0,09 - 8,82        |
| Flat rotor                  | 07 - 20       | 3,0               | ca. 1550 - 17000    | 0,01 - 0,3         |
| Penta                       | 58 - 116      | 24 - 48           | ca. 2000 - 3000     | 143 - 300          |



# DC motors

SIMPLE. FLEXIBLE. COST-EFFECTIVE.

## CUSTOM-SPECIFIC ADAPTATIONS

- Winding
- Torque
- Speed
- Product labeling
- Environmental conditions
- Insulation classes
- Metal commutation
- Carbon brush commutation
- Lifetime
- Mechanical interfaces

## CUSTOM-SPECIFIC ATTACHMENT PARTS

- Motor mounts
- Injection molded parts
- Housing
- Spindle
- Gear
- Gear boxes
- Encoder
- Brake
- Worm gear
- Magnets

## FURTHER OPTIONS

- Wires
- Connectors
- Metal contacts
- Soldering pads
- Temperature sensors
- Shaft geometry



More information about DC motors.

[www.kocomotion.de](http://www.kocomotion.de)

# BLDC motors

SILENT. EFFICIENT. LONG-LASTING.

## APPLICATIONS

BLDC motors are used wherever the requirements for service life, interference suppression or noise are high and may not be met by brushed DC motors.

- Pumps
- UAV / Drones
- Autonomous guided vehicles
- Robots
- LiDAR systems
- Electrical hinges
- Laser scanners

## ADVANTAGES

- Long lifetime
- High efficiency
- Good electromagnetic compatibility (EMC properties)
- Silent operation
- Solutions for operating points at high and low speeds
- Can be easily combined with encoders



## MOTOR VERSIONS

### Input

- Wire harness / Connector
- Soldering pads
- Free wires
- Metal contacts

### Encoder

- Hall-sensors
- Optical
- Magnetical

### Gear box

- Spur gear
- Planetary gear
- Worm gear
- Angular gear

### Output

- D-Cut
- Double-D-Cut
- Pinion
- Round shaft

### Rotor

- Inner runner
- Outer runner
- Frameless

### Bearing

- Slide bearing
- Ball bearing

### Stator

- Slotless
- Slotted



| Product class   | Diameter flange (mm) | Voltage (V) | Rated torque (mNm) | Hall-sensors |
|-----------------|----------------------|-------------|--------------------|--------------|
| Inner runner    | Ø8 - Ø75             | 3 - 48      | 1 - 500            | optional     |
| Inner runner    | 42 x 42 - 86 x 86    | 12 - 48     | 100 - 1500         | serial       |
| Outer runner    | Ø10 - Ø110           | 3,3 - 60    | 1,2 - 1500         | optional     |
| Frameless motor | Ø50 - Ø86            | 12 - 48     | 300 - 4000         | optional     |

## CUSTOM-SPECIFIC ADAPTATIONS

- Winding
- Torque
- Speed
- Product labeling
- Environmental conditions
- Insulation classes
- Lifetime
- Mechanical interfaces
- Parts motor

## POWER

- Up to 2000 W

## CUSTOM-SPECIFIC ATTACHMENT PARTS

- Motor mounts
- Injection molded parts
- Housing
- Spindle
- Gear
- Gear boxes
- Encoders
- Brake
- Worm gear
- Magnets
- Controller

## FUTHER OPTIONS

- Wires
- Connectors
- Temperatur sensors
- Digital Hall-sensors
- Shaft geometry
- Integrated controller



More information about BLDC motors.

[www.kocomotion.de](http://www.kocomotion.de)



## APPLICATIONS

Servo motors are used in machines and devices that require quick and precise positioning of axes. They have at least closed-loop feedback and often have a complete control integrated.

- CNC machines
- Robotics
- Optic production
- Semiconductor production
- CAM systems
- Lithography
- Laser systems
- Intralogistics
- Diagnostic systems

## ADVANTAGES

- High positioning accuracy with fast positioning
- High power density
- Long lifetime
- With external or integrated controller
- Interfaces for various Ether buses for complex applications

## MOTOR VERSIONS

### Controller / Driver

- Integrated
- External

### Encoder

- Optical
- Magnetic

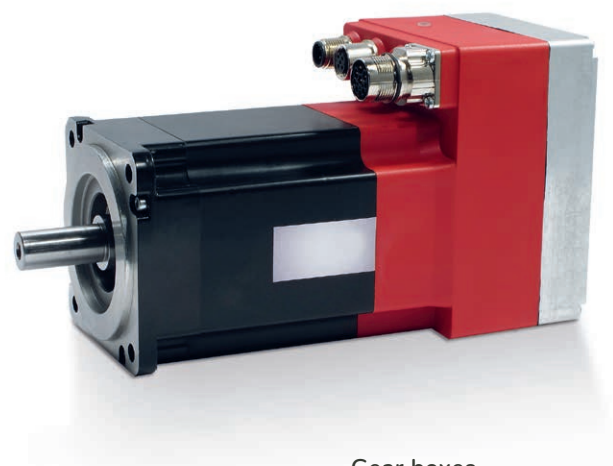
### Interfaces

- ProfiNet
- CANopen
- Modbus

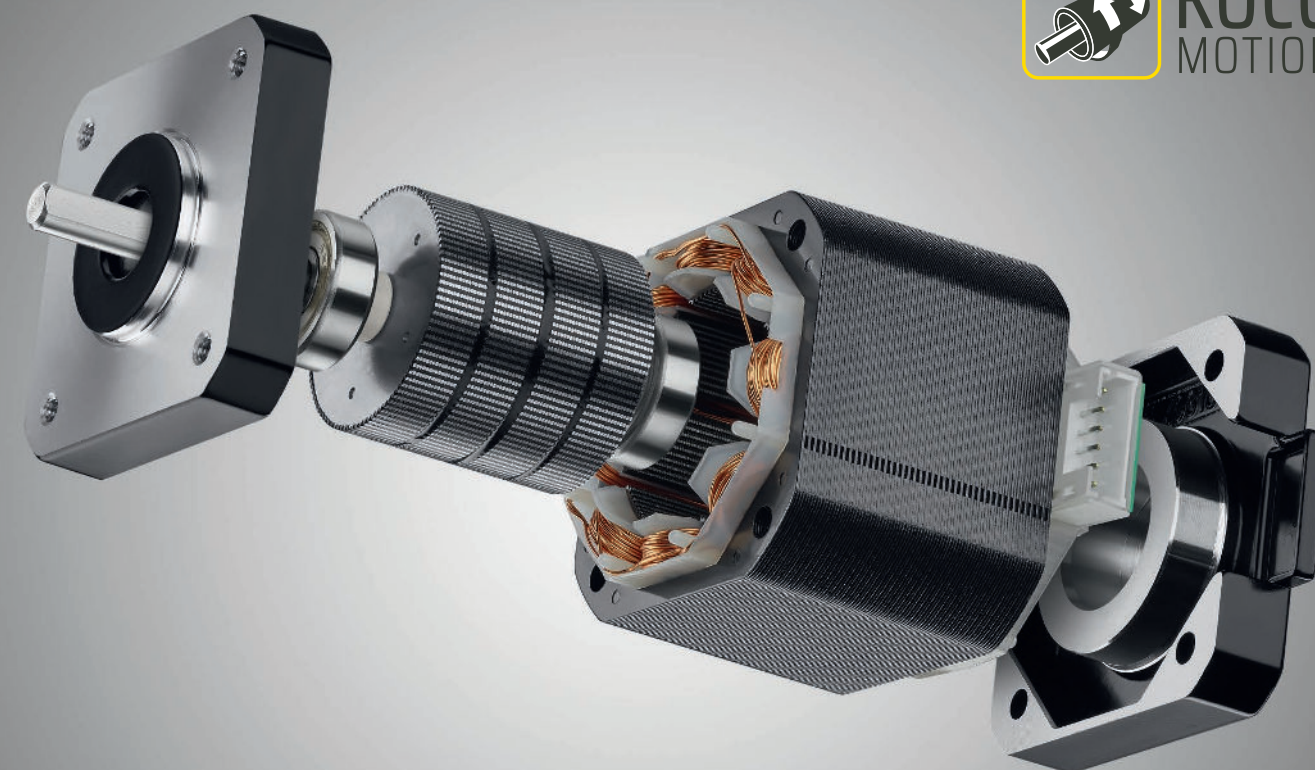
### Gear boxes

- Planetary
- Angle

- Ethernet/IP
- RS485
- EtherCAT



| Size / Flange (mm) | Voltage (V) | Rated speed (rpm) | Rated torque max. (Nm) | Rated power max. (W) | Brake    |
|--------------------|-------------|-------------------|------------------------|----------------------|----------|
| Ø8 - Ø75           | 3 - 48      | 1500 - 30000      | 0,005 - 3,0            | 150                  | optional |
| 40 x 40            | 24 - 400    | 3000 / 6000       | 0,32                   | 175                  |          |
| 60 x 60            | 24 - 400    | 3000 / 6000       | 1,91                   | 600                  |          |
| 80 x 80            | 48 - 400    | 3000 / 6000       | 3,18                   | 1300                 |          |
| 100 x 100          | 230 - 400   | 3000 / 6000       | 6,37                   | 2000                 |          |
| 115 x 115          | 230 - 400   | 3000              | 7,3                    | 2300                 |          |
| 130 x 130          | 48 - 400    | 1500 - 3000       | 7,5                    | 2000                 |          |
| 142 x 142          | 230 - 400   | 3000              | 15,9                   | 5000                 |          |
| 150 x 150          | 230 - 400   | 3000              | 19,1                   | 6000                 |          |
| 180 x 180          | 230 - 400   | 1500 - 3000       | 47,75                  | 8000                 |          |



# Servo motors

HIGHLY PRECISE. POWERFUL. RELIABLE.

## TECHNOLOGIES

- DC motors
- BLDC motors
- AC motors
- Stepper motors

## CUSTOM-SPECIFIC ADAPTATIONS

- Winding
- Torque
- Product labeling
- Insulation classes
- Environmental conditions
- Lifetime
- Mechanical interfaces
- Step angle
- Hollow shaft

## SIZES

- From 8 mm diameter

## CUSTOM-SPECIFIC ATTACHMENT PARTS

- Motor mounts
- Housing
- Injection molded parts
- Controller
- Encoder

## FURTHER OPTIONS

- Motor shaft
- Integrated controller
- Interfaces to Ethernet bus systems



More information about servo motors.

[www.kocomotion.de](http://www.kocomotion.de)

# AC drives

VERY ROBUST. COST-EFFECTIVE. DURABLE.

## MOTOR TECHNOLOGIES

- Single phase
- Three-phase

## POWER

- Up to 200 W

## ATTACHMENT PARTS

- Angular gears
- Spur gears
- Speed controller analog
- Speed controller digital

## MOTOR VERSIONS

### Induction Motors

- 1 rotation direction

### Reversible Motors

- 2 rotation directions
- Permanent brake

### Brake Motors

- 2 rotation directions
- Holding brake

### Speed Control Motors

- 1 rotation direction
- Speedometer

### Speed Control & Brake Motors

- 2 rotation directions
- Speedometer generator
- Holding brake

## APPLICATIONS

AC asynchronous motors can be found in many different applications - be it in industry, transport or even in private households. Single- or three-phased, designed in different sizes, AC asynchronous motors are characterized by their simple and robust build. As long-term runners, they require very little maintenance, are long-lasting and cost-effective.

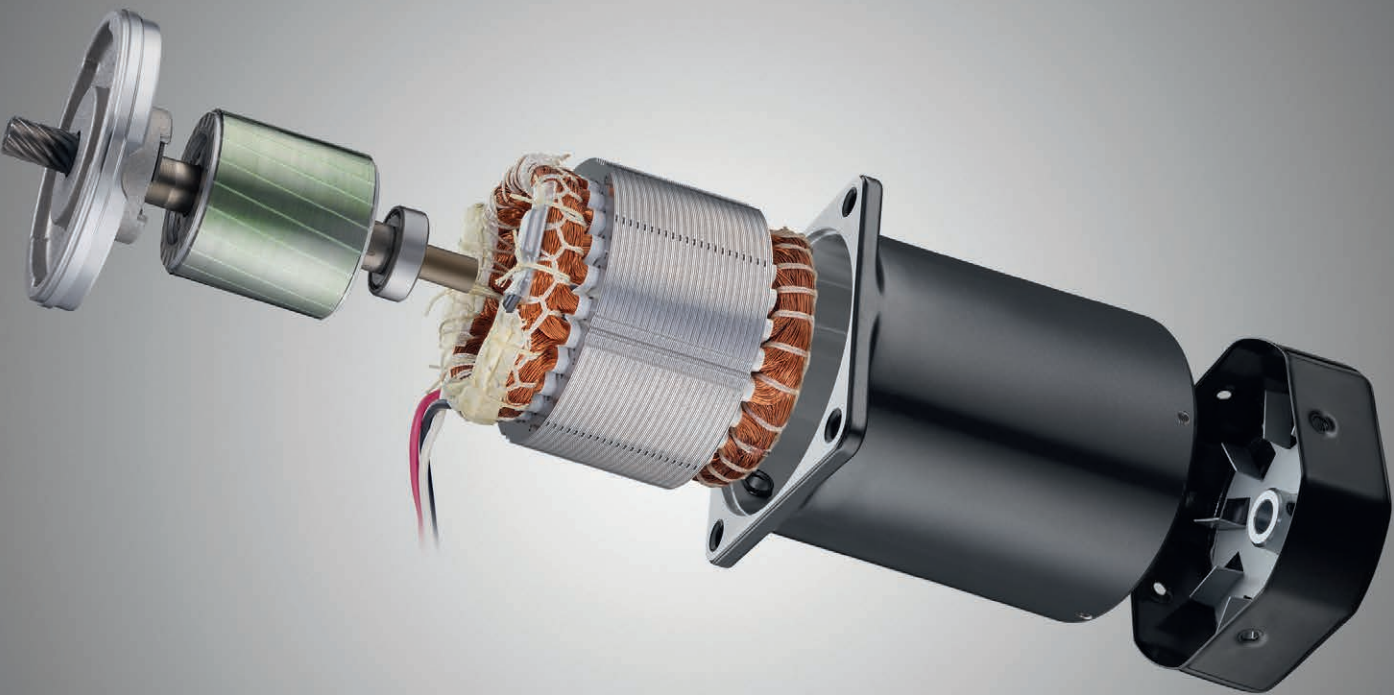
- Automation technology
- Pump technology
- Bottling plants
- Belt drives
- Fans
- Manufacturing engineering such as pressing and punching
- Small compressors

## ADVANTAGES

- Robust, low-maintenance design
- Very cost-effective
- Long lifetime
- Easy control
- Low noise
- Compact design
- Can be combined with a variety of gearboxes as well as with speedometer and brakes



| Model series | Power range (W) | Motor / Gear front flange (mm) | Gear reduction | Gear box drive torque (Nm) |
|--------------|-----------------|--------------------------------|----------------|----------------------------|
| K6           | 6               | 60 x 60 / 60 x 60              | 3/1 ... 1800/1 | 0,1 ... 3,0                |
| K7           | 15              | 70 x 70 / 70 x 70              |                | 0,3 ... 5,0                |
| K8           | 25              | 80 x 80 / 80 x 80              |                | 0,4 ... 8,0                |
| K9           | 40              | 90 x 90 / 90 x 90              |                | 0,7 ... 10,0               |
| K9           | 60              | 90 x 90 / 90 x 90              |                | 1,1 ... 30,0               |
| K9           | 90              | 90 x 90 / 90 x 90              |                | 1,7 ... 30,0               |
| K9           | 180             | 90 x 90 / 90 x 90              |                | 1,7 ... 30,0               |
| K9           | 200             | 90 x 90 / 90 x 90              |                | 1,7 ... 30,0               |



APPLICATIONS

Vibration motors are used when haptic-sensory feedback needs to be provided in a simple and cost-effective way. This makes them a good addition to human-machine interfaces.

In lane and side guard assist systems, vibration motors protect human lives.

- Steering wheels
  - Touch displays
  - Machine controller
  - Driving assistance systems
- Game controller
  - Driver's seat adjustment in busses or trucks
  - Tablet PCs



ADVANTAGES

- Simple control via DC voltage and PWM
- A variety of feedback can be achieved with one motor
- Easy adjustment to the correct working point
- Cost-effective design
- Ideal for battery operation
- Foamable models available

MOTOR VERSIONS

- Design

  - Unencapsulated, open oscillating weight
  - Encapsulated, without anti-twist protection
  - Encapsulated, with anti-twist protection
  - Waterproof, foamed
- Bearings

  - Slide Bearings
- Oscillating weight

  - One-sided
  - Double-sided
- Connections

  - Wiring harness
  - Connectors
  - Soldering pads
  - Free wires
  - Metal contacts

| Product design                             | Diameter (mm) | Nominal voltage (mm) | Rated speed (U/min) | Power (mA) |
|--------------------------------------------|---------------|----------------------|---------------------|------------|
| unencapsulated                             | 4 ... 16      | 3 ... 24             | 7000 ... 20000      | 16 ... 300 |
| encapsulated without anti-twist protection | 23            | 12 ... 24            | 7300                | < 200      |
| encapsulated without anti-twist protection | 24            | 24                   | 7700                | < 400      |
| waterproof, foamed                         | 20            | 12 ... 24            | 7000 ... 9000       | < 400      |



Vibration motors

COMPACT. EASY CONTROLLED. LIFE-SAVERS.

MOTOR TECHNOLOGIES

- Iron armatures
- Bell-shaped rotors
- Sonic motors

CUSTOM-SPECIFIC ADAPTATIONS

- Winding
  - Torque
- Haptics
  - Product labeling
- Environmental conditions
  - Insulation classes
- Tightness
  - Lifetime

CUSTOM-SPECIFIC ATTACHMENT PARTS

- Motor mounts
  - Housing
- Wiring harness
  - Protection hose
- Bandage
  - Connectors
- Contacts
  - Interference suppression



More information about vibration motors.

www.kocomotion.de

# Motor rollers

LONG LIFETIME. HIGH THROUGHPUT. GEARLESS.

## APPLICATIONS

Motor rollers enable a smooth, automated material flow during intralogistics processes in numerous industrial sectors. They must therefore ensure the transport of light to heavy loads extremely reliably, safely and cost-effectively.

- Logistics:
  - Storage, sorting and distribution tasks
- Industrial automation:
  - Material handling, material processing
- Disposal facilities
- Textile industry
- Food production and processing
- Aviation:
  - Baggage handling

## GEARLESS MOTOR ROLLERS

Gearless motorized rollers are designed for continuous use in a demanding environment and can handle a variety of tasks. Using technology derived from direct drive torque motors, motion is transferred directly from the motor to the load without the need for a gearbox. Therefore, gearless motor rollers are less maintenance-prone and have a high level of efficiency.

### Advantages

- High dynamics with direct drive technology
- Long lifetime
- Silent operation
- Easy commissioning
- Many varieties of speeds

### Technical properties

- Size: Ø 46 - 76 mm
- Power: 50 - 260 W
- Torque: 0,16 - 3,1 Nm

## PALLET CONVEYORS

Pallet conveyor motor rollers are used to move entire pallets or other large and heavy goods carriers. The heavy-duty scooters must work reliably, precisely and efficiently without bending.

### Advantages

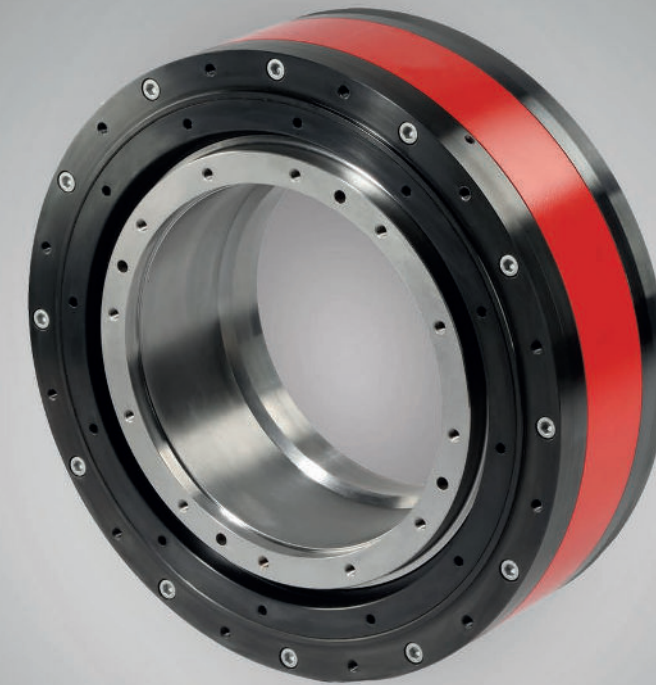
- Payload up to 1500 kg
- 3-stage planetary gear
- High power density
- Flexible and precise motion control

### Technical properties

- Size:
  - outer Ø 70 and 89 mm
- Power: 400 W, 48 VDC and 400 VAC
- Conveying speed:
  - 16,2 - 22,2 m/min
- IP 54



More information about motor rollers.



# Torque motors

PRECISE POSITIONING. LARGE HOLLOW SHAFT. BACKLASH FREE.

## APPLICATIONS

Torque motors are used for fast and precise travel and positioning tasks. Due to the enormous power and torque density of torque motors, it is possible to completely eliminate translation elements such as gears and belts.

- Presses
- Pumps
- Ship drives and winches
- Aviation
- Wind and hydroelectric power plants

## ADVANTAGES

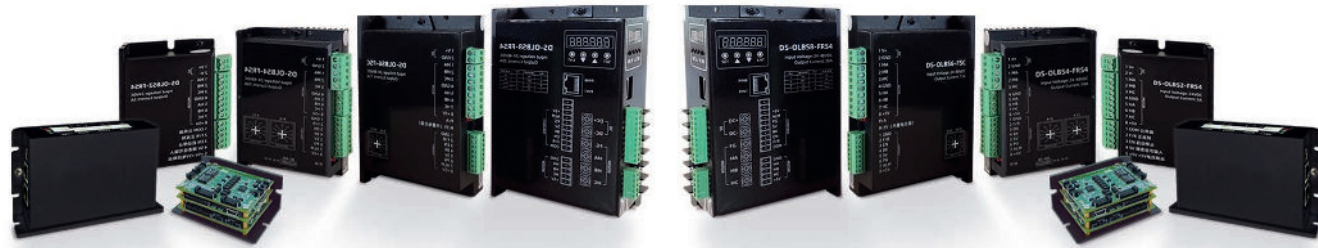
- Highest precision
- User friendly
- Compact, robust and high power density
- Backlash-free and low-noise
- Low implementation time
- Large hollow shaft
- No rotor losses
- With NdFeB-magnets

## TECHNICAL PROPERTIES

- Size: Ø 179, 290, 390, 490 mm
- Torque: up to 2400 Nm
- Power range: 2 - 760 Nm
- Voltage range: 230/400 VAC

# Controllers

EASY CONNECTION. COMPACT. EXCELLENT RUNNING PROPERTIES.



## APPLICATIONS

Controls are available in different versions for a wide variety of motor technologies. They have a variety of interfaces for controlling the drives. They can often be integrated into existing fieldbus systems and thus become an essential part of modern machines and systems.

## ADVANTAGES

- Excellent running properties
- Compact design
- Support of common bus systems
- Easy integration into existing systems
- Single and multi-axis systems
- Programmable as stand-alone solutions
- Variety of supported motor technologies

## CONTROLLER VERSIONS

### Stepper motor controllers

- Open and closed loop
- Stand-alone
- Usage in a switch cabinet

### Servo motor controllers

- With different power ranges

Programmable and interface ready for

CANopen

EtherCAT

PROFINET

Modbus

EtherNet/IP

422 RS485 SERIAL



## TECHNOLOGIES

- Stepper motor controllers
- BLDC / Servo motor controllers
- AC servo motor controllers

## INTERFACES

- Clock, direction and analog input
- CanOPEN
- EtherCAT
- ProfiNet
- Ethernet/IP
- Modbus
- RS232/422/485

## CUSTOM-SPECIFIC ADAPTATIONS

- IP protection
- Designs
- Firmware
- Programming
- Product labeling
- Number of I/Os

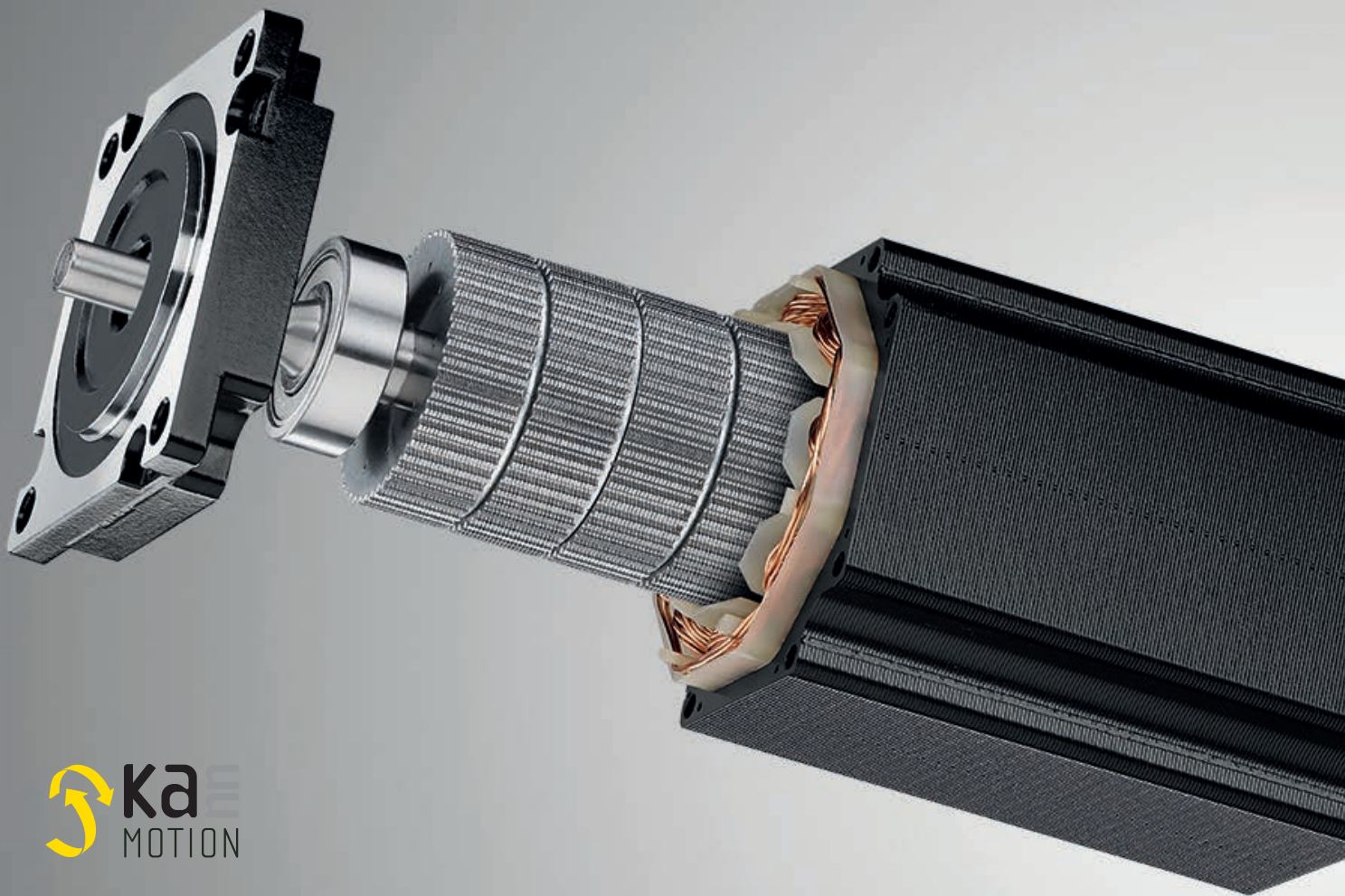
## FURTHER OPTIONS

- Open or closed loop
- Digital and analog in- and outputs
- Security functions (STO + SS1)



More information about controllers.

[www.kocomotion.de](http://www.kocomotion.de)



## CUSTOMIZE YOUR DRIVE

Only what the customer application needs is integrated – according to the modular principle.  
The control integrated in the drive is programmed easily and quickly  
via the StepperConfigTool (plug and play).



More information about KannMOTION.



**KOCO**  
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