

# Drive Technology

full system solutions from ebm-papst

**ebmpapst**

engineering a better life

## About ebm-papst

ebm-papst is the world market leader in fans and drives. Founded in 1963, this technology and solutions company has set international standards with its core competences in motor technology, electronics and aerodynamics. ebm-papst offers customized, energy-efficient and intelligent solutions for a multitude of drive technology requirements in a wide range of markets including automation, access control, intralogistics, medical, mechanical engineering and more.

*ebm-papst is an experienced project partner who works **with you** to create customized drive systems optimized to your specifications.*



## Innovative motor technology:

All three series offer high efficiency, power density, and overload capacity

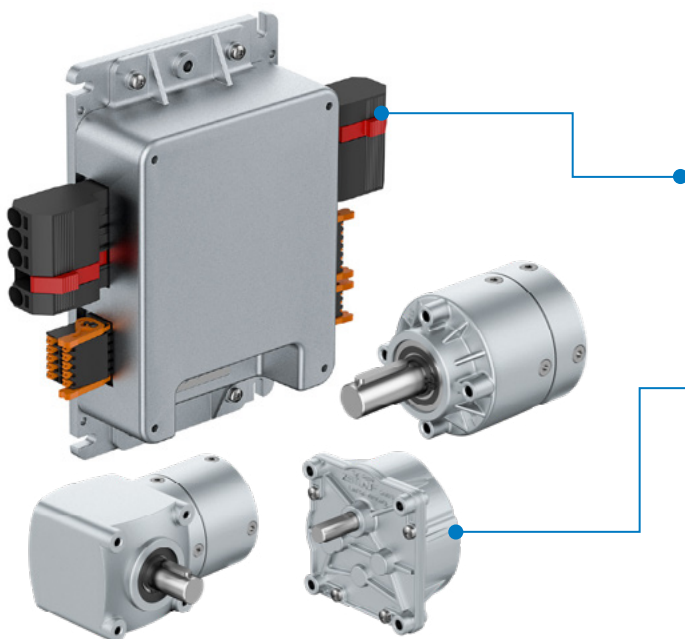
- BCI Series - Brushed Motors with Internal Rotor
  - **Power:** Up to 100 W (nominal)
  - **Torque:** Up to 0.3 Nm (nominal) up to 2.5 Nm (peak)
  - **Diameter:** Ø 42 up to 63 mm
- VD/VDC Series - Brushless (EC) Motors with External Rotor
  - Integrated or external controllers
  - **Power:** Up to 120 W (nominal)
  - **Torque:** Up to 0.3 Nm (nominal) up to 0.9 Nm (peak)
  - **Diameter:** Ø 48 up to 63 mm
- ECI Series - Brushless (EC) Motors with Internal Rotor
  - Integrated or external controllers
  - **Power:** Up to 750 W (nominal)
  - **Torque:** Up to 1.8 Nm (nominal) up to 5.6 Nm (peak)
  - **Diameter:** Ø 42 up to 80 mm

## Electronics:

- Optional internal or external control electronics
- Powered by digital or analog inputs/outputs and via standardized BUS interfaces
- Allow control of speed, torque and position

## Gearbox engineering:

- Crown
- Planetary
- Spur



# K4 Drive System Development Kits

## Hands-on testing of K4 Motors

Includes:

- Choice of motor
  - HX0K-024-000-02 - ECI Package with ECI-63.40-K4-B00 motor (PN 915.10288.V)
  - HX0K-024-000-03 - VDC Package with VDC-3-49.15-K4-B00 motor (PN 915.10290.V)
- K4 Switch Box
- RS485 adapter
- USB-A to USB-B cable
- RS485 connection wires

Just add a windows computer with a disk drive and a free USB port plus a DC power supply!



### Features

- » **Power range:** Up to 750 W (1000W peak)
- » **Supply voltage:** 24V and 48V DC
- » **Torque motors:** Up to 1.8Nm (nominal load), 5.6Nm (peak load)
- » **Torque gearboxes:** Up to 70Nm (nominal load), 150Nm (peak load)
- » **Control electronics:** Integrated or external

### Customer needs we can fulfill:

- » Control (speed, position, torque) - Dynamic application, cycles, precision
- » Efficiency (significant energy savings)
- » Compact size (saves space)
- » Versatility (reduces number of different motors needed)
- » Significant cost savings compared to servo motors
- » Noise reduction