

# 5kW Universal Bus Servo Drive

This 5kW universal bus servo drive is designed for high-performance motion control applications. It supports EtherCAT communication for seamless integration and real-time control in various industrial automation systems.



## ADDITIONAL IMAGES



## Product Overview

### • iK3 CANOpen in non-standard tapping



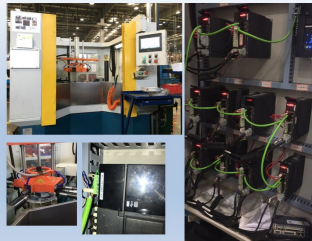
- iK3-400W 4 sets
- iK3-1.5KW 6 sets
- M series 23 Bit motor



- 8-station tapping
- K1 AS15 servo drive
- Precise tapping of the engine casing



- Fast tapping, no bad teeth
- Motor waterproof, high servo stability



Example of servo drive system integration in high-precision automated tapping applications.

## High-Performance Universal Bus Servo Drive

This 5kW universal bus servo drive is engineered for high-precision industrial automation, featuring EtherCAT communication for real-time, multi-axis synchronization with accuracy below 0.1us. It utilizes advanced control algorithms, including active resonance suppression and groove torque compensation, to ensure optimal performance across diverse mechanical structures. Built for reliability, the unit includes three-proof coating for environmental resistance and international safety functions (SS1/SS2/SBC) to meet demanding industrial requirements.

## Performance Metrics

### Performance Capabilities

**2.5 kHz**

Current Loop Frequency Response

**1.6 kHz**

Speed Loop Frequency Response

**0.1 us**

Bus Synchronization Accuracy

## Technical Specifications

### Power Ratings

Parameter	Specification
Rated Power	5kW
Main Power Input	220V (-15--+10%, 50-60Hz)
Control Power Input	220V Single-phase AC

### Communication Protocols

EtherCAT, CANopen

## Environmental Requirements

### Environmental Limits

- Operating Temperature: 0 to 45°C
- Storage Temperature: -20 to 65°C
- Operating Humidity: 20-85% RH (non-condensing)
- Altitude: Below 1000m
- Vibration Resistance: 5.8 m/s<sup>2</sup> (0.6G) at 10-60Hz

## Safety & Features

### Safety Certifications & Functions

SS1 • SS2 • SBC • Three-proof paint • Active resonance suppression