

# Compact Motion Control for Real Machine Needs

ACOPOS D1 Servo Drive System, strengthening the motion portfolio

High-performance single-axis servo solution designed for fast, precise and reliable machine operation across industries.

With a wide power range and Single & 3-phase supply compatibility, ACOPOS D1 supports diverse machine requirements.

# ACOPOS D1 at a Glance

Single-axis servo system with flexible power and configuration options



## Servo Drive

- Single-axis design
- Single-phase & three-phase compatibility
- Power range: 400W to 15kW
- Integrated STO safety



## Servo Motor

- 200W to 7.5kW range
- Torque up to 48 Nm
- 23-bit multi-turn absolute encoder
- Optional holding brake & cooling options



# Engineered for Speed, Stability and Reliability

High-speed applications demand precise control over acceleration, positioning and vibration behavior. Any instability can lead to quality issues or machine wear. ACOPOS D1 combines fast response with advanced control features to maintain smooth and accurate motion in real production environments.

With a 3 kHz speed loop response, optimized motor design and vibration suppression, it enables faster positioning while maintaining control. Its compact design and reliable operation ensure consistent performance across varying machine conditions.



## Performance

- 3 kHz speed loop response for fast & precise positioning
- Optimized motor design with low cogging torque
- Supports low- & high-frequency vibration suppression
- Enables stable motion even at high operating speeds



## Reliability

- UV-coated PCB for operation in harsh industrial environments
- Wide input voltage range for stable performance
- Optimized heat dissipation design for extended service life
- Built-in braking resistor up to 3 kW for improved control



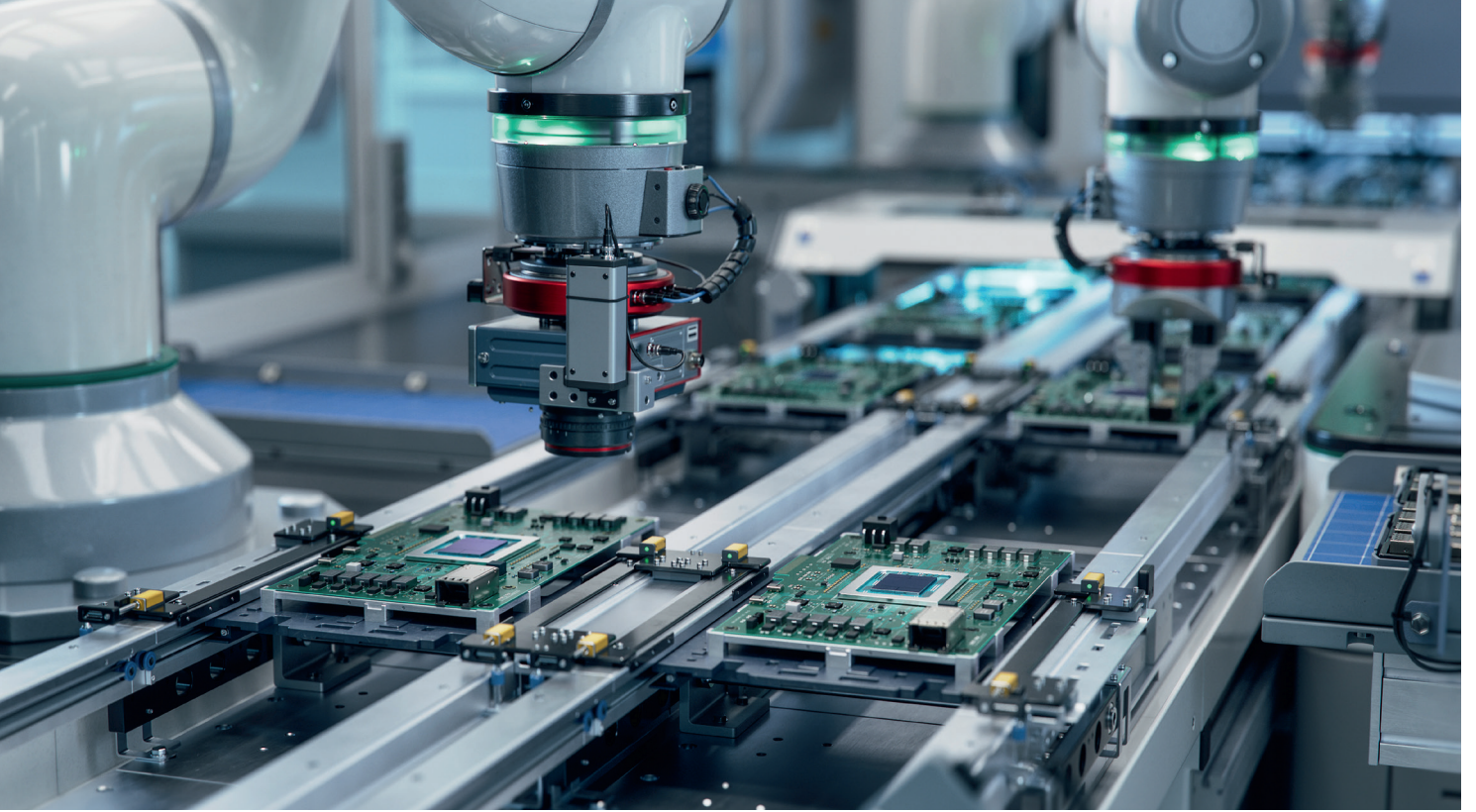
## Ease of Integration

- RJ45 port for quick connection & debugging
- Compact design supports side-by-side, zero gap installation
- Integrated alarm display and simple parameter settings
- ETHERNET **POWERLINK** interface for real-time communication



## Compact Design & Usability

- Compact design reduces panel footprint and optimizes space
- Single-axis design simplifies system architecture
- Supports flexible installation across machine layouts
- Simple setup & operation reduce commissioning effort



# Designed to Deliver Real Machine Value

Motion control directly influences how accurately and consistently a machine performs. In high-speed and precision applications, factors like response time, vibration behavior and system stability play a critical role in maintaining output quality and process consistency.

ACOPOS D1 is designed to address requirements with fast response, stable operation and compact design, helping machines maintain performance across operating conditions.

#### **For Machine Builders**

- Reduced panel space with compact, zero-gap installation
- Faster commissioning with simple connectivity
- Supports flexible machine configurations

Its single-axis architecture, flexible power range and real-time communication capability support efficient system design and reliable operation across applications. This enables machine builders and end users to achieve better control, improved consistency and long-term performance in real production environments.

It also supports seamless connectivity with control systems, enabling faster data exchange and easier configuration.

#### **For End Users**

- Stable machine performance with minimal vibration
- Reliable operation in demanding environments
- Reduced downtime with robust design



# Built for Modern Machine Requirements

Machines today demand faster response, higher precision and stable performance under varying operating conditions. At the same time, machine builders are under pressure to reduce panel space, simplify integration and control costs.

ACOPOS D1 is designed to address these challenges with a compact, high-performance servo system that combines speed, reliability and ease of use. It fits seamlessly into B&R's motion portfolio, enabling scalable automation solutions across a wide range of applications.

# Why ACOPOS D1



Compact design for panel optimization



High-speed response for precision motion



Reliable operation in industrial environments



Easy integration with B&R ecosystem

## Proven Across Multiple Applications



### CPG / Packaging

- HFFS & VFFS
- Laminating Rotary blow molding machine
- Labeling machine, sleeve labeling machine
- Wrapping machine



### Electronics & Semiconductor

- Lithium battery laminating machine
- Coating machine
- Slitting machine
- Winding machine



### Plastics

- Thermoforming
- Blow molding
- Auxiliary drives



### Printing

- Economical gravure printing machine
- Deck positioning
- Side register axes
- Contact & gap winding positioning



### Medical & Pharma

- Tableting machine
- Light inspection machine
- Blister machine
- Aseptic filling