

MD CONTROL SYSTEM

YASKAWA DRIVE SOLUTIONS

Product overview • features • applications • selection guide



Industrial Drive Catalogue

General purpose • regenerative • fan/pump • elevator • HVAC • system components

MD CONTROL SYSTEM

Control Panels • PLC & HMI • SCADA • Drives • Industrial Automation

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Yaskawa Drive Portfolio

Expanded selection for industrial and application-specific requirements

G7000 / G7

Three-level industrial performance

GA500 / GA501

Compact OEM and machine control

A1000

High-performance general purpose

V1000

Compact vector control

U1000

Regenerative MATRIX technology

P1000 / FP605

Fan, pump and HVAC

J1000

Simple V/f control

D1000

Low-harmonic regenerative converter

R1000

Regenerative braking unit

L1000A

Elevator and escalator drive

HV600

Commercial HVAC

Selection checks

- Motor voltage & full-load current
- Duty cycle & overload
- Ambient & enclosure
- Load type and torque curve
- Braking / regeneration
- PLC / HMI / SCADA network

Drive Selection Guide

Key Features and Typical Applications are separated to prevent overlap

YASKAWA

High-performance three-level AC drive

KEY FEATURES

- Three-level architecture
- Speed / torque / position control
- Reduced long-cable motor stress
- Ratings through 500 HP

TYPICAL APPLICATIONS

Winders • Cranes • Machine tools • Process lines

SELECTION NOTE

Confirm voltage, FLA, kW/HP, duty, braking and environment.

YASKAWA

Compact general-purpose microdrive

KEY FEATURES

- Compact footprint
- Vector / V/f control
- Multiple motor types
- GA501 Ethernet
- STO on applicable configurations

TYPICAL APPLICATIONS

OEM machinery • Conveyors • Packaging • Fans • Pumps

SELECTION NOTE

Confirm voltage, FLA, kW/HP, duty, braking and environment.

Drive Selection Guide

Key Features and Typical Applications are separated to prevent overlap



YASKAWA

High-performance general-purpose drive

KEY FEATURES

- Advanced vector control
- Feedback & I/O options
- Auto-tuning
- Industrial communications
- Strong torque / speed control

TYPICAL APPLICATIONS

Conveyors • Machine tools • Material handling • Process equipment

SELECTION NOTE

Confirm voltage, FLA, kW/HP, duty, braking and environment.



YASKAWA

Compact vector-control drive

KEY FEATURES

- Compact package
- Vector control
- Auto-tuning
- Braking functions
- Communication options

TYPICAL APPLICATIONS

Compact machinery • Conveyors • Fans • Pumps

SELECTION NOTE

Confirm voltage, FLA, kW/HP, duty, braking and environment.

Drive Selection Guide

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YASKAWA

Industrial MATRIX regenerative drive

KEY FEATURES

- Regeneration built in
- Low input harmonics
- High power factor
- Energy recovery
- Compact system wiring

TYPICAL APPLICATIONS

Cranes • Hoists • Elevators • Centrifuges

SELECTION NOTE

Confirm voltage, FLA, kW/HP, duty, braking and environment.

YASKAWA

Fan, pump and HVAC drive solutions

KEY FEATURES

- Variable-torque control
- Application-focused functions
- Energy-conscious operation
- Water / HVAC applications
- Monitoring

TYPICAL APPLICATIONS

HVAC • Water • Wastewater • Fans • Pumps

SELECTION NOTE

Confirm voltage, FLA, kW/HP, duty, braking and environment.

Drive Selection Guide

Key Features and Typical Applications are separated to prevent overlap

YASKAWA

Simple variable-speed AC drive

KEY FEATURES

- Compact V/f control
- Easy commissioning
- Protective functions
- Straightforward speed control

TYPICAL APPLICATIONS

Fans • Pumps • Simple conveyors • Auxiliary machines

SELECTION NOTE

Confirm voltage, FLA, kW/HP, duty, braking and environment.

YASKAWA

Low-harmonic regenerative converter

KEY FEATURES

- Active-front-end solution
- Regenerative energy recovery
- Regulated DC bus
- Documented <5% harmonic current distortion

TYPICAL APPLICATIONS

Common DC bus • Regenerative drives • Robotics / servo systems • Large machinery

SELECTION NOTE

Confirm voltage, FLA, kW/HP, duty, braking and environment.

Drive Selection Guide

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YASKAWA

Regenerative braking unit

KEY FEATURES

- Returns braking energy to supply
- DC-bus compatible
- 150% overload / 30 s
- 0.9 full-load power factor

TYPICAL APPLICATIONS

Cranes • Elevators • Punch presses • Centrifuges

SELECTION NOTE

Confirm voltage, FLA, kW/HP, duty, braking and environment.

YASKAWA

Dedicated elevator drive

KEY FEATURES

- IM and PM motor control
- Vector control options
- 200% starting torque
- Auto-tuning
- STO

TYPICAL APPLICATIONS

Elevators • Escalators • Modernization • Geared / gearless

SELECTION NOTE

Confirm voltage, FLA, kW/HP, duty, braking and environment.

Drive Selection Guide

Key Features and Typical Applications are separated to prevent overlap

YASKAWA

Commercial HVAC drive

KEY FEATURES

- HVAC-focused control
- Fan / pump operation
- Building integration
- Energy-conscious operation

TYPICAL APPLICATIONS

Air handlers • Fans • Pumps • Commercial HVAC

SELECTION NOTE

Confirm voltage, FLA, kW/HP, duty, braking and environment.

YASKAWA

Three-level solution for challenging installations

KEY FEATURES

- Lower electrical noise
- Reduced long-cable problems
- Excellent vector performance
- Flexible control

TYPICAL APPLICATIONS

Long cables • Industrial plants • Process systems • Machine automation

SELECTION NOTE

Confirm voltage, FLA, kW/HP, duty, braking and environment.

Application Matrix

Practical matching of drive families to machine requirements

Conveyors / material handling

G7000/G7 • GA500 • A1000 • V1000

Speed control, acceleration, PLC integration

Fans / pumps / HVAC

P1000 • FP605 • J1000 • HV600

Variable torque, energy-focused operation

Cranes / hoists

U1000 • R1000 • G7000/G7

Regeneration, braking and torque control

Elevators

L1000A • U1000 • R1000

Smooth motion, regeneration, safety

Machine tools

A1000 • G7000/G7 • V1000

Precise speed, torque and position

Water / wastewater

P1000 • FP605 • HV600

Pump duty, monitoring, process control

Regenerative systems

U1000 • D1000 • R1000

REGENERATION CHOICE

U1000 = integrated drive | D1000 = regenerative converter/common bus | R1000 = regenerative braking unit

Selection should be confirmed from the exact motor and load data.

MD Control System

Industrial automation, drives and control-panel solutions

For Projects & Quotations

Share motor kW/HP, voltage, FLA, load, duty, braking and communication requirements for a correct drive selection.

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SOLUTIONS

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Catalogue note

Key Features, Typical Applications and Selection Note are separate sections.

This prevents text from overwriting or crossing into neighbouring sections.