



200 V Three-Phase
0.4 to 110 kW

400 V Three-Phase
0.4 to 300 kW

A1000 for Crane and Hoist

YASKAWA A1000 Inverter for Crane and Hoist provide an easy solution to the special demands of crane applications, for hoisting but also traveling movements. It's proven motor control secures enough torque at any condition while numerous valuable features like the built in brake control, over load detection and others make sure the load is safely moved.

- ▶ 200% Starting Torque and 150% Overload for 1 min. secures reliable movement also under heavy load conditions
- ▶ Full torque at zero speed* for brake operation during stand still increases brake life time and softens the movement
- ▶ Smooth motor operation reduces wear and tear of machines while transported goods are treated more gently
- ▶ Built In brake control for safe brake operation
 - Independent Open/Close settings for optimal timing
 - Motor circuit check before brake lifting
 - Brake feedback signal monitoring
- ▶ Automatic over load tripping prevention by lengthening acceleration and limiting speed at heavy load condition
- ▶ Ultra Lift Function shortens cycle times and increases productivity by speeding up the hoist at light load conditions
- ▶ Built in over load / over weight detection and over travel limit prevent dangerous operation states
- ▶ Automatic load sharing between multiple drives for long and cross travel without tilting
- ▶ Built in functional safety (STO, Safe Torque Off) does away with motor contactors reducing cost while improving machine reliability



Standard Specifications

Digital Input / Output Functions

- ▶ **8 Multi functional digital inputs**
 Sinking/Sourcing mode selectable
 External power supply usable (24 VDC)
- ▶ **Multi functional pulse train input (up to 32 kHz)**
 Easy synchronizing with other drives
- ▶ **3 Multi functional analog inputs**
 (Voltage / Current / PTC selectable)
- ▶ **Fault output**
 CO relay output (N. O. and N. C.)
 250 VAC 10 mA ... 1A
- ▶ **Functional safety**
 2 Channel Safe Torque Off (EN ISO 13849-1, PLd)
- ▶ **3 Multi functional photo coupler outputs**
 Relay (N. O. or N. C programmable)
- ▶ **Multi functional pulse train output up to 32 kHz**
 Easy synchronizing with other drives
- ▶ **2 Multi functional analog output**
 (Voltage / Current selectable)
- ▶ **External Device Monitor (EDM)**
 Status for Safe Torque Off function

Accessories

Well adapted to A1000 drives for cranes and hoist YASKAWA supplies various components and tools that simplify installation and handling.

Software



DriveWizard Plus –
 setup, monitoring
 parameter management
 via PC

Braking Options



Resistors and braking transistors

Power Options



EMC line filters
 (foot-/sidemount)

User Interface



Parameter Copy
 Unit

International Standards



Safety Standards

