



200 V Three-Phase  
0.4 to 110 kW

400 V Three-Phase  
0.4 to 315 kW

## A1000 for Winder

A1000 for Winder is the solution to requirements of rewinder and unwinder systems. Being able to control induction and PM motors in open or closed loop, it allows precise winding of different materials such as textiles, paper, foils, wires and others.

### Benefits

- ▶ For line speeds up to 1500 m/min
- ▶ Accurate motor control for smooth movements assures gentle winding and prevents stretch or material break, especially with sensitive materials
- ▶ Line tension control by direct torque control or by utilizing a dancer or tension cell
- ▶ Built in diameter calculator with memory function for easy start up after power off
- ▶ Static and dynamic friction compensation for precise tension control
- ▶ Excellent winding performance independent of line speed or diameter thanks to self-adapting PID, self-adapting motor control and inertia compensation
- ▶ Adjustable taper function optimizes tension depending on diameter
- ▶ Built in web break detection
- ▶ Application intelligence in the drive reduces requirements for external PLC and I/Os and improves winding performance
- ▶ Cost reduction, reliability improvement and less maintenance by doing away with external sensors for diameter or web break





## 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, YASKAWA supplies various components and tools that simplify installation and handling.

### Braking Options



Resistors and braking transistors

### Power Options



EMC line filters  
 (foot-/sidemount)

### User Interface



Parameter Copy  
 Unit

#### International Standards



#### Safety Standards

