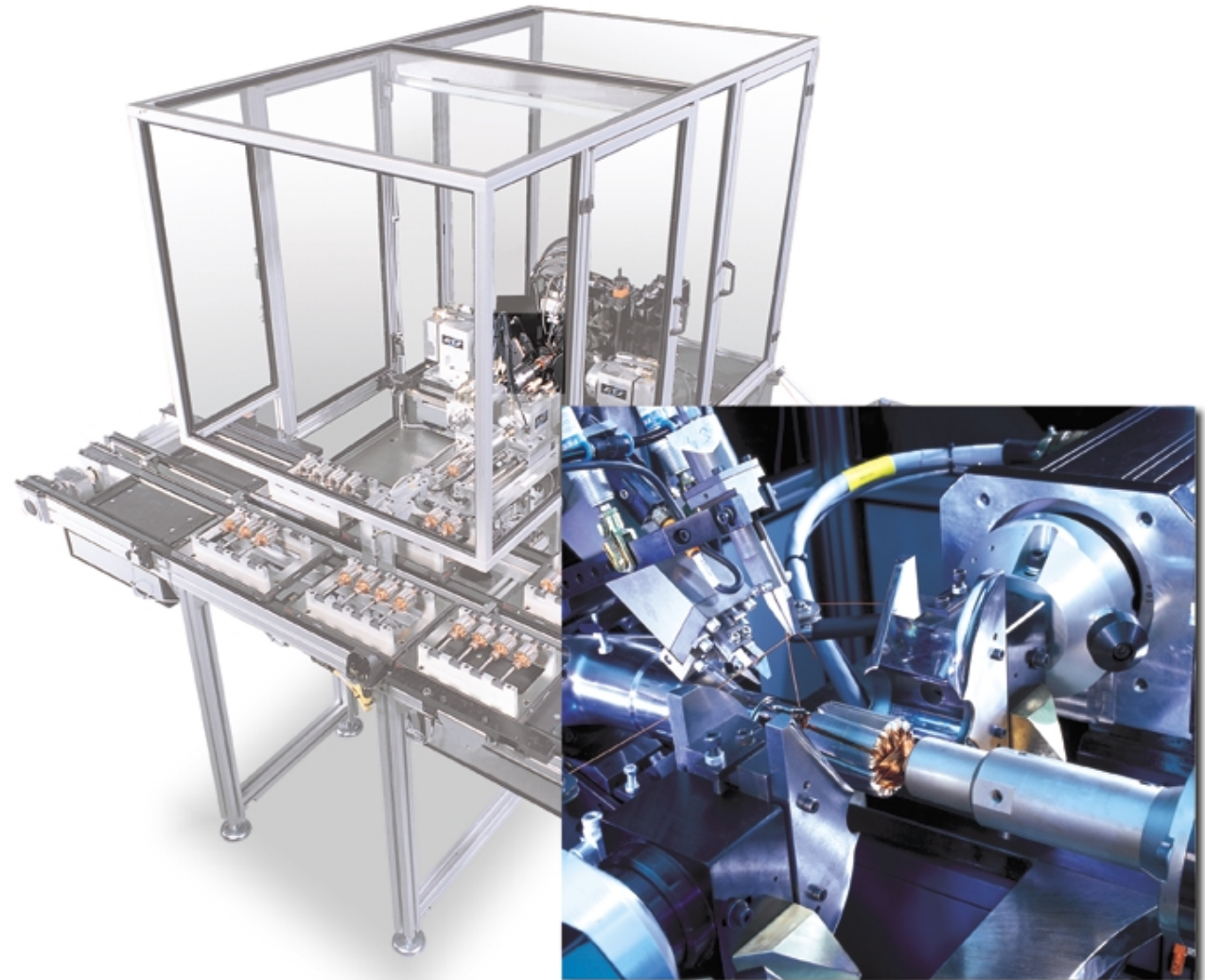




Armature Winder



ATS Armature Winder

AWS 1000

Description

The AWS 1000 Armature Winder offers “stand alone” armature winding capability or can be integrated into a fully-automated, high-speed production line. AWS products offer robust, shop floor proven capability. The controls are built into an open architecture, including motion control systems & software, to offer our customers the ultimate in system flexibility and service.

Specifications

Product name:	AWS 1000 Armature Winder	
Style:	Double flyer	
Commutators:	Hook or slot commutators	
Type:	Automatic or manual load	
	Minimum	Maximum
Wire Diameter:	44 AWG / 0.1 mm	15 AWG / 1.4 mm
Shaft Diameter:	5 mm	12 mm
Shaft Length:	60 mm	300 mm
Stack Diameter:	20 mm	85 mm
Stack Height:	20 mm	85 mm
Commutator diameter:	15 mm	45 mm
Number of poles:	2	4
Winding Speed:		4000 rpm
Turns:	0	999
Tension Unit:	Mechanical Brake Tensioner	
Connection Styles:	Alpha Backside & Automotive	
Electrical supply:	4 KVA - 220/380/440 Volts, 3-phase, 50/60 Hz	
Air Supply:	80 psi/5.5 bar	
Controller:	<ul style="list-style-type: none"> • ATS MACS Windows™ based NT • Modular/Graphical ATS, Allen Bradley or Siemens PLC 	

Dimensions

Width:	39"	1 m
Height:	80"	2 m
Depth:	67"	1.7 m
Weight:	1500 lbs	680 kg

Features

- Operator interface is ATS MACS™, Siemens OP25, or Allen Bradley™ Panelview
- Separate brushless direct drive, closed loop servo motors for flyers
- PC-based machine controller
- Programmable independent winding profiles with ATS MACS™ software
- Two- or four-pole tooling
- Cutting system allows very short tails
- Winding program stores up to 150 programs, depending on controller selection
- Quick-change tooling accommodates multiple armature styles
- Electronic wire tensioners allow tensions to be varied from the program
- Wire-break detection
- Diagnostics display plus remote diagnostics capability
- Patented servo-driven armature fixture chucks non-commutator end, allowing commutator end tooling flexibility and reducing load & unload by up to 30%
- Cutter height & horizontal adjustment with digital readout
- Safety requirements include OSHA, CSA, or CE
- Industry standard replacement parts for ease of maintenance and lower cost of ownership

Options

- Incorporates up to 3 separate wire chain guide sleeves
- Automated load and unload from conveyor, pallet, robotic or ATS Superbot robot-based tray handler
- ATS PQMS™ (Production & Quality Management System) for data acquisition, analysis, and reporting
- Multiple languages available (software switch)
- Electric wire tension control unit
- Quick-change tooling
- ATS model ACT 2000 Electrical Armature Test System
- Complete turnkey armature production systems

Contact ATS directly for custom applications or for product specific applications outside this document



ISO 9001 Registered QS 9000 - ISO 9002 Registered

250 Royal Oak Road
 Box 32100 Preston Centre
 Cambridge, ON
 N3H 5M2 Canada
 Tel: (519) 653-6500 Fax: (519) 653-6533
 Send e-mail to: winding@atsautomation.com
 or visit our web site at: www.atsautomation.com

ATS MACS™ – Modular Automation Control Software.
 A true multitasking, PC based machine controller that integrates a wide variety of technologies, servos and I/O. The true Windows® GUI (Graphical User Interface) features softPLC control and a layered utility to simplify programming and setup. MACS features open connectivity, and combines a number of technologies into one integrated package.