

CNC AUTOMATIC COIL WINDING MACHINE

with automatic wrapping device

Model AW-8702 · 8704

Models AW-8702 and AW-8704 are winding machines combining the compactness and ease of use of the single spindle winding machines AW-850 and AW-852 with the sophisticated capabilities of the multispindle machines of the AW-8600 and AW-8800 series.

Terminal wrap, winding, wire threading and wire cut can all be easily set by programming, and the specifications for winding many coils can be stored in the memory.

Since numerous winding programs are held in the memory, just change the arbors and call up the winding program and you are ready to start winding. The AW-8702 and AW-8704 are accurate and reliable machines for precision winding of medium to small lots where ease of changeover is critical.

Model AW-8702 has 2 spindles, while model AW-8704 has 4 spindles.

FEATURES EXCELLENT WINDING AND WRAPPING FUNCTIONS

POSITION FUNCTION: Positioning on the winding spindles and the wire guiding X, Y & Z axes is all done by servo motors making for extremely accurate and high speed movements.

WRAPPING: As the wire guides index through 90°, either horizontal or vertical pins can be terminated.

WIRE DUMPER: Scrap wire is deposited from the cut-hold units into a box removing troublesome scrap wire from the winding area.

SEQUENCER: The standard GPIO (General Purpose Input/Output) with 8 inputs and 8 outputs allows for external sequencing with other machinery.

TENSION UNITS: Any of the MT series tension units can be mounted to the machine. The programmable back tension on off feature practically eliminates wire brakes.

OPTIONS: Optional devices such as a hard copy printer, skeining unit, automatic load/unload, or automatic taping, solder and test stations can be purchased with the machine retrofitted at a later date.



AW-8704



AW-8702

FEATURES EASY AND SIMPLE PROGRAMMING

CRT DISPLAY

The program is displayed on the CRT display. Also displayable are a list of the programs in the memory, or a maintenance mode showing all the input signals. The self-monitoring system checks the movements of the machine during winding, and if it detects any error, the error will also be displayed on the CRT.

PROGRAMMING LANGUAGE

The programming language is based on words ordinary used in winding and numerical values are entered directly at the keyboard.

MEMORY CAPACITY

The memory capacity is 16,000 words. Additional programs can be saved on a cassette data recorder.

ONLINE PROGRAMMING

This feature allows you to walk through the program, writing it as you are winding the coil.

SPECIFICATIONS

	AW-8702	AW-8704
SPINDLE SPEED	12,000 rpm MAX	
NUMBER OF SPINDLES	2 spindles	4 spindles
SPINDLE PITCH	5" (127mm)	2.5" (63.5mm)
WIRE SIZE	0.6φ max. (up to 0.8φ max. on request)	
BOBBIN OUTER DIAMETER	100mm max.	50mm max.
TERMINAL PITCH FOR WRAPPING	1 mm min.	
NUMBER OF TERMINALS POSSIBLE TO WRAP	unlimited	
WRAPPING SPEED	at 1.6mm wrapping radius and over, 0.24 sec/T	
TRAVERSE WORK ENVELOPE	X-axis (right-left) 80mm (50mm to right and 30mm to left from spindle center)	
	Y-axis (front-back) 70mm (from arbor clamp face)	
	Z-axis (up-down) 60mm (45mm above spindle center and 15mm below)	
WIRE CUT METHOD	pull cut, nozzle cut, blade cut	
AIR REQUIREMENTS	5~6 kg/cm ² (approx. 70 psi)	
CONTROL METHOD	microprocessor	
POWER SUPPLY	200~230 VAC ±10%, 3 phases 50/60Hz	
POWER CONSUMPTION	1.5kw	
DIMENSIONS	W850×D1400×H1710	
WEIGHT	400kg	

The above specifications are subject to change without notification.

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