

Automation

Automation Tooling Systems

AWS-280 Small Stator Winding Machine



**For the automatic winding and terminating of coils
for outboard rotor brushless motors**



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Description

Designed on a modular concept accommodating two or four winding stations, the AWS 280 4-spindle fly winder offers 5-axis capability for the fully automated winding, indexing and terminating of brushless stators for outside-running and EC motors. Intermediate wire termination on hooks or pins is possible. Stators can be manually or automatically loaded into the winder from pallets, and unloaded onto pallets in the same way.

Specifications

Product diameter:	(10) 20 – 60 mm
Product height:	5 – 60 mm
Number of slots:	4 – 18
Winding direction:	Clockwise/counterclockwise
Range of wire diameter:	0.12 – 0.4 mm *
Winding speed:	5000 per minute max.
Number of turns:	0 – 999
Termination of wire:	Supporting hooks, end-insulators with hooks or terminal pockets
Machine control:	ATS MACS™
Power supply:	460/480 V, 60 Hz
Fusing:	3 x 40 A
Operating air pressure:	80 psi

*larger diameters available

Dimensions/Weight

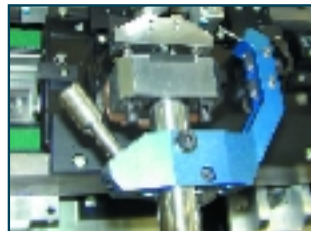
Width:	2000 mm
Depth:	2350 mm
Height:	2300 mm
Weight:	2500 lbs

Options

- Machine setting feedback
- Wire diameter verification
- Wire cutters
- Larger wire-diameter range



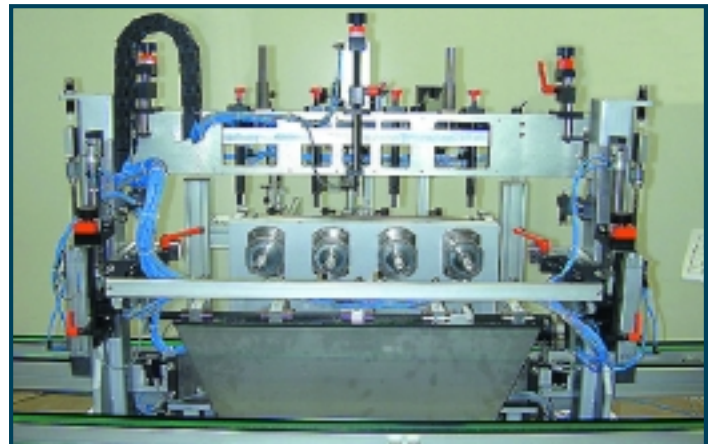
A large variety of wound stators are possible



Individual winding tooling can be adapted to each product

Features & Benefits

- Fully automatic winding, indexing and terminating of outside running stators and EC-motors with hooks or pins
- Multi-flyer technology for very high output
- Freely programmable flyer, movable in x, y and z directions
- Excellent fill factor due to:
 - oscillating movement of the whole flyer unit during winding
 - individual design of tooling
- Modular design concept allows for two or four winding stations
- PC-control MACS™
- Touch-screen display for winding program input, failure diagnostics and production statistics
- Intermediate wire terminations at hooks or pins
- Manual or automatic loading/unloading of machine
- Quick-change tooling
- Global sales and service network



Spindle-casting with four winding stations

Contact ATS directly for custom or product-specific applications beyond the scope of this document.



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