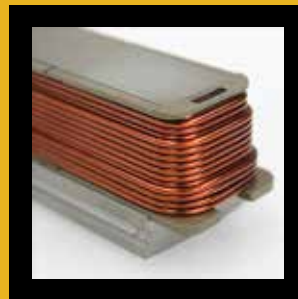
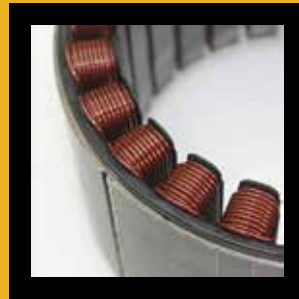
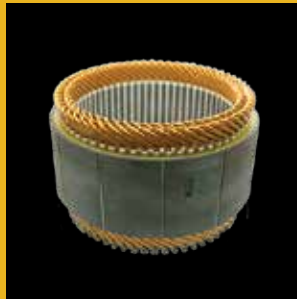
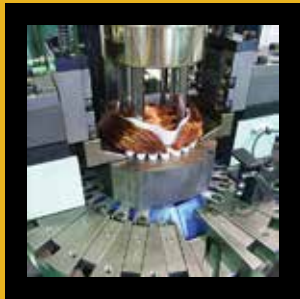




**ODAWARA**  
AUTOMATION, INC.

# Electric Motor Winding Systems



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## **Engineering & Manufacturing** **the Most Advanced Electric Motor Winding Machines**

Odawara Automation is an industry-leading designer, manufacturer and integrator of machines that automate complex winding processes. As an engineering-based company, we also have expertise in building automation equipment for a wide array of assembly, inspection and material handling processes. When you need automation, precision and quality, turn to Odawara.





### Insertion Winding

Heavy Duty Winders

The ZET and SCW winding machines are high-speed, stator coil winders for two- and four-pole induction motor winding.



### Hairpin Winding

R&D to High Volume

Complexity in the stator design can be managed through the utilization of different coil forming, alignment and insertion processes.



### Segment Winding

Round or Rectangular Wire

Individual processing cells for each step are available as are fully integrated, automated lines.



### Needle Winding

High-Speed Stator Winders

The SPW series uses fixed or oscillating needles and a vertical spindle that allows for either square track or elliptical needle paths.



### Flyer Winding

Tool-Less Changeover

The DAW is designed for two-pole armatures and provides tooling flexibility; fast, efficient, accurate winding; improved wire termination; user-friendly programming; and easy setup.

Find more on machine ranges, capabilities and line structures at

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# Industries & Applications



**Aerospace**

- Actuators
- Generators
- Guidance Motors



**Medical**

- Actuators
- Pumps
- Drive Motors
- Ventilators
- Air Handling



**Automotive**

- Traction Motors
- Generators
- Pumps
- Actuators
- Fans
- Steering Modules



**Appliance/  
Consumer Goods**

- Pumps
- Compressors
- Drive Motors
- Actuators



**Industrial**

- Servos
- Drive Motors
- Pumps
- Compressors
- Actuators
- Generators

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[sales@odawara.com](mailto:sales@odawara.com)



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