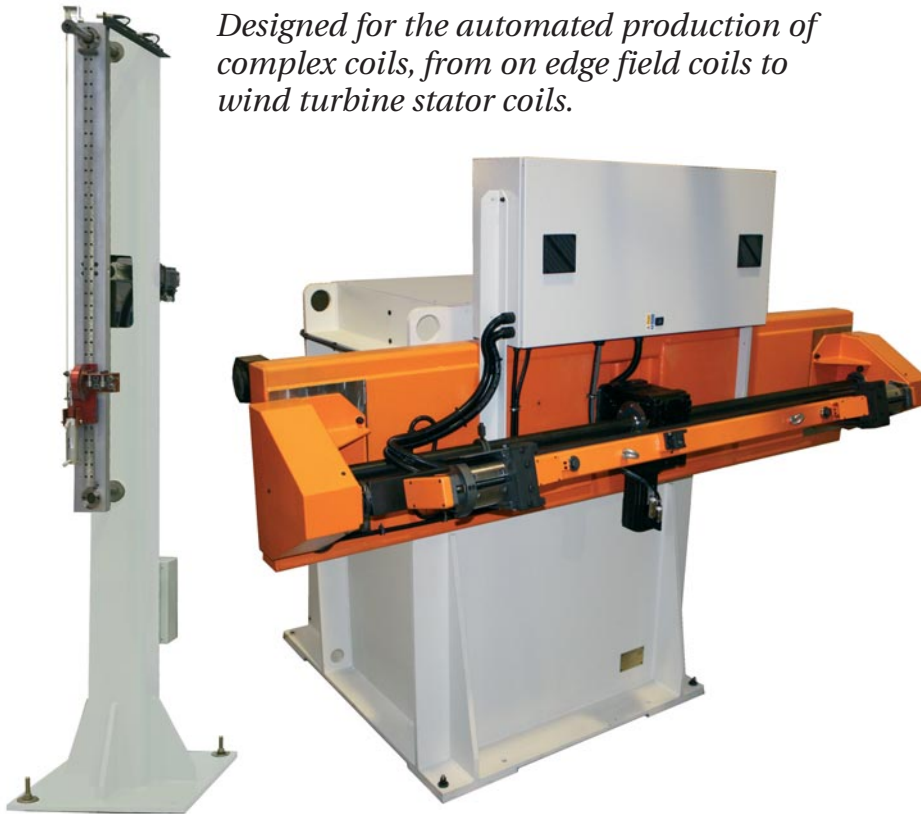


# Ridgway W-MAW

## NARROW COIL WINDING MACHINE WITH MULTI-AXIS BEAM AND COMPUTER CONTROLLED CONDUCTOR GUIDANCE SYSTEM



*Designed for the automated production of complex coils, from on edge field coils to wind turbine stator coils.*

### Automatic Multi-Axis Narrow Coil Winding Machine

**Improve production effectiveness by utilizing the Ridgway W-MAW.**

**Incorporating a programmable multi-axis winding machine with active drum tensioning and conductor guidance systems, the equipment ensures fast, consistent and high quality production of complex shaped stator coils.**

**Automatic winding without the need for operator intervention.**

#### Main spindle drive

▼ The W-MAW incorporates the latest servo drive technology. A variable speed geared motor directly drives the main spindle, providing a high torque capability throughout the speed range.

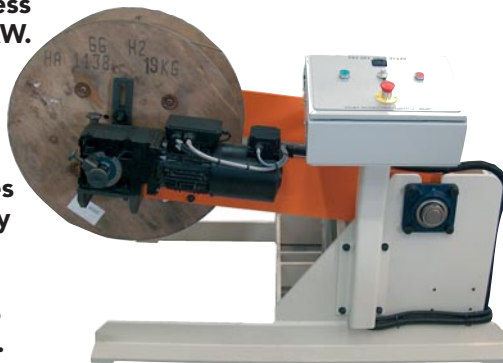
#### Multi axis winding beam

▼ Encoder feedback ensures accurate positional control of the winding beam. An additional servo driven gearbox, mounted directly to the winding beam also provides rotational movement of the coil tooling.

#### Conductor guidance

▼ Conductor guidance is provided via a free standing guide post to ensure vertical, horizontal and angular positioning is maintained.

Additional servo controlled conductor guidance can also be fitted to the coil tooling if required.



#### Drum stands

▼ Compared to the alternative of friction braking, the W-MAW offers a wear free solution with accurately controllable individual drum tensioning.

#### Capstan tension unit

▼ For optimum conductor control a range of pneumatically actuated single or double capstan tension units is available.

#### Operator control

▼ Easy to operate control console to enable operation of the machine, PC programming of winding sequences and adjustment of conductor tensions. Coil winding details can also be stored within the control system for future use.

### ▼ SPECIFICATION

#### Loop Winder

Maximum torque  
Up to 9000 Nm

Speed range  
0 to 10 rpm

Fully programmable

#### Winding Beam

Maximum length  
Up to 2.5 metres

Servo controlled beam positioning

Servo controlled tool rotation



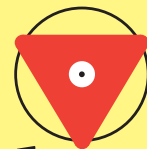
#### Capstan tension unit

Variable tension control

Adjustable guide rollers

Pneumatic brake override

*Top quality solutions to all your coil manufacturing requirements are only a contact call away...*



# Ridgway

## MACHINES

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