



Ingrid West Machinery Ltd

Celebrating Over **50** years est. 1968



We will exhibit at Coiltech 2019
25-26 September Pordenone, Italy



tickets available at www.coilwindingmachines.eu

Hall 5 Stand D04/5-E03

IWM are gearing up for the fastest growing international exhibition for the **Coil&Winding** industry. **Materials** and **machinery** for the production of electric motors, generators, transformers, and winding systems.



With a range of exciting new concepts to improve the efficiency of your coil winding and allied manufacturing operations.

We'll have live demonstrations of examples of most of our range,



Show Entrance

including new products and equipment.

Come and see us in Hall 5, stand D04/5-E03.

New E-300W "Industry 4.0"

The advanced design of the new Model E-300W incorporates "Industry 4.0" concepts.

This is the first in a new line of machines from ERASAN "value engineered" without losing our focus on maximum performance.

The new range of solutions has been designed for high performance, reduced cost and "state-of-the-art" control system.

The 300W represents a commitment to traceability, remote control and monitoring.

We have used a hardware platform which reads variables in "real time" and makes them available online accessible via a standard web browser.

Operators, managers, quality controllers and engineers can view the "live" information via the Internet from anywhere in the world using any "smart" device, for example, a laptop, tablet computer or even a Smartphone.

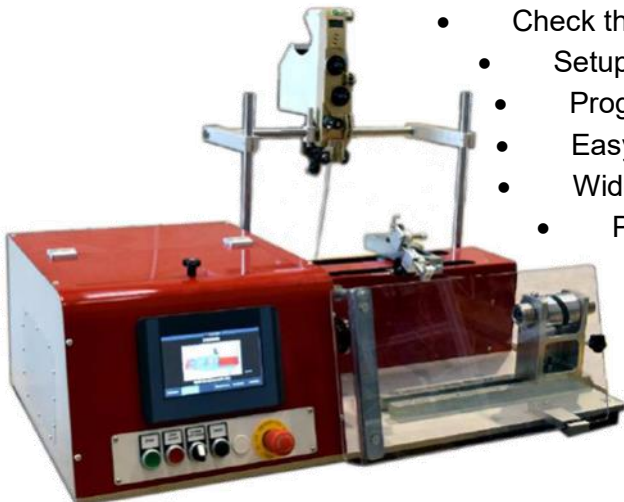


erasan
TECHNOLOGY



Built-in network functionality:

- Vast range of advanced winding functions, to complete the most complex of coil with ease.
- Save and recall programs from the main company server.
 - Check the status of the winding machine from anywhere in the world.
 - Setup using the touch screen or remote control using laptop or tablet.
 - Programs are easily searched and selected.
 - Easy back up to Cloud storage.
 - Wide range of speed and torque options.
 - Programs can even be documented & written in excel.

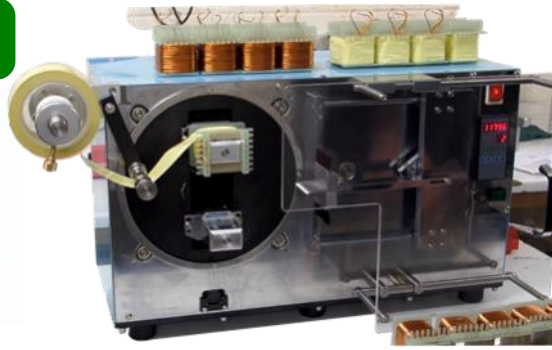


Automatic Core taping – Now available in three sizes

An efficient way to manufacture! A reliable process that is 100% repeatable, (over lap set by distance between spindles), never loses end of the tape and fast cycle times.

We have recently developed a much larger machine capable of larger cores and ferrites.

See it—Hall 5
Stand D04/5-E03



IWM “Flywinder” - ideal for winding *armatures* for small motors

Using the principle of “flywinding”, the product to be wound is held stationary and the turns are made by passing the wire around the product.

Now available in **single spindle version** for larger Core OD's

Special tooling feeds the wire through the gaps in the laminations and prevents damage to the wire insulation.

Winding speeds of up to 3000 rpm together with the twin-spindle configuration provide short cycle times and excellent productivity.



A large range of “winding shop” accessories



Working with local partners throughout Europe

Austria-Czech Republic-Germany-Hungary-Poland-Portugal-Romania-Slovakia-Slovenia-Spain

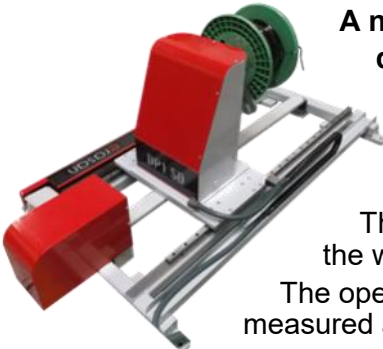


The high levels of foil tension that are required are generated by powerful geared servo motors in the de-coiler and winding head, monitored and synchronised by the advanced industrial motion control system.

Using higher foil tension improves the performance and characteristics of the finished coil.

Electronic sensors detect the position of the foil and paper edges, to ensure precise alignment throughout the winding process.

Design flexibility provides for various combinations of conductors, interleaved insulation and edge fillers, together with a choice of cold pressure or TIG welding of terminals.



A new generation for profile wire tensioning and de-coiling, providing improved control of higher wire tensions required for larger wires. Working in **“torque following”** mode, the torque to the winding axis is monitored and the reverse torque to the de-coiler is controlled to provide the required tension.



The servo-driven de-coiler monitors the exact wire exit position to keep perfectly in line with the wire guider, reducing the factory space requirement.

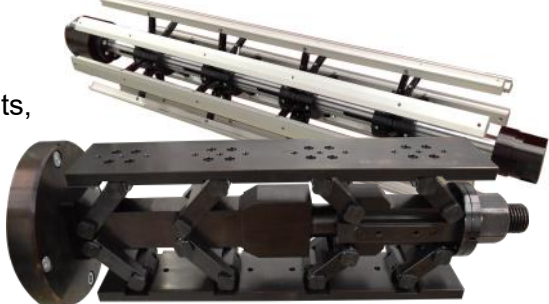
The operator can program a digital tension value that is measured and kept constant during the winding cycle.

See it—Hall 5 Stand D04/5-E03

Our innovative **electronic tensioners** (right) are now available for wires up to 3mm. These reduce the possibility of operator error, improve process control and repeatability by providing tension values that are **set digitally**, either in the **main winding machine software**, or via a standalone controller. New models available for larger wire sizes and profile wire under higher tension.



Expanding mandrels (right) are available for all types of foil and strip, including copper, aluminum and paper. Custom built to your requirements, they are optimised for speed and ease of operation in the workplace.



The E-900 **Switch Gear Box** machine (left), is set up for maximum **versatility**, this example is fitted with 8 horizontal despoilers for profile wire and 6 programmable electronic tensioners for round wire. A wide range of transformers can be made without having to re-thread the wire - simply change the tooling and switch program, and you're ready to wind.

Ideal for **short production runs** !

The **standard range** of Erasan winding machines is available with bed sizes from 300mm to 4 meters, with available torque of over 1400 Nm.

We are happy to build special machines according to our customers' specifications and requirements.



Bench-top coil winding machines – Manufacturing with low capital cost

IWM are the exclusive European partner of Wey Hwang. We've been working together for over 21 years, and this close co-operation between our two companies has produced many improvements in design and quality of our bench top winding solutions.

With improving market conditions come new challenges. Many businesses find that they require increased manufacturing flexibility - the ability to respond to changes in demand quickly, and to exploit new opportunities when they arise.

IWM's range of semi-automatic bench-top machines provide manufacturers with an entry route into new and developing markets with a capital expenditure that is often less than the cost of tooling and setup for an automatic machine.

We keep most popular machines in stock in our UK warehouse ready for immediate despatch, and we can assist with design and manufacture of tooling. IWM even supply machines fully tooled and programmed - "ready to wind", straight out of the box.

So next time you have a new product to manufacture, consider using one of our cost-efficient bench-top solutions to reduce your time to market and stay one step in front of your competitors.

Model	764	800i	751	752
				
No. Spindles	4	1 or 2	1	2
Max Wire size (mm)	0.6	0.6	3.0	1.6
Max pitch (mm)	10	10	20	10
Max winding width (mm)	100	110	300 700 (optional long bed version)	110
Max bobbin dia. (mm)	100	110	200	110
Max speed (rpm)	6000	6000 / 3000 (choice on order)	1600 / 400 (optional high torque ratio) 3000 / 800 (belt changeover)	3000
Power	AC 230 / 110 V ± 10%, 50 – 60 Hz			
Dimensions (mm)	1000 x 500 x 1000	760 x 680 x 720	950 x 520 x 600	600 x 480 x 900
Net weight approx (kgs)	60	37	68	55

Ingrid West Machinery offer a sampling service. Send us a bobbin and wire, and we can wind it, establish accurate cycle times, and then return the wound sample to you for your evaluation of winding quality.

