



Product Focus

www.coilwindingmachines.eu

**CWIEME
BERLIN**

www.coilwindingexpo.com/berlin
5-7 May 2015 Messe Berlin

CWIEME 2015 - see us in Hall 4.2 Stand 42B48



IWM are gearing up for the biggest and busiest coil winding show of the year, with live demonstrations of new products and exciting new concepts to improve the efficiency of your winding operation.

Don't forget to call in and see us — you'll find us upstairs in Hall 4.2, stand number B48.



CWIEME 2015 tickets available now at www.coilwindingmachines.eu



Foil Winding Machines

Foil winding machines for Low Voltage applications.

A touch screen with graphical user interface and sophisticated “teach-in” functions provides easy programming of automated work cycles for maximum output and productivity.

The high levels of foil tension that are required are provided by powerful geared servo motor system for both 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.



Ingrid West Machinery Ltd, Unit 5L, Delta Drive, Tewkesbury, Glos, GL20 8HB

Web: www.coilwindingmachines.eu Phone: +44 (0) 1684 273164

E-mail: enquiry@ingridwest.co.uk Fax: +44 (0) 1684 273171





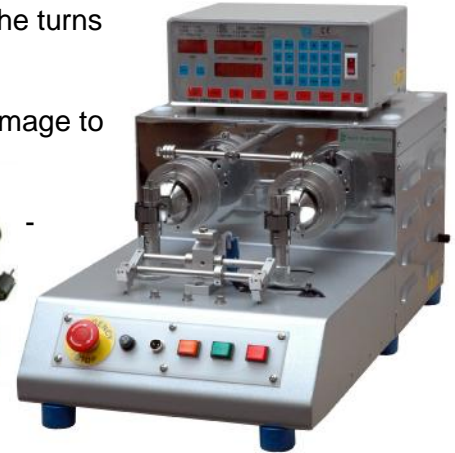
Benchtop "fly" winding machines

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.

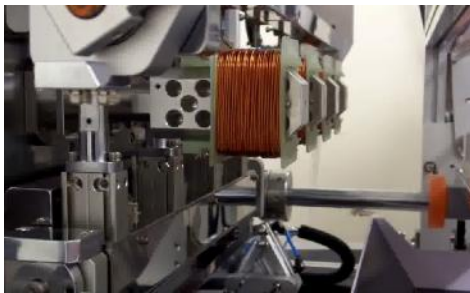
Special tooling feeds the wire through the gaps in the laminations and prevents damage to the wire insulation.

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



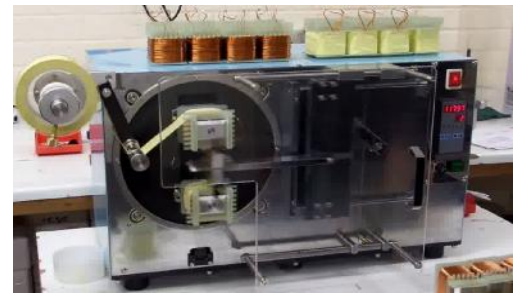
**See the live demo
CWIEME Hall 4.2 Stand B48**

Multi spindle winding machines—an efficient way to manufacture!



A recent delivery from IWM, producing EI-84 transformers on a 4 spindle machine with automated loading and unloading of bobbins.

During the winding cycle the operator tapes the coils. Seven taps & two taping operations are carried out in under sixty seconds.



A whole range of "winding shop" accessories



**Working with local partners throughout Europe
Austria, Czech Republic, Germany, Hungary, Poland, Portugal,
Romania, Slovakia, Slovenia, Spain, Sweden**

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The new E-900 "Servotech"

See the live demo
CWIEME Hall 4.2
Stand B48

The Model E-900 sets new standards for power, control and energy efficiency in winding machines for large coils and transformers.



Two-speed gearbox with electronic gear change — provides maximum versatility for fast winding at high speed, whilst smoothly delivering the necessary torque at lower speeds.

A new generation in profile wire tensioning and de-coiling.

Erasan are **listening** to their customers and working to improve control of the higher wire tensions required for larger wires. Working similar to a foil machine in "**torque following**" mode, the torque to the winding axis is monitored and the reverse torque to driven de-coiler is controlled according to the required tension.

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

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



Colour touch screen for fast and simple setup, dust proof for reliability. The intuitive software provides the user with a choice of up to 5 different operating languages. The logically arranged programming screens clearly display every function that the operator might need. Programs that can be easily searched and selected are stored on an **SD card** for easy back up.

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 will be available soon 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, these are optimised for speed and ease of operation in the workplace.



Shown left is the 900 **Switch Gear Box** machine, 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, 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.

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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 16 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	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.

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