



# Product Focus

[www.ingridwest.co.uk](http://www.ingridwest.co.uk)

## An economic production tool for air coils

using thermo-plastic coated wire. As the wire is wound onto the former, the turns are bonded together by means of a controlled stream of hot air. The former is then removed and the finished coil is ejected from the machine. The machine is equipped with a CNC controller, clamp/cut unit, coil eject and tool cleaning system for fully automatic operation.

Suitable products include: RFID coils, laser heads, voice coils, magnet coils, sensor coils, vibrator coils and pancake motor coils.

See this machine on our stand at CoilTechnica 2010.

### Main features:

- Automatic clamp/cut system, layer winding, material unloading and cleaning of the tool during each cycle, dispensing oil release agent if required.
- Fine programmable pitch control enabling precise layer winding.
- LCD screen for easy setup, with options for PC link.
- Wire tensioner with magnetic braking provides constant tension.
- Synchronous drive tailstock ensures precise tool alignment and allows for smaller core ID's.
- Temperature of the hot air system is freely programmable.
- A highly compact machine with small "footprint".



New Show! See us at CoilTechnica

Hall 6  Stand E25

**HANNOVER  
MESSE**

19.-23. APRIL 2010

See our website to make a stand appointment

[WWW.INGRIDWEST.CO.UK](http://WWW.INGRIDWEST.CO.UK)

CoilTechnica is a new flagship trade show within the famous Hannover Messe - "the world's most important technology event".

CoilTechnica will be complemented by a congress focussing on technological trends and issues concerned with coil winding, transformer and electric motor manufacturing technology.



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COIL WINDING MACHINES



# Fully automatic multi-spindles

Hannover Messe  
19.-23. APRIL 2010  
"CoilTechnica" - Hall 6  
See us on Stand E25

## Multi-spindle winding machines - high technology that you can afford.

New series with industrial pc and advanced multi-axis motion control card for fast simultaneous axis movement and high precision during the winding process.

To discuss your application in detail at CoilTechnica, please call in and see us at Hall 6, Stand E25.

### Main technical specifications

No. of spindles	4,6,8,12
Wire size	0.02-0.5 mm
Max traverse width	85 mm
Spindle pitch	105 mm (4 spindle version)
Max bobbin diameter	100 mm – 50mm if load unload system used
Spindle speed	Up to 18,000 rpm
Spindle position accuracy	+/- 0.1°
Guide head drive motor	200W AC servomotor X , Y and Z axis
Max movement of guide head	X (left/right) 100 mm Y (front/back) 75 mm Z( up/down) 65 mm
Nozzle positions	0°, 90° or 120°
Max pin wrap speed	150 Turns / min
Control system	Windows interface PC with USB connector & DVD ROM, 15 inch Colour Touch screen



See this machine at  
**CWIEME 2010**  
Hall 1.1  
Stand 1315



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

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COIL WINDING MACHINES



On show at CoilTechnica will be the latest development in winding machines for mid range power transformers (up to 600 KVA). The all new EZ-900 is packed full of features for maximum productivity.



**Colour touch screen**—a 12" touch screen (left) makes for easy, intuitive programming, and the powerful computer allows up to 5 different program languages to be stored on the system. The logically arranged programming screens clearly display every function that the operator might need.



**4-ratio quick change spindle drive**—provides maximum versatility for fast primary winding at high speed, whilst smoothly delivering the necessary torque at lower speeds. The EZ-900 is capable of pulling the heaviest of wires.

As with all Erasan machines, the build quality is second to none - the robust welded chassis is fabricated in galvanized steel, and the machine covers in stainless steel.

Built to last, the EZ-900 will look good and perform well on your shop floor for many years to come.



**TECHNICAL CHARACTERISTICS.**

Wire and profile wire .....	0.01 – 10mm
Max winding length .....	800 mm
Max distance between points .....	900 mm
Max Winding dia .....	500 mm
Guider precision .....	0.01 mm
Main shaft motor .....	5 HP / 3.7KW (15Nm)
Guider motor (Brushless) .....	0.4HP / 300W (2.2Nm)
Winding shaft speed .....	0 – 3,000 r.p.m*
approx Torque Values .....	3000 rpm - 15 Nm
(*Gear box with 4 positions) .....	2000 rpm - 19 Nm
(Quick gear change by levers) .....	500 rpm - 78 Nm
.....	330 rpm - 117 Nm

For heavy duty winding applications the machine accessories can be just as important as the machine itself to achieve maximum efficiency and quality in your product.

Our tensioning systems for large wire apply a braking force to the supply spool rather than the wire itself in order to protect the insulation from any possible damage.

Our range of 1, 2, 4 & 32 spindle tension units use hydraulic callipers on a disk brake for precise control of the braking force.

Simple and convenient pneumatic controls allow the operator to adjust tension according to his requirements.

For smaller round wire (up to 5mm) there is a pneumatically controlled version with conventional braking of the wire.

Of course, almost 70% of accessories provided with our machines are custom made.

Your local representative will be pleased to provide information and advice on suitable tensioning systems for your particular application.





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

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See us on Stand E25





**IWM are the exclusive European partner of Wey Hwang. Over 10 years of close co-operation between our two companies has produced many improvements in design and quality of our bench top winding solutions.**

The availability of long term production contracts is in some doubt with current market conditions, and variety of product is ever increasing. Many companies are looking to increase their flexibility and ability to adapt to new products quickly, at minimum levels of capital expenditure.

How can this be done?

One way is the use of bench-top machinery. IWM's range covers most production requirements - at a capital cost which is often less than tooling and setup costs of an automatic machine.

So next time you have a new product to manufacture, consider the bench top solution. With machines usually in stock in our UK warehouse (17 at time of print) and our fast, in-house tooling development option, you could be producing within one week.

Model	764	800i	751	752
				
No. Spindles	4	1 or 2	1	2
Max Wire size	0.6 mm	0.6 mm	3.0 mm	1.6 mm
Max pitch (mm)	10 mm	10 mm	20 mm	10 mm
Max Winding width (mm)	100	110	300	110
Max Bobbin dia. (mm)	100	110	200	110
Max speed (rpm)	6000	6000 / 3000 / 1600 (choice on order)	1600 / 400 (belt changeover) 3000 (optional ratio)	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 (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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