



Product Focus

www.coilwindingmachines.eu

An economic production tool for air coils

using thermo-plastic coated wire. This machine was purpose-designed for efficient manufacture of air coils in high volume with fully automatic operation. The wire is wound onto a former and the adhesive is activated by a controlled stream of hot air, bonding the turns together. The former is then retracted and the finished coil is ejected from the machine.

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 CWIEME 2010, Hall 1.1 Stand 1315.](#)

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".



CWIEME BERLIN 2010 - come and see us in Hall 1.1, Stand 1315
Register for free tickets on our new website:

www.coilwindingmachines.eu

CWIEME Berlin - the largest dedicated coil winding event in the world, see the biggest number of suppliers under one roof, as well as the International Conference for inductive and electromagnetic components, systems and devices - INDUCTICA 2010.

The World's largest International Coil Winding, Insulation and Electrical Manufacturing Exhibition and Conference

CWIEME 22 - 23 - 24 June, 2010
Berlin Messe Berlin Germany



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COIL WINDING MACHINES



Fully automatic multispindles - high level integration

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 CWIEME, please call in and see us at Hall 1.1, Stand 1315.

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



Recent delivery - an insider's story

IWM were proud to develop a solution together with our customer, who wanted to get away from taping at end of the winding cycle.

Their application left the end wire in middle of chamber, and required a fixing point to bend 90° to exit the bobbin.

We integrated a glue system, with dispenser and UV curing head mounted next each guide tube, with fully programmable positioning, and macros to purge individual glue heads. See a video tour of the machine on our website.

www.coilwindingmachines.eu/tour.html

See these machines 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

IWM announce our brand new website.

After many months in planning and development, we are pleased to launch our new website

We've made it cleaner, even easier to navigate, and quicker to find the information you are looking for.

You'll find a wealth of resources, from machine datasheets in many languages, to product examples and videos of our innovative winding solutions in action.

Our popular "Engineers corner" section is now updated with even more useful information. Technicians and engineers will find winding wire data, online calculators and converters for linear and toroidal applications.

We'll be adding lots of new information over the next few months, including more video of interesting applications and solutions. We would welcome any feedback or suggestions you have.



erasan COIL WINDING MACHINES *The all new EZ-900*

See this machine at
CWIEME 2010
Hall 1.1 Stand 1315

On show at CWIEME 2010 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

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

The ability to produce new products quickly is often the key to entry into new markets. Many of our customers are looking to improve their reaction time in order to exploit the new business opportunities that will arise as market conditions improve following the recent financial turmoil.

IWM's range of bench-top machinery offers quick setup for most production requirements - at a capital cost which is often less than the typical 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, and using our fast, in-house tooling service, you could be producing within one week.

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.

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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