



# PRODUCT FOCUS

Ingrid West Machinery Ltd

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

October 2002



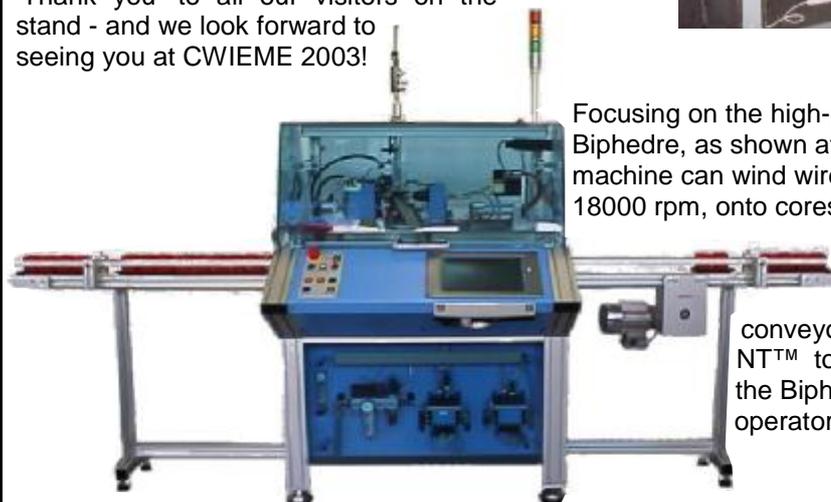
## Berlin CWIEME 2002 - a incredibly successful show!



Berlin is a wonderful city to visit, and when the occasion is a trade show like CWIEME it's a 'must' for the Ingrid West team! Our much-extended stand was awash with visitors from all over Europe, both inside and outside the EU.

We demonstrated a GS-Automation Biphedre on the stand, as well as our full range of toroid and bobbin bench-top winding solutions - and the new Air Coil Winding system, built round our do-everything WH 751, with hot-air facility and specially designed tooling (see our [page 3 model](#)).

'Thank you' to all our visitors on the stand - and we look forward to seeing you at CWIEME 2003!



Focusing on the high-precision workings of a GS-Automation Biphedre, as shown at CWIEME 2002. This free-standing automatic machine can wind wire from 0.01 mm to 1 mm in diameter, at up to 18000 rpm, onto cores from 0.3 mm to 80 mm in diameter.

With options to fit a skeiner or a loading system for cores with unloading to a box, conveyor or turntable cassette and with Windows NT™ touch-screen interface for easy programming, the Biphedre is a very affordable precision operatorless winder for hot-air bonded coils.

### "Not a lot of people know that....."

Elsewhere in this issue we mention some of the facilities we can provide, that may surprise you. But did you know that we can.....

- p** Wind plastic **curtain-rail**, **platinum** strand, **lead solder** or **fishing-line**, as well as copper wire
- p** **Spiral-wind** wire around wire
- p** Wind **metal strip** onto bobbins as large as Din 160
- p** Design and supply **tooling** and **machine adaptation**, from **mandrels** to semi automatic **air coil** formers
- p** One Wey Hwang 751 machine can handle wire from **0.06 mm** to **3 mm** diameter, Great for prototyping!

*If ordinary winding machines can't handle your job...  
...give us a ring; we will be happy to help!*

#### Contact us at...

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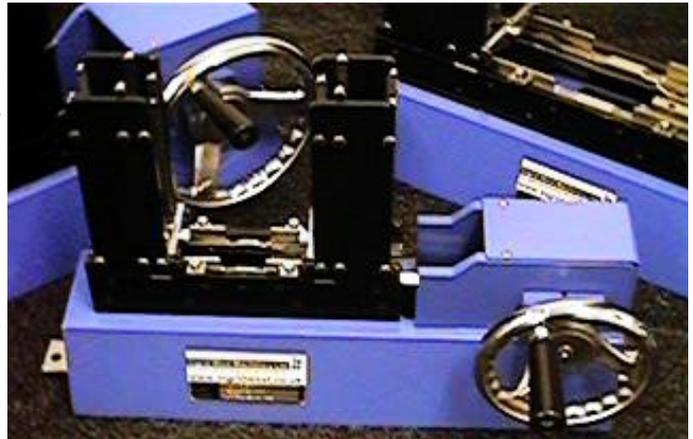
# Hand lamination machines...

## Why are they so popular?

You may already know that **IWM** offers a range of hand laminations machines - but what makes them so good?



Firstly, let's talk about what we can offer. The range is from EI-19 right up to EI-162, however, unlike more expensive versions, each unit is designed specifically for one size of lamination only. Yet we still insist that **you the customer** send sample laminations to us, to enable a custom setup of the machine.



How many of you have found that an EI 42 lamination is slightly different from two different suppliers?

We ensure that the machine is **running smoothly** before leaving our factory, that way there is **no setup to do**.

Others claim a versatile option of "one machine can do them all", but what is the benefit when it can take hours to get reliable smooth operation after a size changeover, especially if you only need a few samples? how much do they cost? You may still get a bottleneck at the lamination station if there is only one machine available, but when using different types, you would have a machine for each, reducing this congestion.

Our system is simple; put the machine back into stores, left ready for the next time you need that size again! (**no setup to do**), if you need another size then simply get one from us, they are a fraction of the cost!

## Core taping machine

### Keep things simple...

The WH1200 Core taping machine is designed for maximum flexibility and operation.

To program, simply use the count up/down counter to set the number of turns to tape, the head has a ratchet so that it will not let the core unwind due to tape tension, the height of the tape is adjustable to stop spiralling turns and keep the winding even.

It has a foot switch for optimum productivity, and there is no special tooling required for each bobbin as the independent four jaw chuck accept sizes from 15 mm x 5 mm to 63 mm x 63 mm and uses Magnetic pads (mounted on the jaws) allowing the operator to simply drop in the core... fast operation (Max speed 90 rpm)

The package has a compact design, single-phase power supply with a footprint of 250 x 300 x 240 mm and net weight of 11 kg, it can easily fit on the same bench, alongside the winder



**So while the operator is waiting for a winding to finish, why not give them something else to do!**

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# WH 751 Air coil winder with hot air bonding.

Many people believe that it is impossible to make high-quality air coils on a bench-top machine...  
**but with our new system you can do it!**

Advantages of making your own air coils include:-

- Ultra Fast** turn-around for prototypes
- Full **control** over the entire production process
- Flexibility and **cost** control

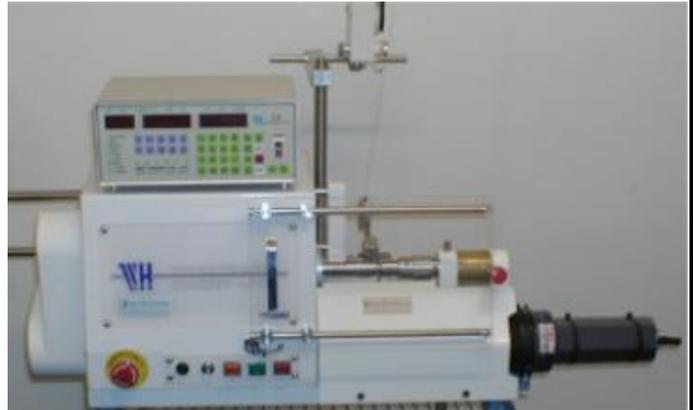
All you need is:-

- A Wey Hwang 751 air coil winding package
- Tooling design and manufacture
- IWM** know-how!

Package includes:

- b** WH-751 bobbin winding machine
- b** Tensioner and wire guide as required
- b** Safety heat shield
- b** Heat gun
- b** Manual tailstock

**Capabilities:** Cores from 2.5 mm – 90 mm diameter  
 Wire from 0.06 mm – 0.7 mm diameter  
 Coil width up to 20 mm

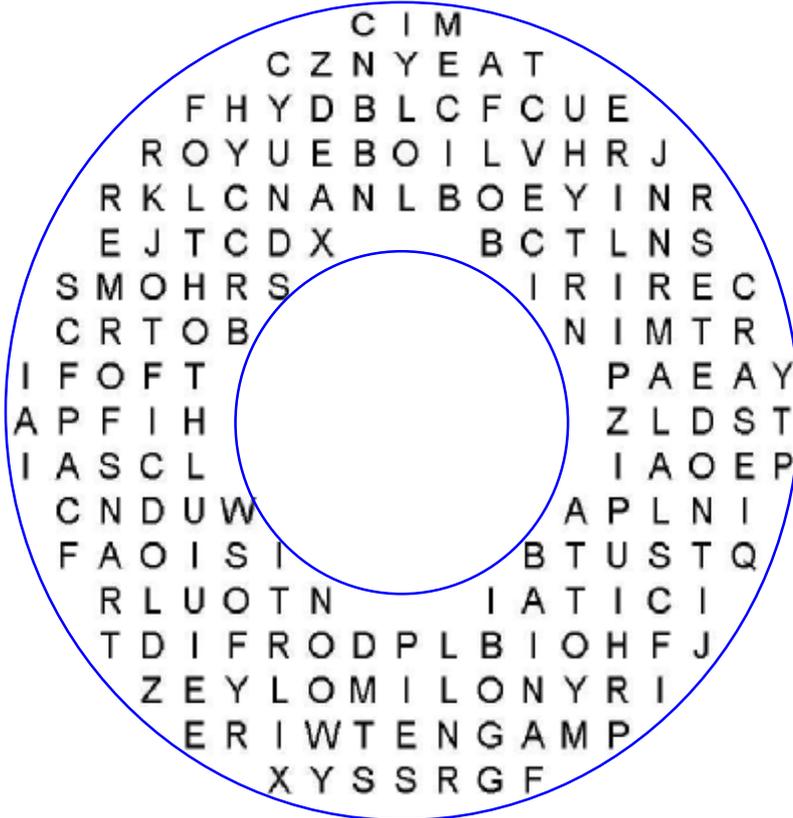


Precise control of the heat-gun air temperature and air flow rate, and exact positioning of the nozzle, warm the wire and the tooling just enough to guarantee perfect bonding of wire to wire, whilst releasing from the tool at the end of the cycle.

**With an investment of \*\*\*\*\***

**you could be making air coils to your "own design" within two weeks.**

\*Note: Tooling cost varies depending on coil complexity and is subject to individual quotation.



## The IWM Wordsearch

Last edition had a crossword, this time it's a wordsearch...

Can you find these words hidden in the toroid?

Find these words:-

- Adaptable**
- Affordable**
- Aircoil**
- Benchtop**
- Bobbin**
- Choke**
- Coilwinding**
- Customer**
- Cycletime**
- Inductor**

- Machinery**
- Magnetwire**
- Pitch**
- Reliability**
- Rfid**
- Solutions**
- Tension**
- Toroid**
- Transformer**
- Turns**

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# The innovative Wey Hwang controller



**“Full of features”**

**“Quick to set up!”**

<i>The Wey Hwang feature</i>	<i>The benefit to you</i>
You <b>use buttons, not screwdrivers</b> , to set up a Wey Hwang machine	Fast turnaround, <b>better productivity</b> on short runs and 999 <b>repeatable</b> winding set-up's
<b>Spindle lock</b> control during 'idle' mode	<b>Holds</b> the coil steady for wire wrapping at start and finish
<b>Optional Pause</b> between windings	<b>Allows 'taps'</b> between windings - or <b>multi-chamber</b> coils can be wound <b>automatically</b>
<b>Reverse spindle</b> or <b>traverse</b> directions	Wind <b>the way you want to</b> -not the way the machine wants you to
Set <b>start position</b> and <b>winding width</b> by jog buttons or by keyboard entry	No 'sums' needed - <b>set winding head positions by eye</b> ; it's much quicker! and produces a better wind
Option to set next start position directly from the previous end position	Useful to get the <b>finish wire</b> to the <b>edge</b> of the winding chamber.
Optional <b>footswitch</b> operation	Allows <b>hands-free</b> starting and continuation of winding
Control <b>acceleration and deceleration rates (ramp angle)</b> , as well as start & finish low speed turns	<b>Minimises stress</b> on thin wires (and operators!), reducing wire breaks and wasted time



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Your Company : \_\_\_\_\_  
 Contact Name: \_\_\_\_\_  
 Position: \_\_\_\_\_  
 Address: \_\_\_\_\_

**Change your details:-**

We no longer wind coils, please remove us from your database

Our address has changed, as shown on the left

Please add my colleague to your mailing list: Mr/Mrs/Miss/Ms/Dr

Position \_\_\_\_\_

Telephone: \_\_\_\_\_ Post Code: \_\_\_\_\_  
 E-Mail: \_\_\_\_\_ Fax: \_\_\_\_\_

**We want to wind** toroids / bobbins / air coils / RFID / chip wound inductors / automation products

With **wire of diameter**  mm (or, we are interested in your machine )

**Or** We are interested in transformer lamination fitting machines / solder pots / wire handling equipment .

**Let's talk!**

## Need a sample ?

**IWM** offer an excellent toroid sampling service. From the bare toroid specification, we select the best equipment to use, wind your samples and return them to you together with example production times, quotation etc. We can then demonstrate the machine to get your production started, at *your* premises, at *your* convenience.

**All this is available to you absolutely free. Talk to us—we'll listen!**

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