



PRODUCT FOCUS

Ingrid West Machinery Ltd

www.ingridwest.co.uk

October 2002



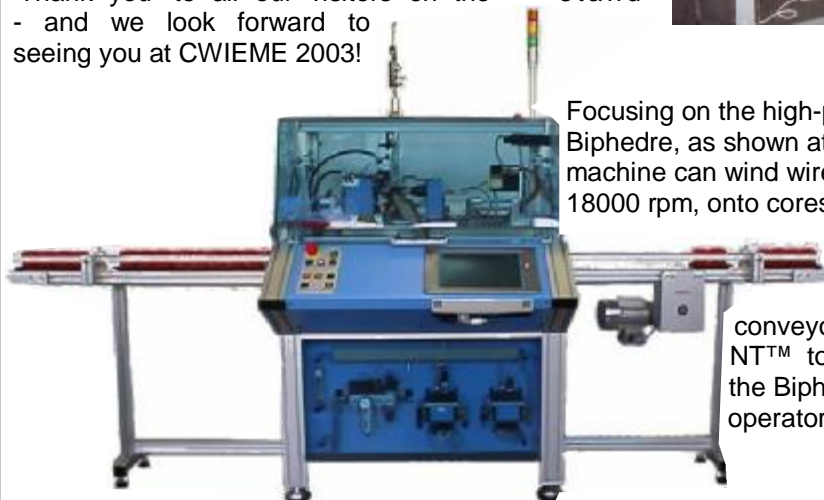
Berlin CWIEME 2002 - a incredibly successful show!



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...

Post: Ingrid West Machinery, Unit 5L, Delta Drive, Tewkesbury, Glos, GL20 8HB, UK
Web: www.ingridwest.co.uk **Phone:** +44 (0) 1684 273164
E-mail: enquiry@ingridwest.co.uk **Fax:** +44 (0) 1684 273171





In our last newsletter we introduced the GS-Automation management system, software used on virtually every machine made by GS-Automation.

This time we will show you several systems which do not fall into the category of standard Winding and Automation systems.



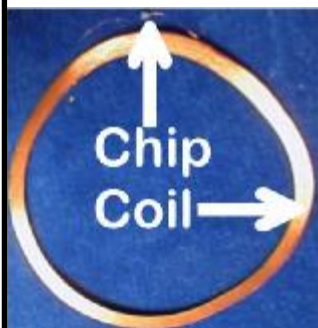
GS-Automation are consistently pushing back the boundaries of what's possible in Automation Winding; 10-micron wire is routine for us, and we would like to demonstrate that we are the specialists in applications other Winding machine manufacturers cannot solve.

To stay competitive in the European market the target must be **Automation**.

"We are Automation people..."

...Automation is our strength"

RFID: We would like to introduce our fully automated line for "E-units" antenna-coils (tags). For NDA reasons we can only give you a brief description. We want to provide information that will give you an idea of our capabilities.



Working Process:

- To produce 3 different air coil sizes using Wire: 0.024mm - 0.085mm thermo bond
- Automated loading of chips/modules from taped SMD reel.
- Bond start and finish leads to chip with GSA patented Thermo compression system.

- Full functional testing and pre programming.
- 3-axis unloading system to transfer to encapsulating system (trays, boxes, conveyor)

More than just winding!

GS-Automation S.A. Multi - axis Laser cutting system

Another example of our innovation and strength to build high-tech Automation-systems to customer requirements.

Specification:

User: Medical
Data: X- Axis : 1000 mm
 Y - Axis : 500 mm
 Z- Axis : 200 mm
 Max. surface: 500 x 1000 mm

Cut depth tolerance: +/- 0.01 mm
 Cut length tolerance: +/- 0.01 mm
 Circular interpolation tolerance: +/- 0.01 mm
 Control system: Multi-Axis CNC ISO



Do you have a process you want to automate? Speak to the experts

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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

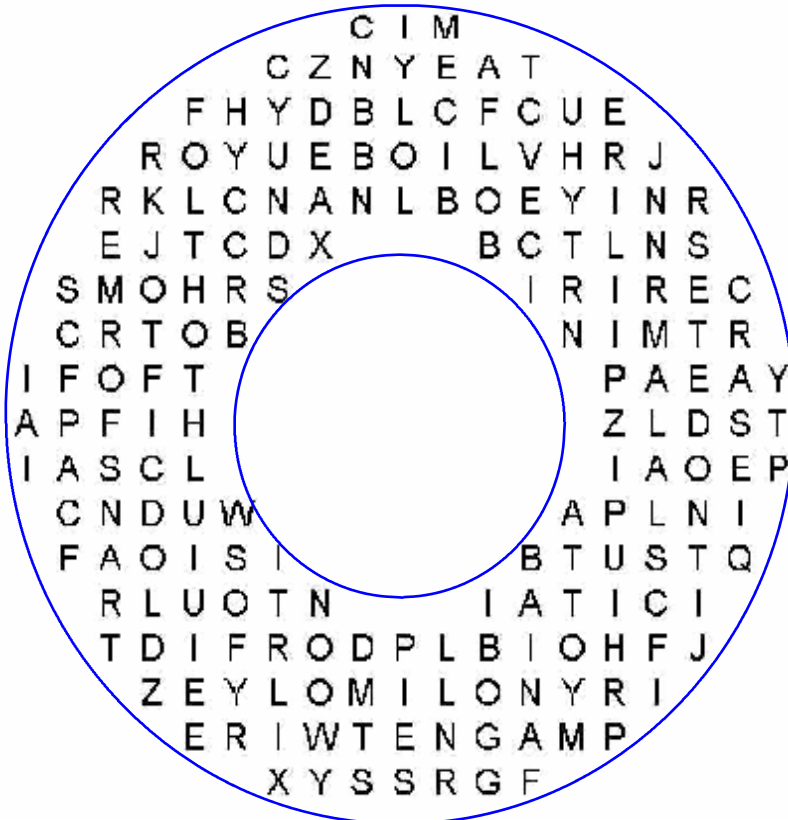


Precise control of the heat-gun air temperature and air flow rate, and exact positioning of the nozzle, warm the wire and the tooling just enough to guarantee perfect bonding of wire to wire, whilst releasing from the tool at the end of the cycle.

With an investment of *£5000...

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



**Ingrid West
Machinery Ltd**

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Your Company : _____
 Contact Name: _____
 Position: _____
 Address: _____

Telephone: _____ Fax: _____
 E-Mail: _____

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 _____

Post Code: _____

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 trans-chines / solder pots / wire han-

former lamination fitting ma-
dling 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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