

Welcome to The Specialists in Coil Winding

Core Winding

Toroidal Winding

Linear Winding

Multispindle Winding

Foil, Strap & Vertical Winding

Stator Winding

Automatic Production Lines

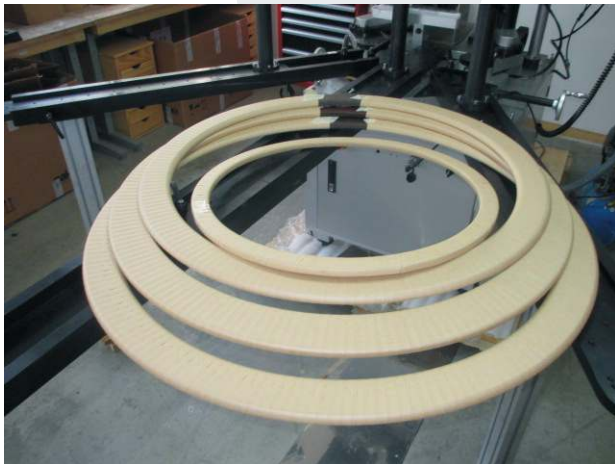


Exhibition Catalogue
CWIEME Berlin 2013





The VC-FLOOR
Largest Horizontal Toroidal
Taping Machine in the world



Typical Splash Rings with multilayer taping



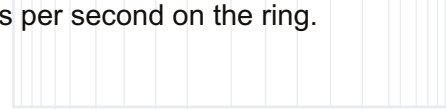
The Taping Machine with 4 metre large ring

Largest Horizontal Toroidal Taping Machine in the World

VC has designed and built the “Largest Horizontal Toroidal Taping Machine” ever made.

It can operate cores from OD 400 mm to OD 4 metres.
It works with 2 heavy servo motors for head and core drive. The head is on a slide and can be moved back for easy take out of the finished ring.

The table is quickly extended from small to large.
The ring clamping system is with modern pneumatics. Two tape dispenser make 4 turns per second on the ring.



Our company is specialized in design, development and manufacturing of state of the art Toroidal Winding Machines in Germany.

We also offer Linear-, Foil-, Strap-, Vertical- and Multispindle Coil Equipment, as well as Automatic Lines and Toroidal Core Winders.

With 30 years experience, we provide professional consulting and installation at customers site and after-sales service from one source.

Speak to our experts about the best winding solution for your specific needs.

See you on our Stand No. 2000 in Hall 2.2

Louis Steven Veress
Managing Director

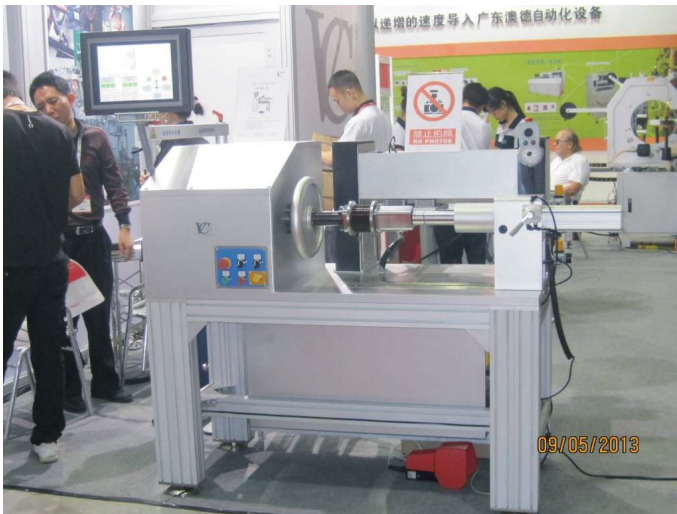


The DSW-6008PC Multispindle Winder

Detzo + V&C GmbH proudly announce VC's new exclusive Distributorship of Detzo Coil Winding Equipment for the EU.

Detzo is one of the market leaders for Multispindle- and Stator Winders as well as Automatic Lines.

See the new Detzo 8-Spindle Winder on our Stand.



The Edge Winding Machine Modell 500

We introduce our newly developed State of the Art Edge Winders, designed and developed for the booming demand of edge wire wound coils, such as transformers used in the solar industry.



The machine models 300 is for small coils and model 500 is for larger coils.

The machines are with extra pneumatic wire guide systems and strong motors, which are needed to create the huge torque which Edge Coil Winding needs.



Typical edge wire wound coil with copper wire 5x20 mm

Coil Winding Details





LARA

The 4 Band Core Winder from Lara

Lara has newly developed a semi-automatic 4-Band rectangular core winder which is able to wind rectangular or cores with 4 different strip widths.

Band position is done automatically. Up to 4 de-coilers can be controlled by the winding machine.

BF has advanced their cold press technique and is able to weld 3 foils together to the coil-connection bar.

Therefore the popular BFL machine series can be supplied with 3 foil winding groups with TIG or optional cold welding system.



The Popular Machine Series
BFL 600, BFL 900, BFL, BFL 1000, BFL 1500

The Advanced Cold Welding Technology from BF:



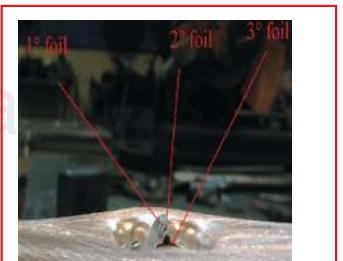
Welding-Stamps



Cold Welding



Connection Bars



Finished Application 3 Foils



Since industrialization has started, toroidal transformers have been replaced by EI transformers as these became simpler and cheaper to produce.

However, it is beneficial to have a toroidal transformer if you need an efficient way to transfer electrical energy from one circuit to another and at the same time maintaining a steady frequency. Toroidal transformers have been designed for this purpose and to take advantage of electromagnetic induction. They are highly efficient and the small magnetized portion doesn't affect much on the other electrical components.

The core is made from silicon steel or iron or ferrite and it's shaped like a ring which eliminates air gaps. A magnet wire is wound around the ring and covers the complete cross section. This technique reduces the strength of the magnetic field which is created by the core and makes the grade of interference with other components negligible.

Therefore, year by year the demand for toroidal transformers is growing and your customers may ask for toroidal transformers not only because they are smaller, lighter and quieter but especially because they are more variable in shape than other transformers. Thus you may be in need to make a toroidal transformer with a specific configuration and you will need to find certain coil winding and taping equipment for this job.

Speak to our experts about the best winding solution for your specific needs. We offer the most extensive range of toroidal winding machines from 1mm Core ID up to 4 meters Core OD to meet your particular needs.

Our modular design of interchangeable heads & magazines helps you to cover your applications at a very economical way. With over 500 different magazines, 30 different winding heads and 10 different roller tables you can be sure to find exactly what you are looking for...

The popular Toroid Winders MINI, STANDARD, HEAVY and FLOOR are available in 2 different versions:

The LCD Machine Series



- Double servo motor technology and controls from Panasonic
- VC quick programming system, with 6 parameters in 1 minute
- Modular design with over 500 magazines, 30 heads and 10 tables

The PC Machine Series



- Hi-End machines with Jetter PLC control and Jet move servo controls
- PC Touch Screen, Windows XP Software
- Network, USB, Ethernet, W-LAN, Automatic Programming Calculation and more

The DH Machine Series

The LCD Machine Series



The PC Machine Series



Our newly developed and patented Double Head Machines are available in 2 different versions.

The BW series are very popular low price bobbin winders for usual coil windings. The LCD series are designed with microprocessor controls and servo motor technology for precision coil windings.

We offer consulting, installation and after sales service from one source.



The Bobbin Machine Series

Our Bobbin Winders are designed for small simple coils and feature:

- Economical
- Industrial Production
- Small space required
- Simple to operate
- VC-Quick-Programming-System with 9 programming parameters in less than 1 minute with all major functions known in today's bobbin winding industry.
- Set up in very short time. New operators can handle the machine immediately with clearly positioned buttons and switches
- Made in Germany.

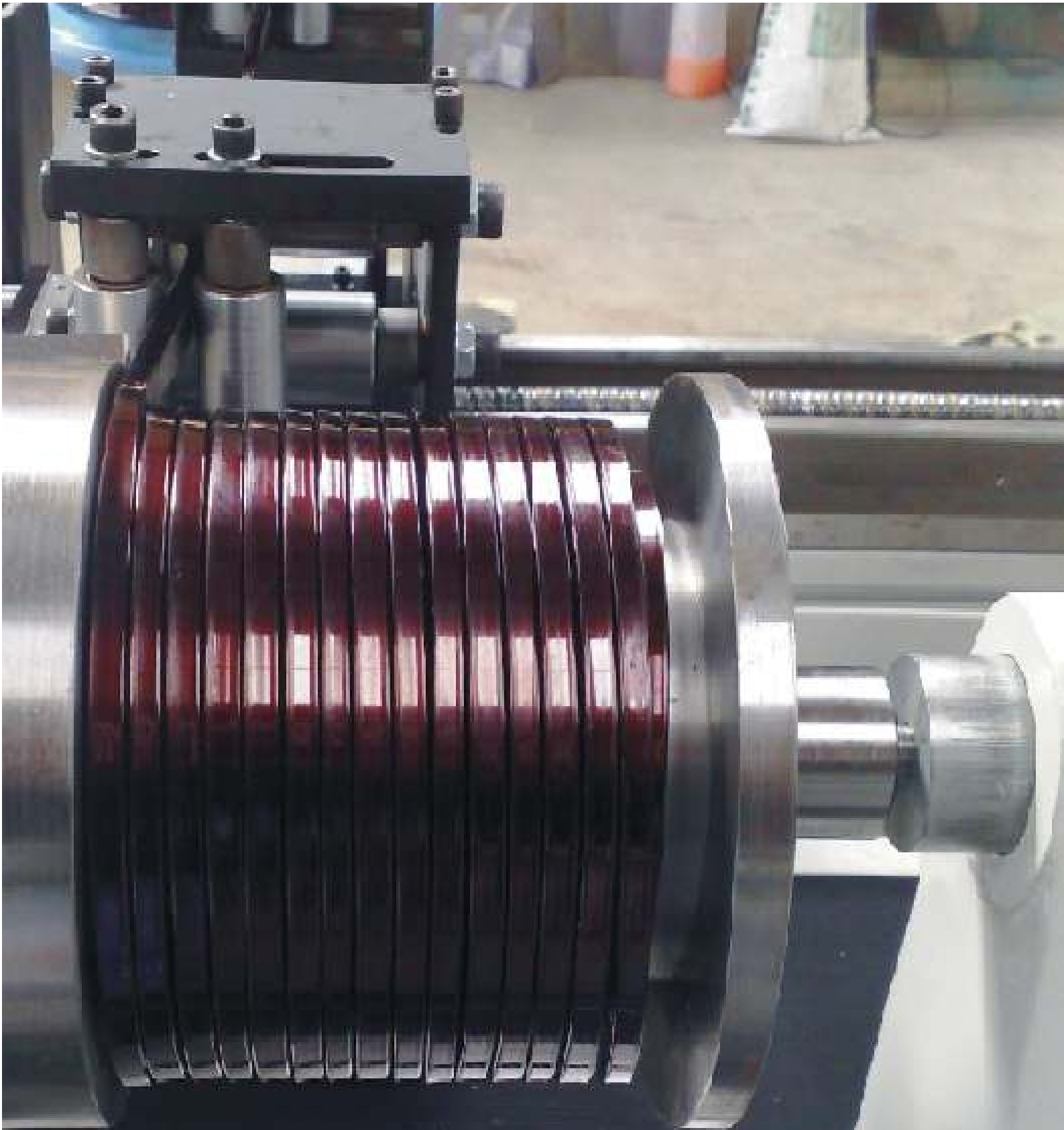


The LCD Machine Series

Our Linear Models are designed for medium simple coils and feature:

- With easy to use Touch Panel
- PanasonicS ervo Motors and Controls
- VC-Quick-Programming-System with 6 programming parameters in less than 1 minute
- VC-Teach-In-System with auto save of adjusted values and quick programming knob for immediate change of any parameter.
- Set up in very short time. New operators can handle the machine immediately with clearly positioned buttons and switches.
- Made in Germany.





Winding Technology Ltd. is one of the market leaders in the worlds industry for stand alone linear coil winders. The PC Series are designed with PC-Control and user friendly Windows software for hi-tech and sophisticated coil windings.

The PC Machine Series

WT Machines are known for their extra heavy design and stability.

The PC Machine Series are designed for Hi-Tech applications and offer unmatched technology:

- PC with large Touch Screen and WIN-XP, Network, Ethernet, W-LAN, Automatic Winding Program Calculation, Self-Learning, etc.
- 3 Different Software Packages
 - Standard Software Package
 - Trapezoidal Software Package
 - Data Logging Software Package
- Special Machine Solutions - for example:
 - Insulation feeding system+accessories for measuring transformer
 - Edge winding system+accessories for special coil
 - Many special purpose machinery on request
- Made in UK

Bench Machine



WT-300-PC

Floor Machine




WT-500-PC

Heavy Duty Floor Machine



WT-1200-PC



Lara is the market leader in the worlds industry for stand alone toroidal core winders.

The machines are designed with PC-Control and user friendly software for precision core production.

Lara also offers newly developed automatic 4-step rectangular core winders and C-Core-Winders..

We offer consulting, installation and after sales service for Lara Core Winding Machines from one source.

Popular Core Winder:

The Fully Automatic Core Winder Series MAN2012



- ▶ Wide core range: ID:39-135 mm, OD:220 mm, W:80mm
- ▶ Digital touchless ruler
- ▶ Open winding style setting system
- ▶ User Planned Speed Modeling Systems
- ▶ Modern Servo drives
- ▶ Tooling for toroidal & rectangular cores
- ▶ Tooling for Semiautomatic Core Winders
- ▶ Easy to use, cost&time saving - clever solution
- ▶ Made in Turkey



Precision Coil Winding Machines

BF is one of the market leaders in the world's industry for stand alone foil, strap and vertical winders.

The machines are very powerful and designed with user friendly software for sophisticated windings. The growing demand for cold welding technology has been implemented in the latest BF machines.

We offer consulting, installation and after sales service for BF Winding Machines from one source.



Foil Winders

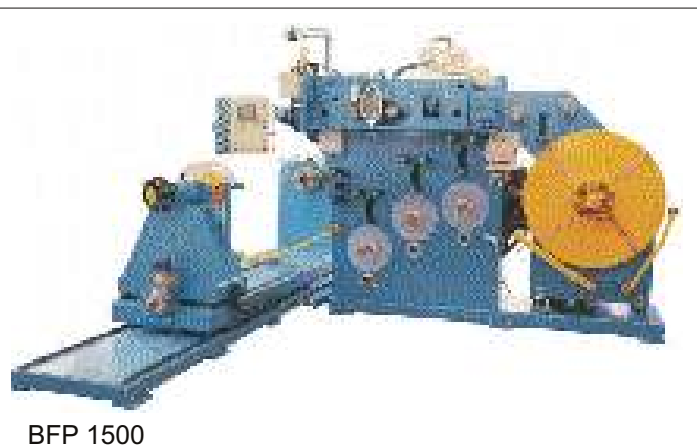


BFL 600 BFL 900 BFL BFL 1000 BFL 1500

The Popular Foil Winders, Strap Winders and Wire Winders Series: Made in Italy

Strap Winder

(i.e. for HV Distribution Transformer)



BFP 1500

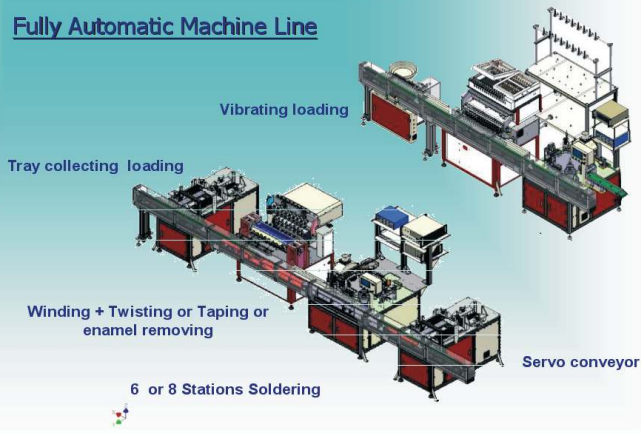
Wire Winder

(i.e. for Distribution Transformer)



BFFPC 1300

Fully Automatic Machine Line



Detzo is one of the market leaders in the worlds industry for Multispindle- and Stator Winders, as well as Automatic Lines.

State of the art machine technology made in Taiwan and highest winding precision have been combined with economical design in order to offer investors maximum production performance at minimum cost.

Flexible upgrade possibilities can be made at any time due to the modular construction of the DETZO machines, either conversion of the machines or fitting into automatic production lines. The fastest possible cycle times have been reached with high-end dynamic wire guide systems for maximum winding speed and coil replacement systems for shortest waiting times.

We offer consulting, installation and after sales service for Detzo Machines from one source.

Multispindle Winders



1 Spindle



4 Spindles



6 Spindles



8 Spindles



8 Spindles



10 Spindles



12 Spindles



16 Spindles

Stator Winders



Coil Tapers

1 Spindles 2 Spindles 4 Spindles

Ferrite Core Taping

Bobbin Coil Winders

DSW-C01F
Wire: 0.03-1.0mm

DSW-C01ED
Wire: 0.03-2.0mm

DSW-C01
Wire: 0.03-1.0mm

DSW-C02
Wire: 0.03-0.6mm

DSW-C02F
Wire: 0.03-0.6mm

DSW-C04F
Wire: 0.03-0.5mm

Soldering Systems

6 Stations:

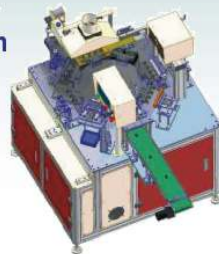
- 1: Loading
- 2: Fluxing
- 3: Soldering
- 4: DCR Testing
5. Ok Unload
6. NG Unload



- 1 Station: Soldering
- 2 Stations: Flux / Soldering

8 Stations: Options

- Hi-Po Testing
- Surge Testing
- CCD testing
- Cooling system



Options Soldering:

- ☆ Dip type
- ☆ Wave type
- ☆ Resistance welding
- ☆ Micro Arc welding
- ☆ Iron Welding

Inductor Production Systems

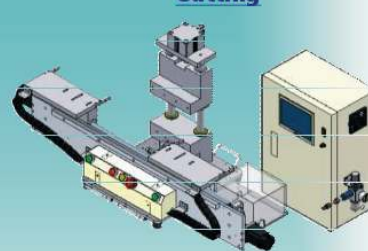
Winding



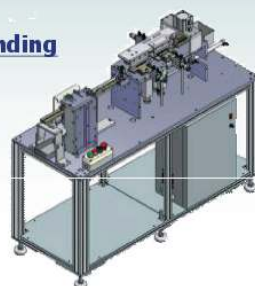
Welding



Cutting



Cutting & Bending



Packing/Testing



Flat Wire Winders



Air Coil Winders



Copper Film Welders Car Antenna Winders

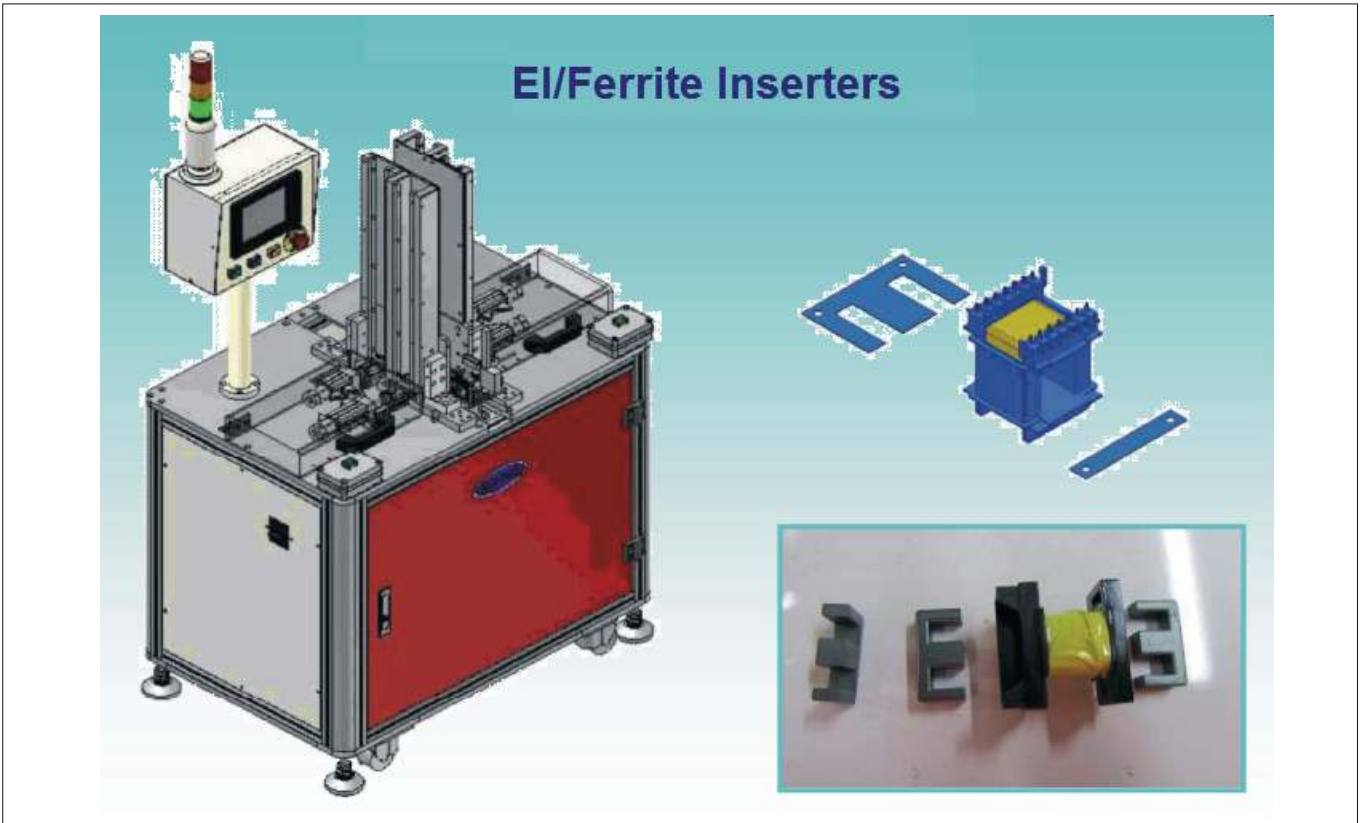


Copper Film Welders



Car Antennas Winders





Typical Applications Wire Tensioners



Typical Applications



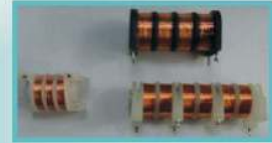
Inverter



Transformer



Step Motors



Ignition



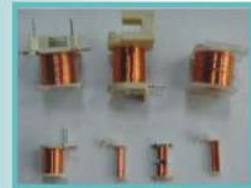
Valve



Inductor



Adapter



Relay



ABS



Car Horn



Car Mirror



Motor

Wire Tensioners





Precision Coil Winding Machines

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