

Product Catalogue 2025



Working with local partners throughout Europe



We aim to be much more than a machinery supplier. Our team has a vast range of winding experience and is able to offer help and advice on all aspects of coil winding, from tooling design to machine choice and set-up.

COIL WINDING SOLUTIONS YOU CAN RELY ON

WORKING WITH LOCAL PARTNERS IN THE FOLLOWING COUNTRIES: Austria, Czech Republic, Germany, Hungary, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden.

Unit 5L, Delta Drive, Tewkesbury, Glos. GL20 8HB. United Kingdom.



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BOBBIN WINDING MACHINE SERIES



Working with local partners throughout Europe



WH 800 SINGLE SPINDLE TRANSFORMER WINDING MACHINE

SPECIFICATION

Program Microprocessor controlled, capable of holding 999 program sequences which may be run independently or in selected blocks for compound windings.

Control Spindle drive - High torque brushless DC induction motor producing a max torque 78.5 Ncm. Traverse - Constant current driven 4-phase stepper motor.

Application Wire guide is capable of holding four wires at the same time for multiple windings e.g. standard EI transformers.

Package Includes wire guide, margin tape & cover tape attachments and wire feeder system, with comprehensive manual.

Wire size ____ 0.02 - 1.0 mm

Max pitch _____ 10 mm

Winding _____ 110 mm (max)
Width

Bobbin dia ____ 110 mm (max)

Max speed _____ 6000,
_____ (optional)
_____ 3000 Rpm

Power ____ AC 230 / 110V
_____ ± 10%, 50-
_____ 60hz

Dims _____ 760 x 680 x
_____ 720 mm

Net
Weight _____ 34 kg

CE cert. no. _ 1377-CI32017.R1



We aim to be much more than a machinery supplier. Our team has a vast range of winding experience and is able to offer help and advice on all aspects of coil winding, from tooling design to machine choice and set-up.

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WH 800i TWO SPINDLE TRANSFORMER WINDING MACHINE

SPECIFICATION

Program	Microprocessor controlled, capable of holding 999 program sequences which may be run independently or in selected blocks for compound windings.
Control	Spindle drive - High torque brushless DC induction motor producing a max torque 78.5 Ncm. Traverse - Constant current driven 4-phase stepper motor.
Application	Nozzle type wire guides feed each spindle, these are adjustable so that dual winding may be carried out successfully. Each guide is fed via a tension unit.
Package	Includes 2 x nozzle wire guides, 2 x tension units and cover tape attachment, with comprehensive manual.

Wire size _____ 0.02 - 0.6 mm
_____ (1.0mm in single
_____ spindle mode).

Max pitch _____ 10 mm

Winding _____ 110 mm (max)
Width

Bobbin dia _____ 110 mm (max)

Max speed _____ 6000, 3000
_____ (optional)

Power _____ AC 230 / 110V
_____ ± 10%, 50-60hz

Dims _____ 760 x 680 x 720 mm

Net
Weight _____ 34 kg

CE cert. no. _____ 1377-CI32017.R1



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WH 752 HEAVY DUTY TWO SPINDLE COIL WINDING MACHINE

SPECIFICATION

Program	Microprocessor controlled, capable of holding 999 program sequences which may be run independently or in selected blocks for compound windings.
Control	Spindle drive - High torque brushless DC induction motor producing a max torque of 157 Ncm.
Traverse	Constant current driven 4-phase stepper motor.
Application	Roller type wire guide and separate tension unit for each spindle. Wire guides adjust for dual winding.
Package	Includes 2 x roller wire guides and 2 x tension units, with comprehensive manual.

Wire size _____ 0.3 - 1.6 mm

Max pitch _____ 10 mm

Winding _____ 110 mm (max)
Width

Bobbin dia. ____ 110 mm (max)

Max speed _____ 3000 rpm

Power _ AC 230 / 110 V + 10%
_____ 50 - 60 Hz

Dims __ 600 x 480 x 900 mm

Net weight _____ 55 kg.

CE cert. no. _ 1377-CI-32017.R1



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WH 764 FOUR SPINDLE COIL WINDING MACHINE

SPECIFICATION

Program	Microprocessor controlled, capable of holding 999 program sequences, which may be run independently or in selected blocks for compound windings.
Control	Spindle drive - High torque brushless DC induction motor producing a max torque of 78.5 Ncm. Traverse - Constant current driven 4-phase stepper motor.
Application	Nozzle type wire feeder heads on each spindle; these have adjustable parallelism so that multiple winding may be carried out. Each spindle is fed via a separate tension unit.
Package	Includes 4 x nozzle type wire feeder heads, 4 x tension units, and comprehensive manual.
Wire size _____	0.02 - 0.6 mm
Max pitch _____	10 mm
Winding Width _____	100 mm (max)
Bobbin dia. _____	100 mm (max)
Max speed _____	6000 rpm
Power _____	AC 230 / 110 V \pm 10%, 50 - 60 Hz
Dimensions ___	1000 x 500 x 1000 mm
Net weight _____	60 kg
CE cert. no. _____	1377-CI-32017.R1



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WH 766T SKEINING SIX SPINDLE COIL WINDING MACHINE

SPECIFICATION

Programming Microprocessor controlled, capable of holding 999 program sequences, which may be run independently or in selected blocks for compound windings.

Control Spindle drive - High torque brushless DC induction motor producing a max torque of 78.5 Ncm.
 Traverse - Constant current driven 4-phase stepper motor.

Application Designed for thin wires that require skeining. Nozzle type wire feeder heads on each spindle; these have adjustable parallelism so that multiple winding may be carried out. Each spindle is fed via a separate tension unit through a skeining device.

Automated skein function - The winding is stopped a few turns from the end, and the machine automatically performs the skeining function. Half of the skeined length is then wound into the bobbin, and the remaining skeined length is used for the start of the next coil.

Package Includes 6 x nozzle type wire feeder heads, 6 x skeiner units, and comprehensive manual.

Wire size _____ 0.03 - 0.30 mm

Max pitch _____ 10 mm

Winding _____ 100 mm (max)
 Width

Bobbin dia. _____ 100 mm (max)

Turns _____ 9999.9 turn or
 _____ 99999

Max speed _____ 6000 rpm

Power _____ AC 230 / 110 V ±
 _____ 10%, 50 - 60 Hz

Net weight _____ 85 kg

CE cert. no. _____ 1377-CI-32017.R1



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WH 751 HEAVY DUTY VERSATILE SINGLE SPINDLE COIL WINDING MACHINE

SPECIFICATION

Program	Microprocessor controlled, capable of holding 999 program sequences which may be run independently or in selected blocks for complex windings.
Control	Spindle drive - High torque brushless DC induction motor.
Traverse	Constant current driven 4-phase stepper motor.
Application	Bigger transformers and large wire windings, long coils, antennas.
Package	Base machine with belt selectable drive ratios for 3000 and 800 max. rpm, tensioner stand, tailstock, footswitch and comprehensive manual.
Accessories	Large choice of wire feeder heads and tensioners, taping attachments, variable speed foot pedal
Wire size:	0.02 – 3.0 mm
Max pitch:	10 mm
Bobbin dia	200 mm
Winding width	300 mm (max) 700mm (option)*
Net weight	83 kg
Dims	950 x 520 x 600 mm
Power	AC 230 / 110 V±10% 50/60 Hz
CE cert. no.	1377-CI-32017.R1



Max Speed (Rpm)	Max Torque (Nm)
800 / 3000 (standard)	8.8 / 1.1
400 / 1600**	17.6 / 2.2

* This machine is also available with an extended bed for coils longer than 300mm.

** High Torque version available as an option.

For examples of wire feeder heads and other accessories, please see overleaf

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WH 751 Accessories



Roller feeder head



Digital wire tension display



Variable speed foot pedal



Multi wire feeder head
with margin taping



Guide tube feeder head



Dual Servo electronic
tensioner



Type TCS~TCM



TCL-x heavy wire tensioner



TC3L heavy wire tensioner

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WH 751 AIR COIL WINDER WITH HOT-AIR BONDING

Many people believe that it is impossible to make air coils on a bench-top machine, but with the help of IWM

YOU can do it!

The advantages of making your own air coils include:-

- Fast turn-around for prototypes
- Full control over the 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!

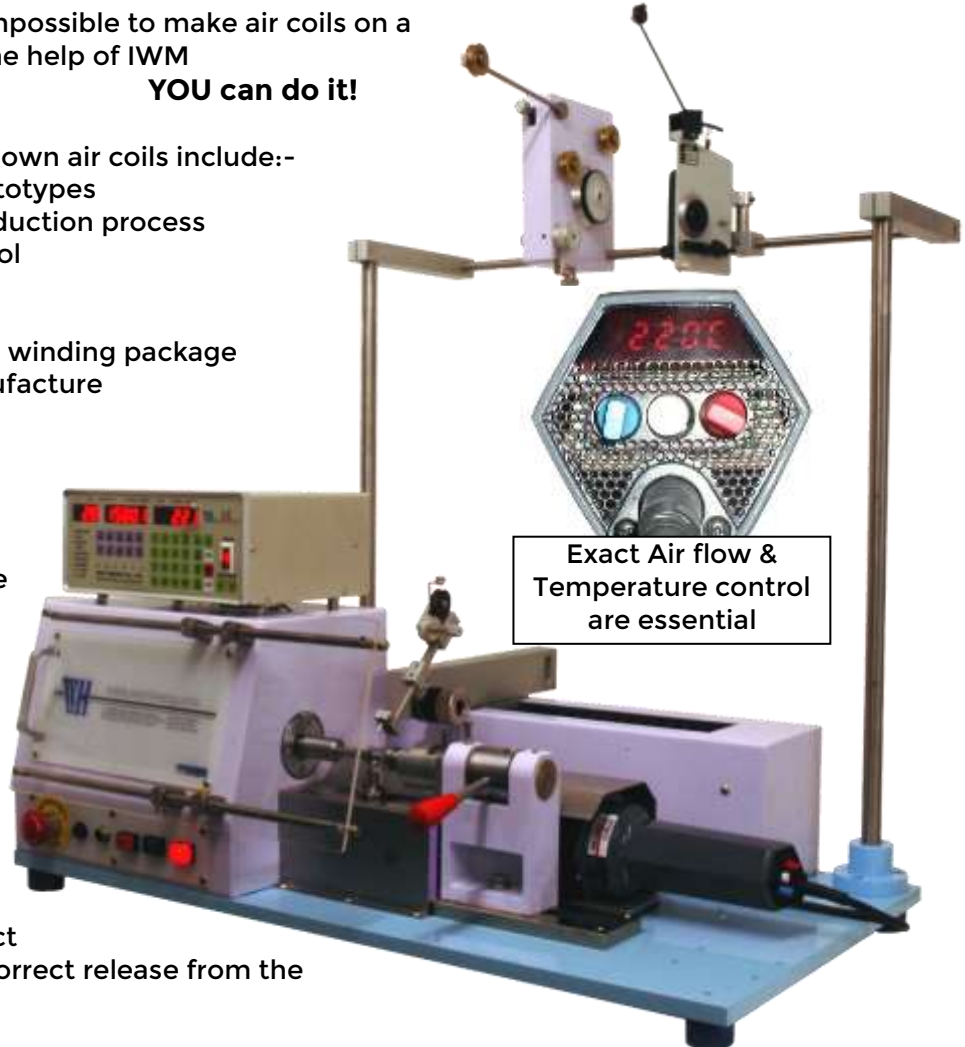
Package includes:-

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

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 adhesion of wire to wire, with correct release from the tooling.

Careful design of the tooling, and Wey Hwang's advanced machine controllability, ensure reliable wire entry and exit from the coil every time.

For the price of the tooling - refundable against machine order we can create tooling and wind you some samples to demonstrate quality (and cycle time) created from this package.



Exact Air flow & Temperature control are essential



Precision tooling creates precision coils

As these machines are custom made, please speak to us about the coil specification you wish to produce

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WH 751 AIR COIL WINDER WITH HOT AIR BONDING

We want to show you **some examples of the capabilities of the machine.**

Coil Data	Wire (mm)	ID (mm)	Turns	Cycle time (Sec)
	0.06	13	220	35
	0.2	62 * 36	74	40
	0.315	13	54	25
	0.71	90	150	45
	0.18	13	243	40
	0.315	Triangular	277	45



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WH 520 TWO SPINDLE “FLY WINDING” MACHINE

SPECIFICATION

Program	Microprocessor controlled, capable of holding 999 program sequences which may be run independently or in selected blocks for compound windings.
Control	Spindle drive, high torque brushless DC induction motor producing a max torque 78.5 Ncm. Traverse - Constant current driven 4-phase stepper motor. Index - Constant current driven 4-phase stepper motor.
Application	Nozzle type wire guides feed each spindle. Each guide is fed via a separate tension unit. With the <i>Fly winding</i> principle, wire is wound around the stationary core - ideal for motors.
Package	Includes 2 x nozzle wire guides, 2 x tension units and cover tape attachment, with comprehensive manual.



Wire size _____ 0.03 - 0.6 mm

Max pitch _____ 10 mm

Winding _____ 70 mm (max)
Width

Motor OD _____ 8 - 50 mm

Motor Height _____ 20 mm (max)

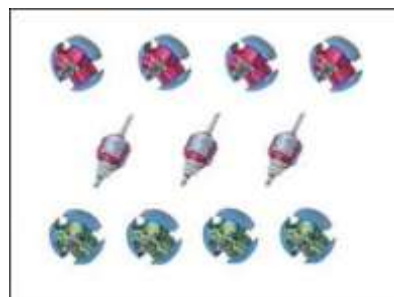
Max speed _____ 3000 rpm

Power _____ AC 230 / 110V ± 10%, 50-60 Hz

Dims _____ 700 x 350 x 100 mm

Net weight _____ 110 kg

CE cert. no. _____ AE9955093 01



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WH 521 SINGLE SPINDLE “FLY WINDING” MACHINE

SPECIFICATION

Program	Microprocessor controlled, capable of holding 999 program sequences which may be run independently or in selected blocks for compound windings.
Control	Spindle drive-High torque brushless DC induction motor producing a max torque 78.5 Ncm. Traverse - Constant current driven 4-phase stepper motor. Index - Constant current driven 4-phase stepper motor.
Application	Nozzle type wire guides feed each spindle. Each guide is fed via a separate tension unit. With the Fly winding principle, wire is wound around the stationary core - ideal for motors.
Package	Includes nozzle wire guide, 1 x tension units and cover tape attachment, with comprehensive manual.



Wire size _____ 0.03 - 0.8 mm

Max pitch _____ 10 mm

Winding _____ 70 mm (max)
Width

Motor OD _____ 8 - 140 mm

Motor Height _____ 30 mm (max)

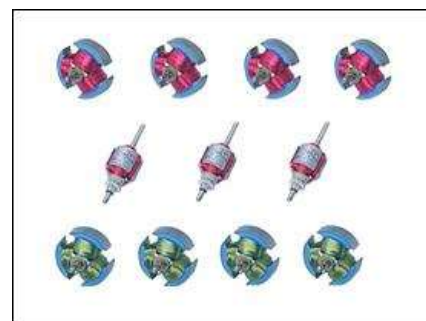
Max speed _____ 3000 rpm

Power _____ AC 230 / 110V ± 10%, 50-60 Hz

Dims _____ 700 x 350 x 100 mm

Net weight _____ 105 kg

CE cert. no. _____ AE9955093 01



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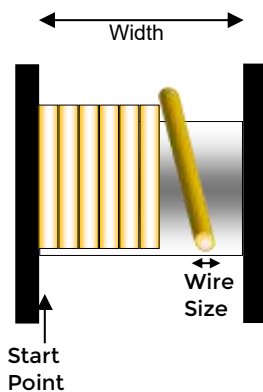


BOBBIN WINDING CONTROLLERS

Setting up a winding machine can be a long process, especially when adjustments can only be made mechanically. For a short production run - or even a one-off prototype - a fast solution is vital.

The CWC-01 digital controller is **designed for rapid programming**. Its design philosophy is based on moving as many mechanical adjustments into software as possible, giving **fast change-over times** from one job to another.

Simple setup



Footswitch can be used to start winding or as 'deadman switch' Option for variable speed control footswitch

Parameter display shows **Data Entered**, or **Turns Wound**

Display shows **Spindle speed** or **Quantity produced**

Turns count can allow up to 99,999 turns to be wound in one operation

Memory allows up to 999 different coils to be stored

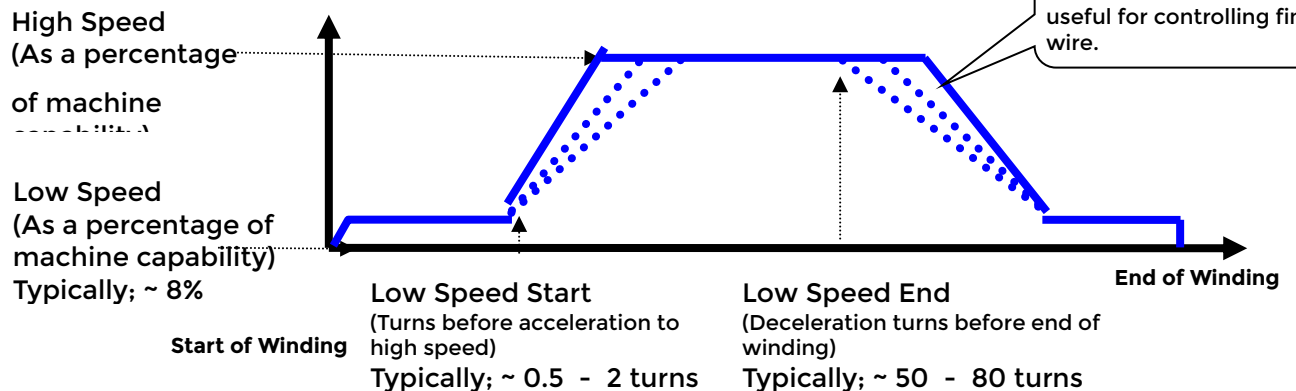
Option to **start next winding** from **previous position**, automatically

Operator can **lock** spindle when in idle mode

Set the machine to **re-synchronise** after 1 - 99 cycles - or on reset

The **Start position** and **Winding Width** can be set by jog buttons, physically moving the winding head to your chosen position, in steps of **0.02 mm**.

Full Speed Control



The CWC-01 digital controller...
"full of features" & "quick to set up"

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TENSIONERS – FINE WIRE, LOW COST

SPECIFICATION

These mechanical tensioners provide precision control of winding tension for wires in the range from 0.02 mm to 2.0 mm.

The arm position provides feedback to the system, adjusting the main fiction wheel to regulate and maintain constant tension during the winding cycle.

Felt pads provide pre-tension and remove dust and other debris from the wire.

Ceramic eyelets and roller guides at each point of contact protect insulation from mechanical damage, and the guide wire.

The performance of these units is exceptional given the low cost, providing outstanding value for money.

*The wire sizes shown are a guide only, for copper magnet wire at recommended "Standard Tension". The tension required in practical applications may vary considerably.



Models TC3S -TCM	Model TCL-X/TCLL-X	Model TC3L
---------------------	-----------------------	---------------

Model Type	Min Tension (grams)	Max Tension (grams)	Min Wire Gauge (mm)*	Max Wire Gauge (mm)*
TC3S	2	11	0.02	0.04
TCSS-X	7	30	0.03	0.06
TCSS	9	50	0.04	0.08
TCS-E	20	130	0.06	0.13
TCS	40	200	0.08	0.16
TCM	90	500	0.16	0.25
TCL-X	200	2000	0.20	0.60
TCLL-X	1000	5000	0.50	1.2
TC3L	2000	10000	0.70	2.0

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MAGNETIC TENSIONERS

Providing stable & consistent tension control over long periods

Wire tension is one of the critical parameters of any coil winding process, having an influence on product characteristics, particularly DC resistance. Tensioning devices are therefore required to ensure constant wire tension throughout the winding process.

One major disadvantage of mechanical tensioning devices is that the friction materials are in contact with each other, resulting in mechanical wear. Therefore the tension may change from the set value over time.

KEY ADVANTAGES OF MAGNETIC TENSIONERS

These magnetic tensioners use a permanent magnet as a non-contact method of generating a variable friction on the main wheel of the tensioner, maintaining wire tension at the set value for long periods with no requirement for adjustment.



The arm position provides feedback to the system, adjusting the main friction wheel to regulate and maintain constant tension during the winding cycle.

Felt pads provide pre-tension and remove dust and other debris from the wire.

Ceramic eyelets and roller guides at each point of contact protect insulation from mechanical damage, and guide the wire.

The performance of these units is exceptional given the low cost, providing outstanding value for money.

Model Type	Min Tension (grams)	Max Tension (grams)	Min Wire Gauge (mm)	Max Wire Gauge (mm)
MTCSS	4	40	0.03	0.07
MTCS	10	120	0.04	0.14
MTCM	50	400	0.08	0.25
MTCL	80	600	0.12	0.35
MTCLL	100	800	0.12	0.40

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COIL WINDING SOLUTIONS YOU CAN RELY ON

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MAGNETIC TENSIONERS WITH TENSION RELEASE

Providing stable and consistent tension control over long periods

Wire tension is one of the critical parameters of any coil winding process, having an influence on product characteristics, particularly DC resistance. Tensioning devices are therefore required to ensure constant wire tension throughout the winding process.

One major disadvantage of mechanical tensioning devices is that the friction materials are in contact with each other, resulting in mechanical wear. Therefore, the tension may change from the set value over time.

KEY ADVANTAGES OF MECHANICAL TENSIONERS

These magnetic tensioners use a permanent magnet as a non-contact method of generating a variable friction on the main wheel of the tensioner, maintaining wire tension at the set value for long periods with no requirement for adjustment.

The arm provides feedback to the system, adjusting the main friction wheel to regulate and maintain constant tension during the winding cycle.

Felt pads provide pre-tension and remove dust and other debris from the wire.

Ceramic eyelets and roller guides at each point of contact protect insulation from mechanical damage, and guide the wire.

Ceramic eyelets and roller guides at each point of contact protect insulation from mechanical damage, and guide the wire.

The models shown have a pneumatic cylinder (controllable from the winding machine) for tension release as required during pin wrapping operations as well as microswitch detecting arm moving up indicating wire brake.



Model Type	Min Tension (grams)	Max Tension (grams)	Min Wire Gauge (mm)	Max Wire Gauge (mm)
MTA20	4	40	0.03	0.07
MTA100	10	120	0.04	0.14
MTA300	50	400	0.08	0.25
MTA600	80	600	0.12	0.35
MTA800	100	800	0.14	0.40

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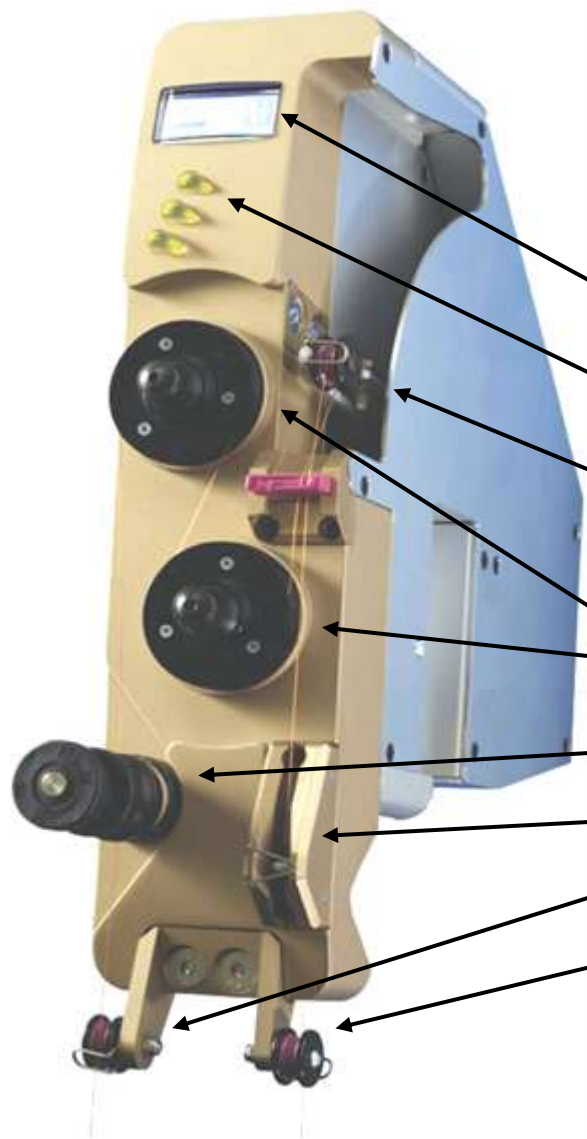


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TENSIONERS – CWF “DUAL SERVO”



Combining advanced digital control techniques with unique “twin servo” technology, the CWF tensioner is the ultimate wire tension control device for coil winding applications.

Introducing our new electronic tensioner with Intelligent Digital Feeding for precision control of wire tension.

LCD display is easily legible even in poor lighting conditions.

Ergonomic keys for easy setting and adjustment

Motorised “Storage and Release” system compensates for sudden changes in wire demand and reduces wire breaks and stretching.

The system detects fluctuations in input tension; the Dual Servo Drive automatically compensates and adjusts output tension and controls wire stretch.

Wire cleaning device

Load cell continuously measures wire tension

Input wire feed roller

Output wire feed roller

The CWF device offers manufacturers of wound products an opportunity to reduce unit costs by increasing productivity, reducing cycle times and improving product quality.

The device is an ideal partner for today's high spindle speed automatic winding machines, enabling rapid acceleration from rest to high wire velocities together with reduced incidence of wire breakage, and close control of DC resistance.

The optional SMART MATRIX external terminal together with PC-LINK software allows the user to store, upload, visualise and control in graphic form all parameters and statistics, e.g. wire tension, speed and wire consumption of up to 100 CWF devices.



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FEEDER HEAD OPTIONS

MULTI WIRE AND TAPE FEEDER HEAD

- Used for producing multi-winding transformers at one workstation
- Allows use of up to 4 different wire sizes without rethreading
- Felt pads for cleaning of wire and back tension
- Includes margin tape and cover tape attachment



GUIDE TUBE FEEDER HEAD

- Ceramic parts at every wire contact point, to protect the wire coating
- Guide tube places wire accurately
- Independent micro-adjustment for more than one spindle
- Felt pad for cleaning of wire and back tension
- Takes guide tubes of inside diameter 0.3-1.2 mm



FIXED ROLLER FEEDER HEAD WITH MICRO ADJUSTMENT

- Durable brass rollers to control heavy gauge wire
- Independent micro-adjustment for more than one spindle
- Felt pad for cleaning of wire and back tension



VARIABLE ANGLE ROLLER FEEDER HEAD

- Durable brass rollers to control heavy gauge wire
- Adjustable angle of feed
- Adjustable roller position enables wire pre-bend/straightening



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TAILSTOCKS



Large bobbins/solenoids and air coils need a tailstock to support the outer flange during winding.

The WH-751 machine can be fitted with either a manual or a pneumatic tailstock, and either option can be mounted or removed in minutes. All tailstocks are adjustable for left-to-right position, and are provided with a removable precision angular contact mearing.

Heavy Duty	Specifications	Pneumatic
25 mm	Stroke Length	50 mm
10 mm	Bearing ID to locate tool	8 mm
N/A	Air supply	5 Bars

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REPRESENTING
e & WH
ACROSS EUROPE

FLOOR STANDING HEAVY DUTY BOBBIN WINDING MACHINE SERIES



Working with local partners throughout Europe



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E-300W WINDING MACHINE - "Industry 4.0"

DESCRIPTION

Small-sized bench winding machine Equipped with:

- Traverse head
- Sturdy base
- Tailstock - with security lock,
- Guider system
- Controlled by numeric PLC and electronic programming.
- Safety shielded foot pedal (Optional).

This machine is designed for the manufacture of solenoids, inductors and transformers, (with capacity to make multiple windings).

There are various configurations of speed ranges, up to 13,000 rpm (depending on machine version). This produces a fast cycle time for high turn primary windings.



TECHNICAL CHARACTERISTICS

Max. Winding length	285 mm
Max Wire pitching Ø	99 mm
Max. distance between points	370 mm
Max. Winding Ø	240 mm
Face plate diameter.....	60 mm
Guider precision	0.001 mm
Spindle Resolution.....	0.01 turns
Main shaft motor	Brushless servomotor
Guider motor.....	Brushless servomotor
Power Supply.....	230Vac - 50/60 Hz
Dimensions (L*W*H).....	1000 x 520 x 310 mm
Net Weight (approx.)	140 kg

TORQUE AND SPEED

There are many versions of the drive system, please contact your local representative to discuss your requirements.

E300W		E300W -1 speed Direct Drive		E300W -1 speed Direct Drive	
SPEED (rpm)	TORQUE (Nm)	SPEED (rpm)	TORQUE (Nm)	SPEED (rpm)	TORQUE (Nm)
13.000	1	200	19	300	50
2.750	5				

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E300W R		E300W N		E300W G		E300W G+	
SPEED (rpm)	TORQUE (Nm)	SPEED (rpm)	TORQUE (Nm)	SPEED (rpm)	TORQUE (Nm)	SPEED (rpm)	TORQUE (Nm)
9.000	2	6000	3	3000	5	1600	9
6.000	3	3000	6	1500	10	800	18
3.000	6	1500	12	750	20	400	36

PROGRAMMING CHARACTERISTICS

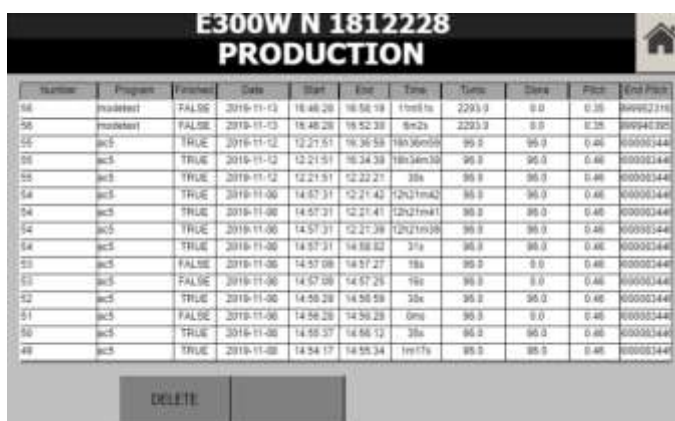
User interface7 inch (178 mm) Colour Touch Screen
 No. of programmable windings Max. 1,000
 No. of windings per coil 10,000 program & 200 winding per program
 - when connected to a local network virtually infinite storage
 Software language Main European
 Type of programming CNC
 Network Connectivity (Ethernet plug) RJ45
 Delivery Time 60 Days from order confirmation

KEY BENEFITS OF THE NEW E-300W

- The new range of solutions has been designed in accordance with the “Industry 4.0” concept, providing capabilities of traceability, remote control and process monitoring
- The E-300W provides a combination of high performance with reduced cost and a “state-of-the-art” control system.
- The new hardware platform reads variables and parameters in “real time” and makes them available online.
- Operators, managers, quality controllers and engineers can view the “live” information via the Internet from anywhere in the world using any “smart” device - for example, a laptop, tablet computer or even a Smartphone.

BUILT-IN NETWORK FUNCTIONALITY

- Save and recall programs from the main company server.
- Check the status of the winding machine from anywhere in the world.
- Setup using the touch screen or remote control using laptop or tablet.
- Programs are easily searched and selected.
- Easy back up to Cloud storage.



Number	Program	Finished	Date	Start	End	Time	Time	Done	Place	End Pos
56	modtest	FALSE	2019-11-13	18:46:20	18:50:19	1min19s	2293.3	0.0	0.35	800002310
55	modtest	FALSE	2019-11-13	18:46:20	18:52:30	4m2s	2293.3	0.0	0.35	800004090
54	ac5	TRUE	2019-11-12	12:21:51	18:36:59	18m36m59s	99.9	99.9	0.46	800001440
53	ac5	TRUE	2019-11-12	12:21:51	18:34:39	18m34m39s	99.9	99.9	0.46	800001440
52	ac5	TRUE	2019-11-12	12:21:51	12:22:21	30s	99.9	99.9	0.46	800001440
51	ac5	TRUE	2019-11-00	14:57:31	12:21:42	12m21m42s	99.9	99.9	0.46	800001440
50	ac5	TRUE	2019-11-00	14:57:31	12:21:41	12m21m41s	99.9	99.9	0.46	800001440
49	ac5	TRUE	2019-11-00	14:57:31	12:21:39	12m21m39s	99.9	99.9	0.46	800001440
48	ac5	TRUE	2019-11-00	14:57:31	14:58:02	31s	99.9	99.9	0.46	800001440
47	ac5	FALSE	2019-11-00	14:57:09	14:57:27	18s	99.9	0.0	0.46	800001440
46	ac5	FALSE	2019-11-00	14:57:09	14:57:25	16s	99.9	0.0	0.46	800001440
45	ac5	TRUE	2019-11-00	14:56:29	14:56:59	30s	99.9	99.9	0.46	800001440
44	ac5	FALSE	2019-11-00	14:56:29	14:56:29	0ms	99.9	0.0	0.46	800001440
43	ac5	TRUE	2019-11-00	14:56:37	14:56:12	25s	99.9	99.9	0.46	800001440
42	ac5	TRUE	2019-11-00	14:54:17	14:55:34	1m17s	99.9	99.9	0.46	800001440

This is the first in a new line of machines from ERASAN - “value engineered” without losing the focus on maximum performance.

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E-300 WINDING MACHINE

DESCRIPTION

Small Sized Bench Winding Machine Equipped with: -

- Traverse head
- Sturdy base
- Tailstock - with security lock,
- Guider system
- Controlled by numeric PLC and electronic programming.
- Safety shielded foot pedal (Optional).



This machine is designed for the manufacture of solenoids, inductors and transformers, (with capacity to make multiple windings), and small distribution and power transformers.

There are various configurations of speed ranges, up to 9,000 rpm (depending machine version). This produces a fast cycle time for high turn primary windings.

TECHNICAL CHARACTERISTICS.

Max. Winding length	390 mm
Max Wire pitching	99 mm
Max. distance between points	500 mm
Max. Winding	350 mm
Face plate diameter	80 mm
Guider precision	0.01 mm
Spindle Resolution	0.01 turns
Main shaft motor	(Brushless servomotor) 6 Nm/3000 rpm
Guider motor	(Brushless servomotor) 1.4 Nm
Power supply	220 Vac - 50 Hz

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TORQUE AND SPEED

Winding shaft speed _____ 3000 rpm / 6000 rpm / 9000 rpm

Torque and speed (** There are three version of this machine each having three belt positions)

Belt Position	G version - 3000 RPM		N version - 6000 RPM		R version - 9000 RPM	
	Speed (rpm)	Torque (Nm)	Speed (rpm)	Torque (Nm)	Speed (rpm)	Torque (Nm)
1	3000	6	6000	3	9000	2
2	1500	12	3000	6	6000	3
3	750	24	1500	12	3000	6

PROGRAMMING CHARACTERISTICS.

User interface _____ 7inch (178 mm) T.Screen Colour
 No. of programmable windings _____ Max. 10,000 (per SD card)
 No. of windings per coil _____ Max. 200
 Software language _____ Main European
 Type of programming _____ CNC
 Delivery Time _____ 60 Days from order confirmation

KEY BENEFITS OF THE NEW E-300

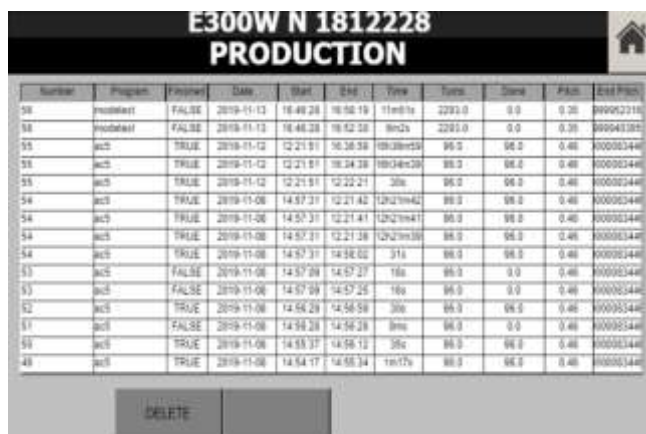
Energy Efficiency

The “green efficiency” design concept of this machine reduces power consumption. All motors are synchronous and each movement has been optimised for improved energy efficiency.

Simple & effective machine operating software

The all-new machine operating software has an intuitive graphical interface and a 7-inch (178 mm) full colour touch screen with user's choice of language - making programming a new coil easier than it has ever been.

Programs are stored on solid-state media - directly to a standard SD memory card. This allows a fast and simple backup, with the option of Windows™ software - “WINbobbin” - for full PC connectivity.



Number	Program	Passes	Date	Start	End	Type	Turns	Speed	Acc.	End Prod.
50	prodtest1	FALSE	2019-11-12	16:48:28	16:50:19	11m01s	2293.0	0.0	0.00	900002310
51	prodtest1	FALSE	2019-11-12	16:48:28	16:52:50	8m22s	2293.0	0.0	0.00	900004100
52	prod	TRUE	2019-11-12	12:21:51	16:58:58	10m37s	95.0	95.0	0.40	900003440
53	prod	TRUE	2019-11-12	12:21:51	16:54:38	10m34s	95.0	95.0	0.40	900003440
54	prod	TRUE	2019-11-12	12:21:51	12:22:21	30s	95.0	95.0	0.40	900003440
54	prod	TRUE	2019-11-08	14:57:31	12:21:42	12m21m42s	95.0	95.0	0.40	900003440
54	prod	TRUE	2019-11-08	14:57:31	12:21:41	12m21m41s	95.0	95.0	0.40	900003440
54	prod	TRUE	2019-11-08	14:57:31	12:21:38	12m21m38s	95.0	95.0	0.40	900003440
54	prod	TRUE	2019-11-08	14:57:31	14:58:02	31s	95.0	95.0	0.40	900003440
51	prod	FALSE	2019-11-08	14:57:59	14:57:57	18s	95.0	0.0	0.40	900003440
51	prod	FALSE	2019-11-08	14:57:59	14:57:55	4s	95.0	0.0	0.40	900003440
52	prod	TRUE	2019-11-08	14:58:29	14:58:58	30s	95.0	95.0	0.40	900003440
51	prod	FALSE	2019-11-08	14:58:28	14:58:28	0m0s	95.0	0.0	0.40	900003440
51	prod	TRUE	2019-11-08	14:58:37	14:58:12	30s	95.0	95.0	0.40	900003440
49	prod	TRUE	2019-11-08	14:54:17	14:55:34	1m17s	95.0	95.0	0.40	900003440

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E-600 WINDING MACHINE

DESCRIPTION

Medium-sized “Power house!” Winding Machine

Equipped with: -

- Traverse head
- Sturdy base
- Tailstock - with security lock,
- Guider system
- & Safety shielded foot pedal.
- Controlled by numeric PLC and electronic programming.

This machine is designed for the manufacture of solenoids, inductors, distribution and power transformers, with capacity to make multiple windings and a wide range of wire sizes.



There are various configurations of speed ranges, (depending machine version). This produces a fast cycle time for high turn primary windings.

TECHNICAL CHARACTERISTICS

Max. Distance between points	650 mm
Max winding length.	480 mm
Max. Ø of winding.	600 mm
Height from centre face plate to machine base.....	300 mm
Tailstock Morse Cone	N° 2
Guider programmable resolution	0.001 mm
Spindle Resolution.....	0.01 turns
Main shaft motor (Parker)	Brushless servomotor
Guider motor (Brushless servomotor)	1.2 Nm
Weight (approx.).....	250 kg
Electrical source	380 V + N + GND- 50/60 Hz
Wire guide.	Included
Machine aluminium base table (with electrical cabinet)	Included

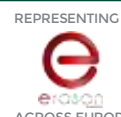
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TORQUE AND SPEED

Winding shaft speed 400 rpm / 300 rpm

(** There are many versions of this machine, two examples are shown here)

Belt Position	Version - 400 RPM		Version - 300 RPM	
	Speed (rpm)	Torque (Nm)	Speed (rpm)	Torque (Nm)
1	420	85	300	130

PROGRAMMING CHARACTERISTICS.

User interface 7inch (178 mm) Colour Touch Screen
 No. of programmable windings Max. 10,000 (per SD card)
 No. of windings per coil Max. 200
 Software languages. (English/German/Spanish/Czech/Hungarian/ Norwegian)
 Type of programming CNC
 Delivery Time 60 Days from order confirmation

KEY BENEFITS OF THE NEW E-600

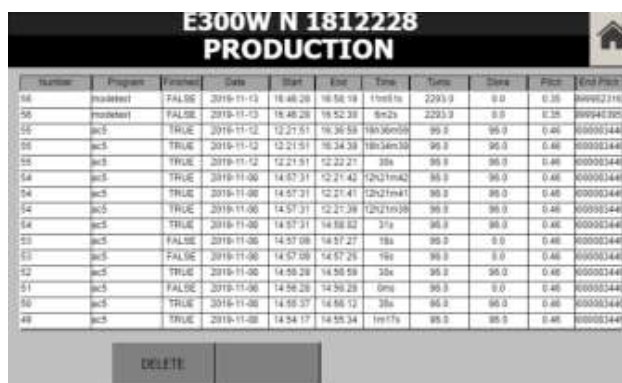
Energy Efficiency

The “green efficiency” concept of this machine reduces power consumption. All motors are synchronous and each movement has been optimised for improved energy efficiency.

SIMPLE & EFFECTIVE MACHINE OPERATING SOFTWARE

The all-new machine operating software has an intuitive graphical interface and a 7-inch (177 mm) full colour touch screen - with user's choice of language - making programming a new coil easier than it has ever been.

Program storage is now done directly to a standard SD card. This allows a fast simple backup, with the option of windows™ software, WIN bobbin for full PC connectivity



Number	Project	Finished	Date	Start	End	Time	Time	Time	Time	Time	Time	Time
56	Project	FALSE	2019-11-13	16:46:28	16:58:18	11m29s	2293.0	0.0	0.0	0.0	0.0	0.0
55	Project	FALSE	2019-11-13	16:46:28	16:52:38	6m25s	2293.0	0.0	0.0	0.0	0.0	0.0
55	ac5	TRUE	2019-11-12	12:21:51	16:36:58	1803m05s	95.0	95.0	0.40	0.00001448		
55	ac5	TRUE	2019-11-12	12:21:51	16:34:58	1803m30s	95.0	95.0	0.40	0.00001448		
55	ac5	TRUE	2019-11-12	12:21:51	12:22:21	38s	95.0	95.0	0.40	0.00001448		
54	ac5	TRUE	2019-11-09	14:57:31	12:21:42	12h21m42s	95.0	95.0	0.40	0.00001448		
54	ac5	TRUE	2019-11-09	14:57:31	12:21:41	12h21m41s	95.0	95.0	0.40	0.00001448		
54	ac5	TRUE	2019-11-09	14:57:31	12:21:38	12h21m38s	95.0	95.0	0.40	0.00001448		
54	ac5	TRUE	2019-11-09	14:57:31	14:58:02	31s	95.0	95.0	0.40	0.00001448		
53	ac5	FALSE	2019-11-09	14:57:08	14:57:27	18s	95.0	0.0	0.0	0.0	0.0	0.0
53	ac5	FALSE	2019-11-09	14:57:08	14:57:25	16s	95.0	0.0	0.0	0.0	0.0	0.0
52	ac5	TRUE	2019-11-09	14:56:28	14:56:59	30s	95.0	95.0	0.40	0.00001448		
51	ac5	FALSE	2019-11-09	14:56:28	14:56:28	0m0s	95.0	0.0	0.0	0.0	0.0	0.0
50	ac5	TRUE	2019-11-09	14:55:57	14:56:12	15s	95.0	95.0	0.40	0.00001448		
49	ac5	TRUE	2019-11-09	14:54:17	14:55:34	1m17s	95.0	95.0	0.40	0.00001448		

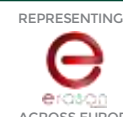
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ACROSS EUROPE

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Email: enquiry@ingridwest.co.uk

E-900 SERVOTECH WINDING MACHINE

MEDIUM-SIZED BENCH WINDING MACHINE



Equipped with: -

- Face plate.
- Guider system.
- Safety shielded foot pedal.
- CNC motion controller and simple electronic programming.
- Tailstock - with security lock.
- Traverse head.
- Sturdy base - constructed from welded steel for strength and durability.

State-of-the-art winding machine. The E-900 is a floor standing style winding machine, medium sized to be easily placed in a factory or workshop, equipped with head and bench in galvanised steel and covered in stainless steel, fixation plate, tailstock with security closure, guider system protection and pedal. With highly advanced features, including, energy efficient servo motors, and intelligent torque boosting technology.

The applications of this machine include the manufacture of solenoids, inductors, and transformers, with capacity to make multiple windings and even distribution and power transformers from 10 to 600 KVA.

The wide range of velocities, up to 400 rpm, permits primary and secondary windings on the same machine, thus reducing the production processes.

The concept and design facilitates the placement of necessary accessories such as end-fillers, insulation paper or foil, of various types.

TECHNICAL CHARACTERISTICS

Wire Ø and profile wire	0.01 - 10mm
Max winding length	800 mm
Max distance between points	900 mm
Max Winding Ø	560 mm
Guider precision	0.01 mm

We aim to be much more than a machinery supplier. Our team has a vast range of winding experience and is able to offer help and advice on all aspects of coil winding, from tooling design to machine choice and set-up.

COIL WINDING SOLUTIONS YOU CAN RELY ON

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* The standard machine is available with speed torque shown below, however please contact us should you require other ratings

Belt Position	1500 RPM version**	
	Torque (Nm)	Speed (rpm)
1	165	0-400
2	300	0-200

Main shaft motor Brushless Servo Motor
 Guider motor (Brushless) 0.4HP / 300W (2.2 Nm)
 Air supply 6 Bar - low consumption
 Electrical supply 3 x 380Vca - 50/60 Hz

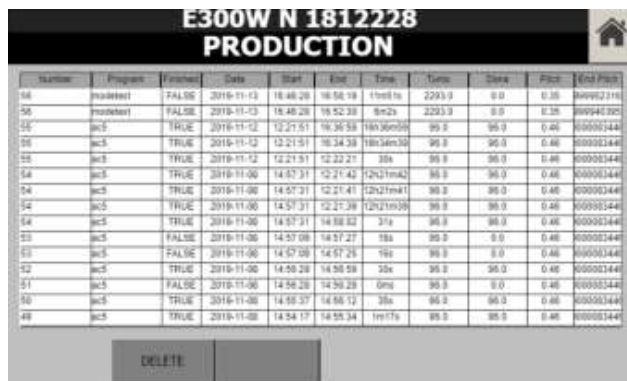
PROGRAMMING CHARACTERISTICS

User interface (touch screen)..... 10inch (254mm)
 No. of winding programs (per SD card)..... Max. 10,000
 No. of windings per coil Max. 200
 Type of programming CNC
 Typical delivery time 90 Days
 (Please confirm at time of order)

SIMPLE & EFFECTIVE MACHINE OPERATING SOFTWARE

The all-new machine operating software has an intuitive graphical interface and a 10-inch (254mm) full colour touch screen - with user's choice of language - making programming a new coil easier than it has ever been.

Program storage is directly to a standard SD memory card. This allows a fast, simple program backup, with the option of Windows™ software, "WINbobbin" for full PC connectivity.



Name	Program	Finished	Date	Start	End	Time	Tension	Dwell	Plot	End Stock
06	PROGRAM1	FALSE	2019-11-13	18:46:26	18:58:18	11m52s	2200.0	0.0	0.35	000002116
06	PROGRAM1	FALSE	2019-11-13	18:46:26	18:52:38	6m12s	2200.0	0.0	0.35	000002102
05	ac5	TRUE	2019-11-12	12:21:51	16:35:58	1803m00s	95.0	95.0	0.46	000003444
05	ac5	TRUE	2019-11-12	12:21:51	16:34:58	1803m30s	95.0	95.0	0.46	000003444
05	ac5	TRUE	2019-11-12	12:21:51	12:22:21	30s	95.0	95.0	0.46	000003444
04	ac5	TRUE	2019-11-06	14:57:31	12:21:42	12h21m42s	95.0	95.0	0.46	000003444
04	ac5	TRUE	2019-11-06	14:57:31	12:21:41	12h21m41s	95.0	95.0	0.46	000003444
04	ac5	TRUE	2019-11-06	14:57:31	12:21:38	12h21m38s	95.0	95.0	0.46	000003444
04	ac5	TRUE	2019-11-06	14:57:31	14:58:02	31s	95.0	95.0	0.46	000003444
03	ac5	FALSE	2019-11-06	14:57:08	14:57:27	19s	95.0	0.0	0.46	000003444
03	ac5	FALSE	2019-11-06	14:57:08	14:57:25	17s	95.0	0.0	0.46	000003444
02	ac5	TRUE	2019-11-06	14:56:28	14:56:59	31s	95.0	95.0	0.46	000003444
01	ac5	FALSE	2019-11-06	14:56:28	14:56:28	0m0s	95.0	0.0	0.46	000003444
00	ac5	TRUE	2019-11-06	14:55:37	14:56:12	35s	95.0	95.0	0.46	000003444
49	ac5	TRUE	2019-11-06	14:54:17	14:55:34	1m17s	95.0	95.0	0.46	000003444

ACCESSORIES

The wide range of accessories designed to work with the E-900 includes guiders for round and square wires, wire tensioning and de-reeling systems, paper and insulation material feeders.

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E-1200W WINDING MACHINE

DESCRIPTION

The E-1200 is a floor standing style winding machine, medium sized to be easily placed in a factory or workshop, equipped with head and bench in galvanised steel and covered in stainless steel, fixation plate, tailstock with security closure, guider system protection and pedal.

The machine is governed by numeric control and CNC electronic programming.

This machine is specially designed for the manufacture of solenoids and power and distribution transformers from 10 to 1.200 KVA, using aluminium or copper wires, including rectangular or flat wires with a special guider.

The wide range of velocities, up to 500 r.p.m, permits primary and secondary windings on the same machine, thus reducing the production processes.

The concept and design facilitate the placement of necessary accessories such as end-fillers, insulation paper or foil, of various types.



TECHNICAL CHARACTERISTICS

Wire Ø (and profile wire) _____ 0.01 - 30 mm
 Max winding length _____ 1.100 mm
 Max distance between points _____ 1.200 mm
 Max winding Ø _____ 800 mm
 Guiding precision _____ 0.01 mm
 Winding shaft speed _____ 500/250 rpm*
 Main shaft motor _____ Brushless Servo Motor
 Guider motor (Brushless) _____ 0.4 HP / 300 W
 Power supply _____ 3 x 380 Vca-50/60 Hz
 Max load between points (coil weight) 1,000 kg
 Approx machine weight _____ 1,200 kg

Belt Position *	High Speed 500 RPM		Low Speed 250 RPM	
	Torque (Nm)	Speed (rpm)	Torque (Nm)**	Speed (rpm)
1	172	500	413	242
2	1033	96	1447	69

* The standard machine is available in two models, high speed and low speed

** The head has two belt positions; the position directly depends on the product to be wound. E.g. Wire cross-sectional area & Coil diameter > torque required.

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PROGRAMMING CHARACTERISTICS

User interface (touch screen) _____ 10inch (254 mm)
No. of winding programs (per SD card) _____ Max. 10,000
No. of windings per coil _____ Max. 200
Type of programming _____ CNC
Typical delivery time (please confirm at time of order) _____ 90 Days

SIMPLE & EFFECTIVE MACHINE OPERATING SOFTWARE

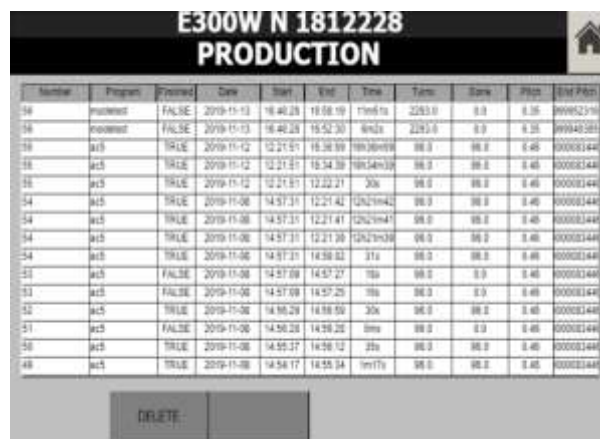
The new range of solutions has been designed in accordance with the “Industry 4.0” concept, providing capabilities for traceability, remote control and process monitoring.

The E-1200W provides a combination of high performance with reduced cost and a “state-of-the-art” control system. The new hardware platform reads variables and parameters in “real time” and makes them available online.

Operators, managers, quality controllers and engineers can view the “live” information via the Internet from anywhere in the world using any “smart” device - for example, a laptop, tablet computer or even a Smartphone.

BUILT-IN NETWORK FUNCTIONALITY

- Save and recall programs from the main company server,
- Check the status of the winding machine from anywhere in the world.
- Setup using the touch screen or remote control using laptop or tablet.
- Programs are easily searched and selected.
- Easy back up to Cloud storage.



Number	Program	Control	Date	Start	End	Time	Turns	Spms	Spms	Unit Price
50	Program	FALSE	2019-11-13	18:40:28	19:08:19	12:27:51	2283.0	0.0	0.00	999992316
50	Program	FALSE	2019-11-13	18:40:28	19:08:19	12:27:51	2283.0	0.0	0.00	999992316
50	W10	TRUE	2019-11-12	12:21:51	18:38:59	18:36:09	98.0	98.0	0.40	999993144
50	W15	TRUE	2019-11-12	12:21:51	18:34:39	18:34:39	98.0	98.0	0.40	999993144
50	W15	TRUE	2019-11-12	12:21:51	12:22:21	30s	98.0	98.0	0.40	999993144
54	W15	TRUE	2019-11-08	14:57:31	12:21:41	12:21:41	98.0	98.0	0.40	999993144
54	W15	TRUE	2019-11-08	14:57:31	12:21:41	12:21:41	98.0	98.0	0.40	999993144
54	W15	TRUE	2019-11-08	14:57:31	12:21:41	12:21:41	98.0	98.0	0.40	999993144
54	W15	TRUE	2019-11-08	14:57:31	14:58:01	31s	98.0	98.0	0.40	999993144
51	W15	FALSE	2019-11-08	14:57:09	14:57:27	18s	98.0	0.0	0.40	999993144
51	W15	FALSE	2019-11-08	14:57:09	14:57:29	18s	98.0	0.0	0.40	999993144
52	W15	TRUE	2019-11-08	14:56:29	14:58:55	35s	98.0	98.0	0.40	999993144
51	W15	FALSE	2019-11-08	14:56:28	14:58:28	18s	98.0	0.0	0.40	999993144
50	W15	TRUE	2019-11-08	14:55:37	14:56:12	35s	98.0	98.0	0.40	999993144
49	W15	TRUE	2019-11-08	14:54:17	14:55:34	1m17s	98.0	98.0	0.40	999993144

ACCESSORIES

The wide range of accessories designed to work with the E-1200W includes guiders for round and square wires, wire tensioning and de-reeling systems, paper and insulation material feeders.

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COIL WINDING SOLUTIONS YOU CAN RELY ON

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E-2500 WINDING MACHINE

DESCRIPTION.

The EZ-2500 is a floor standing style winding machine, Large size to be easily placed in a factory or workshop, equipped with head and bench in galvanised steel and covered in stainless steel, face plate, tailstock with security closure, guider system and foot pedal.



The machine is governed by numeric control and CNC electronic programming.



This machine is specially designed for the manufacture of re-winds, large rotor coils for use in wind turbine industry, using aluminium or copper wires, including rectangular or flat wires with a special guider.

The concept and design facilitates the placement of necessary accessories such as end-fillers or insulation paper in foil, of various levels.

TECHNICAL CHARACTERISTICS.

Wire Ø	0.01 – 30 mm
Winding speed	0 – 60 rpm
Max. winding length	2,250 mm
Max. Distance between points	2,500 mm
Spindle height (from floor)	1,300 mm
Tailstock movement	1,500 mm
Guider precision	Manual
Main shaft motor	7.5 HP
Guider motor	0.3HP (Brushless)
Power supply	3 x 380 VCA- 50/60 Hz
Air supply	6 bar (minimum)
Weight	1,500 kg

PROGRAMMING CHARACTERISTICS.

Standard with the machine, turns counter, simple program	
By request, electronic control	CMZ240
Max. No. of programmable windings	Max. 130
Max. No. of windings per coil	Max. 12
Type of programming	CNC
Delivery Time	60 Days from order confirmation.

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E-1200 C WINDING MACHINE

DESCRIPTION

Robust and reliable, the E-1200C winding machine is a floor standing style winding machine.

The sturdy chassis is manufactured from heavy gauge welded steel for durability, painted for ease of cleaning and maintenance.

The machine consists of a headstock with speed change, face plate, and pedal.

Due to the intended application of this machine, it does not have a bench or wire guiding system



This machine is specially designed for the manufacture of solenoids and power and distribution transformers from 10 to 1.200 KVA, using aluminium or copper wires, including rectangular or flat wires.

TECHNICAL CHARACTERISTICS

Maximum winding shaft speed.....	500 rpm
Winding shaft slow speed.	0 - 20-60-120 rpm
Maximum coil diameter.	1,600 mm
Maximum torque (low speed).....	80 kgm
Main motor.	5 HP (3.7 kW)
Power supply.	3 x 380Vca - 50/60 Hz
Air supply	6 bar (minimum)
Delivery.....	90 DAYS from confirmation of the order.

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BOBIFIL RESTORATION PROGRAM

Why not give your old Bobifil machine a new lease of life with a comprehensive rebuild?

A typical machine restoration includes:

- Change the 500 pulse head encoder for a 10,000 pulse unit.
- Change the main motor for a brushless DC motor with brake.
- Change the guider motor for a brushless DC unit. (Mechanical machines require the installation of an electronically controlled endless feedscrew for the guider system).
- Frequency controller for the main motor.
- Motion control of machine axes through PLC and electronic programming.
- Electrical cabinet separate from the machine to eliminate electrical noise and interference produced by the motors.
- Mechanical modifications, as required for fitting of new components, e.g. guide heads, tooling.
- Latest generation software.
- Total repainting and refinishing of the machine.
- New accessories at client request.
- Full compliance with CE regulations.

Top Image: A restored ER-900
Bottom Image: IWM and Erasan staff test a newly refurbished ER-900



A fully restored machine is capable of giving you many more years of reliable service on your shop floor

This refurbishment program is covered by a 12 month guarantee, for all of the newly installed components, (but excluding the original mechanical parts, such as the head stock and gear box, pulleys, guides from the guiding system, wormscrews and tailstock, since these parts are not changed under this program.)

However, the correct function of the above mentioned parts will be verified by our technicians during the machine rebuild, and should need repair or replacement, the client will be duly notified

All parts including mechanical and electronic that have been removed from the machine during refurbishment will be returned with the machine.

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Below: An ER-33 following restoration



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EXAMPLE -SEIPP USWA-5050 MACHINE REBUILD

BEFORE



AFTER



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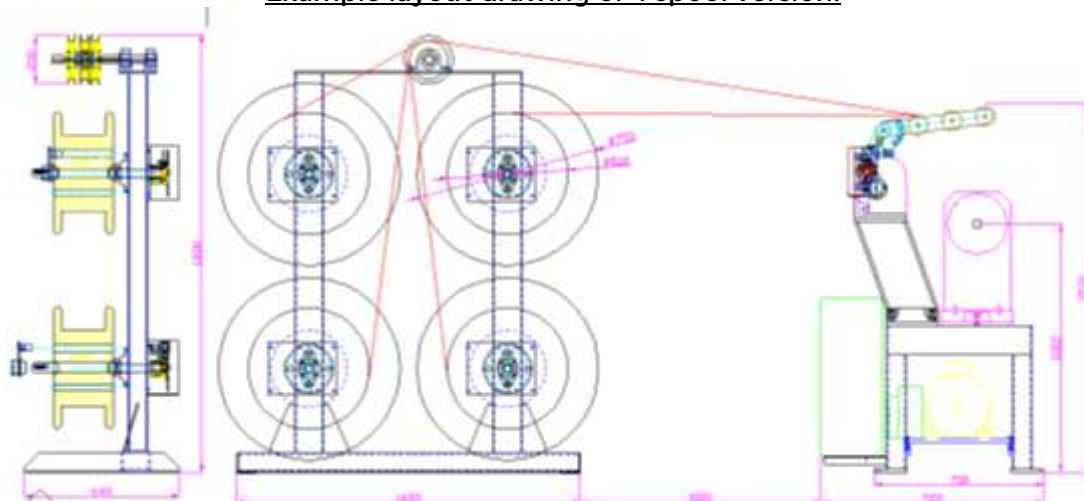
ERASAN SPOOL TENSIONING SYSTEM – (DP Series)

The Erasan range of heavy duty coil winders often require a tensioning device mounted behind the machine. For wire sizes greater than 1.0 mm the best method is to apply a braking force to the supply spool itself and not the wire.

Shown below are some the devices previously commissioned.

Number of spools			
1	2	4	32
			

Example layout drawing of 4 spool version.



TECHNICAL CHARACTERISTICS

Number of spools _____ 1, 2, 4, 32 versions available
 Wire Ø _____ 0.01 – 99 mm
 Spool Diameter _____ up to 500/750 mm
 Braking method _____ pneumatic controlled hydraulic caliper
 Delivery time _____ 60 Days from order confirmation

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4 COIL DE-SPOOLER - DESCRIPTION

This is a floor standing de-coiling machine, medium sized and easily placed in a factory or works. Profile wire de-coiling device, two levels, 4 spool capacity, with hydraulic disc braking system pneumatically controlled. All controls brought up to the machine, as shown below with hydraulic gauge indicators, and tension release switch:-



TECHNICAL CHARACTERISTICS

Max Weight per coil _____ 250 kg
 Max coil (spool) Ø _____ 750 mm
 Max No Spools _____ 4 pcs
 Please note that 1, 2, 8 & 32 spool versions are also available

Please speak with your local representative for further information or custom requirements.

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REPRESENTING
ACROSS EUROPE

ELECTRIC SPOOL TENSIONING SYSTEM (DPE Series)

DESCRIPTION

The Erasan range of heavy duty coil winders often require a tensioning device mounted behind the machine. For wire sizes greater than 1.0 mm the best method is to apply a braking force to the supply spool itself and not the wire.

Shown below are some the devices previously commissioned.

NUMBER OF SPOOLS			
2	2	4	4
			

TECHNICAL CHARACTERISTICS

Number of spools _____ 1, 2, 4, 32 versions available (others configurations on request)
 Wire _____ 0.01 - 99 mm
 Spool Diameter _____ up to 500/750 mm (others configurations on request)
 Braking device _____ Electric brake (pneumatic device on request)

Electric brake features:

Max tension _____ 35 Nm*
 Max. speed _____ 2.000 rpm
 Max. service temperature _____ 70 °C
 Power supply _____ 230 V
 Power consumption _____ 25 W
 Delivery time _____ 60 Days from order confirmation

*Other brake sizes available on request

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4 COIL DE-SPOOLER - DPE -4 -DESCRIPTION

This is a floor standing de-coiling machine, medium sized and easily placed in a factory or works. Profile wire de-coiling device, two levels, 4 spool capacity, The brake pulley is controlled by electrically powered magnetic particle braking system, giving *highly repeatable settings*, adjustable by potentiometer or integrated digitally into the main winding machine software.

All controls brought up to the machine, as shown below with Pot and tension release switch. Alternatively, the tension can be controlled from the winding machine's operating software, setting the desired tension independently for each winding and stored with that program / coil setup.



TECHNICAL CHARACTERISTICS

Max Weight per coil	250 kg
Max coil (spool) Ø	750 mm
Max No Spools	4 pcs
Standard spool shaft Ø	36 mm (others configurations on request)
Dimensions	750 X 780 X 1600 mm
Net weight	260 kg

Please note that 1, 2, 8 & 32 spool versions are also available Please speak with your local representative for further information or custom requirements

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SERVO DRIVEN SPOOL TENSIONING SYSTEM (DPSD Series-GB option)

The Erasan range of heavy duty coil winders often require a tensioning device mounted behind the machine. For wire sizes greater than 1.0 mm the best method is to apply a braking force to the supply spool itself and not the wire.

To meet the growing customer demand, working to improve control of the higher wire tensions required for larger wires and profile.

A new generation in profile wire tensioning and de-coiling.

Working similar to a foil machine in “**torque following**” mode, the torque to the winding axis is monitored and the reverse torque to driven de-coiler is controlled according to the required tension.

The operator can program a digital tension value that is measured and kept constant during the winding cycle.

Shown below: a previously commissioned device.



The range is available in standalone fixed units similar to the DP series of 1,2,4 up to 32 spool varieties.

GB - (GUIDER BASE) OPTIONS

However as shown above, there is the option to mount the whole de-coiler onto a ballscrew carriageway.

Reducing factory space requirements, the servo-driven de-coiler monitors the exact position of the guider on the machine, so the spool moves the same distance and with the same speed as the machine guider.

Example layout drawing of 4 spool version - fixed.

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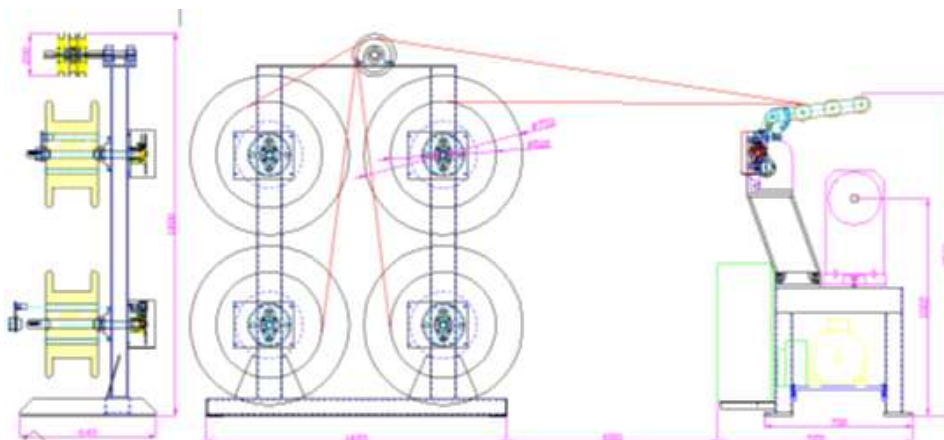
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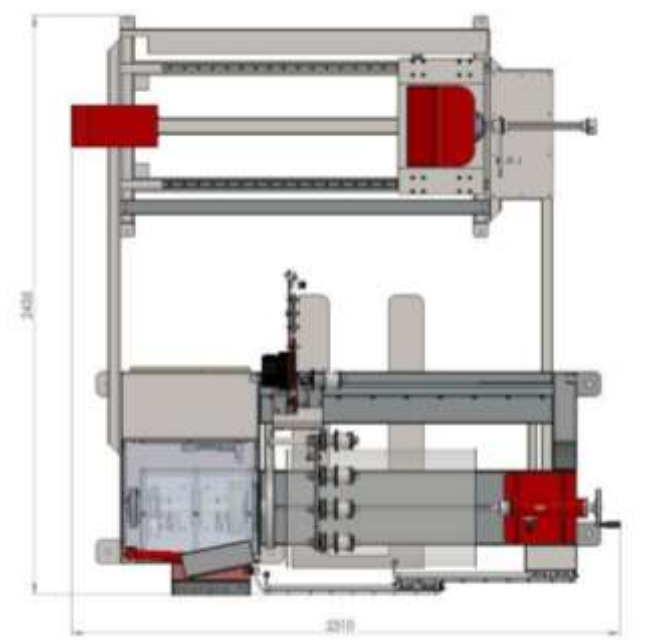
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Example layout drawing of 1 spool version - Guider Base (reduced footprint).



TECHNICAL CHARACTERISTICS

Number of spools	1, 2, 4, 32 versions available
Wire	0.01 - 99 mm
Spool Diameter	up to 500/750 mm
Standard spool shaft	36 mm (others configurations on request)
Tension control method	Servo motor "torque control"
Max torque (for DP1-SD model)	87 Nm (others configurations on request)
Power supply (for DP1-SD model)	2 kW (others configurations on request)
Max weight per coil	250 kg
Delivery time	60 Days from order confirmation

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TH3 - ELECTRONIC TENSIONER (For Heavy Duty Winding Machines)

DESCRIPTION

The TH3 is a floor standing style heavy duty tensioner. Suitable for wires 0.5 to 3 mm in diameter.

For maximum stability, provision has been made to enable this unit to be bolted to the floor.

The wire is perfectly guided as soon as it leaves the supply spool, through ceramic eyelets with soft felt pads and a set of adjustable pulleys to give the desired pre-tension, according to the thickness of the wire and without damaging the insulation.

The brake pulley is controlled by electrically powered braking system, giving **highly repeatable settings**, adjustable by digital potentiometer or integrated into the main winding machine software.

There are 2 different versions of the tensioner TH3.

The **TH3-S** (Standalone) version - This version is ideal to mount onto any machine; also available with the support stand.



The supply voltage is 230V single phase and the maximum power consumption is 25W.

We aim to be much more than a machinery supplier. Our team has a vast range of winding experience and is able to offer help and advice on all aspects of coil winding, from tooling design to machine choice and set-up.

COIL WINDING SOLUTIONS YOU CAN RELY ON

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In the **TH3-I** (integrated) **full version**, the tensioners are integrated with an Erasan winding machine and its controller.



The tension is controlled from the machine's operating software, setting the desired tension independently for each winding and stored with that program / coil setup.

SPECIFICATION

Model	TH3-S	TH3-I
Control Box	Yes	No (in winding machine program)
Floor stand	Optional	Optional
Erasan Machine Bracket	Optional	Optional

Maximum spool diameter _____ 500 mm
 Maximum spool height _____ 650 mm
 Working method _____ ELECTRICAL
 Max. Torque _____ 12 Nm
 Diameter TH3 _____ 137 mm
 Max. Tension _____ 18 kg
 Max. Speed _____ 2000 rpm
 Min. Speed _____ 40 rpm
 Max. Working Temp _____ 70° C
 Power Supply _____ 220Vac - 50/60 Hz
 Dimensions (mm) _____ 670x540x1755
 Weight _____ 95 kg
 Delivery Time _____ 30-60 Days from order confirmation
 (Please confirm at time of order)

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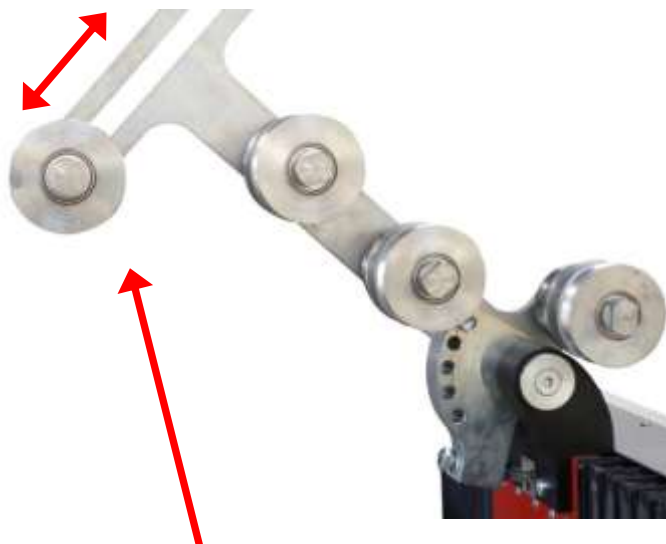
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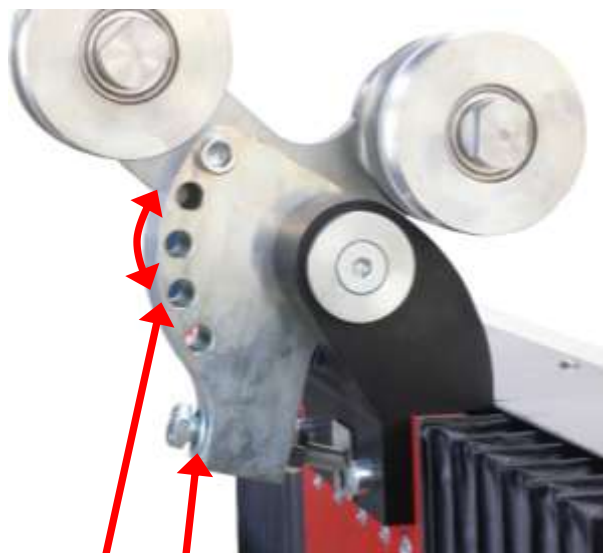
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PROFILE WIRE GUIDER GP1 - SINGLE WIRE

The Erasan range of heavy duty coil winders require a guide head system suitable for the application to be wound, many factors influence the choice of guide head, from wire size to wire type / profile etc. Shown below is the single profile wire guider, please do ask your local agent if you require a custom solution.



The front roller is also adjustable in height / angle. This “negative effect” roller can be used to produce an upward curve on the wire. When wound onto the flat sides of the bobbin the inverse curve of wire presses against the long flat edges of the bobbin, reducing the bow effect



The guide head angle is adjustable; Course adjustment in steps of 18° Fine adjustment from bolt underneath

The guide head has four profile rollers - adjustable width & wire insulation protecting Teflon side walls, as well as outer “V” groove roller for round wire



Standard Max wire width 40 mm
Option GP1-D Max Wire width 80 mm

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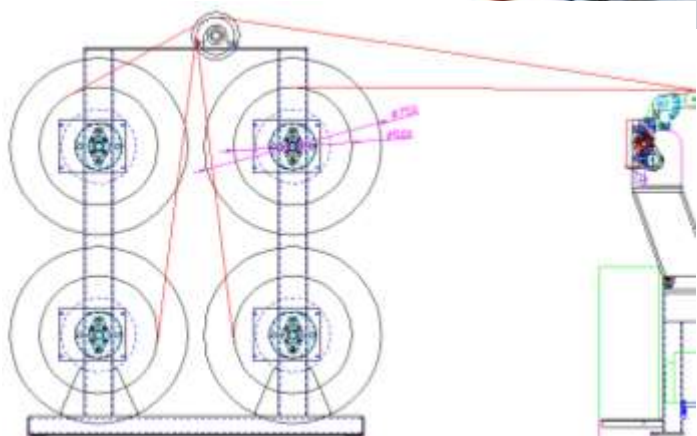
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PROFILE WIRE GUIDER GP2 - MULTIPLE WIRES

The Erasan range of heavy duty coil winders require a guide head system suitable for the application to be wound, many factors influence the choice of guide head, from wire size to wire type / profile. Shown below is the multi profile wire guider, however please do ask your local agent if you require a custom solution.



This guide has at the rear, a series of four parallel roller sets, each is mounted at 90° to the previous one and independently adjustable.



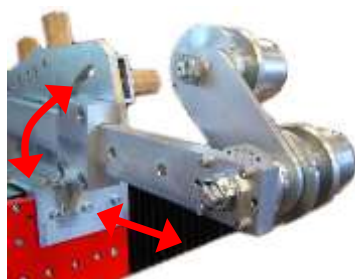
The front section of the guider head has two profile rollers, adjustable width & Teflon side walls to protect the wire insulation.

Standard* Max packet size
55 mm * 55 mm
*larger options available



The reason for this is to bring multiple wires coming from different supply spools together - forming a single packet to then wind onto the core / bobbin.

The front roller is also adjustable in angle. This "negative effect" roller can be used to produce an upward curve on the wire, meaning when wound onto flat sides of bobbin, the inverse curve of wire presses against the long flat edges, reducing the bow effect



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RANGE OF EXPANDABLE MANDRELS

ROUND style for heavy duty winding machines

Customers often need to wind foil or wire onto a mandrel which can be expanded during the winding process and then collapsed to allow the finished coil to be removed. Iron cores or laminations can then be inserted later in the production process.

Shown below are some examples of the previous designs we have made.



As can be seen in the photos, the expanding mandrel are finished with aluminium bars and wood mounted on the outer diameter. Each mandrel has a built in gearbox which is driven by a pneumatic hand tool, which expands the mandrel for winding and then collapses it for easy removal of the coil at the end of the winding process. Larger versions can be provided with an expanding and contracting mechanism that is powered by hydraulics.

TECHNICAL CHARACTERISTICS

Diameter		Length
Min	Max	
140	200	1100
250	425	1800
400	650	1800
500	820	2000
820	1300	2000

However, please do note that this is only a representative range, and nearly 90% of these mandrels are made to customer order and specifications.



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COIL WINDING SOLUTIONS YOU CAN RELY ON

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RANGE OF EXPANDABLE MANDRELS -

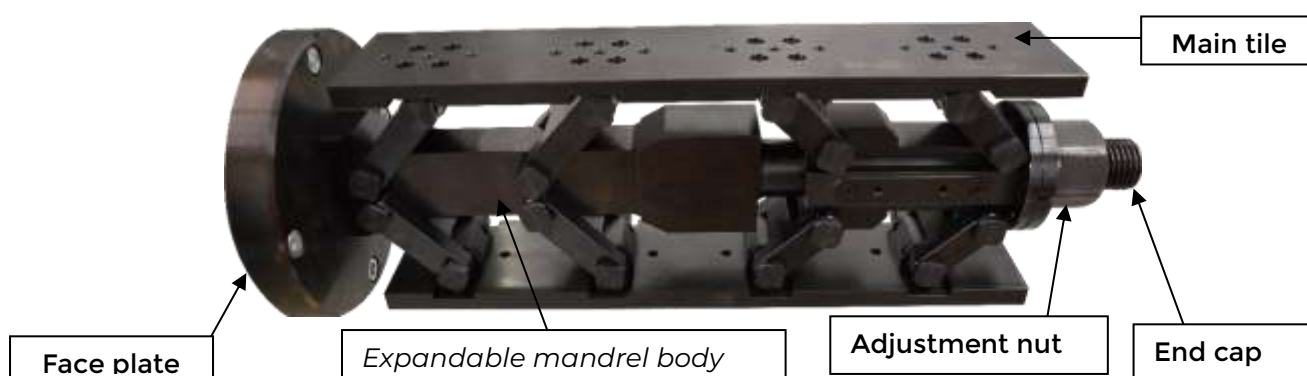
RECTANGULAR style for heavy duty winding machines



The new generation of expandable mandrels provide the possibility of winding with rectangular, circular or ovoid shape coils, without changing mandrel.

Allows winding with round & flat / profile wires as well as foil. Over the main tile the customer can assemble supplements with geometries according to the application.

Simple manual opening & can be mounted in cantilever or between points.

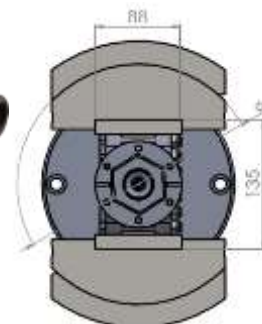


Both the main body and tiles are made of treated steel which ensures robustness and protection against rust and corrosion.

Wide range of opening add to its versatility.



Additional supplements can be mounted on the main mandrel to allow a variety of rectangular or ovoid cores to be wound.



Strong and robust design leads to high loading capacity

Faceplate & Tailstock coupling as well as the main dimensions of expandable mandrel are configurable to your requirements.



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FOIL WINDING MACHINE SERIES

One of the latest developments at Erasan Technology is the range of foil winding equipment, with high-tech control features, improving quality of winding and reducing maintenance to a minimum.

Shown below are some of the machines already delivered along with concept drawings showing a basic machine layout.

There are various configurations possible, up to 1500mm width. This allows winding of primaries easily and with very short production cycle times.



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COIL WINDING SOLUTIONS YOU CAN RELY ON

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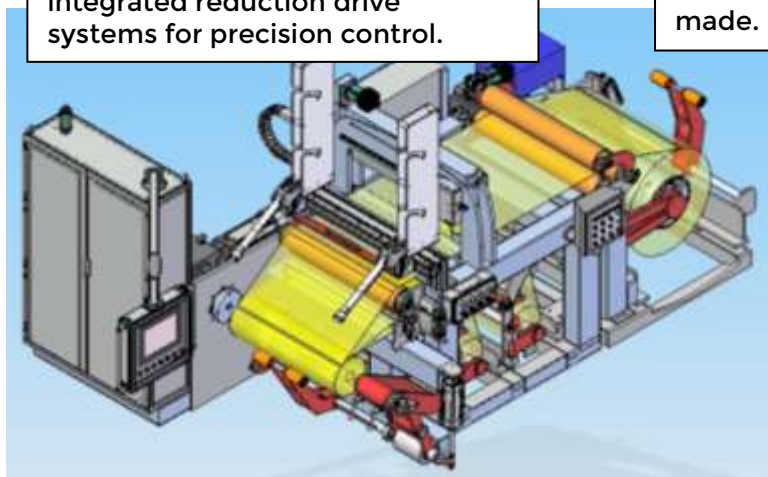


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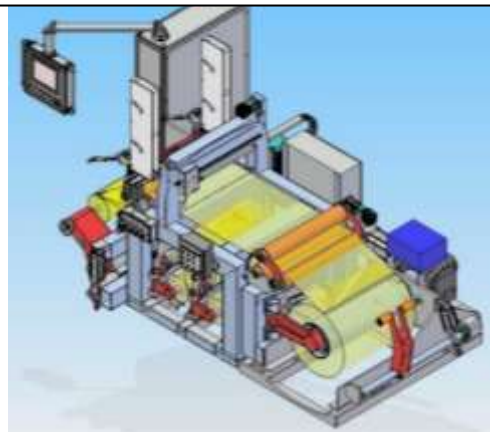
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The system incorporates high torque Parker servo motors with integrated reduction drive systems for precision control.



Expanding mandrels are made in house, to suit the exact requirement of the machine and product to be made.



Additional processes and stages of automation can be included in the function of the machine according to your requirements.
Shown here is a cold pressure welding station, used for fixing the terminal leads "in-line" during the winding.

TECHNICAL CHARACTERISTICS

Various configurations of machine are available depending on your application requirements, Eg: 1 foil, 1 insulator // 1 foil, 2 insulators // 2 foils, 2 insulators.

Max foil width _____ 300, 600, 900 up to 1500 mm
 Guider precision _____ built in sensor detecting the foil edge creates
 _____ a continuous feedback loop to ensure precise turn on turn foil layering
 Type of programming _____ CNC- industrial PC
 Approximate delivery time _____ 6-9 months from order confirmation.
 _____ (Please confirm at time of order)

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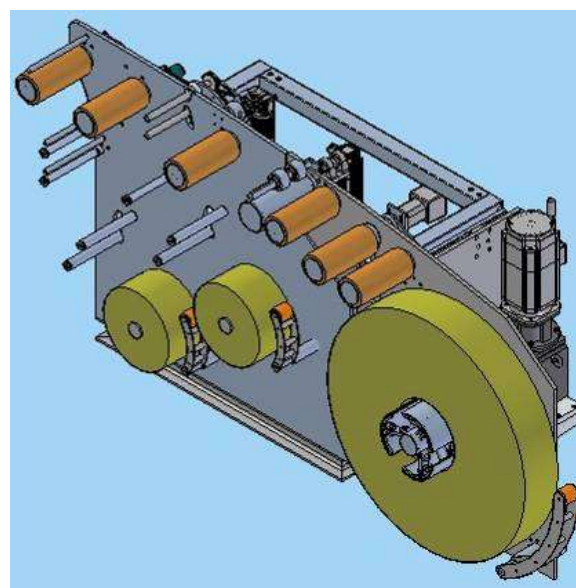
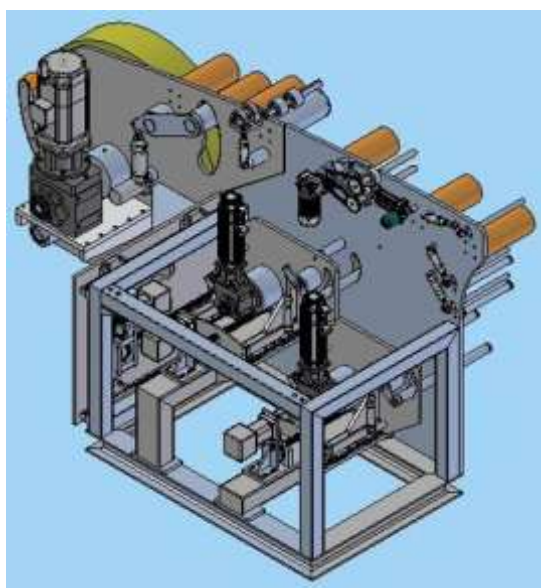
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STRIP FOIL WINDING MACHINE SERIES

One of the latest developments at Erasan Technology is the range of foil winding equipment, with high-tech control features, improving quality of winding and reducing maintenance to a minimum.

Primarily used for winding of *Cast Resin / Air Cooled* transformers, the machines shown below are some of those already delivered, along with concept drawings showing a basic machine layout.

There are various configurations possible, with coil widths up to 2.3M with a winding area of 1.8M. This allows winding of a wide range of transformer sizes and number of strips as required



We aim to be much more than a machinery supplier. Our team has a vast range of winding experience and is able to offer help and advice on all aspects of coil winding, from tooling design to machine choice and set-up.

COIL WINDING SOLUTIONS YOU CAN RELY ON

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Each mandrel's foil or insulation has independent traversing system, with feedback from an edge sensor, producing perfectly aligned coils

The system incorporates high torque Parker servo motors with integrated reduction drive systems for precision control.

Additional processes and stages of automation can be included in the function of the machine according to your requirements.
Shown here is a cold pressure welding station, used for fixing the terminal leads "in-line" during the winding.

TECHNICAL CHARACTERISTICS

Various configurations of machine available depending on your application requirements.
Eg. 1 foil, 1 insulator // 1 foil, 2 insulators.

Max foil width	25 up to 150 mm
Max foil Thickness	0.1 up to 1.5mm-Al (1.2mm-Cu)
Extent of traverse	up to 6,000 mm
Max Distance between points	up to 2,300 mm
Max coil width	up to 1,800 mm
Max coil Diameter	up to 1,300 mm
Max coil weight	up to 2,000 kg
Guider Precision	Built in sensor detecting the foil/paper edge creates independent feedback loop to ensure precise turn on foil layering
Type of programming	CNC- industrial PC

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FULLY AUTOMATIC BOBBIN WINDING MACHINE SERIES



Working with local partners throughout Europe



We aim to be the most reliable source of winding experience and is able to offer help and advice on all aspects of coil winding, from tooling design to machine choice and set-up.

1968 of winding experience and is able to offer

COIL WINDING SOLUTIONS YOU CAN RELY ON

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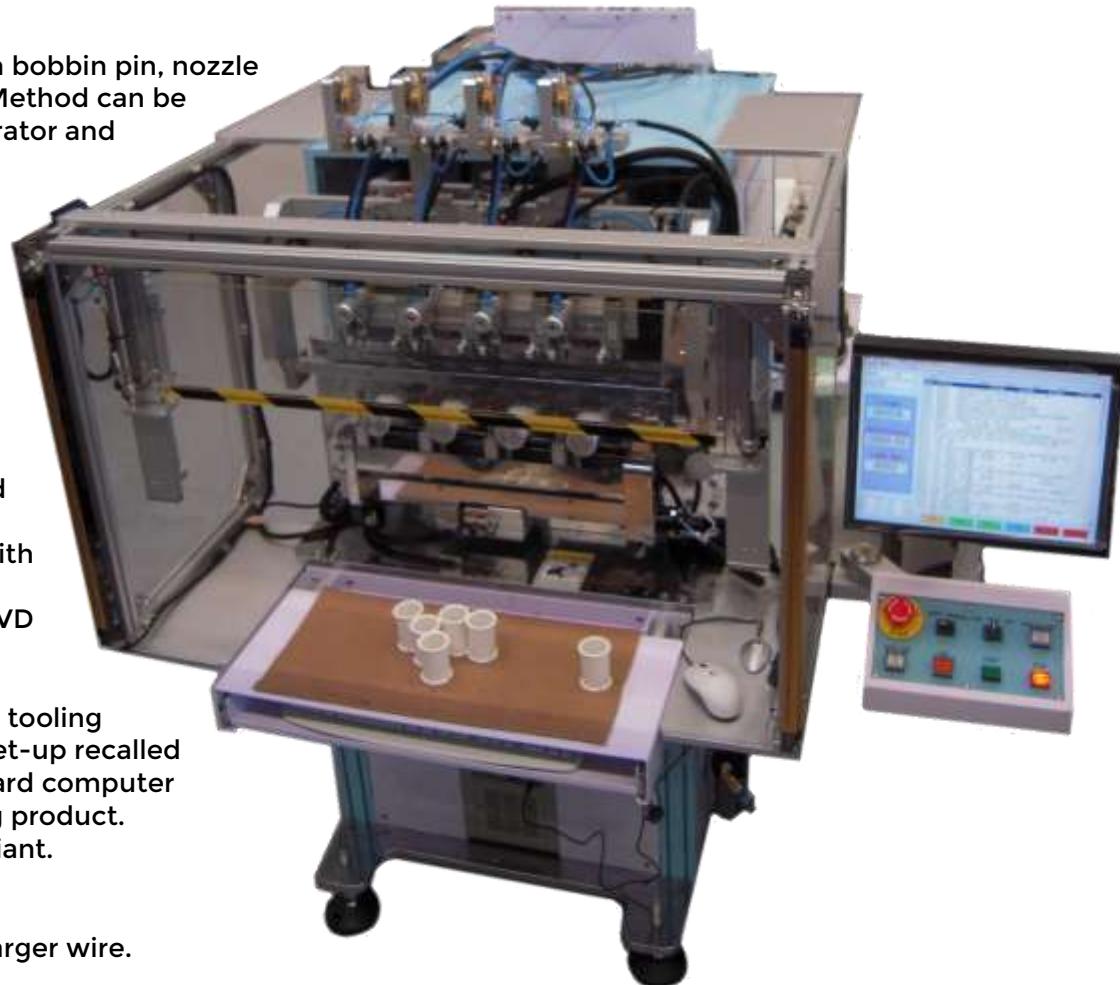
4 SPINDLE MULTI AXIS AUTOMATIC WINDING MACHINE

APPLICATION:

Relays, Automotive ABS coils, LCD coils, transformers, ignition coils, inductors, sensor coils, solenoids DVD reader, Inverter, Switching Power Supplies, Ballast Transformer and other bobbin-wound products....

Main features:

- The wire guide movement can be freely programmed in all 3 axes (X, Y, and Z).
- Wraps either radial or axial pins, - programmable nozzle movement through 0° and 90° angles.
- Wire cutting on bobbin pin, nozzle cut or nipper. Method can be chosen by operator and setup in the program.
- Simplified programming with teach-in programming system using 15" touch screen, windows based interface, industrial PC with USB, Ethernet network and DVD ROM facilities.
- Easy to change tooling and machine set-up recalled from the onboard computer when changing product.
- Fully CE compliant.



Options:

- Air nipper for larger wire.
- Load and unload shuttle transfer system (as shown).
- Skeining (twisting) unit.
- Customised accessories to suit your application.

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Main technical specifications

No. of spindles	4	
Wire size	0.02-0.5 mm	
Max traverse width	85 mm	
Spindle pitch	105 mm	
Max bobbin diameter	100 mm - less if load unload system used	
Spindle speed	9,000 rpm	
Spindle position accuracy	+- 0.1°	
Guide head drive motor	200W AC servomotor X, Y and Z axis	
Max movement of guide head	X (front/back)	100 mm
	Y (left/right)	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	
Interface	RS232 or USB	
Touch screen	15 inch	
Air supply	6 Bar	
Power supply	single phase 220V +-10% 50Hz	
Power consumption	3 KVA	
Weight	450 kg	
Dimensions (cm)	110(W) x 130(L) x 155(H) - excluding wire spool stand	



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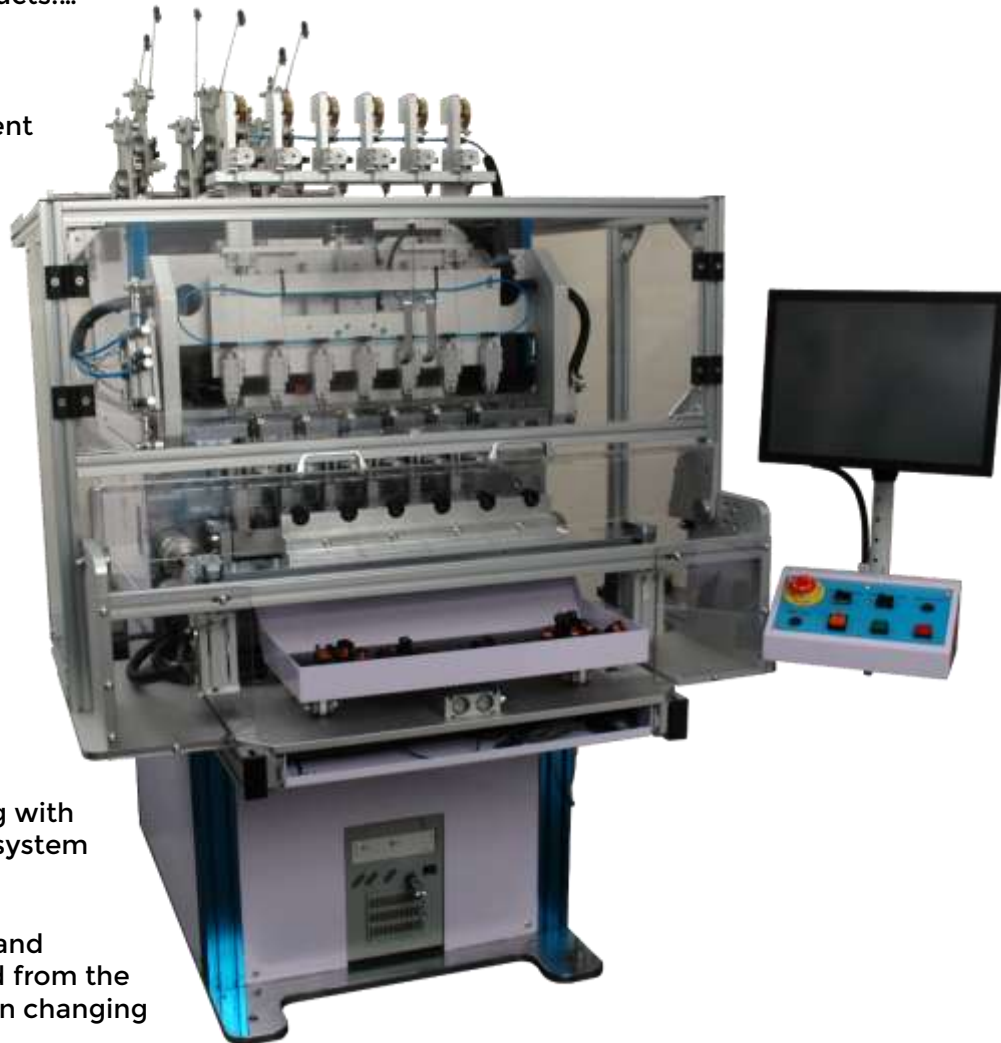
6 SPINDLE MULTI AXIS AUTOMATIC WINDING MACHINE

APPLICATION:

Relays, Automotive ABS coils, LCD coils, transformers, ignition coils, inductors, sensor coils, solenoids DVD reader, Inverter, Switching Power Supplies, Ballast Transformer and other bobbin-wound products....

Main features:

- The wire guide movement can be freely programmed in all 3 axes (X, Y, and Z).
- Wraps either radial or axial pins, - programmable nozzle movement through 0° and 90° angles.
- Wire cutting on bobbin pin, nozzle cut or air nipper. Method can be chosen by operator and setup in the program.
- Password function, prevent accidental program change.
- Simplified programming with teach-in programming system using 15" touch screen.
- Easy to change tooling and machine set-up recalled from the onboard computer when changing product.
- Fully CE compliant.



Options:

Air nipper for larger wire.
Load and unload shuttle transfer system (as shown).
Skeining (twisting) unit (as shown).
Customised accessories to suit your application.

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Main technical specifications

No. of spindles	6	
Wire size	0.02-0.5 mm	
Max traverse width	85 mm	
Spindle pitch	70 mm	
Max bobbin diameter	62 mm - 32 mm if load unload system used	
Spindle speed	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 (front/back)	100 mm
	Y (left/right)	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	
Interface	RS232 or USB	
Touch screen	15 inch	
Air supply	6 Bar	
Power supply	single phase 220V +-10% 50Hz	
Power consumption	3 KVA	
Weight	450 kg	
Dimensions (cm)	110(W) x 130(L) x 155(H) - excluding wire spool stand	



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8 SPINDLE MULTI AXIS AUTOMATIC WINDING MACHINE

APPLICATION:

Relays, Automotive ABS coils, LCD coils, transformers, ignition coils, inductors, sensor coils, solenoids DVD reader, Inverter, Switching Power Supplies, Ballast Transformer and other bobbin-wound products....

Main features:

- The wire guide movement can be freely programmed in all 3 axes (X, Y, and Z).
- Wraps either radial or axial pins, - programmable nozzle movement through 0°, and 90° angles.
- Wire cutting on bobbin pin, nozzle cut or air nipper. Method can be chosen by operator and setup in the program.
- Password function, prevent accidental program change.
- Simplified programming with teach-in programming system using 15" touch screen.
- Easy to change tooling and machine set-up recalled from the onboard computer when changing product.
- Fully CE compliant.

Options:

- Air nipper for larger wire.
- Load and unload transfer system (as shown).
- Skeining (twisting) unit (as shown).
- Customised accessories to suit your application.



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Main technical specifications	
No. of spindles	8
Wire size	0.02-0.5 mm
Max traverse width	85 mm
Spindle pitch	55 mm
Max bobbin diameter	50 mm - 25 mm if load unload system used
Spindle speed	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
Interface	RS232 or USB
Touch screen	15 inch
Air supply	6 Bar
Power supply	single phase 220V +-10% 50Hz
Power consumption	3 KVA
Weight	540 kg
Dimensions (cm)	110(W) x 130(L) x 155(H) - excluding wire spool stand



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12 SPINDLE MULTI AXIS AUTOMATIC WINDING MACHINE

APPLICATION:

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Main features:

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- Wraps either radial or axial pins, - programmable nozzle movement through 0°, and 90° angles.
- Wire cutting on bobbin pin, nozzle cut or nipper. Method can be chosen by operator and setup in the program.
- Password function, prevent accidental program change.
- Simplified programming with teach-in programming system using 15" touch screen.
- Easy to change tooling and machine set-up recalled from the onboard computer when changing product.
- Fully CE compliant.



Options:

- Automatic load / unload system.
- Load and unload shuttle transfer system (as shown below).
- Skeining (twisting) unit.
- Customised accessories to suit your application.

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Main technical specifications		
No. of spindles	12	
Wire size	0.02-0.3 mm	
Max traverse width	85 mm	
Spindle pitch	55 mm	
Max bobbin diameter	45 mm	
Spindle speed	12,000 rpm	
Spindle position accuracy	+- 0.1°	
Guide head drive motor	200W AC servomotor X , Y and Z axis	
Max movement of guide head	X (front/back)	100 mm
	Y (left/right)	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	
Interface	RS232 or USB	
Touch screen	15 inch	
Air supply	6 Bar	
Power supply	single phase 220V +-10% 50Hz	
Power consumption	3kwa	
Weight	650 kg	
Dimensions (cm)	110(W) x 150(L) x 155(H) - excluding wire spool stand	



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COIL WINDING SOLUTIONS YOU CAN RELY ON

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Contact us

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OPTIONAL ACCESSORIES FOR MULTI SPINDLE SERIES

When configuring the range of multi spindle machinery, several customer/application specific accessories may be required. We like to think we have one of the most comprehensive available, and can offer a solution to almost any winding requirement.

OPTIONS

Air Nipper for wire range 0.2mm-0.8mm



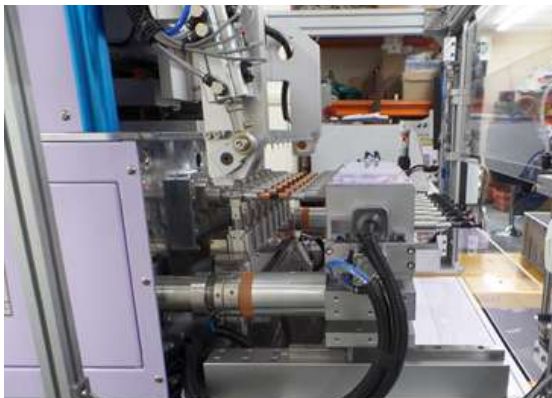
For cutting larger wire diameters the pin tear method will no longer work. In this case we can fit air operated cutters close to the nozzle head.

Tensioners stand



An essential piece of equipment to mount all supply spools of wire, the unit can be built to hold the required number of spools for the number of spindles on the winding machine. Offered with mobile options, changing reels can be done away from the machine,

Load and unload Turret Tailstock



Allows automated load and unload, improving the machine throughput/cycle, and allowing easy access for extra stations to be added to the line, e.g soldering, welding etc.

Skeining unit



When making a solder connection to fine wire, the mechanical strength of a single strand of wire may not be sufficient. The skeining unit reinforces the start and finish leads of the winding by twisting multiple strands of the wire together, so that they can withstand the soldering process.

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FULLY AUTOMATIC “AIR COIL” WINDING MACHINE

APPLICATION:

For winding self supporting coils using thermo-plastic coated wire.

The wire is heated using hot air as it is wound onto a former, bonding the turns together. At the end of the cycle, the former is then removed and the finished coil ejected from the machine.

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



Main features:

- Clamp/cut system, layer winding, coil unloading arm, wire lead picker, all fully automatic during each cycle - operatorless.
- Freely programmable pitch control & guider movements enabling precise layer winding.
- Freely programmable servo driven tailstock movements provides programmable coil width.
- Easy to integrate to other devices utilising available I/O; such as:-
 - Cold air jet,
 - Skeining unit,
 - Alcohol dispensing.
 - Electronic tensioner - with selectable tension during the wind cycle.
- 15" touch screen for easy setup, with industrial PC, network card, simple program backup to USB memory stick.
- Synchronously driven tailstock ensures precise tool alignment and allows for smaller core ID's.
- Temperature & Air flow of the hot air system is freely programmable.



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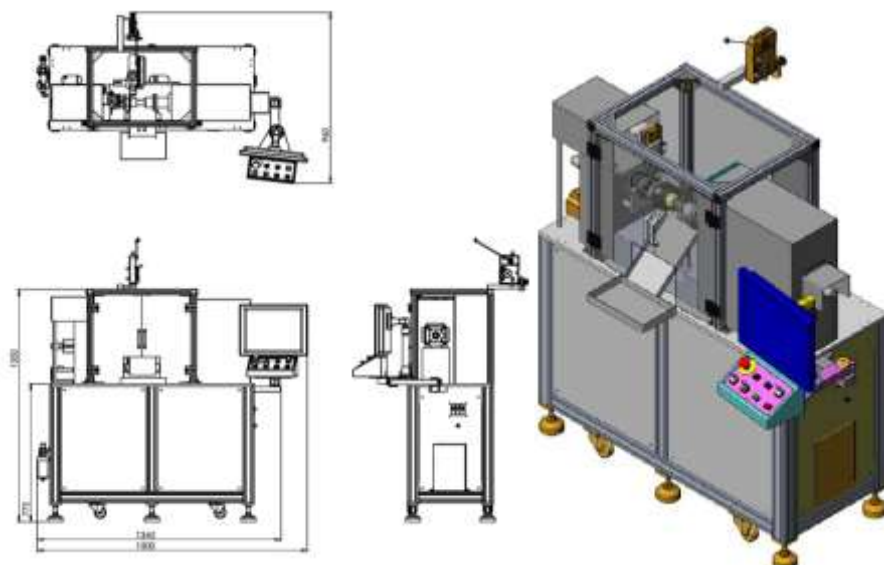
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Main technical specifications

Coil diameter - max	80 mm
Max Coil width larger available on request	< 25 mm
Wire size	0.04 - 0.60 mm
Motor driver	CNC 3 Axis AC servo motor synchronizing control
Controlling system - freely programmable	Windows interface PC with USB connector & DVD ROM
Programmable pitch resolution	0.001 mm
Bonding method	Hot air Max 600°C, 2.5Kw heater element Available with alcohol application
Spindle position accuracy	±0.1°
Max spindle speed	3000 rpm
Air supply // consumption	4.5-6 Bar // 80-100 L/min
Power supply	AC220V ±5% 50HZ
Power consumption	4KVA (including hot air bonding)
Weight (approx)	250kg



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MULTI AXIS AUTOMATIC WINDING MACHINE - RFID CHIP INDUCTOR WINDING.

APPLICATION:

0402, 0603, 0805, 1008 chip sizes and other ferrite-wound products....

Main features:

- The wire guide movement can be freely programmed in all 3 axes (X, Y, and Z).
- Built-in welding system to connect start and finish leads.
- Bowl fee ferrite component, Wire cutting on tooling clamp, guide over start pad on ferrite, weld, winding, guide over end pad, weld, cut end wire, remove ferrite, unload - all preformed in a fully automatic way.
- Password function, prevent accidental program change.
- Simplified programming with teach-in programming system using 15" touch screen.
- Easy to change tooling and machine set-up recalled from the onboard computer when changing product.
- Fully CE compliant.

Options:

- Load and unload to tape and reel.
- Various tooling can be designed depending on component requirements.
- Customised accessories to suit your application.



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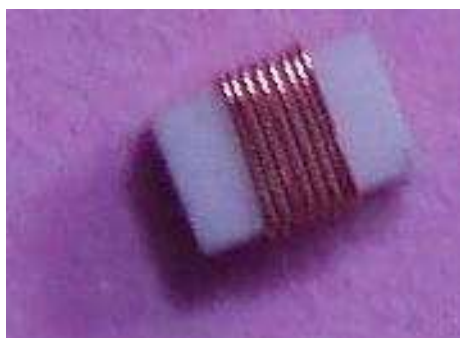


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Main technical specifications		
No. of spindles	1	
Wire size	0.025-0.1 mm	
Spindle speed	3,000 rpm	
Spindle position accuracy	=> 0.1°	
Nozzle movement	0.001 mm	
Spindle control	Winding spindle 3 Axis servo motor	Welding table 2 axis stepper motor
Welding machine	Adjustable parameters, 0-300 / Touch time 3 ms	
Control system	Panasonic FP Σ system	
Interface	Delta DOP-A57	
Touch screen	15 inch	
Air supply	6 Bar	
Power supply	single phase 220V +-10% 50Hz	
Power consumption	3 KW	
Weight	120 kg	
Dimensions (cm)	1070(W) x 800(L) x 1880(H) - excluding wire spool stand	



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E-FLY FLY WINDING MACHINE

DESCRIPTION.

This is a special machine for conducting coils used in alternators. As a single head, it produces one coil per cycle.

This machine is built on a steel chassis welded and aluminium profiles. The wire guide system is placed on linear bearing guides, which ensures a precise guide control and great robustness.

Key Features:

- **Programmable aperture of "nose tooling"**, using slip rings and servo motor
- Motor of wire guide Brushless servo motor
- Main motor Brushless servo motor with break
- Table positioning motor Brushless servo motor
- Protection Shield with pneumatic function controlled by program
- Specific software for this application.
- CE normative.



Technical Characteristics

Max Wire Ø (round)	1.2 mm
Max winding length.....	150 mm
Max. Ø of winding	270 mm
Main Motor, Brushless. (Medium Inertia).....	6,36 Nm
Wire guide motor, Brushless	2.2 Nm
Drive motors	By 3 Hi-tech Servos
Max. Winding speed	(1500 r.p.m)
Main controller	CTE-240
Software language (others available on request).....	English
Max. Programmable Pitch.....	9 mm
Spindle Accuracy	1/10
Guiding precision	0.01 mm
Dimensions (approx)	1250 x 1050 x 1250
Weight approx.	450 kg

Programming Characteristics

Max. No. of programmable windings (Standard 50).....	Max. 175
Max. No. of windings per coil (Standard 20)	Max. 200
Type of programming	CNC

DELIVERY TIME – 60 days from order confirmation

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BENCH TOP TOROID WINDING MACHINE SERIES



Working with local partners throughout Europe



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WH 900 TOROID WINDING MACHINE

SPECIFICATION

Program	TWC-01 digital controller holds up to 999 program sequences
Control	DC 400 W spindle motor with stepping motor for spreading
Features	Choice of Belt or Slider type winding heads both available in 4 or 6 inch versions
Package	Includes base, core rotator, winding head and your first shuttle

Wire size 0.05 – 1.1 mm (depending on machine
head type and shuttle size)

O D Range 8 – 60 mm

Min finished I.D 3 mm (depends on
shuttle size & core height)

Min wire size depends on shuttle
size and head type

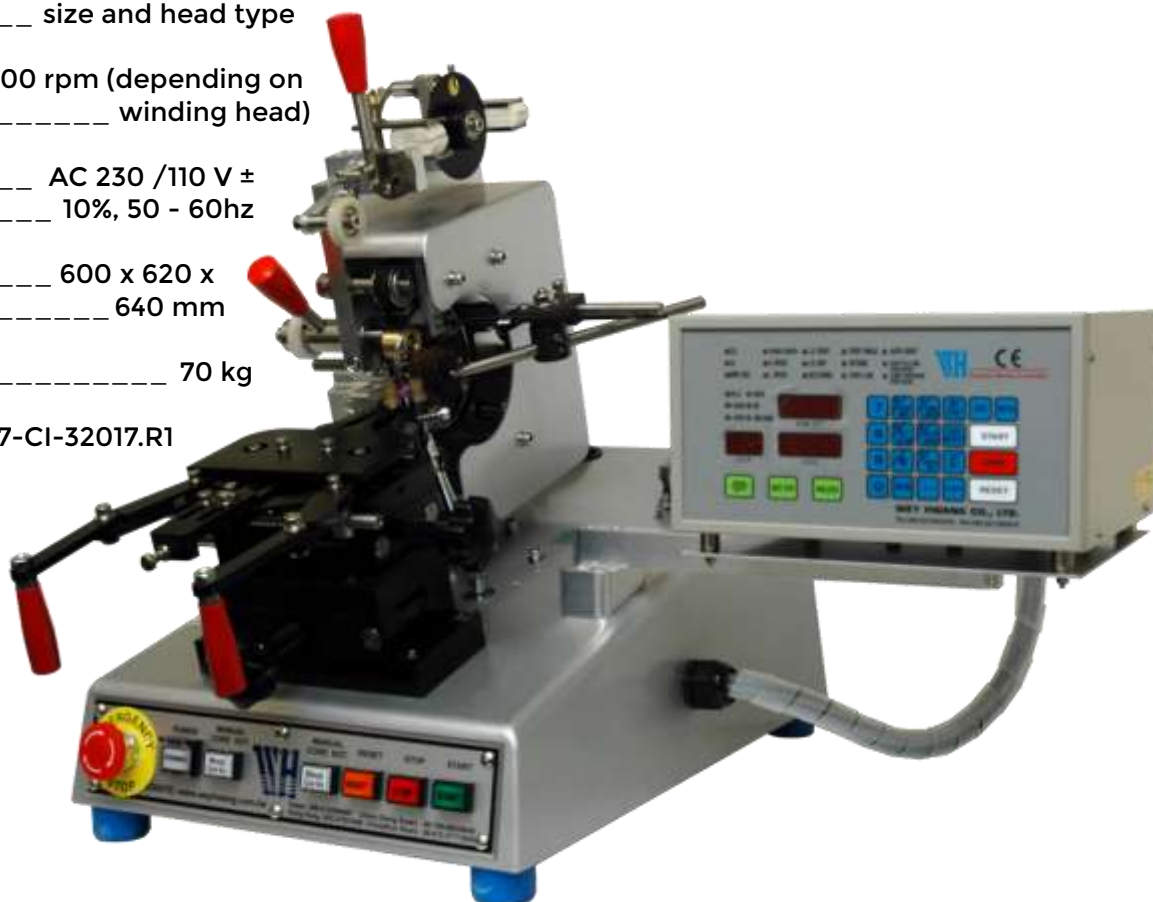
Max speed 1500 rpm (depending on
winding head)

Power AC 230 /110 V ±
10%, 50 - 60hz

Dims 600 x 620 x
640 mm

Net weight 70 kg

CE cert. no. 1377-CI-32017.R1



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OTHER HEADS THAT FIT THIS MACHINE BASE

HEAD TYPE	B4 BELT TYPE	B6 BELT TYPE	S4 SLIDER TYPE	S6 SLIDER TYPE
PICTURE				
COIL O.D.	5~60 mm	8~60 mm	8~60 mm	8~60 mm
MIN.FIN. I.D.	3 mm	6 mm	7 mm	7 mm
MAX. HEIGHT	25 mm	45 mm	25mm	45 mm
WIRE SIZE	0.12~0.8 mm	0.25~0.9 mm	0.04~0.35 mm	0.05~0.4 mm
SHUTTLE DIA.	100 mm	150 mm	100 mm	150 mm
SHUTTLE TYPE	1.8, 2.0, 2.4, 2.5, 2.8, 3.4, 4.7, 6.3, 7.9, 9.5	4.7, 6.3, 7.9, 9.5	3.4, 4.7, 6.3, 7.9, 9.5	4.7, 6.3, 7.9, 9.5

Min. Finished I.D. Will be different by shuttle size and coil height.

SHUTTLE WIRE CAPACITY CHART (IN FEET) - 1 FOOT = 304.8 mm

		FOR B4 & S4 TYPE											FOR B6 & S6 TYPE		
SHUTTLE PN		1.8	2.0	2.4	2.5	2.8	3.4	4.7	6.3	7.9	9.5	4.7	6.3	7.9	9.5
SHUTTLE WIDTH AWG NO.		1.8	2.0	2.4	2.5	2.8	3.0	3.7	5.1	6.4	7.1	3.7	5.1	6.4	7.1
0.912MM	19									13	23			19	35
0.813MM	20						3	5	12	16	28	8	18	24	43
0.724MM	21						4	7	14	20	35	11	22	30	53
0.643MM	22						5	8	18	25	43	12	27	38	65
0.574MM	23					4	6	10	22	30	54	15	33	46	81
0.511MM	24				4	5	8	13	27	38	67	20	41	57	101
0.455MM	25			4	5	7	10	16	34	48	84	24	51	71	125
0.404MM	26			5	6	8	12	20	42	59	104	30	63	87	153
0.361MM	27			6	7	10	15	24	52	73	128	36	78	108	191
0.320MM	28			7	9	12	18	30	65	90	159	45	98	134	236
0.287MM	29			10	11	15	23	38	80	113	198	56	120	167	293
0.254MM	30			12	14	19	28	47	100	140	245	69	150	206	363
0.226MM	31			14	18	24	35	58	123	173	304	86	186	255	450
0.203MM	32			23	22	29	44	72	153	215	377	107	230	318	558
0.180MM	33			28	27	36	54	89	190	267	468	132	284	393	690
0.160MM	34			35	33	45	67	110	235	330	579	165	354	487	854
0.142MM	35				41	56	83	136	292	410	719	204	438	602	1057
0.127MM	36							169	362	508	891	252	542	746	1309
0.114MM	37							209	449	630	1105	312	671	923	1620
0.102MM	38							260	556	781	1370	387	830	1142	2005
0.089MM	39							322	690	969	1700	479	1027		
0.079MM	40							399	855	1200	2108	592	1272		
0.064MM	41							495	1060	1490	2614				
0.056MM	42							615	1315	1847	3240				
0.051MM	43							763	1631	2290	4020				
0.046MM	44							946	2022						
COLOUR INDICATION		WHITE : FOR B4 TYPE											WHITE : FOR B6 TYPE		
		YELLOW : FOR B4 & S4 TYPE											YELLOW : FOR B6 & S6 TYPE		
		GREEN : FOR S4 TYPE											GREEN : FOR S6 TYPE		

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WH 900A TOROID WINDING MACHINE

SPECIFICATION

Program	TWC-01 digital controller holds up to 999 program sequences
Control	DC 400 W spindle motor with stepping motor for spreading
Features	Choice of Belt or Slider type winding heads both available for 8 inch shuttle diameter
Package	Includes base, core rotator, winding head, your first shuttle, and comprehensive manual

Wire size _____ 0.3 - 1.2 mm
_____ (depending on machine head
_____ type and shuttle size)

O D Range _____ 40 - 120 mm

Min finished I.D __ 12 mm (depends on
_____ shuttle size & core height)

Min wire size _____ depends on
_____ shuttle size and head type

Max speed __ 1200 rpm (depending on
_____ winding head)

Power _____ AC 230 / 110 V \pm 10%,
_____ 50 - 60 Hz

Dims _____ 770 x 690 x 550 mm

Net weight _____ 80 kg

CE cert. no. _____ 1377-CI-32017.R1



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HEAD TYPE	B8 BELT TYPE	S8 SIDE SLIDER TYPE
PICTURE		
COIL O.D.	40~120 mm	40~120 mm
MIN.FIN. I.D.	12 mm	15 mm
MAX. HEIGHT	80 mm	80 mm
WIRE SIZE	0.3~1.1 mm	0.3~0.8 mm
SHUTTLE DIA.	220 mm	220 mm
SHUTTLE TYPE	8, 10, 12, 15, 17, 20	8, 10, 12, 15, 17, 20
* Finished ID will vary according to shuttle specification and coil height		

SHUTTLE WIRE CAPACITY CHART (FEET) 1 FOOT = 304.8 mm

		FOR B8 & S8 TYPE					
SHUTTLE WIDTH		8	10	12	15	17	20
1.290 mm	AWG NO.16		60	77	99	149	240
1.151 mm	AWG NO.17		76	97	125	186	302
1.024 mm	AWG NO.18	49	95	122	158	236	382
0.912 mm	AWG NO.19	61	121	155	199	297	481
0.813 mm	AWG NO.20	77	151	194	250	374	605
0.724 mm	AWG NO.21	97	204	246	315	471	763
0.643 mm	AWG NO.22	123	246	311	400	598	968
0.574 mm	AWG NO.23	155	303	391	501	750	1214
0.511 mm	AWG NO.24	194	383	492	633	946	1532
0.455 mm	AWG NO.25	247	483	621	798	1193	1932
0.404 mm	AWG NO.26	312	613	788	1013	1513	2451
0.361 mm	AWG NO.27	393	768	986	1268	1895	3069
0.320 mm	AWG NO.28	498	972	1256	1614	2411	3906

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WH 300 TOROID WINDING / TAPING MACHINE

SPECIFICATION

Program	TWC-01 digital controller holds up to 999 program sequences
Control	DC 400 W spindle motor with stepping motor for spreading
Features	Choice of three Gear type winding heads & three taping heads, fully controllable spreading
Package	Includes base, core rotator, head and your first shuttle
Wire size	_____ 0.5 - 2.6 mm (depending on _____ machine head type and shuttle size)
O D Range	_____ 40 - 250 mm
Min finished I D	_____ 25 mm (depends on _____ shuttle size & core height)
Min wire size	_____ depends on _____ shuttle size and head type
Max speed	_____ 250 rpm (depending on _____ winding head)
Power	_____ AC 230 /110 V \pm 10%, _____ 50 - 60hz
Dims	_____ 690 x 630 x 780 mm
Net weight	_____ 90 kg
CE cert. no.	1377-CI32017.R1



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HEAD TYPE	G10S WINDING	G10B WINDING	G13 WINDING	T10S TAPING	T10B TAPING	T13 TAPING
PICTURE						
COIL O.D.	40~150 mm	60~150 mm	80~250 mm	40~150 mm	60~150 mm	80~250 mm
MIN.FIN. I.D.	25 mm	35 mm	45 mm	25 mm	35 mm	45 mm
MAX. HEIGHT	80 mm	80 mm	120 mm	80 mm	80 mm	120 mm
WIRE SIZE	0.5~1.5 mm	0.5~2.2 mm	0.5~2.6 mm	-	-	-
SHUTTLE DIA.	250 mm	250 mm	350 mm	250 mm	250 mm	350 mm
SHUTTLE TYPE	8, 12, 16, 20, 25	8, 12, 16, 20, 25	11, 14, 17 20, 23, 26	TAPE WIDTH 4~8 mm	TAPE WIDTH 8~15 mm	TAPE WIDTH 12~25 mm
Min. Finished I.D. Will be different by shuttle size and coil height.						

SHUTTLE WIRE CAPACITY CHART (FEET) 1 FOOT=304.8mm

	G10S					G10B					G13					
SHUTTLE WIDTH - MM	8	12	16	20	25	8	12	16	20	25	11	14	17	20	23	26
Approx Min Finished ID	25	29	33	38	42	35	39	43	48	52	45	48	51	54	57	60
2.590mm AWG 10											68	95	124	153	182	211
2.300mm AWG 11						17	34	51	68	88	86	122	158	194	231	267
2.050mm AWG 12						21	42	63	84	109	107	153	199	245	291	337
1.830mm AWG 13						27	54	81	108	140	134	192	249	307	365	422
1.630mm AWG 14	19	38	57	76	99	34	68	102	136	177	169	242	314	387	460	532
1.450mm AWG 15	24	48	72	96	125	42	84	126	168	218	214	306	398	490	581	672
1.290mm AWG 16	31	62	93	124	161	53	106	156	212	276	270	386	502	618	734	850
1.151mm AWG 17	39	78	117	156	203	67	134	201	268	348	339	485	631	777	922	1067
1.024mm AWG 18	49	98	147	196	255	84	168	252	336	437	429	613	797	981	1165	1349
0.912mm AWG 19	61	122	183	244	317	107	214	321	428	556	541	773	1004	1237	1469	1700
0.813mm AWG 20	77	154	231	308	400	135	270	405	540	702	680	973	1265	1556	1848	2139
0.724mm AWG 21	97	194	291	388	504	170	340	510	680	884	859	1227	1594	1962	2330	2698
0.643mm AWG 22	123	246	269	492	640	220	440	660	880	1144	1088	1555	2021	2488	2954	3421
0.574mm AWG 23	155	310	465	620	806	275	550	825	1100	1430	1366	1951	2536	3122	3707	4292
0.511mm AWG 24	195	390	585	780	1014	350	700	1050	1400	1820	1724	2462	3200	3939	4677	5416

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WH 900 T6 TOROID TAPING MACHINE

SPECIFICATION

Program TWC-01 digital controller holds up to 999 program sequences

Control DC 400 W spindle motor with stepping motor for spreading

Package Includes base, core rotator, Taping head and your first shuttle

Tape Width _____ 4 mm - 10 mm
_____ (depends on shuttle Width)

O D Range _____ 8 - 60 mm

Min finished _____ 15 mm (depends on
I D _____ shuttle size & core height)
_____ 45mm Max. Height

Shuttle Dia _____ 150 mm

Max speed _____ 300 rpm
_____ (depending on winding head)

Power _____ AC 230 /110 V \pm 10%,
_____ 50 - 60 Hz

Dims _____ 780 x 780 x 1250 mm

Net weight _____ 90 kg

CE cert. no. _____ 1377-CI-32017.R1



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COIL WINDING SOLUTIONS YOU CAN RELY ON

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Unit 5L, Delta Drive, Tewkesbury, Glos. GL20 8HB. United Kingdom.







Contact us

Tel: +44 (0) 1684 273164

Email: enquiry@ingridwest.co.uk

OTHER HEADS THAT FIT THIS MACHINE BASE

HEAD TYPE	B4 BELT TYPE	B6 BELT TYPE	S4 SLIDER TYPE	S6 SLIDER TYPE
PICTURE				
COIL O.D.	5~60 mm	8~60 mm	8~60 mm	8~60 mm
MIN.FIN. I.D.	3 mm	6 mm	7 mm	7 mm
MAX. HEIGHT	25 mm	45 mm	25 mm	45 mm
WIRE SIZE	0.12~0.8 mm	0.25~0.9mm	0.04~0.35 mm	0.05~0.4 mm
SHUTTLE DIA.	100 mm	150 mm	100 mm	150 mm
SHUTTLE TYPE	2.4, 2.5, 2.8, 3.4 4.7, 6.3, 7.9, 9.5	4.7, 6.3, 7.9 9.5,12.7, 15.6	4.7, 6.3, 7.9, 9.5	4.7, 6.3, 7.9 9.5,12.7, 15.6
Min. Finished I.D. Will be different by shuttle size and coil height.				

SHUTTLE WIRE CAPACITY CHART (IN FEET) 1 FOOT = 304.8 mm

SHUTTLE WIDTH		FOR B4 & S4 TYPE								FOR B6 & S6 TYPE					
		2.4	2.5	2.8	3.4	4.7	6.3	7.9	9.5	4.7	6.3	7.9	9.5	12.7	15.6
0.912MM	AWG NO.19							13	23			19	35	58	
0.813MM	AWG NO.20				3	5	12	16	28	8	18	24	43	72	
0.724MM	AWG NO.21				4	7	14	20	35	11	22	30	53	89	
0.643MM	AWG NO.22				5	8	18	25	43	12	27	38	65	111	
0.574MM	AWG NO.23			4	6	10	22	30	54	15	33	46	81	138	207
0.511MM	AWG NO.24		4	5	8	13	27	38	67	20	41	57	101	170	255
0.455MM	AWG NO.25	4	5	7	10	16	34	48	84	24	51	71	125	211	316
0.404MM	AWG NO.26	5	6	8	12	20	42	59	104	30	63	87	153	216	324
0.361MM	AWG NO.27	6	7	10	15	24	52	73	128	36	78	108	191	324	486
0.320MM	AWG NO.28	7	9	12	18	30	65	90	159	45	98	134	236	400	600
0.287MM	AWG NO.29	10	11	15	23	38	80	113	198	56	120	167	293	496	744
0.254MM	AWG NO.30	12	14	19	28	47	100	140	245	69	150	206	363	613	919
0.226MM	AWG NO.31	14	18	24	35	58	123	173	304	86	186	255	450	759	1140
0.203MM	AWG NO.32	23	22	29	44	72	153	215	377	107	230	318	558	940	1410
0.180MM	AWG NO.33	28	27	36	54	89	190	267	468	132	284	393	690	1163	1745
0.160MM	AWG NO.34	35	33	45	67	110	235	330	579	165	354	487	854	1440	2160
0.142MM	AWG NO.35		41	56	83	136	292	410	719	204	438	602	1057	1782	2673
0.127MM	AWG NO.36					169	362	508	891	252	542	746	1309	2205	3300
0.114MM	AWG NO.37					209	449	630	1105	312	671	923	1620	2730	4000
0.102MM	AWG NO.38					260	556	781	1370	387	830	1142	2005		
0.089MM	AWG NO.39					322	690	969	1700	479	1027				
0.079MM	AWG NO.40					399	855	1200	2108	592	1272				
0.064MM	AWG NO.41					495	1060	1490	2614						
0.056MM	AWG NO.42					615	1315	1847	3240						
0.051MM	AWG NO.43					763	1631	2290	4020						
0.046MM	AWG NO.44					946	2022								
COLOUR INDICATION		WHITE : FOR B4 TYPE YELLOW : FOR B4 & S4 TYPE GREEN: FOR S4 TYPE								WHITE : FOR B6 TYPE YELLOW : FOR B6 & S6 TYPE GREEN: FOR S6 TYPE					

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WH 300 G7 TOROID WINDING MACHINE

SPECIFICATION

Program	TWC-01 digital controller holds up to 999 program sequences
Control	DC 400 W spindle motor with stepping motor for spreading
Features	The Gear type winding heads was designed for winding small coil with precise winding requirement.
Package	Includes base, core rotator, head and your first shuttle
Wire size	_____ 0.5 - 2.6 mm (depending on shuttle size)
O D Range	_____ 28 - 80 mm
Min finished I D	_____ 15 mm (depends on shuttle size & core height)
Shuttle Dia.	_____ 175 mm
Max speed	_____ 300 rpm
Power	_____ AC 230 /110 V \pm 10%, 50 - 60 Hz
Dims	_____ 690 x 630 x 780 mm
Net weight	_____ 85 kg
CE cert. no.	_____ 1377-CI-32017.R1



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WH 200 HOOK WINDER

SPECIFICATION

Program Digital controller capable of holding data for 999 winding operations, Fully programmable pitch per turn (wire spacing). Start position, winding direction and segment winding angle programmable.
In semi-automatic mode, hold-time is programmable at top and bottom of stroke

Control Pneumatically operated hook
Mechanically adjustable stroke length
Turns counted digitally

Full control of core rotation using stepping motor

Package Includes full height cabinet, digital controller and one hook
Air cylinder, filter & regulator;
stepper motor system

Hook sizes ____ 3 standard hook sizes, with
_____ specials available

Wire size _____ 0.3 ~ 2.2 mm

O.d. range _____ 15 ~ 80 mm

Air supply _____ Typically 5 Bar

Power supply _ AC 230 /110 V \pm 10%, 50 - 60 Hz

Dimensions _____ 70 x 55 x 150 cm

Hook data

Hook type	H5	H8	H10
Hook size	5 mm	8 mm	10 mm
Min. finished i.d	8 mm	11 mm	14 mm



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HOOK WINDER SKS "PULLWINDER"

Pneumatically driven needle hook

Package Bench mounting base and one hook, Air cylinder, filter & regulator with pneumatic foot pedal

Hook sizes _____ 3 standard hook sizes
_____ -with specials available

Wire Range _____ 0,2 ~ 3.5 Ø mm

Core OD Range _____ 15 ~ 80 Ø mm

Hook Sizes _____ 3, 6, 8 & 10 mm

Air supply _____ Typically 5 Bar

Weight _____ 45 kg

Dimensions _____ 40 x 30 x 90cm



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Hook winder with 3 stroke dimensions:

Type	SKS 50-200	SKS 50-320	SKS 50-400
Height mm ca.	920	1160	1280
Wire range	ø0,2 mm to ø3,5 mm		
Coil diameter (OD MAX)	ø15 mm ~ ø150 mm		
Air supply	8 bar	8 bar	8 bar
Cylinder Festo	DNC-50-200	DNC-50-320	DNC-50-400



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TAPE WINDER - "AIR JET"

The Air jet is a rapid way to tape small Toroidal cores, giving machine wound repeatability and quality on every product run.



- Cutting length between 20-999 mm
- Tape width from 7mm up to 50 mm

Simple operation process...

Place the core



Hold tape over top of toroid



With the help of "Air Jet", the tape will be pushed through the core, after that, we have to bring the tape over the top of the toroid to produce the wound tape turns...

The finished taped core



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WINDING SHOP FLOOR PRODUCTION AIDS



Working with local partners throughout Europe



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COIL HANDLING / PACKING TRAYS

Damage, rework and scrap currently adds to manufacturing costs, making companies uncompetitive in World markets. Prevention is the key; maintain the conformance of each part by using good work handling practices.

A range of standard containers available for protection of precision components. We can also create customised containers to protect even the most complex shapes and sizes. These are precision moulded to offer smart presentation and protection, especially ideal for transportation of coils. Made from High density EPS, these trays very light (55 grams / Litre) whilst still very strong means they can be used again and again and again...

Features and benefits include:

EXCELLENT PROTECTION:

Prevent accidental impact, Protection from contamination / oil, Thermal properties protect from extreme temperatures. Protection when shipped to and from subcontractors

PRECISION MOULDED:

Smart presentation and good part location

PARTS SEGREGATION:

Reduces transit damage and rework. Up to 250 stock sizes / types available, however this method of tray production results in LOW tooling costs, meaning we can produce new designs to exactly match your product / assembly... Option available for foam lined base for use with PCB / Pin type bobbins.

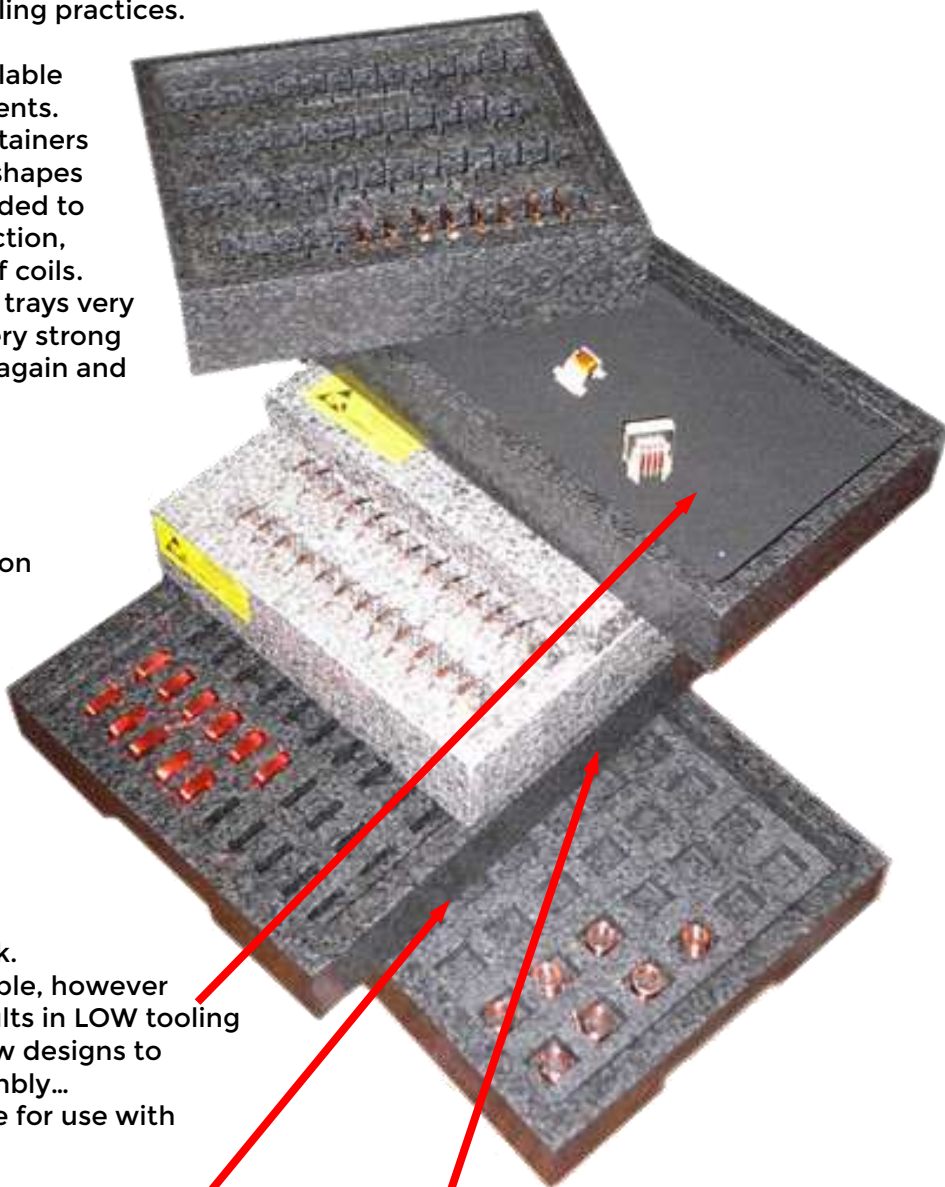
CONDUCT-A-PAK:

Option for material to be static/electrical compliant
STACKABILITY:

Fitted lids are available to make trays stackable to minimise storage costs

PRODUCT ENHANCEMENT:

Can be made with embossed company logo for clear identification.
Available in range of colours, either to support corporate identity or for product coding



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CREATE YOUR OWN DESIGN

For simple Box section cavity designs, please fill in the following form, and return to us, we will then be able to make a quotation.

Name _____ Company _____

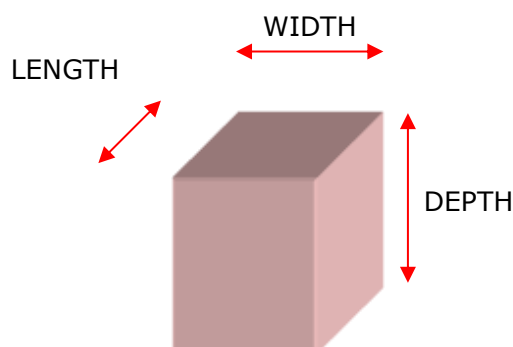
E-mail _____ Phone _____

Compartment / Cavity size

LENGTH _____ MM

WIDTH _____ MM

DEPTH _____ MM



Tray size

Column across _____ PIECES

Rows Down _____ PIECES

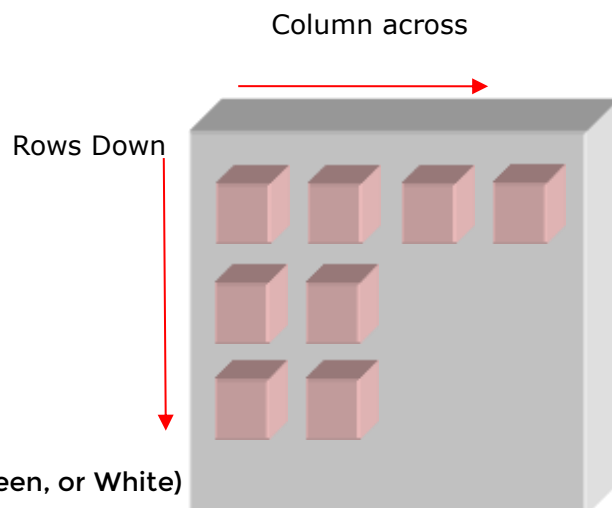
Options

Tray Lid required YES / NO (allows stacking)

Antistatic material YES / NO

Colour: (Black, Blue, Brown, Yellow, Olive Green, or White)

Number of trays required _____ PIECES



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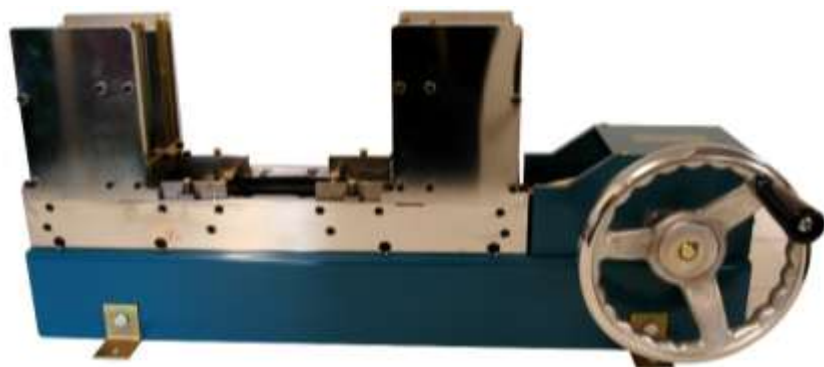
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E I LAMINATION STACKING MACHINES



These machines stack standard EI laminations in a wide range of sizes, from EI-19 to EI-180 & UI & EE ranges.

Other sizes are available; please contact us to discuss your requirements.



Laminations of 0.35 mm to 0.5 mm thick are stacked at up to 300 pieces per minute, manually or automatically, with full interleaving.

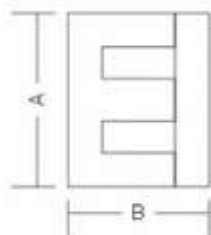
Standard range, manual: -

EI-19	EI-24	EI-25.4	EI-28	EI-30	EI-35	EI-36	EI-38	EI-41	EI-42
EI-43	EI-48	EI-54	EI-57	EI-60	EI-66	EI-66.7	EI-75	EI-76.2	EI-78
EI-84	EI-85.8	EI-96	EI-105	EI-114	EI-4.5-3.75	EI-120	EI-133.2	EI-135	EI-150
EI-152.4	EI-162	EI-6 3/8	EI-171	EI-180	EI-196				

Standard range, automatic: -

EI-36	EI-38	EI-41	EI-42	EI-43	EI-54	EI-57	EI-60	EI-66	EI-66.7
EI-76.2	EI-85.8	EI-96	EI-105	EI-114	EI-133.2	EI-152.4	EI-162	EI-196	

Other sizes & OEM laminations available to order.



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RANGE OF WIRE STRIPPING MACHINES



We offer three types of enamel Wire removal systems, the choice between them mainly depends of wire size and application.

Features	Wire Range (mm)	Stripping	Dimensions (mm)	Product Picture
----------	-----------------	-----------	-----------------	-----------------


WH-S03

<p>A fast and inexpensive method of wire stripping, Removal of enamel coating on copper wire with automatic dust collection</p> <p>In-feed length - 1.7 mm - how close the machine can strip from coil body</p> <p>Tooling - Five blades to remove wire enamel</p>	0.4 - 3.0	<p>Single wire only</p> <p>(round)</p> <p>5 Knife Blades</p>	280L * 160W * 200H	
--	-----------	--	--------------------	---

WH-S02

<p>Removal of enamel coating on copper wire with fine adjustability for small wire diameters</p> <p>There are 2 Fiberglass wheels types available, each suited to a specific wire range.</p> <table><tr><th>Size</th><th>Recommended wire range</th></tr><tr><td>1</td><td>0.18 mm to 0.40 mm</td></tr><tr><td>0</td><td>0.03 mm to 0.16 mm</td></tr></table>	Size	Recommended wire range	1	0.18 mm to 0.40 mm	0	0.03 mm to 0.16 mm	<p>Max 0.4</p>	<p>Single wire only</p> <p>2 Fiberglass wheels</p>	<p>280L * 160W * 200H</p>	 
Size	Recommended wire range									
1	0.18 mm to 0.40 mm									
0	0.03 mm to 0.16 mm									

WH-S01

<p>To strip the wire, simply insert the end of the enamelled wire, turn by 90 degrees and then remove the stripped wire.</p> <p>There are 3 brush types available, each suited to a specific wire range.</p> <table><thead><tr><th>P/N</th><th>Wire range</th><th>Description</th></tr></thead><tbody><tr><td>S01-0.06 mm</td><td>0.1 mm - 0.2 mm</td><td>Steel brushes with 0.06 mm wire - Set of two</td></tr><tr><td>S01-0.1 mm</td><td>0.2 mm - 0.3 mm</td><td>Steel brushes with 0.1 mm wire - Set of two</td></tr><tr><td>S01-0.2 mm</td><td>> 0.3 mm</td><td>Steel brushes with 0.2mm wire - Set of two</td></tr></tbody></table>	P/N	Wire range	Description	S01-0.06 mm	0.1 mm - 0.2 mm	Steel brushes with 0.06 mm wire - Set of two	S01-0.1 mm	0.2 mm - 0.3 mm	Steel brushes with 0.1 mm wire - Set of two	S01-0.2 mm	> 0.3 mm	Steel brushes with 0.2mm wire - Set of two	2.0 - 8.0	Single & Litz wire	390L * 180W * 180H	
P/N	Wire range	Description														
S01-0.06 mm	0.1 mm - 0.2 mm	Steel brushes with 0.06 mm wire - Set of two														
S01-0.1 mm	0.2 mm - 0.3 mm	Steel brushes with 0.1 mm wire - Set of two														
S01-0.2 mm	> 0.3 mm	Steel brushes with 0.2mm wire - Set of two														
		2 Brush wheels														

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IWM-LD ELECTRONIC LABEL DISPENSER

SPECIFICATION & FEATURES

- Ideal for small labels and small work areas
- Will dispense labels and die-cut parts
- Photosensor Accuracy and Reliability
- Automatically removes paper, vinyl, acetate, polyester, foil, etc from its liner
- Automatically rewinds liner scrap for a cleaner working environment
- Liner scrap is easily removed
- No maintenance required
- Adjustable strip plate for hard-to-release labels
- High Torque Motor for large diameter label roll
-



Label counter	0-999999 pcs
Roll ID (min)	25 mm
Roll OD (max)	250 mm
Label Length	3 to 150 mm
Label Width	4 to 140 mm
Feed Speed	16 - 130 mm/Sec - adjustable via dial
Power supply	110 / 220 / 240 VAC 50 / 60 Hz
Dimensions	210L x 210W x 220H
Weight	4.5 kg

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IWM TAPING SOLUTIONS

TAPE - CUT TO LENGTH MACHINES

Model	IWM1000	IWM025	IWM006
Characteristics			
Cutting Length	30 mm to 999 mm	12 to 60 mm	40 mm to 999 mm
Tape Width	7 mm to 50 mm	3 mm to 25 mm	15 mm to 80 mm
Power	AC 230 / 110 V \pm 10%, 50 - 60 Hz		
Dimensions (mm)	218 * 137 * 150	300 * 160 * 160	166 * 245 * 243
Net weight (kgs)	2.5	2.96	9.4

Model	IWM009	IWM870	IWMLD
Characteristics			
Cutting Length	5 mm to 999 mm	15 to 70 mm	40 mm to 999 mm
Tape Width	6 mm to 60 mm	3 mm to 25 mm	15 mm to 80 mm
Power	AC 230 / 110 V \pm 10%, 50 - 60 Hz		
Dimensions (mm)	218 * 137 * 150	300 * 160 * 160	166 * 245 * 243
Net weight (kgs)	2.5	2.96	9.4

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WH-TP01 CORE TAPING MACHINE

SPECIFICATION

- Features:** Automatic taping with bobbin change-over. Tape cutter with start and finish wiper and automatic unload. 2 handed start button operation. Number of turns of tape is programmable from 1 to 9 turns.
- Cycle time:** Typically 3 seconds per bobbin for 2 turns of tape, cut and auto unload.
- Application:** Taping of ferrite cores, EI laminations and wound coils.



Bobbin range / sizes	WH-TP01
Ferrite core taping (Max)	EI-48
Ferrite core taping (Min)	EI-16
Insulation taping (Max)	EI-61

Min. Bobbin Size: _____ 12 mm of wound coil cross section.

Supply reel dia.: _____ 76 mm I.D standard - other sizes available.

Changeable Parts: _____ Tape roller attachment, winding jigs (tooling), cutter and wiper fixture
_____ safety cover, tape backing removal feature.

Tape width (Max): _____ 50 mm

Power supply: _____ 110 / 220 / 240 VAC 50 / 60 Hz.

Dimensions: _____ 600 L * 350 W * 300 H

Net weight: _____ 33 kg

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TENSIONER METERS

Model No.	Range	Resolution	Tension Units	Copper Wire
TX-1-125	0-125g	0.1 to 1g	cN, grams or lb	54 - 37 AWG .01 - .11 mm
TX-1-1000	10-1000g	1 to 5g	N, grams or lb	40 - 32 AWG .08 mm - .20 mm
TX-1-5000	50-5000g	5 to 10g	N, grams or lb	40-28 AWG .08 mm - .30 mm

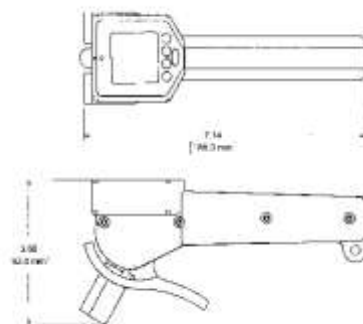
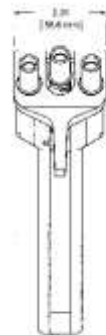
Large, easy to read backlit, graphic display with adjustable backlighting and contrast. Data Logging feature included; Capture and view data within a user-defined time window. Select the time window; then select the sampling rate (from 1-100 Hz).

- Active, colour changing Bar Graph
- Select Material and Size. Instrument automatically adjusts the calibration
- Minimum and Maximum values



S - Speed and Length Option

Indicate real-time speed in FPM, or MPM. Maximum measurable speed is 9,999 FPM or 9,999 meters per minute, however line speeds in excess of 2,000 FPM are generally unsafe for hand-held applications. Read length of part run in feet or meters. Maximum length measuring up to 9,999 meters or feet.



A - Analog Output Option

Analog Output Option for both speed and tension values. 0-5 VDC or 4-20 mA with software-definable ending sequences. Provided with 10' cable. Data outputted at 40 Hz.

E - RS-232 Serial Output Option

Provided with 10' cable to interface with your receiving device. Select data sampling rate from 1, 2 or 5 Hz. After capturing the data, review the data on the instrument's display or upload it using the 10' serial interface cable.



1	175
2	180
3	185
4	215
5	210
6	200
7	175

Order code:- [Model number] + [options]
e.g. tx-1-1000-S-E

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DIGITAL TENSIONER DISPLAY



B500 / TD-J1000 tension measurement indicators can be mounted on a winding machine independently of the tension unit for real-time measurements, easy installation features, access to DC24V power required.

E1000 This tension monitor tension values, in addition to real-time display, its highlight feature is the ability to connect to the computer, gathering accurate records through the PC software, you can carry out after the required data analysis or set the alarm. This software can work simultaneously detecting / recording 100 measuring points, to enhance the quality of your wound product.

- Direct display of real time measurement reading
- Wide tension range
- Independent operation ; for single or multi-spindle applications.
- Compact design, simple operation.

Accuracy: _____ +/- 1% FS

Power: _____ 24V DC (external power sources required.)

Dimensions: _____ 25 (W) x 140 mm (H) x 45 mm (D)

Weight: _____ 102g



Range Options

Model	Range	Resolution	Features
B500	3g-500g	0.5g	Real-time display of tension / plastic housing
J1000	3g-1000g	1g	Real-time display of tension / aluminium alloy housing
** E1000	3g-1000g	2g	Tension computer records the data real-time display / aluminium alloy shell

Order code:- [Model number] + [MAX tension]

e.g. TD-J1000

**** Available soon**

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CERAMIC ROLLER GUIDES



Part No.	Dimensions in mm			
	A	B	C	H
IWM1001	20	15	3.0	5
IWM1002	29	20	4.0	6.5
IWM1003	30	15	3.0	10
IWM1004	40	20	4.0	15
IWM1005-6	45	30	6.0	10
IWM1006	60	38	8.0	13
IWM1008	79.2	50	10.0	15

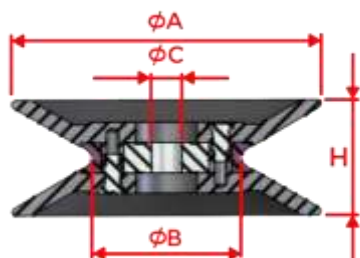
Our ceramic roller guides are made from fine Alumina (Al_2O_3), which provides excellent resistance to wear and reduces heat and friction.

The ceramic surfaces are polished to a mirror finish in order to reduce friction to a minimum.

The ceramic ring is enclosed in plastic flanges to reduce weight and inertia; the core of the ceramic part is mounted onto a precision bearing to optimise performance.

These rollers are normally used for guiding the wire during coil winding operations, but also have many applications in the wire manufacturing and textile industries.

Standard stock sizes are highlighted in **green**; all other sizes are available subject to minimum order quantities.



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CERAMIC CAPTIVE ROLLERS

Our ceramic captive rollers are made from fine Alumina (Al_2O_3), which provides excellent resistance to wear and reduces heat and friction.

The ceramic surfaces are polished to a mirror finish in order to reduce friction to a minimum.

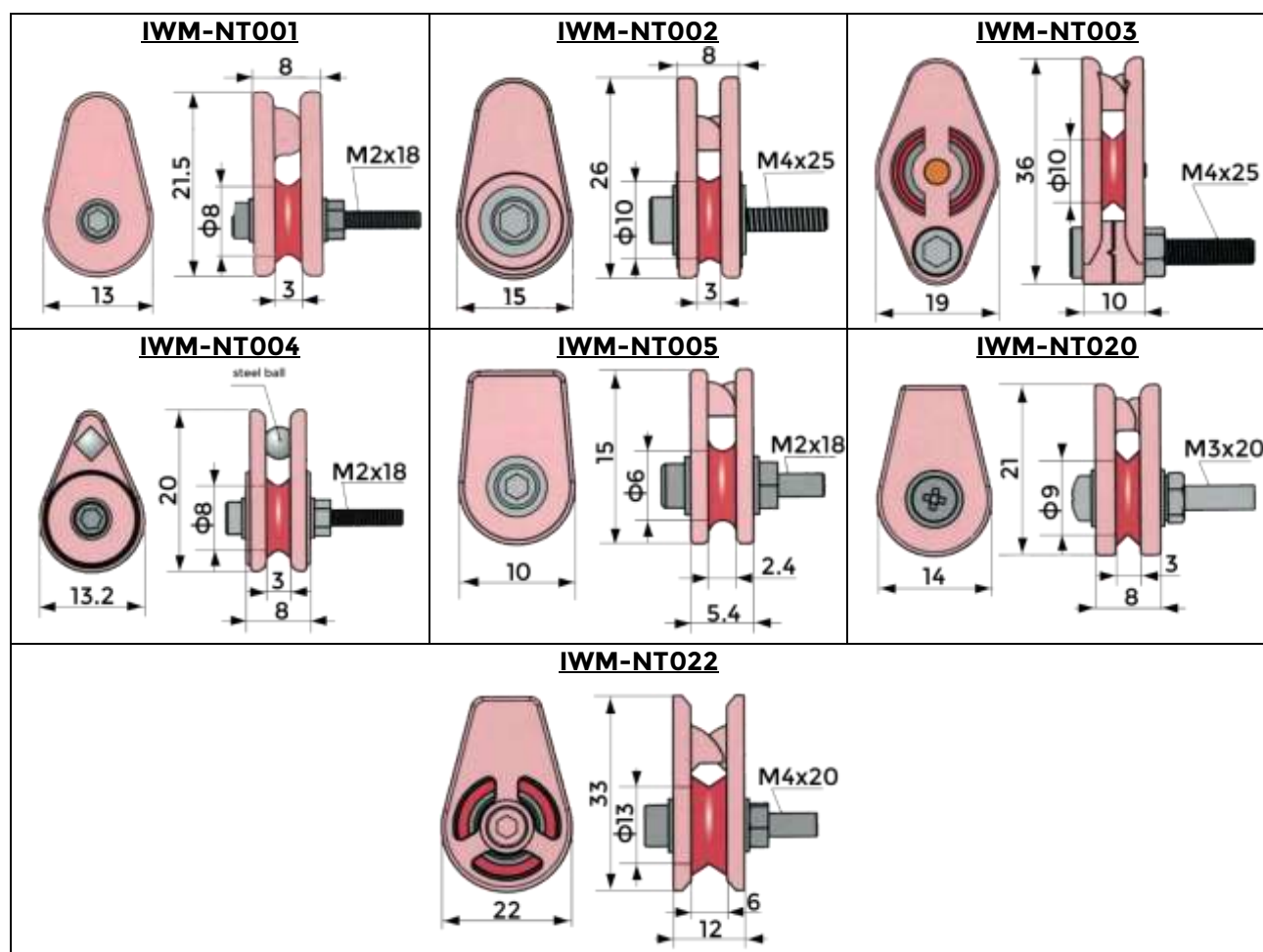
The wire jump preventer is used in instances in which there are radical changes in direction and prevents wire jumping out of the pulley during winding processes.

There is a high speed bearing within the pulley's porcelain circle which keeps the sliding distance between the enamelled wire and the OD under 0.2 mm.

Normally used for guiding the wire during coil winding operations, but also have many applications in the wire manufacturing and textile industries.

Part No.	Weight (g)
IWM-NT001	4
IWM-NT002	10
IWM-NT003	14
IWM-NT004	4
IWM-NT005	2
IWM-NT020	4
IWM-NT022	12

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CERAMIC EYELET GUIDES AND GROMMETS

Part No	Dimensions in mm				
	A	B	C	D	E
IW-001	4.5	2.8	1.0	3.0	1.0
IW-002	5.0	3.5	2.4	3.6	1.0
IW-003	6.8	4.7	2.6	3.3	1.3
IW-004	10.0	7.2	4.8	8.8	1.7
IW-005	10.0	7.0	4.8	8.8	1.7
IW-006	11.0	8.0	3.7	9.2	3.0
IW-007	7.8	5.2	3.0	5.5	1.5
IW-008	9.2	7.0	4.5	8.0	2.0
IW-009	6.0	4.2	2.6	3.2	1.2
IW-010	10.2	6.2	4.2	10.0	2.0
IW-011	9.7	7.0	4.0	9.0	2.0
IW-012	6.0	3.8	2.0	3.6	1.0
IW-013	7.0	3.8	2.0	4.0	1.5
IW-014	7.7	6.0	3.4	6.0	2.0
IW-015	6.0	4.5	2.0	5.0	1.5
IW-016	12.0	10.0	7.0	8.3	2.0
IW-017	12.0	9.0	5.5	8.5	1.5
IW-018	5.5	4.0	1.8	4.3	1.3
IW-019	5.9	4.3	2.0	5.0	1.5
IW-020	6.2	3.7	1.7	5.0	1.0
IW-021	13.0	9.0	4.3	7.0	2.0
IW-022	10.0	6.8	4.2	10.0	2.0
IW-023	14.0	10.0	6.5	9.8	3.0
IW-024	15.3	11.8	7.5	10.0	3.0
IW-025	12.0	10.0	7.1	6.0	2.0
IW-026	6.5	4.9	3.3	6.5	1.5
IW-027	7.8	6.0	3.4	4.8	1.8
IW-028	4.2	3.0	2.0	5.0	1.0
IW-029	4.2	3.0	1.0	4.0	1.0
IW-030	5.9	4.0	2.0	8.0	1.2
IW-031	7.8	6.0	3.5	8.0	1.6
IW-032	17.7	12.8	7.0	18.7	3.0
IW-033	14.0	10.4	6.6	18.0	2.5
IW-034	11.7	9.5	5.5	8.2	2.4
IW-035	12.0	9.6	6.2	10.5	2.1
IW-090	8.0	5.4	2.5	5.5	1.5

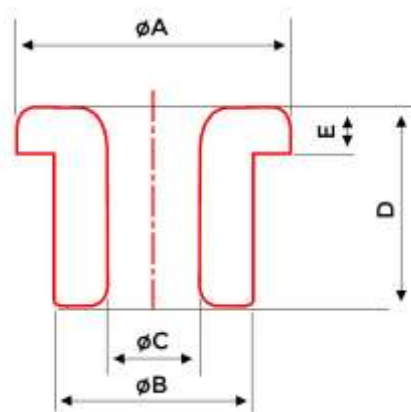


Our ceramic eyelet guides are made from fine Alumina (Al_2O_3), which provides excellent resistance to wear from heat and friction.

The ceramic surfaces are polished to a mirror finish in order to reduce friction to a minimum.

These eyelets are normally used for guiding the wire during coil winding operations, but also have many applications in the wire manufacturing and textile industries.

Standard stock sizes are highlighted in **green**; all other sizes are available subject to minimum order quantities.



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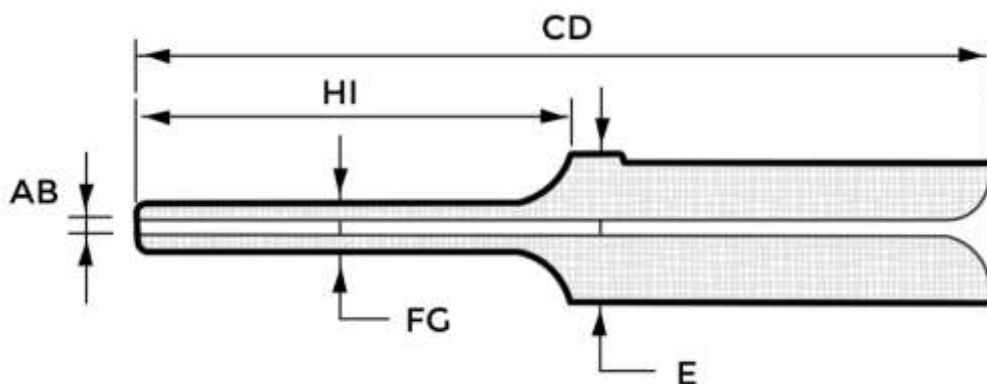
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GUIDE TUBES - IWM STANDARD STOCK SIZES



Part number format

W ABCD-E-FGHI

How to specify the tube...

AB = Bore size in mm (12>1.2; 08>0.8; 03>0.3 etc..)

CD = Tube length in mm (30>30 mm; 45>45 mm etc...)

E = Tube OD in mm (030>3 mm is standard)

FG = Shank Diameter in mm (12>1.2; 08>0.8; 03>0.3 etc..)

HI = Shank Length in mm (15>15 mm; 06>6 mm etc...)



Standard stock sizes	AB = Bore size	CD = Tube length	E = Tube OD	FG = Shank Diameter	HI = Shank Length
W0230-030-0806	0.2	30	3	0.8	6
W0330-030-0806	0.3	30	3	0.8	6
W0530-030-1406	0.5	30	3	1.4	6
W0830-030-2015	0.8	30	3	2.0	15
W1030-030-2515	1.0	30	3	2.5	15
W1230-030-2515	1.2	30	3	2.5	15
W1530-030-2915	1.5	30	3	2.9	15

Custom guide tubes - Made to order

We can produce a vast range of custom guide tubes, for many applications.

Simply send us your drawings for a competitive quote.

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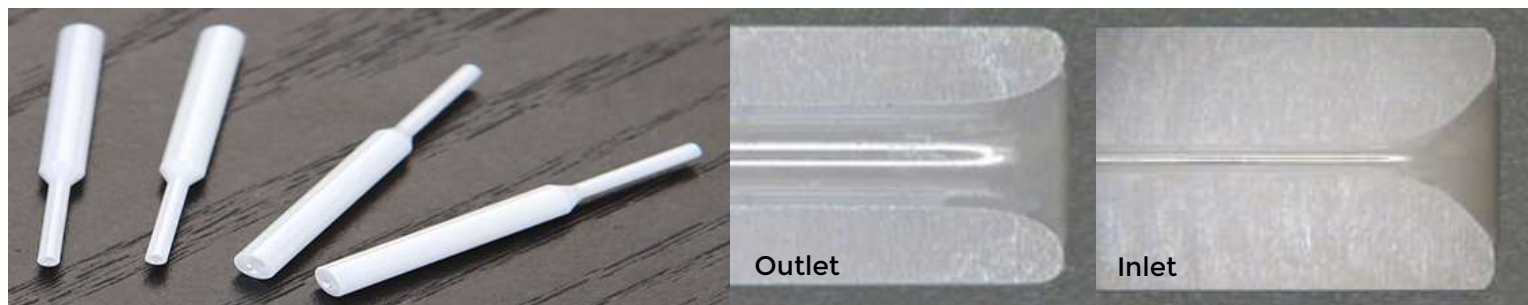
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SPECIAL CERAMIC GUIDE TUBES (NOZZLES)



Description:

The coil winding guide tube (or nozzle) is a vital component for high quality coil winding. Our ceramic guide tubes are made for advanced coil winding requirements. They are precision engineered for high speed winding with excellent accuracy, and minimise stress to the wire.

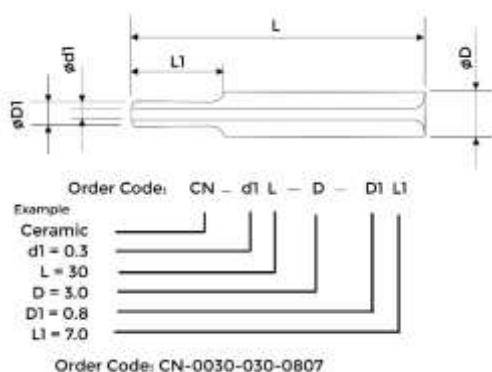
Advantages:

Precision: Concentricity between the clamping diameter and the outlet diameter is 0.01 mm. The inner bore diameter's tolerance is 0.01 mm - excellent for precision coil layering.

Minimum Friction: Made of a solid piece of high grade ceramic; there are no joints for easy threading, which also ensures a smooth path for wire travel. Every inner bore is fully polished. Both the inlet and outlet radius are carefully calculated, shaped and polished to a mirror finish to minimize stress to the wire.

High Wear Resistance: The characteristics of these ceramic guide tubes offer significant advantages over both tungsten carbide and ruby guide tubes. The special ceramics are harder than tungsten carbide and are more rigid than the stainless sleeve of ruby guide tubes.

Ordering Information:



Part Number	d1	L	D	D1	L1
CN-0330-030-0807	0.3	30	3.0	0.8	7.0
CN-0430-030-1010	0.4	30	3.0	1.0	10.0
CN-0530-030-1010	0.5	30	3.0	1.0	10.0
CN-0730-030-1410	0.7	30	3.0	1.4	10.0

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