

E-300-EDGE WINDING MACHINE

DESCRIPTION

Small-sized bench winding machine equipped with: -

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

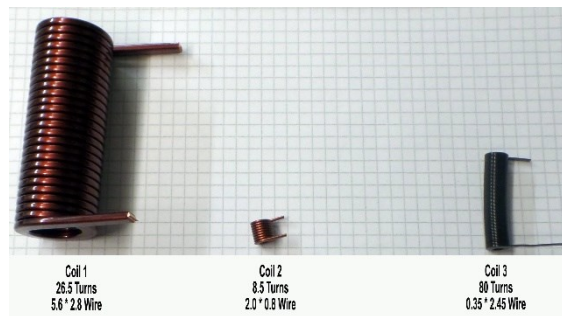
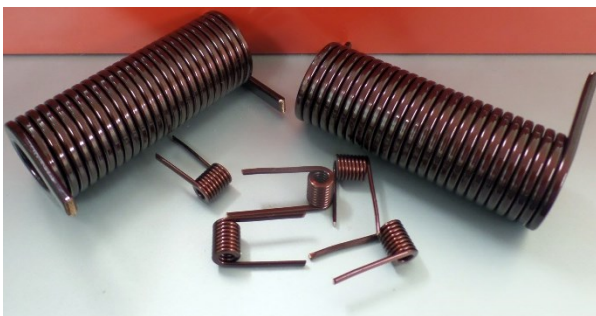
The edge machine is really a customised solution for round core (ID) single layer coils...

This machine is designed for the manufacture of chokes, inductors and flat wire wound on its thin edge.

In the winding industry there are a lot of new products using flat wire edge wound coils, each project is virtually a one off... as technically they require a completely different solution depending on the tasks.

The basic machine is specially designed construction 2 axis winder, more power / torque is required that standard winding. For leg positional accuracy, we incorporate programmable rotational resolution $<0.36\text{deg}$, the rest is tooling and configuration of guiders tailstock, special start lead clamping systems etc... made by our own in-house team of experts.

This machine pushed the boundaries of what is achievable in relation to the aspect ratio of wire height Vs wire width & wire height Vs coil ID, whilst reducing the trapezoidal effect to a minimum!



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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| | |
|---|------------------------|
| Max. Winding length | 90 mm |
| Max Wire pitching Ø..... | 99 mm |
| Max. distance between points | 270 mm |
| Max. Winding / Tooling Ø | 120 mm |
| Guider precision | 0.001 mm |
| Spindle Resolution..... | 0.001 turns (0.36 deg) |
| Main shaft motor | (Brushless servomotor) |
| Guider motor (Brushless servomotor) | 1.4 Nm |
| Power Supply..... | 220Vac - 50/60 Hz |

TORQUE AND SPEED

| | |
|----------------------------|---------|
| *Winding shaft speed..... | 150 rpm |
| Winding shaft Torque | 72 Nm |
| *Other versions on request | |

PROGRAMMING CHARACTERISTICS

| | |
|--|--|
| User interface | 7 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 |

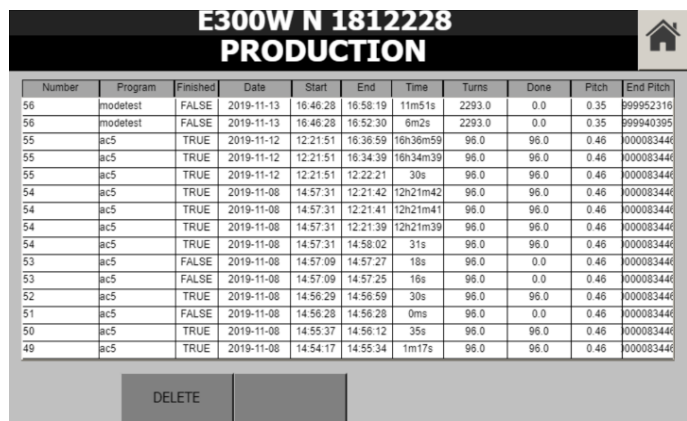
KEY BENEFITS OF THE NEW E-300W

- 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 edge provides a combination of high performance 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.

Talk to your local partner about customising this machine to your flat wire edge wound coil requirements.



| Number | Program | Finished | Date | Start | End | Time | Turns | Done | Pitch | End Pitch |
|--------|----------|----------|------------|----------|----------|----------|--------|------|-------|-----------|
| 56 | modetest | FALSE | 2019-11-13 | 16:46:28 | 16:58:19 | 11m51s | 2293.0 | 0.0 | 0.35 | 999952316 |
| 56 | modetest | FALSE | 2019-11-13 | 16:46:28 | 16:52:30 | 6m2s | 2293.0 | 0.0 | 0.35 | 999940395 |
| 55 | ac5 | TRUE | 2019-11-12 | 12:21:51 | 16:36:59 | 16h36m59 | 96.0 | 96.0 | 0.46 | 000083446 |
| 55 | ac5 | TRUE | 2019-11-12 | 12:21:51 | 16:34:39 | 16h34m39 | 96.0 | 96.0 | 0.46 | 000083446 |
| 55 | ac5 | TRUE | 2019-11-12 | 12:21:51 | 12:22:21 | 30s | 96.0 | 96.0 | 0.46 | 000083446 |
| 54 | ac5 | TRUE | 2019-11-08 | 14:57:31 | 12:21:42 | 12h21m42 | 96.0 | 96.0 | 0.46 | 000083446 |
| 54 | ac5 | TRUE | 2019-11-08 | 14:57:31 | 12:21:41 | 12h21m41 | 96.0 | 96.0 | 0.46 | 000083446 |
| 54 | ac5 | TRUE | 2019-11-08 | 14:57:31 | 12:21:39 | 12h21m39 | 96.0 | 96.0 | 0.46 | 000083446 |
| 54 | ac5 | TRUE | 2019-11-08 | 14:57:31 | 14:58:02 | 31s | 96.0 | 96.0 | 0.46 | 000083446 |
| 53 | ac5 | FALSE | 2019-11-08 | 14:57:09 | 14:57:27 | 18s | 96.0 | 0.0 | 0.46 | 000083446 |
| 53 | ac5 | FALSE | 2019-11-08 | 14:57:09 | 14:57:25 | 16s | 96.0 | 0.0 | 0.46 | 000083446 |
| 52 | ac5 | TRUE | 2019-11-08 | 14:56:29 | 14:56:59 | 30s | 96.0 | 96.0 | 0.46 | 000083446 |
| 51 | ac5 | FALSE | 2019-11-08 | 14:56:28 | 14:56:28 | 0ms | 96.0 | 0.0 | 0.46 | 000083446 |
| 50 | ac5 | TRUE | 2019-11-08 | 14:55:37 | 14:56:12 | 35s | 96.0 | 96.0 | 0.46 | 000083446 |
| 49 | ac5 | TRUE | 2019-11-08 | 14:54:17 | 14:55:34 | 1m17s | 96.0 | 96.0 | 0.46 | 000083446 |

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