

# MARSILLI

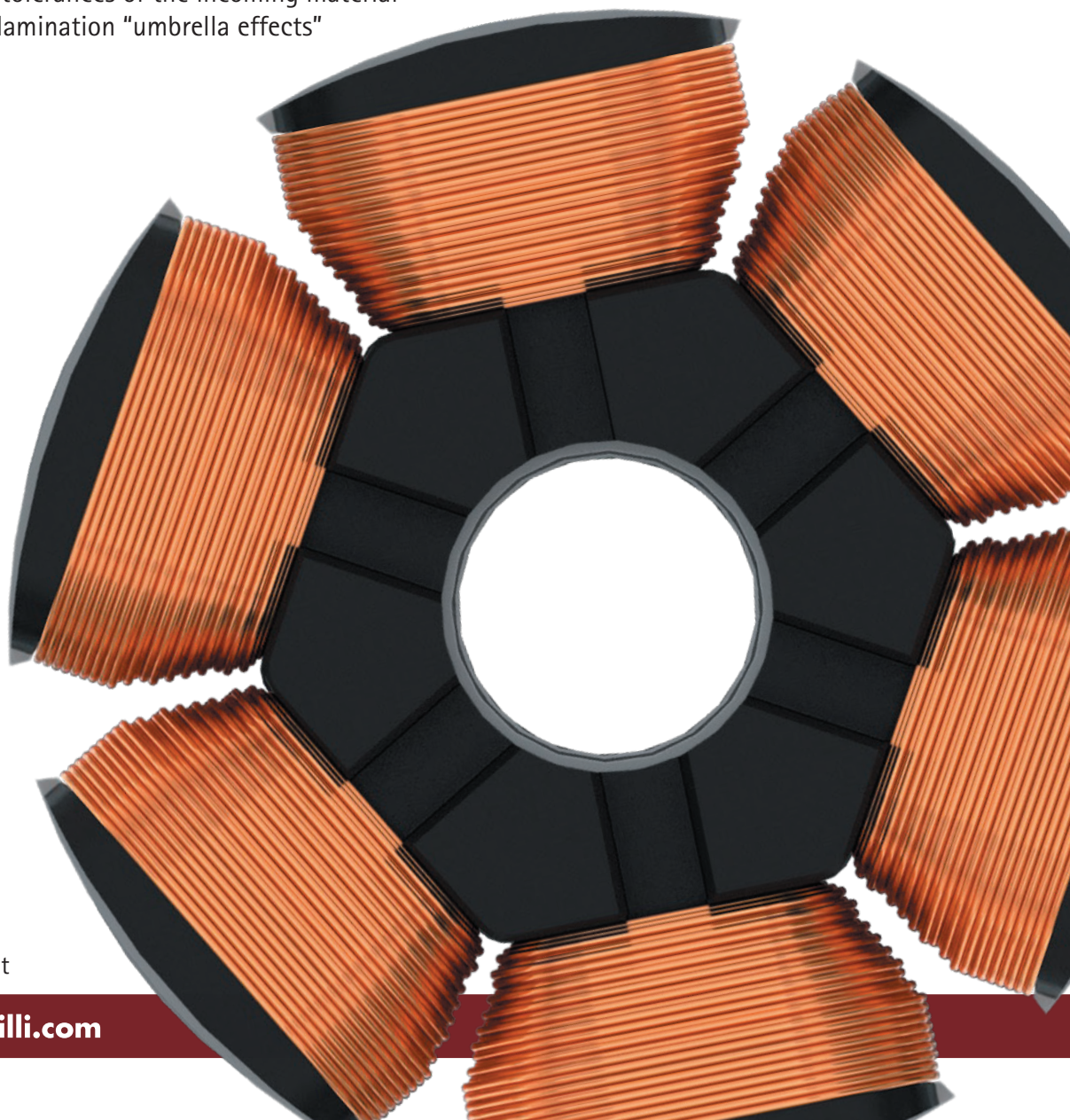
RoMa

Rotor <sup>Winding</sup>  
Machine

Following a long tradition of "Out of the Box" innovations, Marsilli has recently developed **two new cutting-edge winding solutions** designed specifically for **high-performance wound rotors**.

For both the technologies, Marsilli defined some pillars:

- Perfect Layering management
- Maximize the filling factor
- Wire management at the start and at the end of the winding
- Minimize the wire stress
- Wire tension control in closed-loop systems
- Handle the tolerances of the incoming material
- Minimized lamination "umbrella effects"



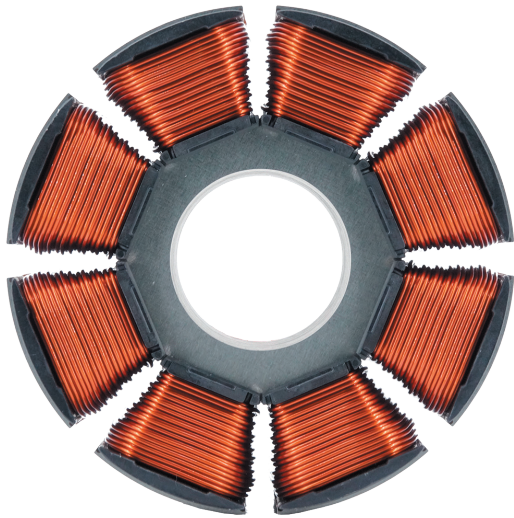
For more info  
and contacts visit

[www.marsilli.com](http://www.marsilli.com)

RoMa

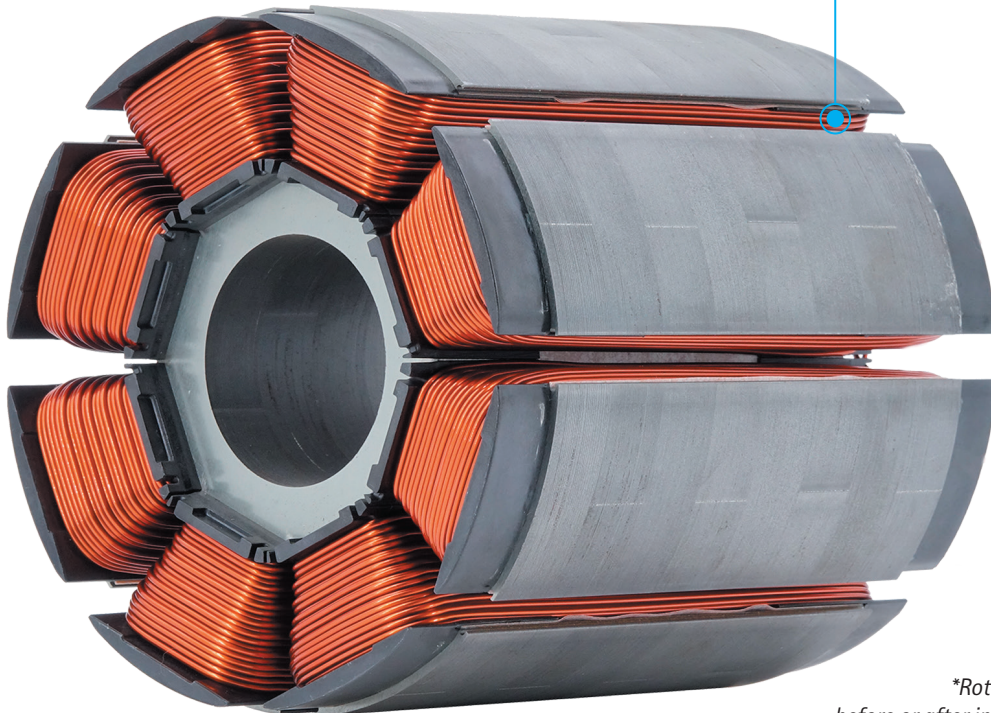
LiS

## Innovative linear In-Slot Winding



### Main characteristics

- A specific winding technology when narrow opening slot is present
- Higher number of turns
- Integrated wire stripping (if needed)
- Higher winding speed



*\*Rotor can be wound  
before or after inserting the shaft*

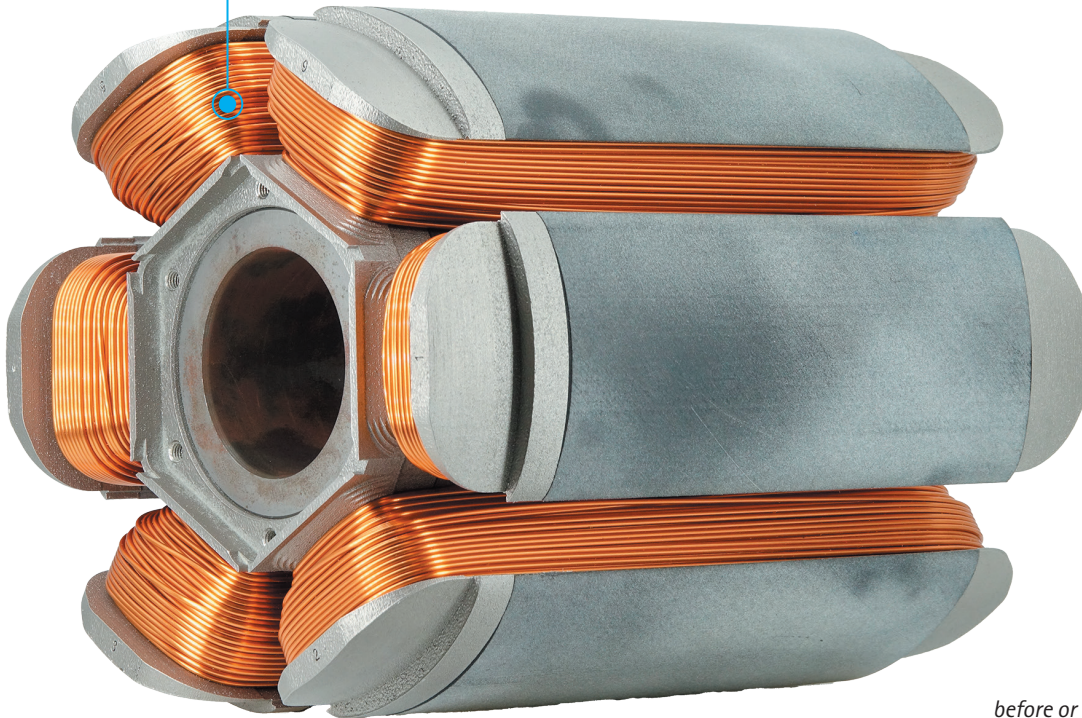
# RoMa NeW

## Dedicated advanced Needle Winding machine

Marsilli, based on his experience of needle winding processes, developed a dedicated needle winding machine model.

### Main characteristics

- Advanced algorithms to manage the perfect layering
- Special devices to ensure the correct wire position
- Integrated wire stripping (if needed)
- Scrapples features (if needed)
- Active advanced technology to minimize wire stress and damaging
- High flexibility on different product variants
- Minimized tool complexity



*\*Rotor can be wound  
before or after inserting the shaft*

## A fully equipped Lab at your service

In our Lab in the Headquarters a specific set of equipment is dedicated to EESM rotors for co-design and prototyping. The following processes are available by serial-like equipment:

- RoMa Ne|W winding machine
- RoMa LiS winding machine
- Shaft assembly
- Paper forming and insertion
- Wedge assembly
- Slip ring assembly
- Welding

Moreover, you can count on our Co-Design team for:

- product development and optimization
- process industrialization
- production of prototypes or small batches



## Solution provider for EESM rotor production

Thanks to its Automation Expertise, Marsilli has been asked by the market to deliver the **complete process**. Besides the winding line, additional process steps can be supplied and arranged as per the specific Customer process flow.

