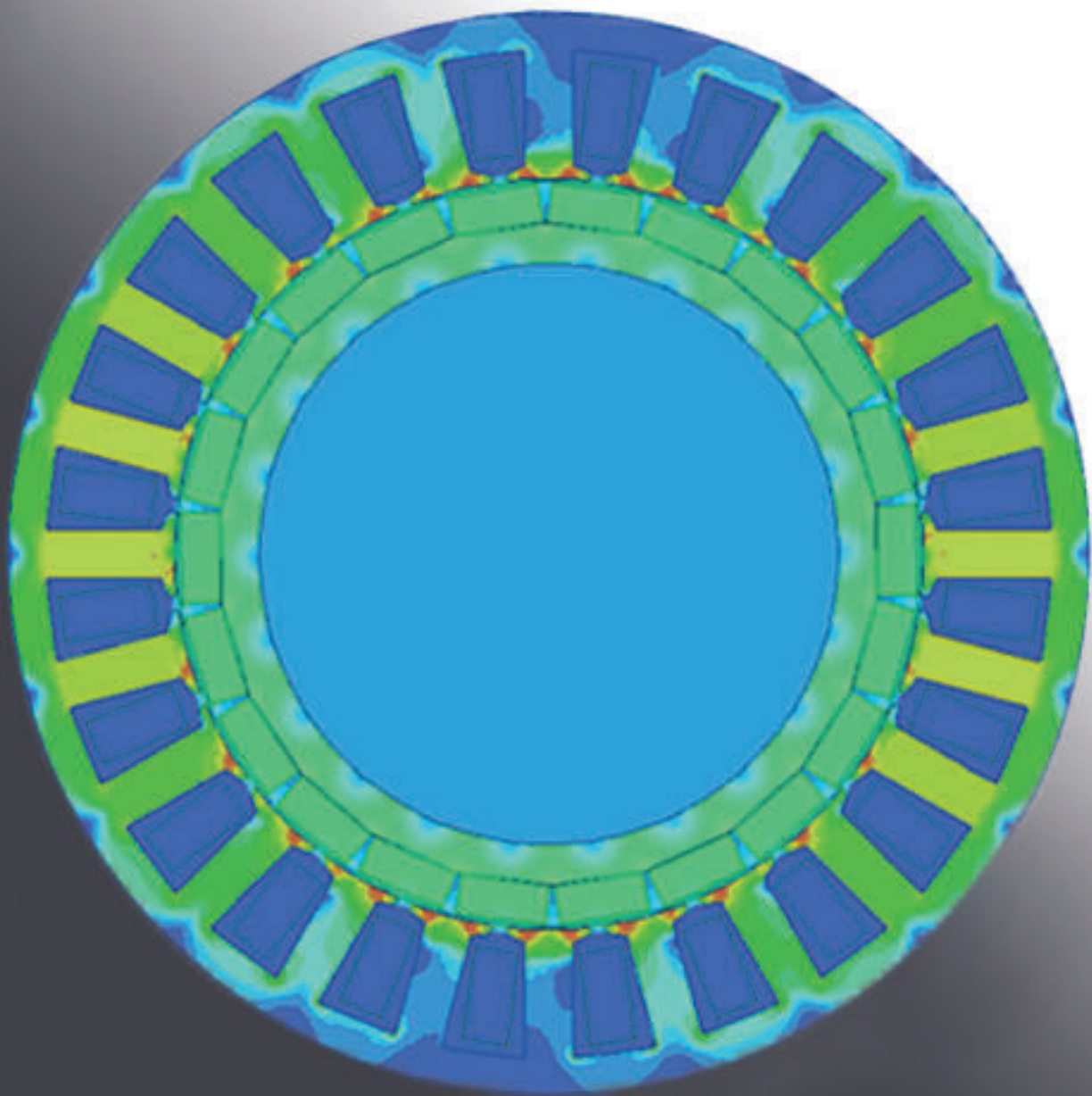




Design of electric machines

Development - Consulting - Simulation - Prototype Building
Measuring on Test Bench



EMT Ingenieurbüro GmbH

für Elektro-Maschinen-Technik

EMT Ingenieurbüro GmbH specialises in the development of special drives for a wide range of application fields.

Using modern calculation tools, considerable experience and sometimes unconventional ideas, we develop innovative or simply functional drive motors.

The manufacture of prototypes and the subsequent series manufacture are part of our services as well as the assistance in the choice of suitable power electronics.

APPLICATION FIELDS

- Mechanical engineering
- Power generation
- Medical engineering
- Electromobility
- Automotive
- Others

MACHINE TYPES

- Asynchronous machines
- Synchronous machines
- Universal motors
- D.C. machines
- Synchronous reluctance machines
- Switched reluctance machines
- Linear motors synchronous / asynchronous

OUR RANGE OF SERVICES

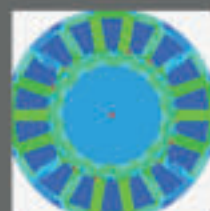
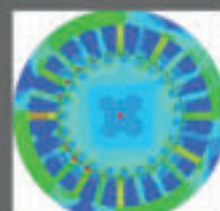
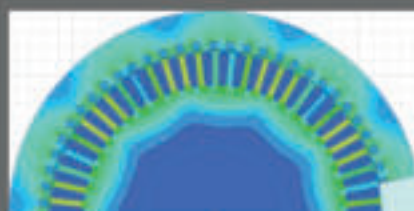
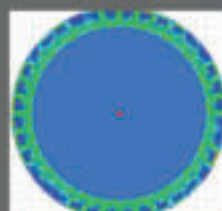
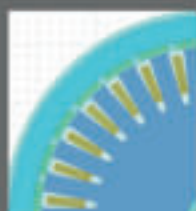
- Electromagnetic calculations
- Construction of the components
- Prototype building
- Series manufacture

SOFTWARE TOOLS

- ANSYS RMxprt (classical design)
- ANSYS Maxwell (FEM simulation)

RESULTS

- Forces, torques
- Currents, current densities
- Cogging torque
- Magnetic values
- Eddy current losses, hysteresis losses
- Copper and magnetic losses
- Current displacement
- etc.



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