



MAGMA MAGNETIC TECHNOLOGIES

Your Partner for all Magnetic Needs





MAGMA: Leaders in Magnetic Solutions



Diverse Magnetic Products

With over 40 years of expertise, Magma offers a wide range of magnetic products and comprehensive magnetic services. Our portfolio also feature custom-made options tailored to meet your unique requirements.



Cutting-Edge Technology

Combining decades of industry expertise with cutting-edge technology and a state-of-the-art magnetic laboratory, Magma delivers top-notch magnetic solutions for various applications.



Diverse Applications for all Industries

As a trusted partner, Magma provides innovative magnetic solutions to meet the unique needs of customers across many different sectors, from biomedical to green energy.

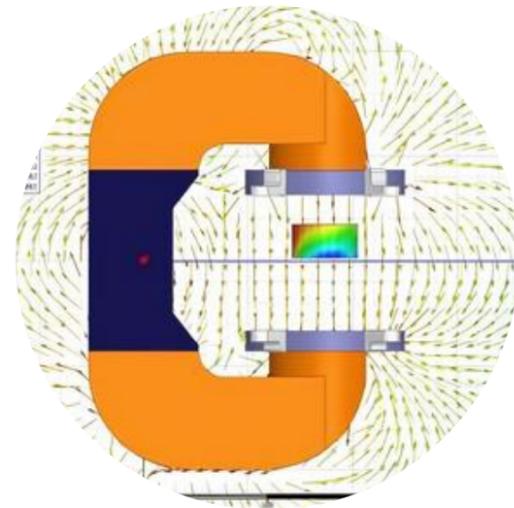


Magnetic Know-How Support



R&D Support

We support research and development efforts, offering magnetic design, consulting, and FEM analysis services across all industries and applications.



Simulation Expertise

We are Using ANSYS MAXWELL sophisticated software to precisely simulate magnetic behavior and ensure optimal performance.



Magnetic Laboratory

Our state-of-art lab is equipped with all the necessary magnetic equipment and provides reliable data through extensive testing and measurements.

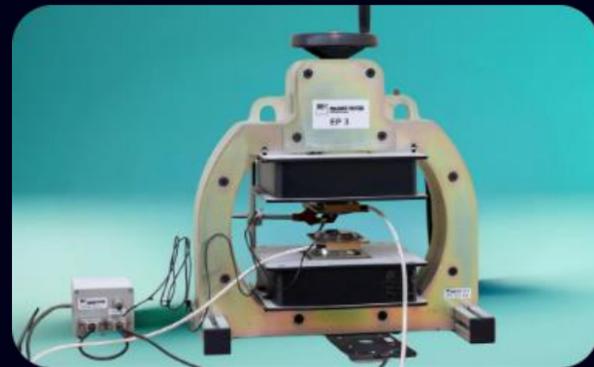


Magnetic Solutions

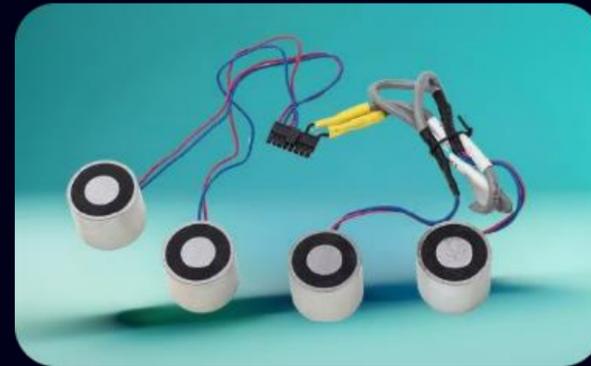
Our team collaborates closely with clients to create innovative magnetic solutions tailored to their unique needs and challenges.



Magma's Magnetic Products



Magnetic Design



Electromagnets



Magnetic Assemblies



Neodymium Magnets



Solenoids



Samarium Cobalt Magnets



Ferrite Magnets



AlNiCo Magnets

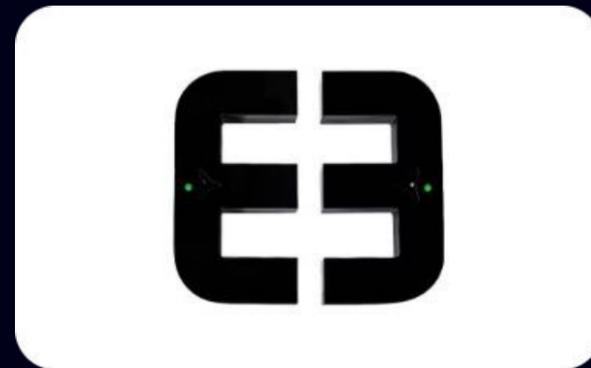


New Line of Products



C-CORES

Single-phase wound
cut cores



E-CORES

Three-phase wound
cut cores



TOROIDS

Round-tape wound
cores



SPECIAL CORES

Special size & shape
requirements

Magma has partnered with [Eilor Magnetic Cores](#), which specializes in manufacturing tape-wound magnetic cores. This collaboration enables us to provide production means for highly efficient transformers and inductors tailored to our customers' requirements.



Quality Assurance Control

Magnetic Simulation

We perform precise magnetic simulations to match the right magnet to product specifications, improving magnetic assemblies and Lowering manufacturing costs.

Quality Assurance

Quality control for permanent magnets is crucial to our customer service. Magma ensures high standards with regular, meticulous inspections by both machines and trained professionals.

Customized Solutions

We offer custom-made permanent industrial magnets (all types and grades) and cutting-edge magnetic solutions on a global scale.

Stable Supply Chain

We maintain a large inventory of magnets, electromagnets, and solenoids to ensure production continuity and provide flexible and fluent supply to our worldwide clients.

Cost Effective

Improving cost-effective processes and products.



Discover the advantages of magnets in various applications

Explore how they revolutionize designs and engineering.

[Click Here](#)



Case Studies: Biomedical industry

| Customer | Challenge | Solution |
|-----------------|------------------|-----------------|
|-----------------|------------------|-----------------|

Drug Dispenser Device

Economical assembly of tiny magnets in plastic parts

Developed over-molding process with immediate magnetization





Case Studies: Sustainable Energy

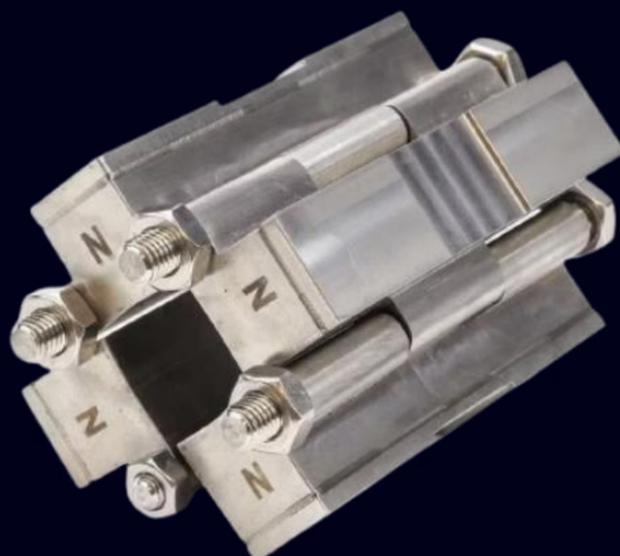
Challenge

Avoiding scale in large diameter cooling tower pipes.

Solution

Unique magnetic design based on Halbach array for maximal field in 12" assembly, using laser welding.

In this project, Magma became a significant partner of Hydroflux: www.hydroflux.com





Case Studies: Green Energy

Challenge

Low-pressure water flow
electricity generation.

Solution

Magma developed an efficient
magnetic coupling, enabling
the successful completion of
the product.





Case Studies:

Home Appliance & Consumer Goods



Water Dispenser

Challenge: Production failure due to plastic and magnetic design deviations. **Solution:** Rapid two-week solution to prevent production halt, followed by optimization of plastic part and magnet design.



Pool Cleaning Robot

Challenge: Creating mechanical movement in a corrosive environment with minimal energy. **Solution:** Specific design of magnetic coupling using a radial ring in a plastic cup for corrosion protection.



Sealed Pouch

Challenge: Customer conflict with magnetic product manufacturer. **Solution:** Set up the entire production line in under three months, improving and reducing the cost of magnetic components.



Looking For A Strategic Partner?



Strategic Collaboration

Magma becomes a significant partner in your projects, offering expertise and innovative solutions.



Innovative Approach

We bring cutting-edge magnetic technology to solve complex challenges across industries.



Comprehensive Support

We offer end-to-end support for all your magnetic needs from design to production.



Contact Magma



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