



Advancing your  
Aerospace and Airport Business



AS9100



AS9001



ISO/TS 16949



**GOUDSMIT**  
MAGNETICS GROUP

Your Partner for Quality Engineered  
Magnetic Components




# About Us

The Goudsmit Group operates worldwide, a family business incorporated in 1959 with branches in the Netherlands, France, Germany, UK, Czech Republic and China. The company is specialised in delivering high quality permanent magnets and magnet systems to, among others, the aerospace, automotive, electronics and medical industries.

As one of the few European suppliers of magnets the Goudsmit Group is, in addition to being ISO 9001 and ISO/TS 16949 certified, also certified for AS9100 and makes optimal use of a worldwide operating distribution network. We can also offer you the support of our expert R&D and Quality engineers.

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KEEP UP TO DATE WITH US

-  [www.goudsmit.co.uk](http://www.goudsmit.co.uk)
-  [www.goudsmitmagnets.com](http://www.goudsmitmagnets.com)
-  [www.aimants-goudsmit.com](http://www.aimants-goudsmit.com)



# Quality Standards

Whatever quality checks you require, we will work with you to meet your needs.



Rest assured in the knowledge that The Goudsmit Group is ISO 9001, AS9100 and TS16949 accredited, meaning you receive better quality parts time and again.



Parts manufactured in our joint venture factory in China are closely monitored during and after production to ensure your parts meet specification.



Here's a short summary of just some of the QA tools and documentation we can provide for you:

- Samples with ISIR submission
- Design and process FMEA
- Inspection reports with all deliveries
- Environmental testing
- PPAP and APQP
- Thermal testing



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# Typical Magnet Applications in the Aerospace Industries

Advancements in the aerospace industry has caused a rise in the demand for powerful aerospace magnets used in the manufacture of aerospace actuators, linear drives and electric motors. In turn, this has multiplied the need for rare earth metals and the production of compact and powerful Samarium Cobalt (SmCo), Neodymium (NdFeB), Alnico (AlNiCo) and Ferrite magnets, which can be formed into complex shapes and geometries.

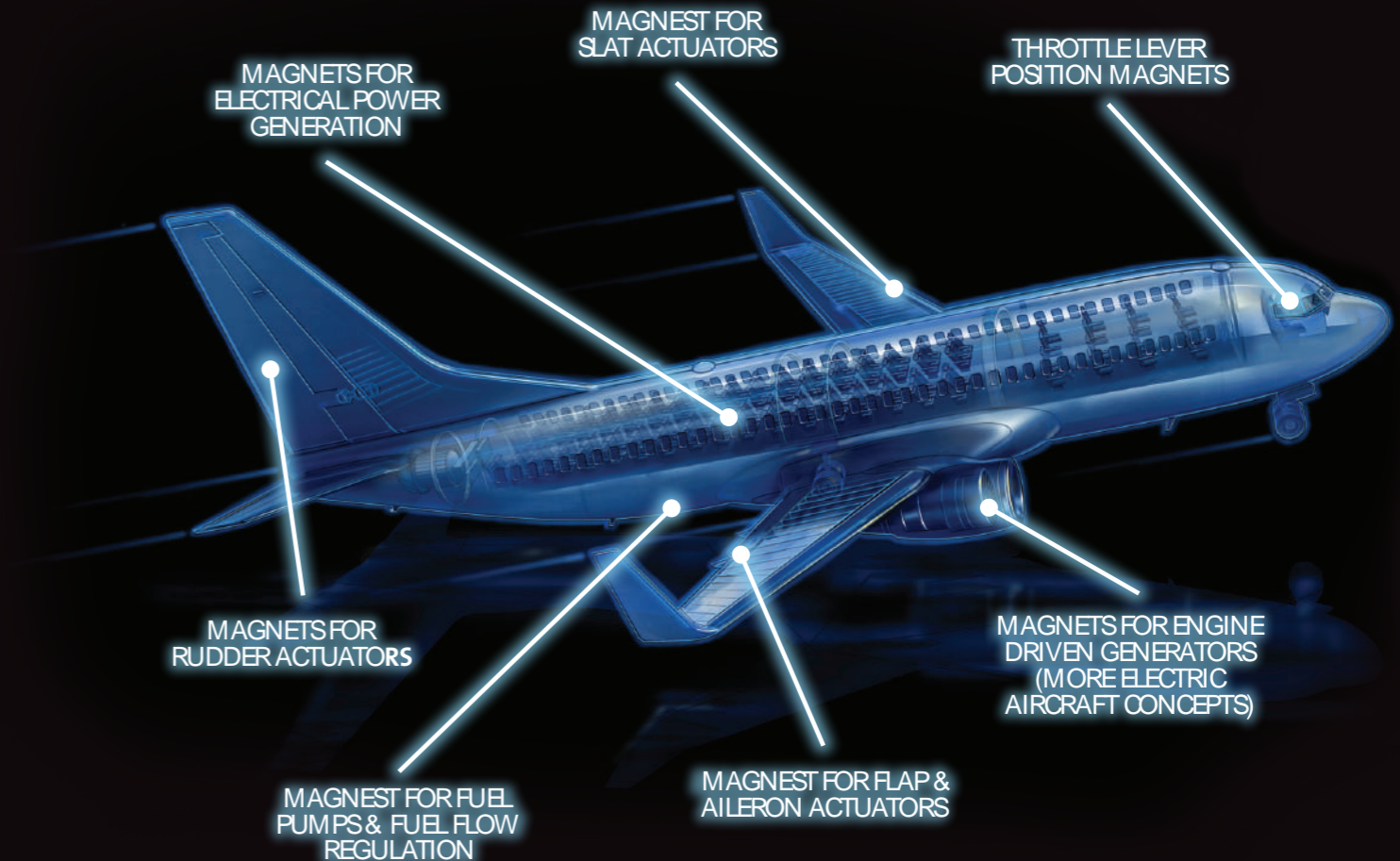
Strong competition and the quest for custom aerospace solutions have stimulated the development of very sophisticated aerospace magnets in the industry, and ongoing development is constant. With this in mind, The Goudsmit Group designs, manufactures and supplies magnet systems and permanent magnets that are lower in weight than their predecessors and continue to perform optimally over the long term in the toughest conditions. Special software is also used to simulate and test whether

the critical requirements for tensile forces, torques, field strength, temperature and sensor specifications are met. Additionally, weight reduction – which is always desirable for the aerospace industry – is made possible through the use of alternative magnet types with higher efficiency.

*“The AS9100 accreditation solidifies The Goudsmit Group’s commitment to our customers. Market analysis quickly helped us recognise the need to go the extra mile and assure the Aerospace industry that we are fully committed to high quality standards and continuous improvement. With the accreditation comes a world of opportunity in a growing, yet demanding aerospace market. We look forward to creating valuable new partnerships within the industry.”*

*Catherine Robinson  
Managing Director  
Goudsmit UK*

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# Typical Magnet Applications in the Automotive Industries

Advancements in the industry leave many automotive manufacturers responding to the rapidly increasing need to produce vehicle control systems that are more sophisticated, use less fuel, and produce lower emissions.

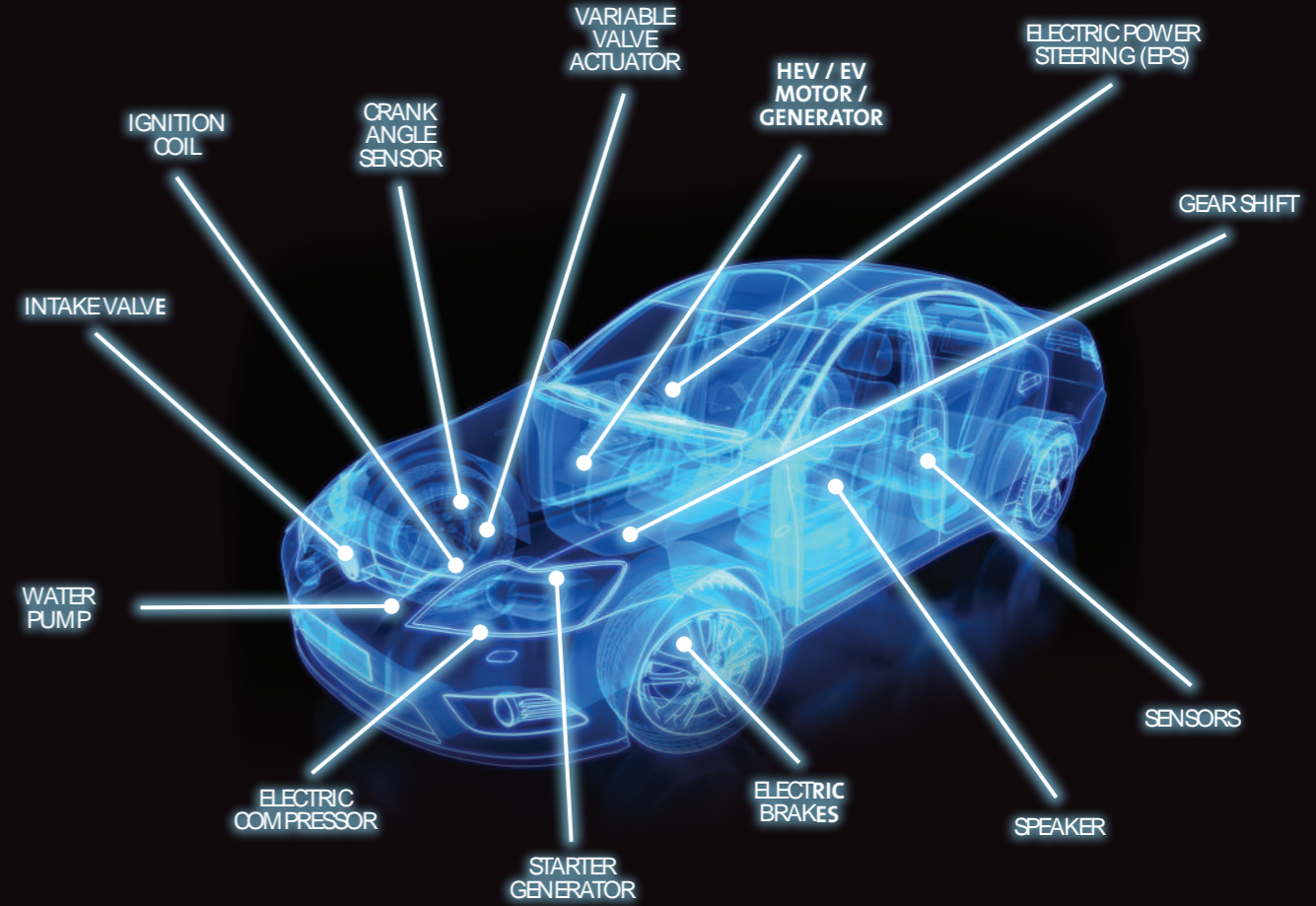
Recent decades have seen a shift in vehicle control systems from mechanical, pneumatic, and hydraulic control towards electrical control. These shifts have inspired the need for magnets in motors, sensors and actuators to help drastically improve vehicle control systems.

Strong competition and the quest for custom automotive solutions have stimulated the development of very sophisticated automotive magnets in the industry, and ongoing development is constant.

With our ISO 9001 quality and TS16949 automotive accreditation, The Goudsmit Group can provide quality components and solutions into the automotive industry, continually.

*"There are many magnets in cars; in the gearbox, sensors, brakes, water pump, engines, ignition coil, alternator and starter motor. Also in the increasingly popular lane departure warning system, which produces a warning beep or vibration signal if you stray outside your own driving lane. This is achieved with magnets, and they must do their job properly or motor vehicle accidents can occur. Measurements and magnets are therefore crucial in the automotive industry!"*

*Marc Teeuwen  
Sales Manager  
Goudsmit Magnetics, Netherlands*





# Logistics Network

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The Goudsmit Group have a modern distribution network which guarantees parts where you want them, when you want them. We work with a number of logistics partners drawing on a wealth of experience and expertise to offer our customers a range of local, regional and worldwide logistics solutions.

Our supply-chain management system has been developed with an orientation to customer satisfaction. We focus on our competencies on understanding and supporting our customer, seeking to provide the most cost effective and efficient logistics solution for their business.

The Goudsmit Group have a global logistics and warehousing network. This allows us to ship your products from our manufacturing facilities in Europe or our joint venture factory in China to your premises, or one of our warehouses to free up valuable space in your factory. Your packaging requirements can also be taken care of to ensure your product presentation is aesthetically appealing.

Here are a few highlights of the many bespoke options we can offer you:

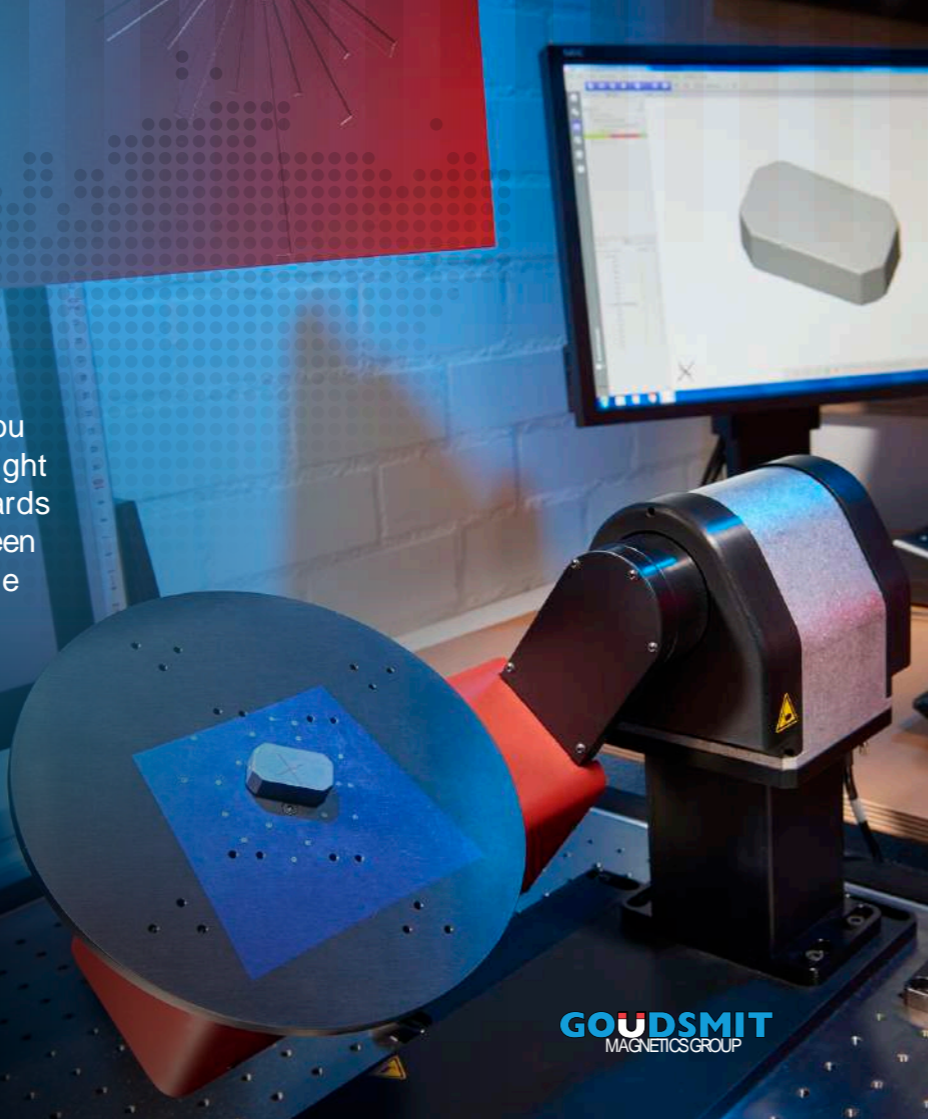
- Supply chain Management Using Demand Planning Software
- Consignment Stock Capabilities
- Local Warehouses That Can Hold Buffer Stock For 3-day Delivery
- Blister Packaging, Cartons and Boxes to Specific Pantone and Recycling Specifications

# Services

The Goudsmit Group understand that you need products to arrive on time, in the right quantity and to consistent quality standards on a regular basis. Since 1959 we have been developing our services to ensure that we can offer you bespoke solutions that will help your business run smoother.

We can offer you a range of services, including:

- Logistics
- Warehousing
- Design & Consultancy
- Assembly
- Project Management
- Quality Assurance



# Product Capabilities

Permanent magnets play an increasingly important role in our modern, fast paced world. The use of permanent magnets continues to grow enormously in the aerospace industry, with an emphasis on leading edge technology and demanding standards.

The Goudsmit Group offer a full range of permanent magnetic materials as tailored designs based on your specifications:

- Neodymium Iron Boron (NdFeB)
- Samarium Cobalt (SmCo)
- Aluminium Nickel Cobalt (AlNiCo)
- Ferrite

The Goudsmit Group places great importance on reliability; meaning our magnetic systems meet the promised specifications. The following are some examples of measuring devices we use to capture all the data that is relevant for us and our customers:

- Flux 3-D meter
- Helmholtz coil
- Optical 3D scanner
- Permagraph
- 3D coordinate measurement machine
- Gaussmeter
- Magnetization bench
- Handheld XRF analyser
- Roughness tester

In addition to conducting measurements and tests, we have put years of investment into magnetic calculations. The Goudsmit Group has the right software, highly trained personnel and a huge wealth of experience. Therefore, we can confidently say that you can entrust us with any engineering question.



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## TALK TO US

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