



# HANGZHOU PERMANENT MAGNET GROUP

## HPMG

English version



# HPMG HIGHLIGHT

## 1980

- State-owned **Xiaoshan Qianjiang Magnet Factory** founded. **Production of cast Alnico 3** started.

## 1984

- Renamed to State-owned **Hangzhou Xiaoshan Magnet Factory**. Production of cast **AL 5** started

## 1988

- **High Property Column Cast Al 5** developed

## 1989

- Production of **assemblies** for ammeters started

## 1993

- Production of Sintered **Alnico** started

## 1994

- Production of Sintered **NdFeb** started

## 1995

- **Sino-America JV Hangzhou BRIGHTY Magnet CO Ltd. founded**

## 1996

- Renamed to Hangzhou Permanent Magnet Group CO. Ltd (**HPMG**)

## 1998

- Production of **SmCO** and **Bonded AL** started

## 1999

- **ISO 9002: 1994** Certified

## 2000

- Second-Party audit by SIEMENS certified
- **Management Buyout , 100% private owned**

## 2001

- Production of PM brushless motors begins
- HPMG Magnet Assembly Division founded

## 2002

- **HPMG Motor Division** founded
- **QS9000** and **ISO9001** : 2000 certified

## 2005

- **Lean** Production and **6 SIGMA** introduced

## 2006

- **ISO/TS16949** certified

## 2009

- **ISO/14001** certified

## 2011

- **New SMCO and NDFEB production line completed**

## 2014

- **New Assembly Facility** built and production of complex custom
- **Built assemblies Begins**

## 2015

- **New Bonded (Injection Molded)** project gets underway
- **Additional Customer Technical** support added to our R&D dept

## 2016

- **Clean Room** completed by Jun 30 to produce **magnetic assembly**. Main application for **EV and HEV products**

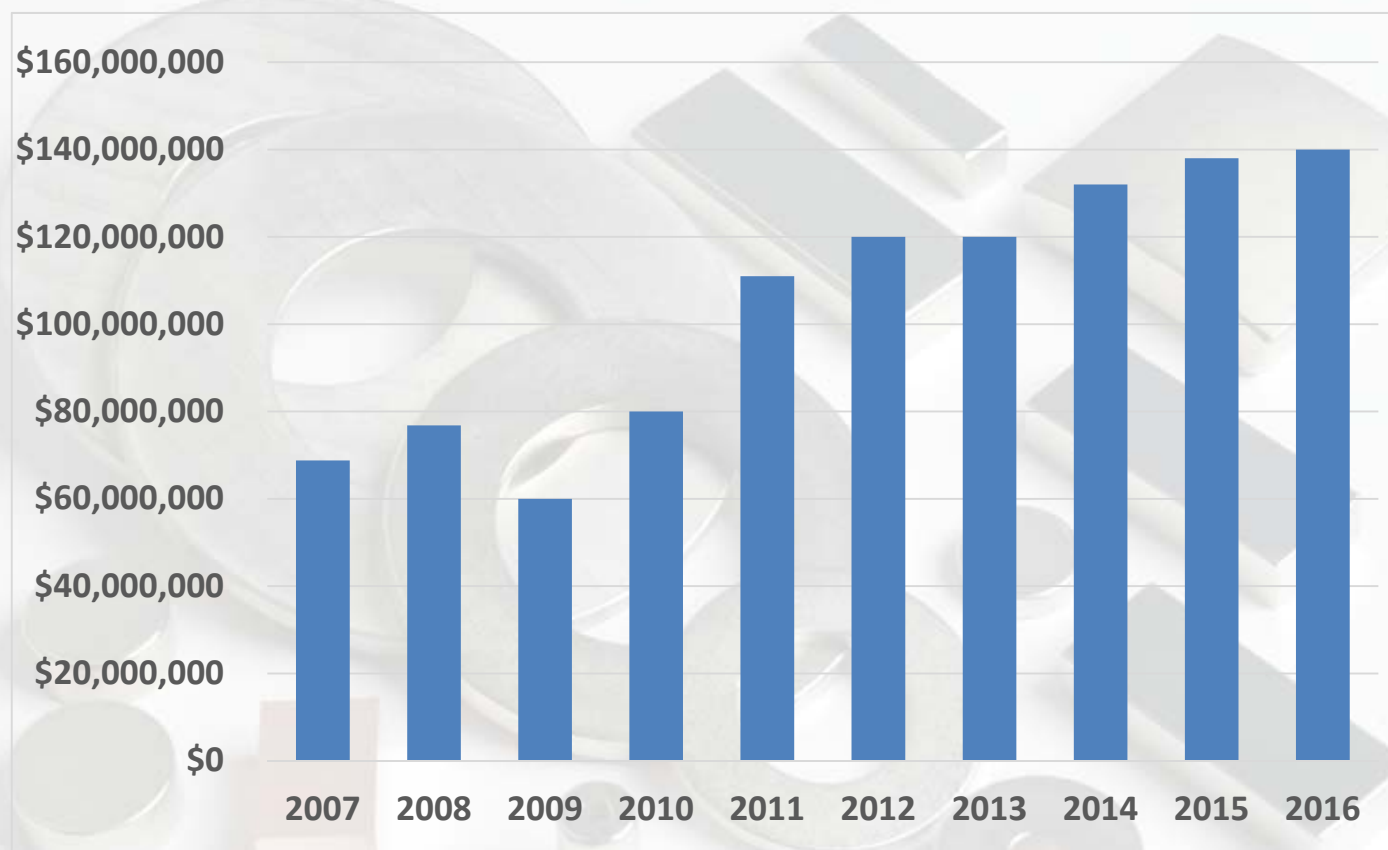
## 2017

- **Hangzhou Permanent Magnet Group Ltd** founded a **European Sales and Service Company in Hamburg in Jan 2017**. The continuously growing team in Europe will help to support you locally in all commercial and technical areas

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# HPMG SALES



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# CUSTOMERS



联合汽车电子有限公司

ZODIAC  
AEROSPACE



**BOSCH**

Invented for life

Continental

**EAT•N**

Powering Business Worldwide



**MAGNA**

Valeo  
法雷奥

SIEMENS



**Miele**



**KAUTEX**

A Textron Company

**WABCO**

**SKF**

Schneider  
Electric



**Nidec**

All for dreams™



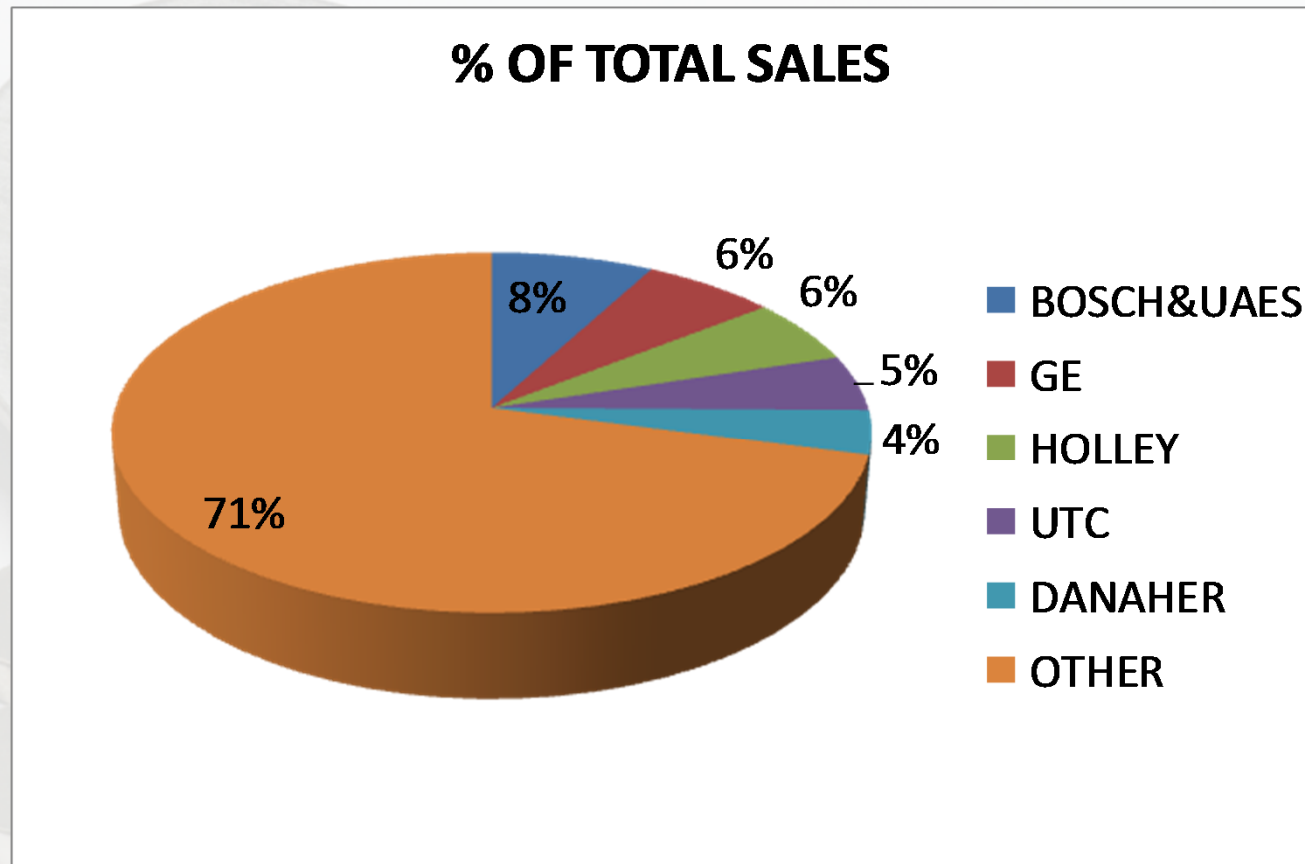
**DANAHER**

**THALES**

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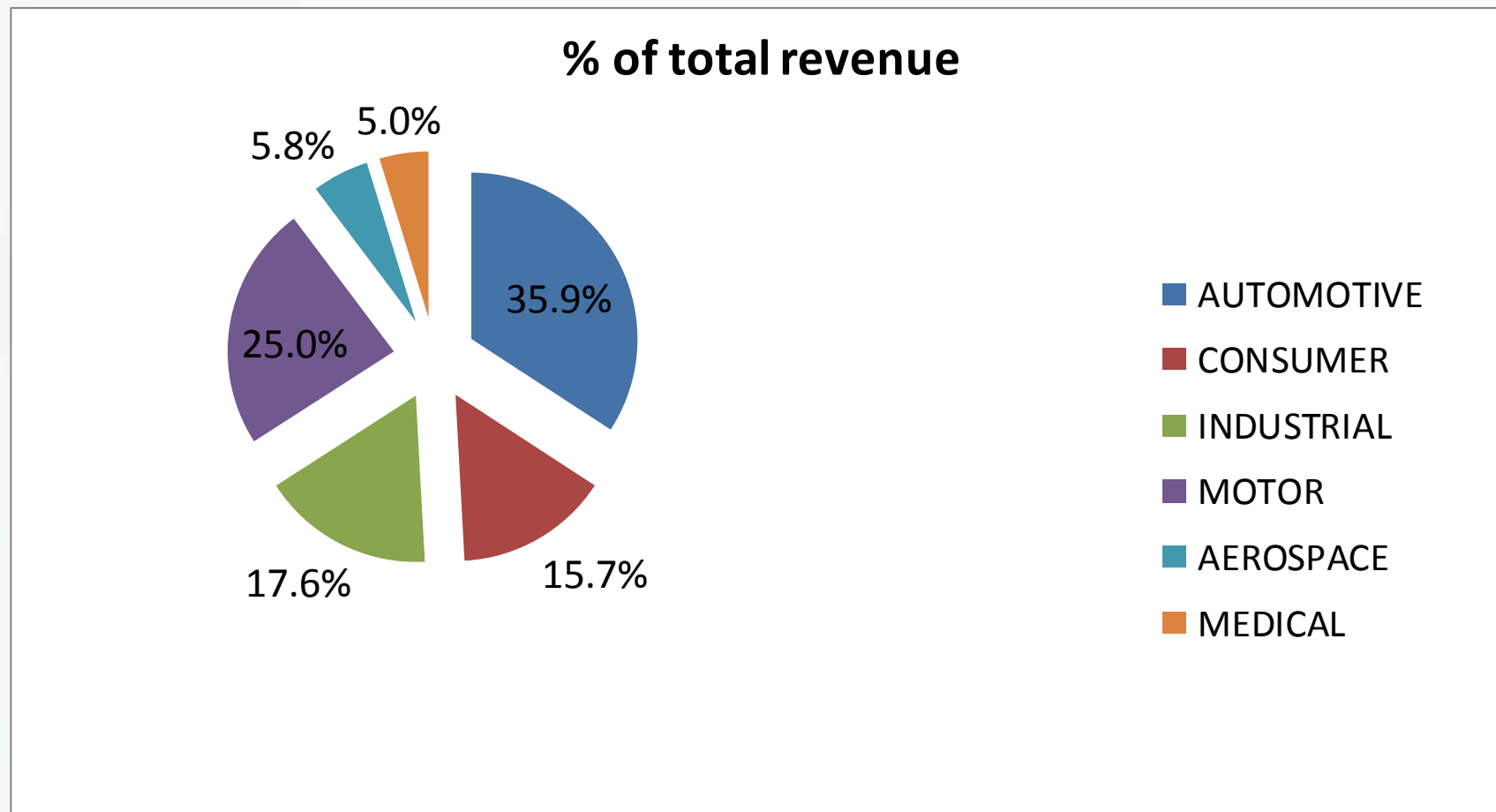


## TOP 5 CUSTOMERS





## MARKETS SERVED



# HPMG DIVISIONS

- HPMG Alnico Magnet Company  
**1500t/yr**
- HPMG NdFeb Magnet Company  
**2000t/yr**
- HPMG SmCO Magnet Company  
**1000t/yr**
- HPMG Magnet Systems Company (**Assemblies**)
- HPMG R&D Research Center Including the appointment of Technical Sales Director (Europe) for European Customer Technical Support
- Injection Molded Bonded Division

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## HPMG PRODUCTION REVIEW



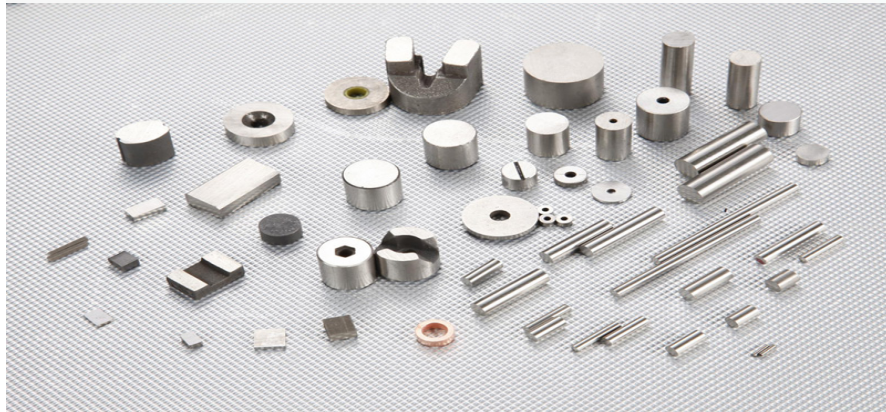
**HANGZHOU PERMANENT MAGNET GROUP**



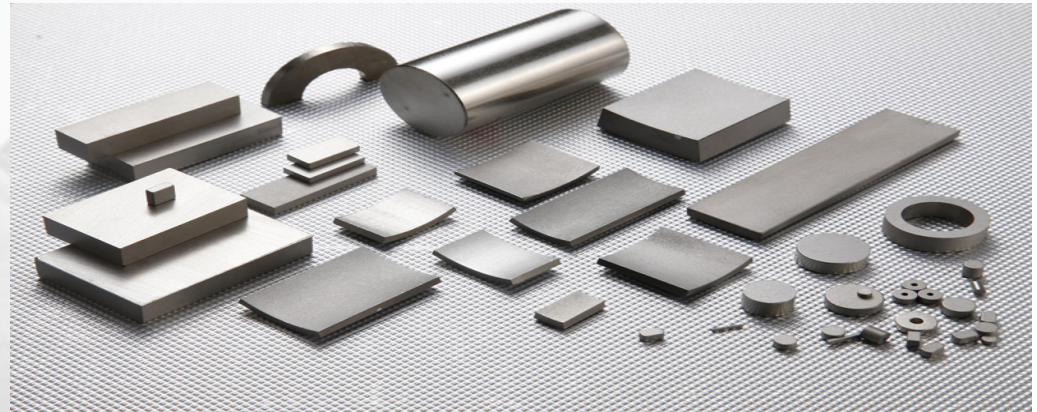


# PRODUCTS

## AlNiCo



## SmCo



## NdFeB



## Assemblies





# CERTIFIED QUALITY

ISO 9001 : 2000



ISO 14001

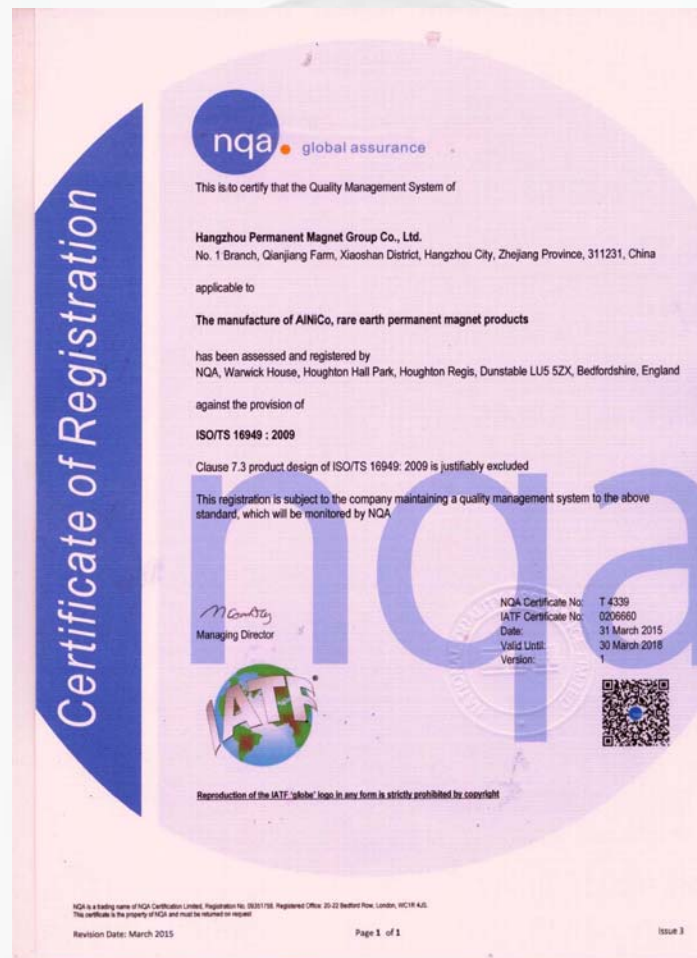


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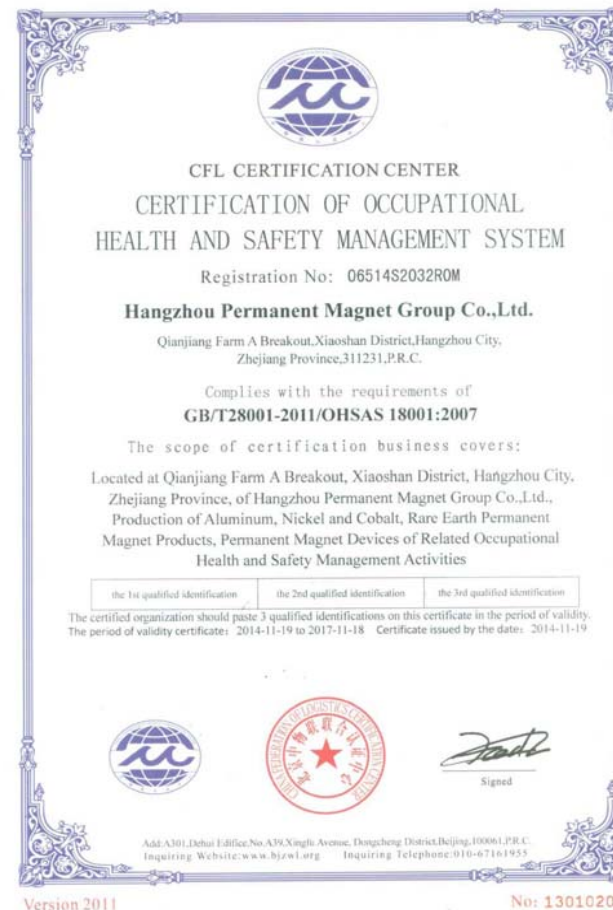


# CERTIFIED QUALITY

## ISO/TS 16949



## OHSAS 18001



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# RESEARCH AND DEVELOPMENT

- **100 Engineers**
- **Materials Co-Research with**
  - Zhejiang University
  - National Metrology Laboratory
  - Magnetic Application company Domestic and overseas
- **Customer Application Research & Development with**
  - Siemens
  - BMW



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# MANUFACTURING FACILITIES

- **4** Manufacturing Plants
- **1** R&D Department
- **140.000 m<sup>2</sup>** Factory Area
- **60.000 m<sup>2</sup>** Production Area
- **900** Employees
  - **770** Production
  - **30** QA/QC
  - **100** Engineers



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# CONTACT

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