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# **EVOLUTION OF** RNOLD

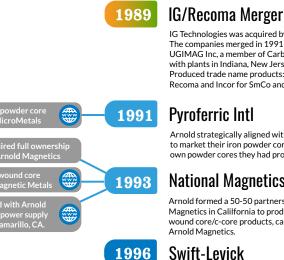
Key Sales & Acquisitions that Shaped **Arnold Magnetic Technologies** 0 Arnold Founded 1895 Ō Bion J. Arnold founded Arnold Electric Power Station Company, and patented the first magnetic clutch, "The Arnold Magnetic Clutch" in 1898. 0 Indiana General founded and begins producing 0 ALNICO magnets in Valparaiso, IN. Arnold Engineering 1924 Company renamed "The Arnold Engineering Company and began producing ALNICO in Marengo, IL in 1935 0 under Bion's son Robert. 0  $\bigcirc$ Allegheny Ludlum 1946 Allegheny Ludlum Steel Corporation purchased Arnold Engineering, Robert Arnold continued as president. 0 and became a vice president of Allegheny Ludlum. Ο  $\bigcirc$ Ogallala Electronics 1967 Arnold Engineering purchased Ogallala Electronics 0 Manufacturing from TRW in Ogallala, NE, manufacturing high 0 power coils and solenoids.  $oldsymbol{O}$ Brown Boveri Cie 1972 0 Brown Boveri Cie Switzerland launches the first rare earth production in Europe, trademarks the name Recoma<sup>®</sup> (Rare Earth Cobalt Magnets). Originally 0 0 founded in 1891, today, Brown Boveri is known as ABB. 0 RECOMA Inc 1976  $\bigcirc$ Brown Boveri RECOMA Inc is founded in Fairfield, New Jersey. AKA: the Boonton plant. 0 Flexmag Founded 1981 O What would become one of the world's largest 0 manufacturers of printable flexible magnet sheets, strips and extrusions was founded in a house in Marietta, OH. 0  $oldsymbol{O}$ SPS Technologies 1986 8 SPS purchased Arnold from Allegheny Intl. Arnold Engineering became Group Arnold, then Arnold, 0 the Magnetic Products Group of SPS. 0 Ramco Electric Motors Founded 1987 Ramco Elecric Motors was founded in Greenville, OH 0 1989 Dynacast Flexmag purchased by Dynacast 0  $oldsymbol{0}$ D.M. Steward Mfg 1990 Group Arnold acquired the Hard Ferrite Slice/Dice  $oldsymbol{O}$ business of D.M. Steward Manufacturing in Chattanooga, TN. Most of that business was integrated into Ogallala.  $\odot$ Minnesota Mining 1992 Arnold acquired Minnesota Mining and  $\bigcirc$ Manufacturing (3M) Company's bonded magnet business in Norfolk, NE, now part of Arnold's Ο Flexmag business, and referred to as Flexmag West  $\bigcirc$ Flexmag Industries 1996 Arnold purchased Flexmag Industries in Marietta  $\odot$ OH, a manufacturer of flexible bonded magnets, from Dynacast Inc, along with  $\mathsf{Dynacast's}$  injection 0 molded magnet business. 0  $oldsymbol{O}$ RJF International 1997  $\bigcirc$ 

Arnold acquired RJF International's bonded magnet business located in Cincinnati, OH, and merged it into Flexmag in Marietta, positioning Flexmag as the largest manufacturer of flexible bonded magnets in North America.

## Premier Microwave 1998

Arnold acquired the wound solenoid business of Premier Microwave and consolidated into Ogallala Electronics, establishing Ogallala as the leading manufactuer of foil wound solenoids in North America.

Today







Memories & Magnetics

Indiana General

Memories and Magnetics.

1976

1980

1983

#### Samarium Cobalt

Indiana General begins production of rare earth magnets (SmCo) in Valparaiso, IN.

Pechiney/UGIMAG

RECOMA Inc was acquired by Pechiney and became part of the French magnet producer UGIMAG.

IG Technologies

Indiana General bought by its GM, John A Johnson and renamed IG Technologies. Became the first company to produce Neodymium magnets and established a subsidiary in the UK.

IG Technologies was acquired by RECOMA Inc. The companies merged in 1991 and became UGIMAG Inc, a member of Carbone Lorraine Group with plants in Indiana, New Jersey and Singapore. Produced trade name products: Ugimax for Neo, Recoma and Incor for SmCo and Cunife.

Arnold strategically aligned with Pyroferric Intl to market their iron powder cores alongside Arnold's own powder cores they had produced since 1948.

### National Magnetics

Arnold formed a 50-50 partnership with National Magnetics in Calilfornia to produce soft magnetic wound core/c-core products, called National-



Arnold acquired Swift-Levick Magnets Ltd of Derbyshire, England from Outokumpu Oy, a major European manufacturer of Cast Alnico and Samarium Cobalt permanent magnets. SW was founded in 1883

### Magnetic Technologies

Arnold acquired Magnetic Technologies Corporation headquartered in Rochester, NY.

#### 1998 Jade Magnetics

1997

Arnold formed joint venture with Green Cartridge Company in Shenzhen, China called Jade Magnetics to manufacture magnetic assemblies and bonded magnets

1895

#### **General Ceramics** 1959

Indiana General merged with General Ceramics in Keasbey, NJ to form Indiana General Corporation, manufacturing ALNICO and hard Ferrite magnets.



1908

Indiana General Corp is acquired by Electronic



#### Precision Magnetics

Magnequench divests Permanent Magnet Group which in 2005 became Precision Magnetics LLC, owned by Archibald Cox Jr.



#### Arnold acquires Precision Mag

Arnold acquired Precision Magnetics and relocated their corporate office from Marengo, IL to Rochester, NY. Arnold moved Precision Magnetics' Wayne, NJ operations to Rochester. Arnold closed Swift-Levick in the UK, merging the SmCo business to Lupfig, moved Assemblies to Sheffield, and the Cast Alnico business to Marengo.

### 2019

2024

#### Technology Center

facility in Amata City, Thailand.

Arnold Magnetic Technologies opens new Technology Center for Research & Development, including rapid prototyping in Madison, WI.

Arnold opens Thailand Facility

Arnold's Shenzhen management opened a 26,250sf



ENGINEERING SOLUTIONS TOGETHER www.ArnoldMagnetics.com

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UGIMAG Inc was acquired by Magnequench. The Valparaiso plant closed in 2003, Neo production was transfered to Asia. Magnequench produced RECOMA in Lupfig, Switzerland, Sheffield, UK, and Wayne, New Jersey and was known as Magnequench Permanent Magnet Group

## Audax acquires Group Arnold 2005

Precision Cast Parts acquired SPS Technologies in 2003. and sold the Magnetics Group to Audax Group in 2005. Arnold changed name to Arnold Magnetic Technologies Arnold acquired ownership of Jade Magnetics in China.

#### Ganzhou Mine 2007

Arnold Magnetic Technologies AG of Lupfig, Switzerland developed joint venture with GQD in China for the production of Samarium Cobalt and other rare earth raw materials and blocks for the Asian market.

### Compass (CODI) acquires Arnold 2012

Compass Diversified Holdings (CODI) purchased a majority interest in Arnold Magnetic Technologies from Audax.



#### Arnold acquires Ramco 2021

Arnold acquired Ramco Electric Motors, adding stators and full electric motors to Arnold's offerings and expanding their capabilities with rotors.

Arnold maintains twelve manufacturing facilities, 饠 plus their joint venture.

2025

PMAG Division Lupfig, CH Woodstock, IL, USA Ogallala, NE, USA Rochester, NY, USA\* Madison, WI Sheffield, UK Shenzhen, CN Amata City, TH

Ramco Electric Motors Division Greenville, OH, USA

Precision Thin Metals Division Woodstock, IL, USA

Flexmag Division (East) Marietta, OH, USA (West) Norfolk, NE, USA

Joint Venture - Mine Ganzhou, CN

\* Headquarters

For more about Arnold's history, visit our website's About page.