EVOLUTION OF RNOLD®

Key Sales & Acquisitions that Shaped 1895 **Arnold Magnetic Technologies**

1908

1976

1980

1983

1989

1991

1993

1996

1997

1998

Indiana General

Indiana General founded and begins producing ALNICO magnets in Valparaiso, IN.



Arnold Founded 1895

Bion J. Arnold founded Arnold Electric Power Station Company, and patented the first magnetic clutch, "The Arnold Magnetic Clutch" in 1898.



Arnold Engineering

Company renamed "The Arnold Engineering Company" and began producing ALNICO in Marengo, IL in 1935 under Bion's son Robert.

Allegheny Ludlum Steel Corporation purchased Arnold



Allegheny Ludlum 1946

General Ceramics 1959

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



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Engineering. Robert Arnold continued as president, and became a vice president of Allegheny Ludlum.

Memories & Magnetics 1969

Samarium Cobalt

magnets (SmCo) in Valparaiso, IN.

Pechiney/UGIMAG

IG Technologies

established a subsidiary in the UK

IG/Recoma Merger

Pyroferric Intl

National Magnetics

Magnetic Technologies

Jade Magnetics

Arnold acquired Magnetic Technologies

Company in Shenzhen, China called Jade

Corporation headquartered in Rochester, NY.

Arnold formed joint venture with Green Cartridge

Magnetics to manufacture magnetic assemblies

UGIMAĠ.

Indiana General Corp is acquired by Electronic Memories and Magnetics.

Indiana General begins production of rare earth

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

Indiana General bought by its GM, John A Johnson and renamed IG Technologies. Became the first

company to produce Neodymium magnets and

IG Technologies was acquired by RECOMA Inc.

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

own powder cores they had produced since 1948.

The companies merged in 1991 and became UGIMAG Inc., a member of Carbone Lorraine Group **(**

Ugallala Electronics Arnold Engineering purchased Ogallala Electronics Manufacturing from TRW in Ogallala, NE, manufacturing high

power coils and solenoids.

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Brown Boveri Cie 1972

Brown Boveri Cie Switzerland launches the first rare earth production in Europe, trademarks the name Recoma® (\underline{R} are \underline{E} arth \underline{C} obalt \underline{Ma} gnets). Originally founded in 1891, today, Brown Boveri is known as ABB.



RECOMA Inc

1976

Brown Boveri RECOMA Inc is founded in Fairfield, New Jersey. AKA: the Boonton plant.

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1981

Flexmag Founded What would become one of the world's largest manufacturers of printable flexible magnet sheets, strips



and extrusions was founded in a house in Marietta, OH



SPS Technologies 1986

SPS purchased Arnold from Allegheny Intl. Arnold Engineering became Group Arnold, then Arnold, the Magnetic Products Group of SPS.



Ramco Electric Motors Founded 1987

Ramco Elecric Motors was founded in Greenville. OH



1989

Dynacast



D.M. Steward Mfg

1990

Group Arnold acquired the Hard Ferrite Slice/Dice business of D.M. Steward Manufacturing in Chattanooga, TN. Most of that business was integrated into Ogallala.



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Minnesota Mining 1992

Arnold acquired Minnesota Mining and Manufacturing (3M) Company's bonded magnet business in Norfolk, NE, now part of Arnold's Flexmag business, and referred to as Flexmag West.



Arnold formed a 50-50 partnership with 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.

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Hexmag Industries 1996

Arnold purchased Flexmag Industries in Marietta, OH, a manufacturer of flexible bonded magnets, from Dynacast Inc, along with Dynacast's injection molded magnet business.

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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.

RJF International 1997

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Premier Microwave 1998

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

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Magnequench 2000

Ganzhou Mine 2007

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



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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.

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.

Arnold acquires Precision Mag

Precision Magnetics

owned by Archibald Cox Jr.

their corporate office from Marengo, IL to Rochester, NY. Arnold moved Precision Magnetics' Wayne, NJ the UK, merging the SmCo business to Lupfig, moved Assemblies to Sheffield, and the Cast Alnico business to Marengo.

Compass (CODI) acquires Arnold 2012

Arnold Magnetic Technologies AG of Lupfig,

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

Arnold Acquires Ramco 2021

full electric motors to Arnold's offerings and expanding

2004

Magnequench divests Permanent Magnet Group which in 2005 became Precision Magnetics LLC,

Arnold acquired Precision Magnetics and relocated operations to Rochester. Arnold closed Swift-Levick in

2019

ARNOLD

ENGINEERING SOLUTIONS TOGETHER

www.ArnoldMagnetics.com

MAGNETIC TECHNOLOGIES

Technology Center

Arnold acquired Ramco Electric Motors, adding stators and their capabilities with rotors.

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

Today 2021

Arnold maintains eleven manufacturing facilities plus their joint venture.

PMAG Division Lupfig, CH Marengo, IL. USA Ogallala, NE, USA Rochester, NY, USA* Madison, WI Sheffield, UK Shenzhen, CN

Ramco Electric Motors Division Greenville, OH, USA

Precision Thin Metals Division Marengo, 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