

Company Profile



We are part of Nidec Corporation



Founded in 1973



HQ: Kyoto,
Japan



340+
Companies



Mergers & Acquisitions (M&A) are the
driving power behind growth
So far, there have been over 70 M&As



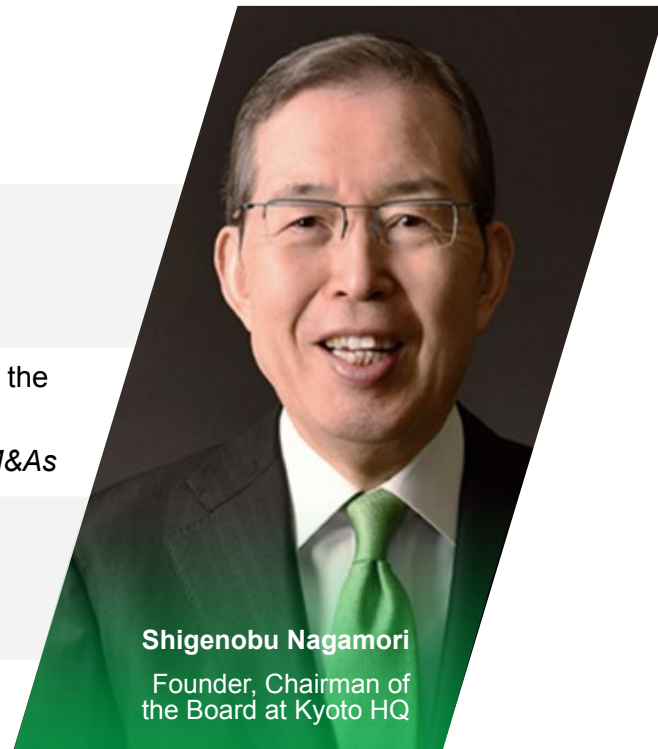
40+
Countries



\$16B
Net Sales (FY 22)

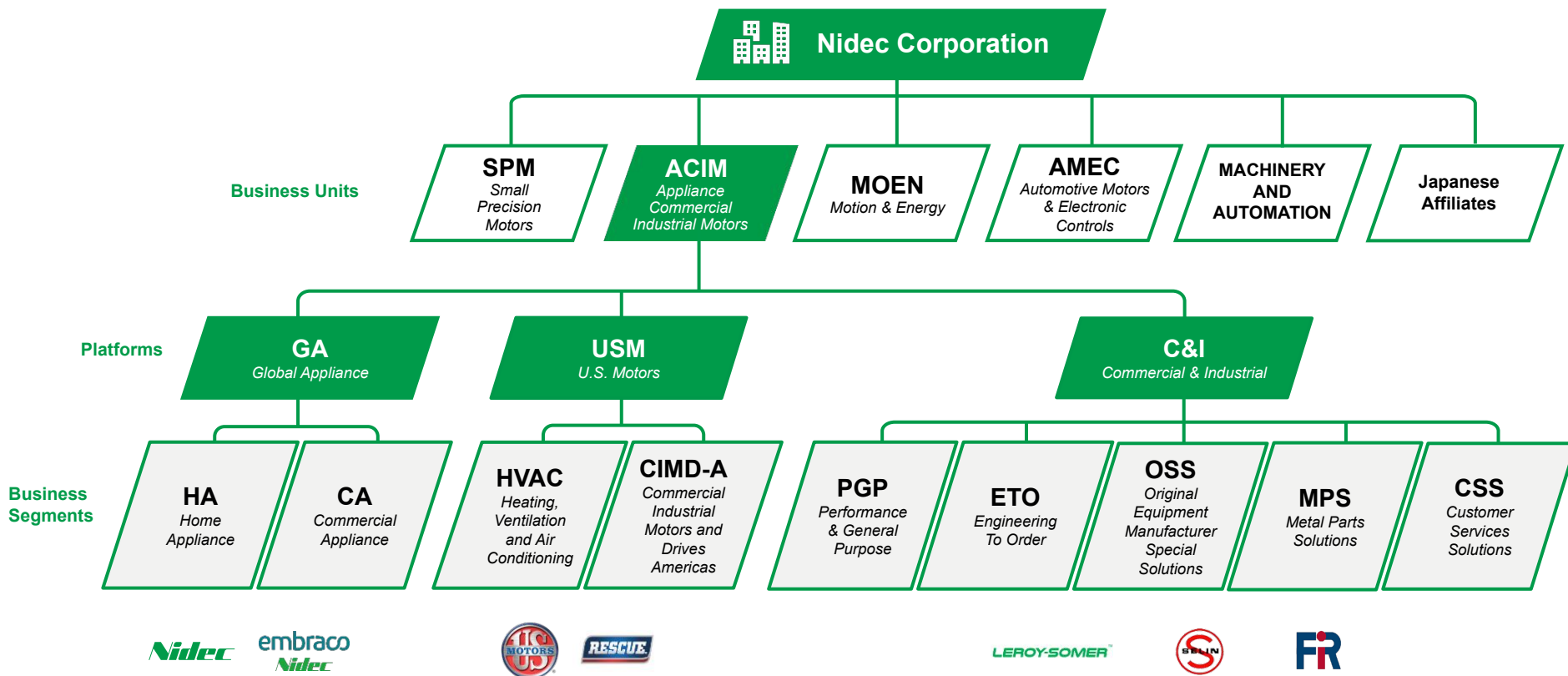


110,000+
Employees Worldwide



Shigenobu Nagamori
Founder, Chairman of
the Board at Kyoto HQ

NIDEC CORPORATION STRUCTURE



ACIM AT A GLANCE

We develop high-efficient solutions

that empower people and industries to move towards a more sustainable world



37
manufacturing sites



~30
business offices



+25
countries



+20,000
people



Headquarters
in Pordenone
(Italy) and
Joinville (Brazil)



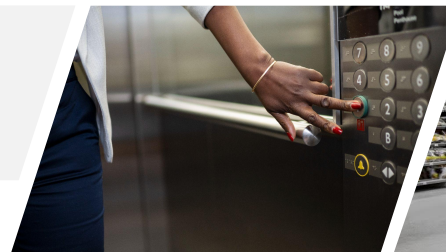
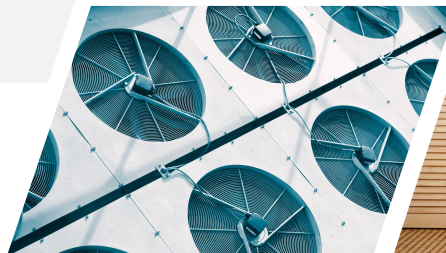
\$3.2B
sales/year



70,000,000
products sold/year



+4,000
customers worldwide



ABOUT GA

NIDEC GLOBAL APPLIANCE

We are a global partner for **home and commercial** appliances industries

Portfolio of motors, compressors and condensing units designed to deliver the best-in-class performance, differentiated by **low noise, reliability and high energy efficiency** levels.

HA



CA



OUR BRANDS

Nidec

embraco
Nidec

embraco
Nidec

GA PLATFORM DETAILS



HQ: Joinville (Brazil)



11,000 employees



12 manufacturing plants and **4** business offices across 9 countries



Annual production capacity of **80 million** motors and compressors



8 R&D Centers worldwide and **500+** engineers



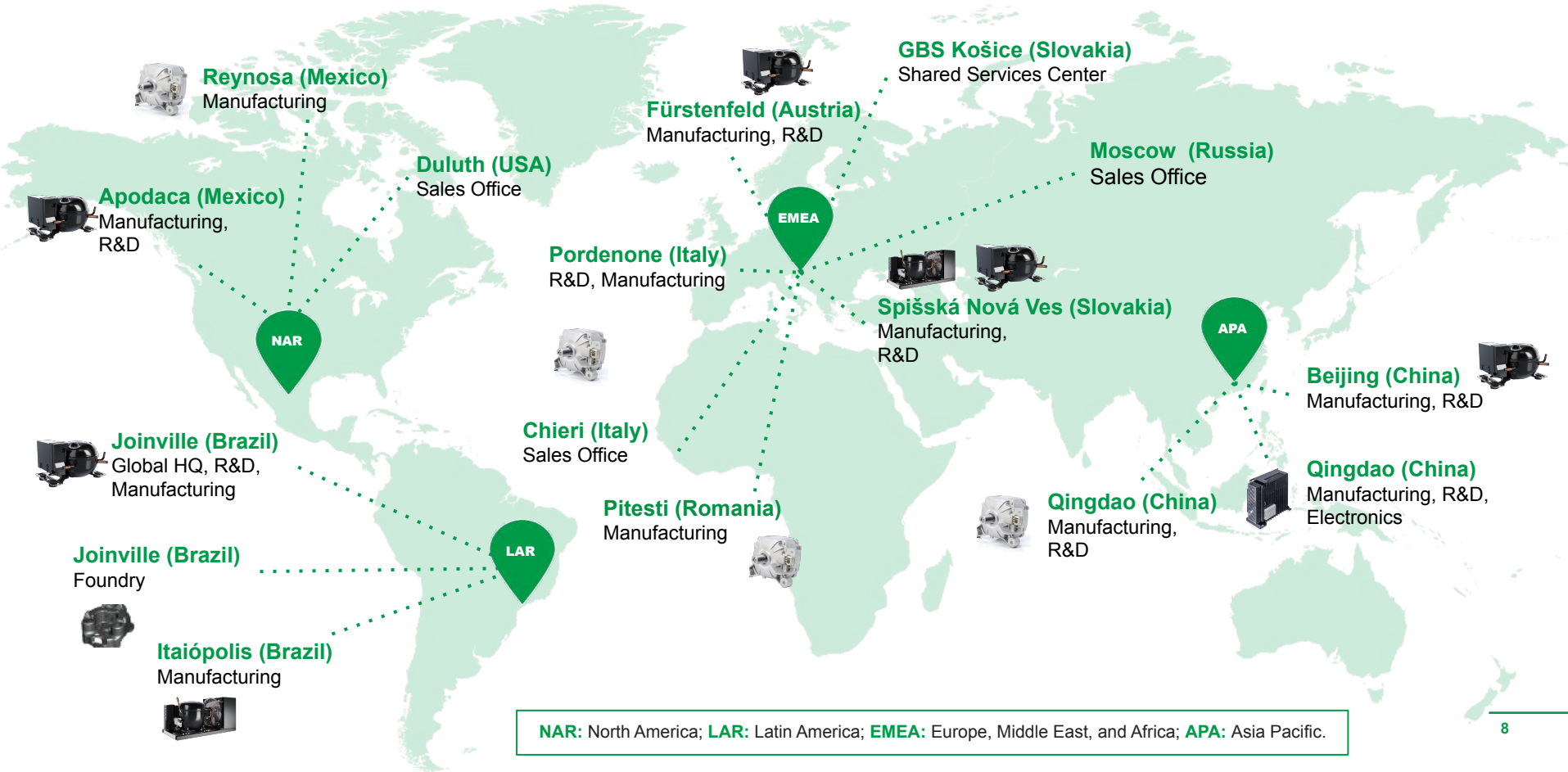
90 countries served by our products



\$1.5B
sales/year



GA GLOBAL PRESENCE





Energy
efficiency

Technology that enables **reduction of energy** consumption.



Natural
Refrigerants

Portfolio designed to deliver the **best in class performance**, under the safest conditions with Natural Refrigerants.



Miniaturization

Size reduction combined with **embedded technology**.



Low noise

Low noise in motors and compressors is key to **keep the consumer experience positive**.

We are differentiated by a **deep expertise in Research & Development**, capable of **delivering technology and innovation** that anticipates trends.



Robust structure for innovation

with 8 Research & Development Centers



Partnerships with Universities

in different regions in the world



Local engineering support teams

with labs and application engineers available worldwide



+500 valid patents and +4,500 in the history

Innovation is a continuous process

ABOUT GA

BUSINESS SEGMENTS AND BRANDS

Home Appliances

Solutions for Refrigerators,
Washing Machines,
Dishwashers and Dryers

Nidec

embraco
Nidec



Commercial Appliances

Compressors and
Condensing Units for
Refrigerators and Cooling
Systems.

embraco
Nidec



GA BUSINESS SEGMENT

HOME APPLIANCES

Two steps ahead of the trends to drive appliances to a more sustainable future



Nidec

Motors for washing machines, dryers and dishwashers.



embraco
Nidec

Compressors for refrigerators.



We offer innovation through a complete portfolio of **motors** for **Washing machines, Dryers and Dishwashers**

Excelling in technologies for **low noise, compact and energy efficient** solutions



PORTFOLIO FOR WASHING MACHINES, DRYERS AND DISHWASHERS

- ✓ Experts in the **OEM process**
- ✓ Deep understanding of the **market regulations worldwide**
- ✓ Highly advanced R&D
- ✓ **Tailored solutions**

Washing Machines

Dryer

Dishwasher

Traditional Motors



BPM Motors



We are differentiated by our **co-development** methodology with customers, which means:

- **Cost savings and improvements** in the customer's production line.
- **Working closely with customers** in the product development process to **provide proposals** with high added value.
- Formulate the **best solution** for each of our customers' products.



Washing Machine motors in all types of technologies

Our range of motors for washers covers the requirements for all regions and types of appliances.

Available also as IMAC
(Integrated Motor and Control).



HAWM
Horizontal
axis washing
machine



VAWM
Vertical axis
washing
machine



Universal



CIM



CIM - IMAC



BPM



BPM -
IMAC



DD



DDM



DDM gear
drive



PS
C

Dryers motors: from classic solutions to second generation BPM models



DRY
Tumble
dryer



PSC



Split-Phase



BPM



BPM -
IMAC

**Complete
portfolio of
motors for
dishwashers,**
also available with
electronic board
and integrated
heater

DW
Dishwashers



PSC
pump



PSC & integrated
heater



BPM
with integrated heater and
electronics

Count on our competence in electronic drives



WM drives



- Client dedicated communication HW/SW
- Proprietary unbalance control algorithm
- Integrated or modular

Dryer motor drives



- Modular version

Dishwasher drives



- Integrated on pump



Solutions for Residential Refrigeration



High-quality and **high-performance**



Efficiency through **constant innovation**



Low noise



More internal cabinet space



Cost Competitive



EMBRACO PORTFOLIO FOR HOME APPLIANCE

An **innovative** and
efficient portfolio



FIXED SPEED

Reliability: Product life extension



DELTA



ES



EM



EG

VARIABLE SPEED

Highest efficiency standards and world class **low noise**



FMS



FMX



VES



VEM



VEG

FUTURE:

High performance with simplification

Standardization to cover all applications' range



FMS



FMX



VES

Renowned fixed speed

Portfolio differentiated by low noise, reliability and high efficiency levels



EM3: wide performance range

EM FAMILY

Best Seller

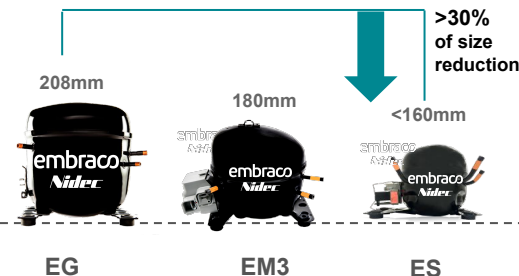
Years of expertise and non-stop evolution in more than

100M compressors
sold in natural refrigerants

ENERGY EFFICIENCY

30 – 40%* increase over recent years

Size reduction journey with fixed speed compressors



LOW GWP SOLUTIONS:
SINCE 1994, THE PIONEER
IN ANTICIPATING FUTURE
CHALLENGES

Extra efficiency and temperature stability for refrigeration



Lowest energy consumption: up to 50%* lower energy consumption



Miniaturization: small on size, but large on its application range



Fast Cooling: target temperature reached faster, ensuring better food preservation



Low noise

Ready to attend the most restrictive regulations

208mm



VEG

123mm



FMS

>40%
of size
reduction

Designed to deliver high cooling capacity with small size

**in comparison to the conventional compressor.
Efficiency indexes based on internal tests.*



Delivering market trends with breakthrough technology



Key Drivers



Optimized performance



More internal
cabinet space



Temperature control



Cost Competitive



High energy efficiency



Low noise



GA BUSINESS SEGMENT

COMMERCIAL APPLIANCES

SOLUTIONS FOR COMMERCIAL APPLIANCES



Naturally Efficient: solutions ultra low GWP



Energy efficiency: robust portfolio with low energy consumption



Innovation: tailor-made solutions for the system needs.



Reliability: product life extension



High-quality and high performance



WIDE APPLICATION RANGE FOR COMMERCIAL REFRIGERATION

LBP

HBP



Naturally
Efficient



Energy
Efficiency



Reliability

FIXED SPEED

*Extended cooling
capacity*



EL



EM



EH



F



NE



NT



NJ



SCROLL

VARIABLE SPEED

*Excellence in
energy efficiency*



FMX



VEM



VES



FMF



VEH



VNE



VNEX



SCROLL

CONDENSING UNITS

*Optimized design
for better
performance*



Standard portfolio



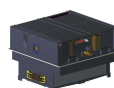
Plug n' Cool



Sliding



BIOMA



Monoblock

The most efficient compressor for the commercial segment



Ideal for supermarkets and special applications



Reduces energy consumption by up to 40 % in comparison to fixed (on-off) compressor



Extended cooling capacity allows reducing the quantity of SKUs



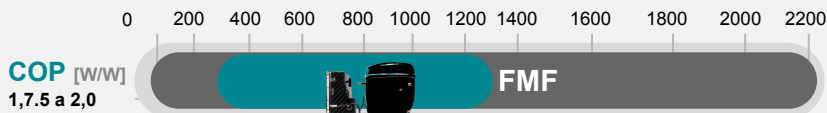
SDI, Dual Voltage and PFC ready



Low noise



High temperature stability



Available in

Made in Brazil



R290



CONDENSING UNITS: ease of installation and maintenance services

Reliable portfolio of cooling solutions



Covering multiple applications



Cold room



Display cases

LESS COMPLEXITY: complete pre-assembled high pressure side solution simplifies production process and maintenance.



Customization capabilities: standard portfolio covering a wide range of applications.



Optimized condenser-compressor design leading to improved performance and reliability.



Approved for natural refrigerants use

All components rely on Embraco quality.

BIOMA: Products customized to the market's needs

Easy maintenance, fast installation and easy cleaning for refrigeration professionals.



Designed for cold rooms and outdoor applications



Urban areas of the European market require a product that

is.



Silent



Stackable

Smart design with **three access doors**



Up to **50% of noise reduction** versus next best alternative

**For an in-depth look about
our company and solutions,
follow our pages:**



Nidec

Global Appliance