



WHO WE ARE



We are part of Nidec Corporation



Founded in 1973



HQ: Kyoto, Japan



330+ Companies



Mergers & Acquisitions (M&A) are the driving power behind growth.

So far, there have been over 60 M&As.



40+ Countries



\$1.5 BGroup Operating Profit (FY/2020)



110,000+ Employees Worldwide



\$15.3 B

Group Turnover (FY/2020)



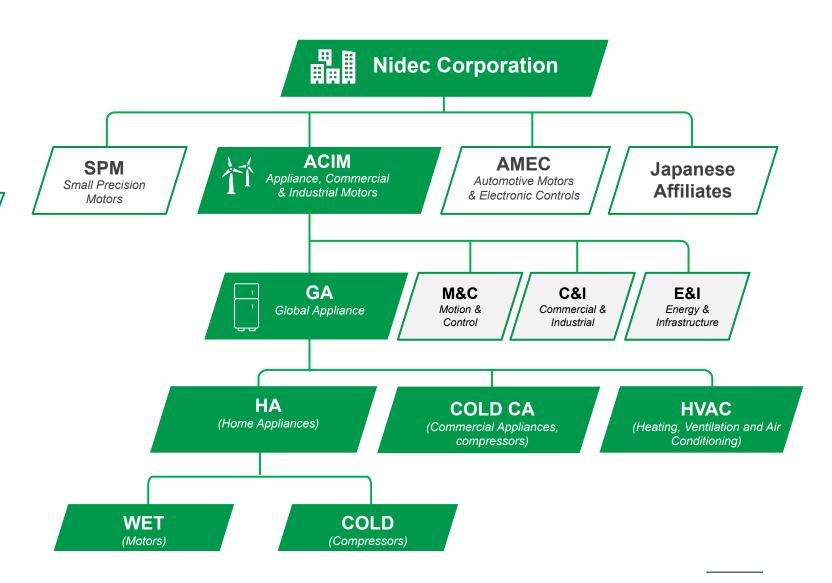
Shigenobu Nagamori
Founder, Chairman of the Board at Kyoto HQ

Nidec Corporation Structure



Business structures

Nidec Global Appliance is part of ACIM, a Nidec business division focused on appliance, commercial and industrial motors.

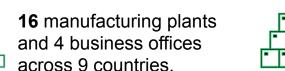




We are Nidec Global Appliance, a global partner for home and commercial appliances industries



HQs: Joinville (Brazil) and Pordenone (Italy).







15,000+ employees.



Annual production combined capacity of **75 million** motors and compressors.



80+ countries served by our products.



Nidec GA organizational history



2014

 Qingdao Wet is integrated into the Global Appliance division

2017

- First compressor business is acquired
- Reynosa plant integrated into the Global Appliance division

2020

- Incorporation of HVAC
- Acquisition of Delta's (Austria) compressors product line

2010

Acquisition of ACC's household motors business

2016

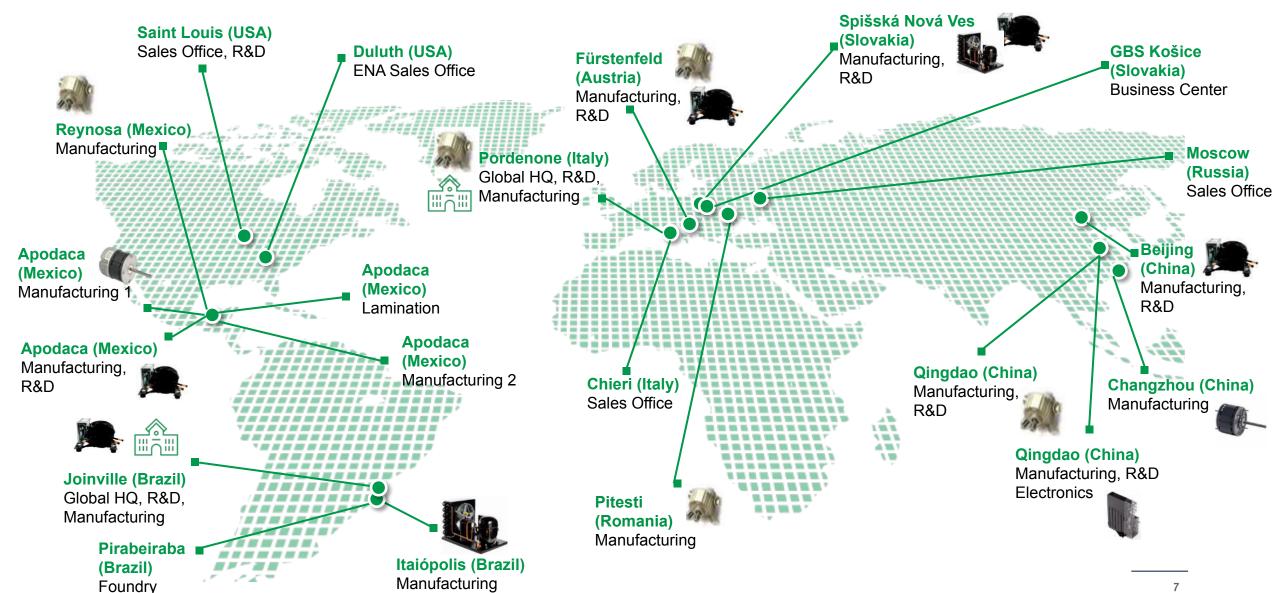
 Acquisition of ANA IMEP, manufacturing plant located in Romania

2019

- Acquisition of Embraco, a global company of over 49 years
- New logo, brand architecture and brand portfolio

Nidec GA Global Presence







Our purpose: Why we exist

To give life to essential appliances, turning people's day-to-day lives into healthier and more comfortable experiences.

Our 2025 vision: What we aim for

To be the leading partner in Home & Commercial Appliances and Air Conditioning industries.

Our culture: How we do it everyday

Challenge cost & grow for the future

Collaborate without barriers

Act with agility & correctness

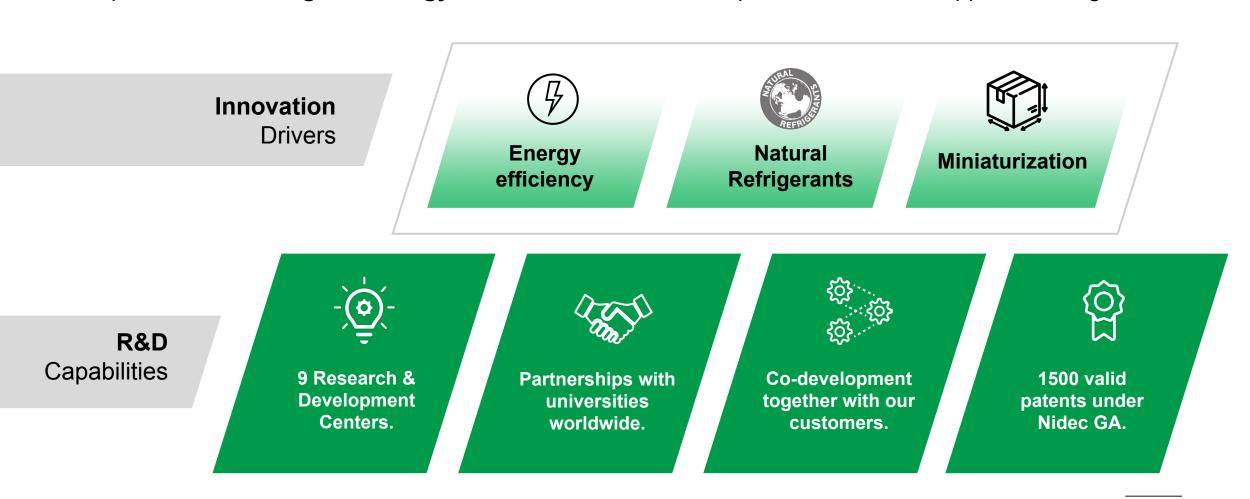
Innovate ourselves for differentiation

Be active learners & developers

Nidec GA Research & Development



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





BUSINESS UNITS AND BRANDS

Our Business Units and Brands





Home Appliances

Solutions for Refrigerators Washing Machines, Dishwashers and Dryers.

Commercial Appliances

Compressors and Condensing Units for commercial refrigeration equipment.

HVAC

Motors and Components for Heating, Ventilation and Air Conditioning systems



embraco Nidec



embraco *Nidec*











HOME APPLIANCES

Solutions for Home Appliances





Motors for washing machines, dryers and dishwashers.



Compressors for refrigerators.





Motors for washing machines, dryers and dishwashers.

Recognized as energy-efficient and reliable, we are differentiated by our co-development methodology, delivering technologies that are fit for the exact purpose of the customer.



Complete Portfolio for Washing Machines, Dryers and Dishwashers



Nidec motors meets a variety of customer's requirements in terms of size, weight, low noise, efficiency, design and technology.

- Experts in the **OEM process**;
- Deep understanding of demands, characteristics and regulations of **different markets**;
- R&D area with sophisticated testing and analysis capabilities;
- Rapid sample delivery;
- Tailored solutions.

Washing **Machines**







Dryer



Dishwasher

BPM Motors

Traditional

Motors











Washing Machine motors

to attend a wide range of market specifications

Our range for Washers covers the requirements for all Regions and type of Appliance. Available also as IMAC (Integrated Motor and Control).



HAWM
Horizontal
axis washing
machine



Universal



CIM



CIM - IMAC



BPM



BPM - IMAC



DD





DDM



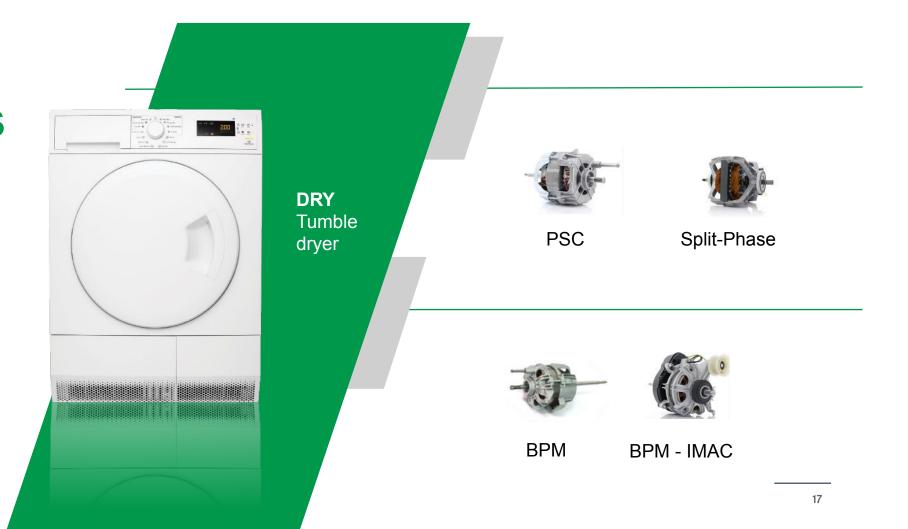
DDM gear drive



PSC



Different technologies for different needs





A truly global presence and highly advanced R&D

Integration of heater on motor pumps as well as electronic drive on our range of high efficient BPM solutions provides additional value to Nidec offer.





Count on our competence in electronic drives.







WM drives





- Client dedicated communication HW/SW
- Proprietary unbalance control algorithm
- Potted

Dryer motor drives





 Suitable for "explosive gas applications" environment (e.g. R290 – propane - in heat pump dryers)

Dishwasher drives





embraco *Nider*

Compressors for **Refrigerators**



High-quality and high-performance



Efficiency through constant innovation



Low noise



More internal cabinet space



Cost Competitive





An **innovative** and **efficient** portfolio

30 liters









1000 liters

Fixed Speed

- Reliability: Product life extension
- **Efficiency** and robustness









EM



EG

Variable Speed

- **Highest efficiency** standards
- World class low noise
- Precise temperature control





FMS









FMX

VES

VEM

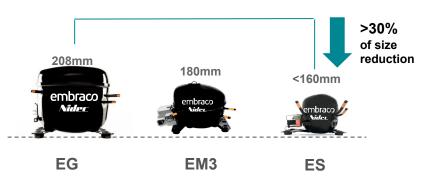
VEG



Best Seller

Fixed speed portfolio is differentiated by low noise, reliability and high efficiency levels

Platform Evolution







Fixed Speed

Energy efficiency

30 – 40%* increase over recent years

Best Seller

Years of expertise and non-stop evolution in more than 500M compressors sold



Research and Development focused on: Variable Speed



Efficiency and temperature stability for refrigeration

Variable Speed



Lowest energy consumption due to inverter technology, up to 45%* lower energy consumption



Miniaturization: Platforms that are small on size, but large on its application range



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



Low noise







Ready to attend high-performance requirements and the most restrictive regulations





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



COMMERCIAL APPLIANCES

embraco Nider

Solutions for **Commercial Appliances**



Naturally Efficient: ultra low GWP and better performance.



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



Embraco portfolio for commercial refrigeration





Food Retail & Food Service: Products customized to the market's needs

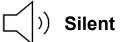


BIOMA

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



Urban areas of the European market require a product that is:





Stackable

Smart design with three access doors



Food Retail: bringing innovative solutions to the market



Plug n' Cool

Easy maintenance for cold storage

A complete plug in (self-contained) solution designed for food retail, differentiated by a low total cost of ownership





Accelerates the installation process in 70%*



Energy efficient: it reduces energy consumption by 30%*



Modular design, it's great for small family business as well as large wholesalers



LOW GWP SOLUTION: for 25 year, the pioneer in anticipate market trends

*Efficiency indexes based on customer inputs.

Condensing Units: ease of installation and maintenance services



Condensing Units

Reliable portfolio of cooling solutions

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



embraco Nider

Covering multiple applications





Standard portfolio covering a wide range of applications. Embraco also has customization capabilities.



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



With options approved for natural refrigerants use

All components rely on Embraco quality.

Inverter technology provides high-performance for equipments



FMF series

The most efficient compressor for the commercial segment.

The variable speed technology keeps the temperature stable and modulates the capacity, according to the application demand.



Ideal for supermarkets and special applications





Medical refrigeration



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



High temperature stability



Low noise



Dual-voltage (110V-220V / 50-60Hz).



Designed to operate with natural refrigerants (R290)

Embraco Digital Tools for Refrigeration Market







www.embraco.com

Website in 11 languages: focused on product application. **Technical Blog for refrigeration market**



http://refrigerationclub.com/

Refrigeration Club: educational and technical content

Product Selector Software



http://products.embraco.com/

Product Selector (PSS): online catalog

Embraco Toolbox App



Audience:

Free tool for installers

Main content:
7 features / 10
languages available for
Android and iOS.

Social Media channels









Embraco brand offers digital tools and services focused on providing support for refrigeration professionals on their daily routine.



HVAC



Heating, Ventilation and Air Conditioning (HVAC)

With roots dating back to 1908, our motor brands are leaders in the North American market, offering a full complement of induction or EC motors designed for single or three phase applications.

Get to know the main attributes of our portfolio of components for the HVAC industry:



Technology & Innovation



Reliability



Low lead time





The industry leader in reliability, distribution and support for Residential and Commercial applications





In an energy-conscious world, the U.S. MOTORS® brand continues to be a leader in innovation of new BLDC and other leading technology motors.

U.S. MOTORS® has stood for quality and innovation for more than a century. A broad product offering provides stock motors for most applications, but for specialized motors, our talented engineers will develop a specific solution for the customer.







Heating



Ventilation



Air Conditioning



Refrigeration







The RESCUE® line of HVAC motors is part of the U.S. MOTORS® brand product family. Ask for RESCUE®, The Ultimate Truck Stock Motor™.



Premium brand

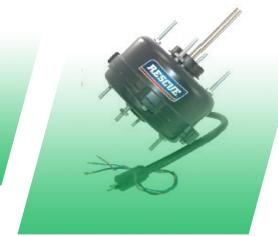
Different technologies:

ECM: 85% EFFICIENCYhigher cost / premium material inside

PSC: 60% EFFICIENCY price fighting motors



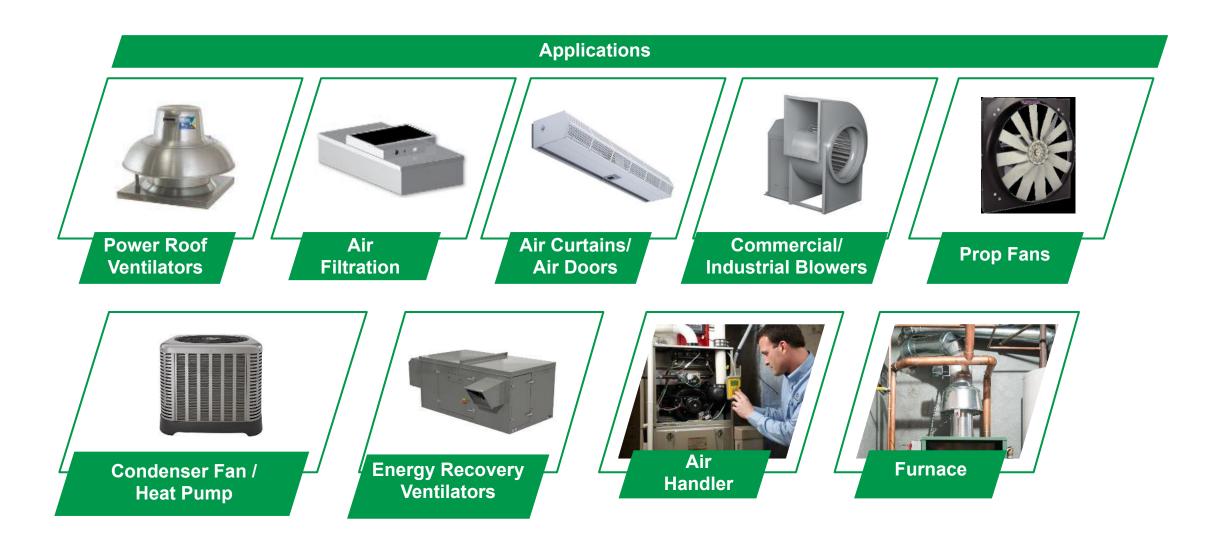






Air Moving and Ventilation Products





Nidec Product Breadth in Position to Serve all OEM Motor Needs



Torque

Induction Motors ECM Commercial PerfectSpeed SelecTech EcoApex **EcoApex** 5.5" PEP High 56 Frame 140 Frame & Constant Constant 56 Frame **PSC** Eff. PSC Larger | 3-PH 1-PH, 3-PH CFM Torque **Heat Pump &** Condensing Unit 4.8" & 5.1" PEP High Eff. 5.5" EcoApex 48 **PSC PSC** PSC **Furnace** SelecTech PerfectSpeed Rescue FER-BPM Constant **Draft Inducer** Constant CFM **Ecotech** (2020)Torque Air Handler PerfectSpeed SelecTech Rescue PEP High Eff. **Constant CFM** Constant **Ecotech** 5.5" PSC

PSC

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







