



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 60 M&As.



40+ Countries



\$1.5 BGroup Operating Profit (FY/2021)



110,000+ Employees Worldwide



\$17.4 B

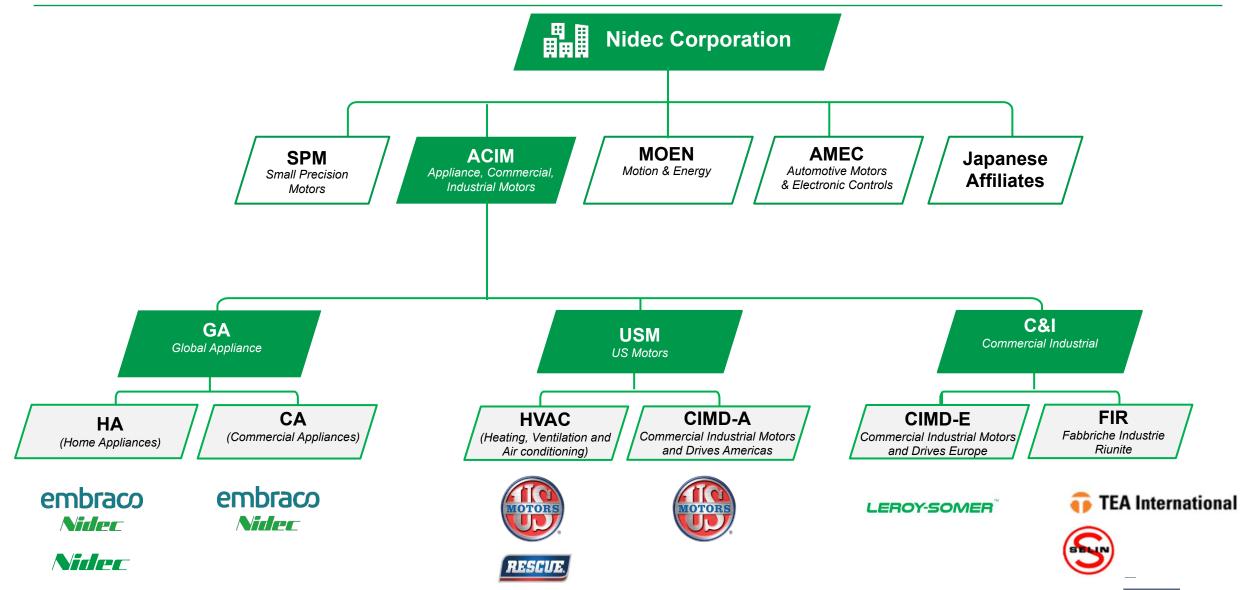
Group Turnover (FY/2021)



Shigenobu Nagamori Founder, Chairman of the Board at Kyoto HQ

Nidec Corporation and ACIM structure







A business unit focused on Appliance, Commercial, Industrial Motors



HQs: Pordenone (Italy) and Joinville (Brazil)



Present in **25 countries** with **37 different sites** (plants and commercial offices)



Over 20.000 employees



3.2 B USD turnover (BP FY21)





NIDEC GLOBAL APPLIANCE



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



HQs: Joinville (Brazil) and Pordenone (Italy)



+12,000 employees



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



Production capacity of **80 million** motors and compressors



7 R&D Centers worldwide and 500+ engineers



90+ countries served by our products



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

GA Innovation Drivers





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.



We foster innovation through our 7
Research &
Development
Centers spread through 4 different continents

Our partnership with universities all over the world allows us to develop innovative solutions and always have a fresh approach Our R&D works together with application engineers across the globe to guarantee the ideal match between Nidec components and the customer application

Nidec Global Appliance has over 1,050 valid patents.



BUSINESS SEGMENTS AND BRANDS

GA Business Segments and Brands





Home Appliances

Solutions for Refrigerators Washing Machines, Dishwashers and Dryers.



embraco *Nidec*



Commercial Appliances

Compressors and Condensing Units for Refrigerators and Cooling Systems.

embraco *Nidec*





HOME APPLIANCES

Solutions for Home Appliances





Motors for washing machines, dryers and dishwashers.



Compressors for refrigerators.





Recognized as energy-efficient and reliable, we develop core components for:



- Washing machines
- Dryers
- Dishwashers

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











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



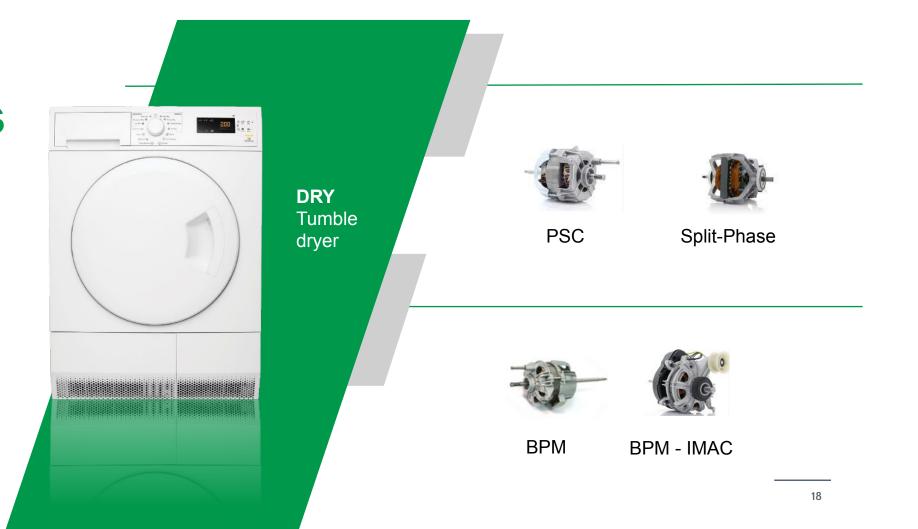
DDM gear drive



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

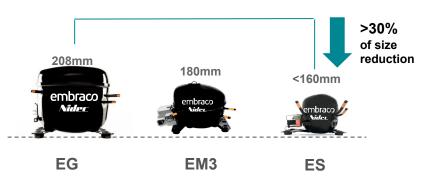
VEG



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

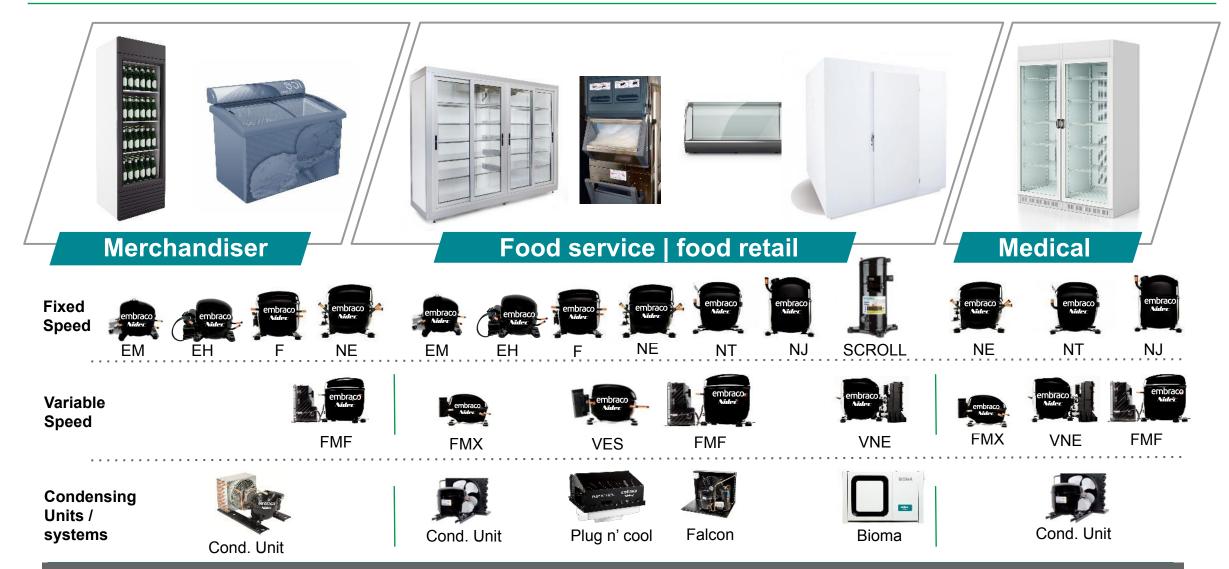


High-quality and high performance



Embraco portfolio for commercial refrigeration





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

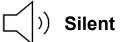


BIOMA

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.

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







