

GA Company Profile



Department Name

Date





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



\$0.91 BGroup Operating Profit (FY 22)



110,000+

Employees Worldwide



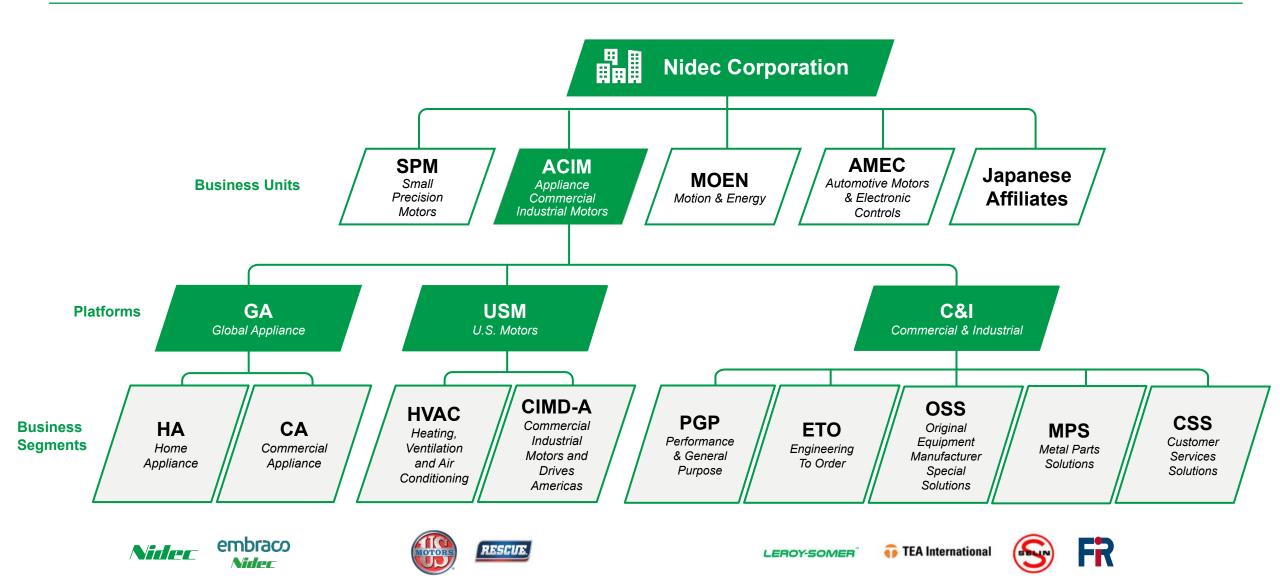
\$22.4 B

Group Turnover (FY 22)



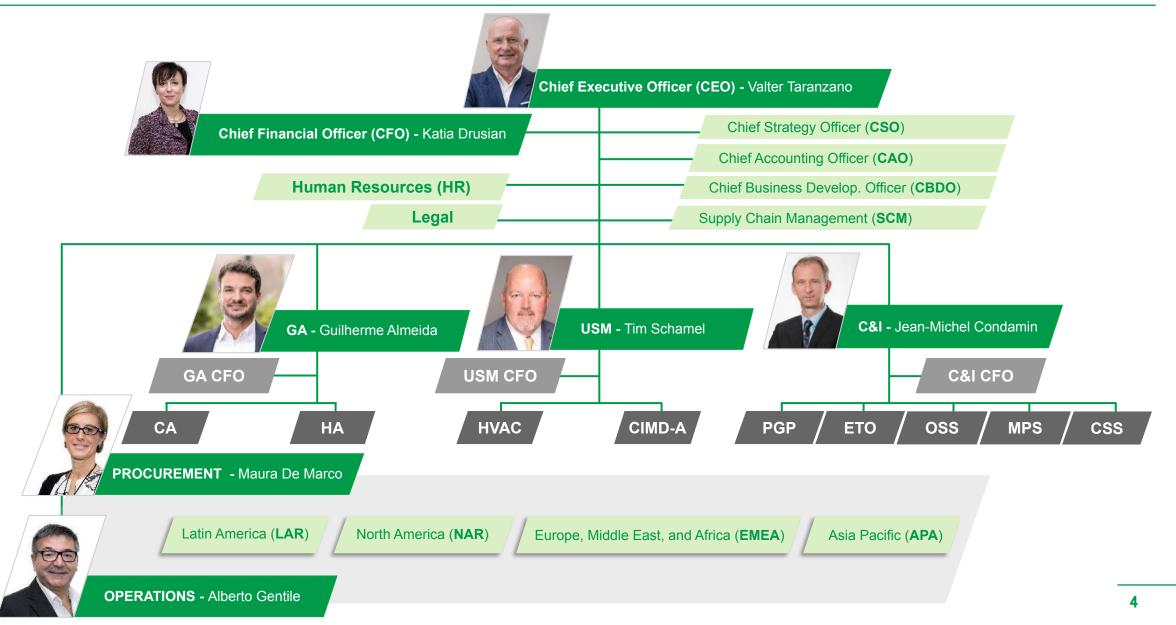
NIDEC CORPORATION STRUCTURE





ACIM 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 products sold/year



+4,000 customers worldwide









ABOUT GA

NIDEC GLOBAL APPLIANCE

GLOBAL APPLIANCE PLATFORM



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.



OUR BRANDS



embraco *Nidec* embraco *Nider*

GA PLATFORM DETAILS





HQs: Joinville (Brazil) and Pordenone (Italy)



10,000 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

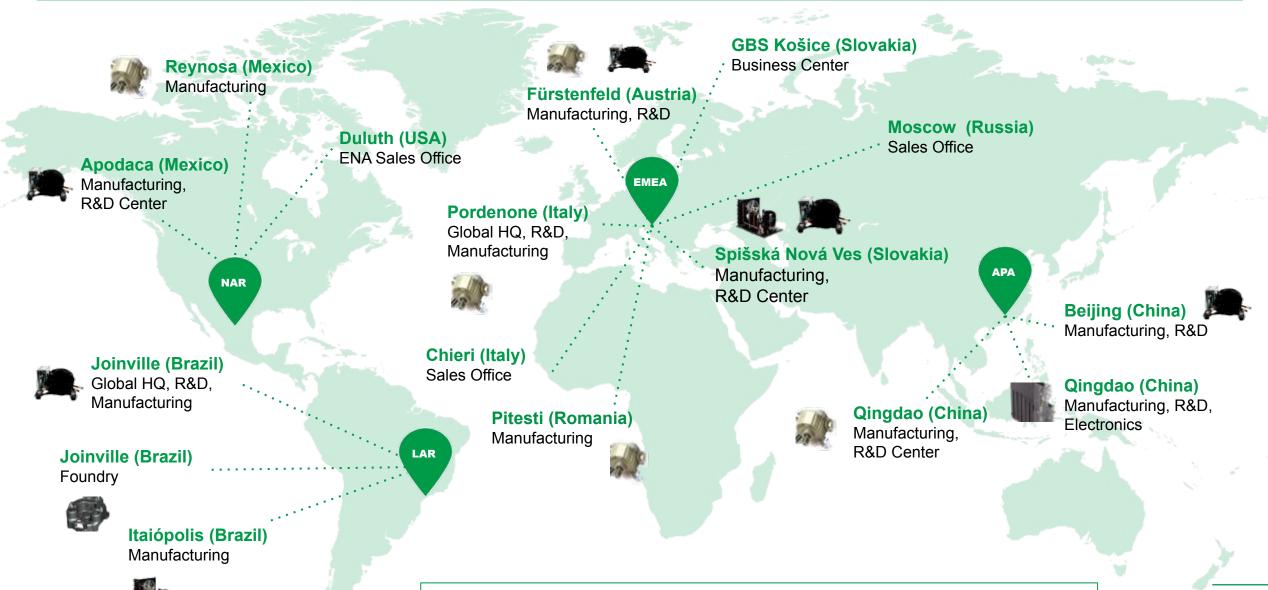






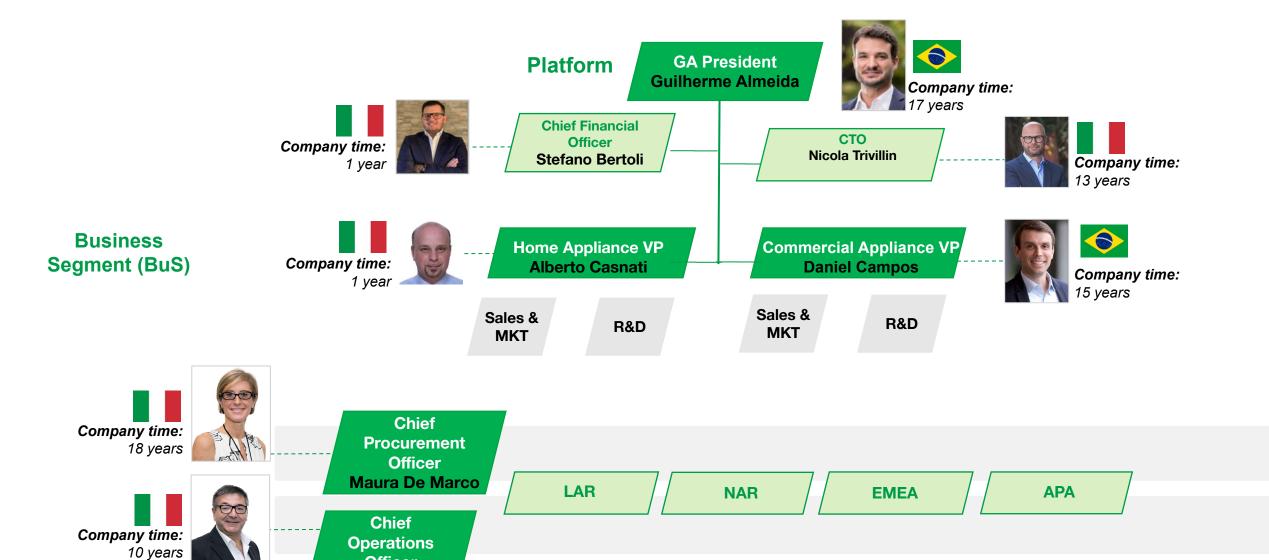
GA GLOBAL PRESENCE





GA STRUCTURE





Officer

Alberto Gentile

GA INNOVATION DRIVERS





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.

GA RESEARCH & DEVELOPMENT



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

GA Business Segments and Brands





Home Appliance

Solutions for Refrigerators, Washing Machines, Dishwashers and Dryers



embraco *Nidec*



Commercial Appliance

Compressors and Condensing Units for Refrigerators and Cooling Systems.

embraco *Nidec*





GA BUSINESS SEGMENT

HOME APPLIANCE

SOLUTIONS FOR HOME APPLIANCE



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





Motors for washing machines, dryers and dishwashers.





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









THE RIGHT SOLUTION FOR EACH CUSTOMER'S NEED



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.









PRODUCTS FOR WASHING MACHINES



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).









Universal

CIM

CIM - IMAC







BPM

BPM - IMAC

DD







DDM

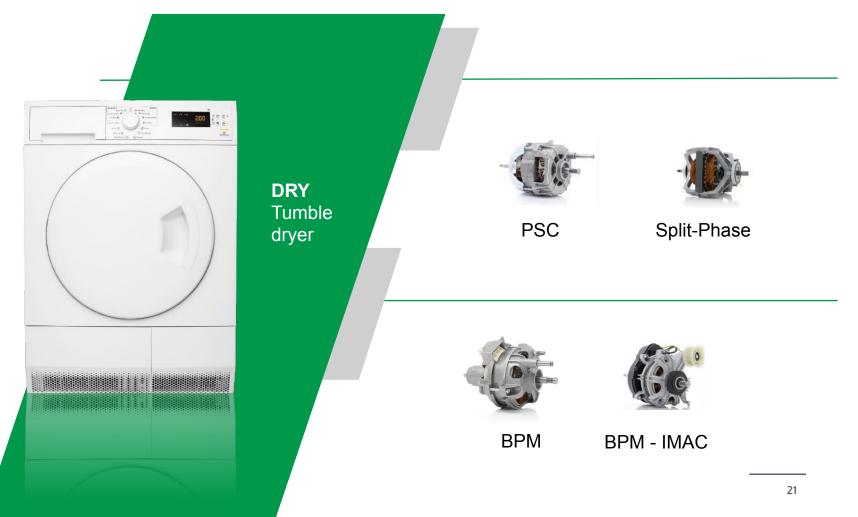
DDM gear drive

PSC



Dryers motors:

from classic solutions to second generation BPM models





Complete portfolio of motors for dishwashers,

also available with electronic board and integrated heater







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







Dishwasher drives





Integrated on pump



Solutions for **Residential Refrigeration**



High-quality and **high-performance**



Efficiency through constant innovation



Low noise



More internal cabinet space





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



embraco Aider

FMX







VES

VEM

VEG

FUTURE:

High performance with simplification

Standardization to cover all applications' range





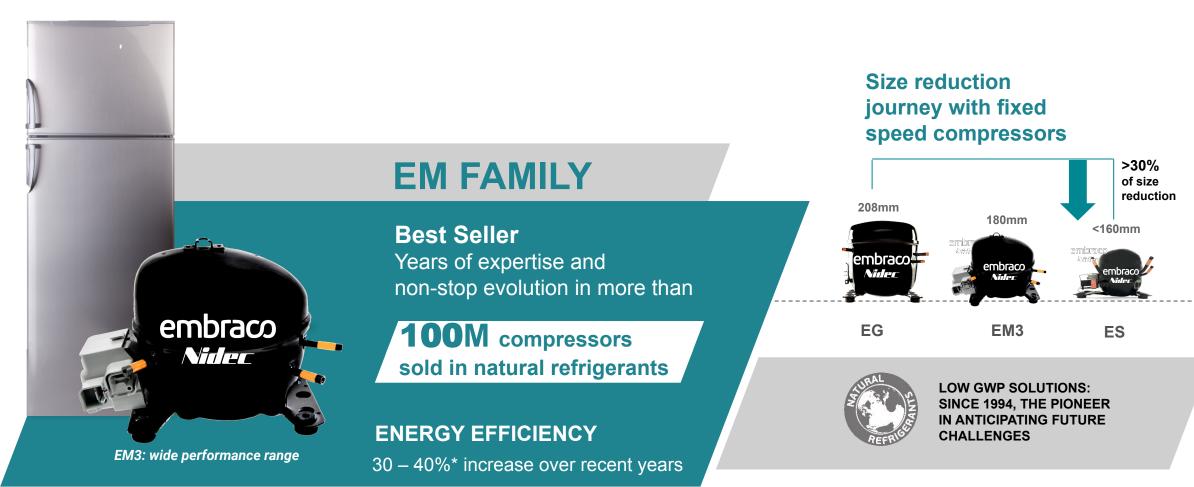


FIXED SPEED TECHNOLOGY



Renowned fixed speed

Portfolio differentiated by low noise, reliability and high efficiency levels





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

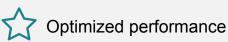


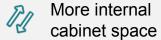


Delivering market trends with breakthrough technology

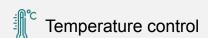
embraco Nidec

Key Drivers



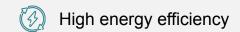


















GA BUSINESS SEGMENT

COMMERCIAL APPLIANCE

SOLUTIONS FOR COMMERCIAL APPLIANCE





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



HBP



Naturally Efficient



Energy Efficiency



FIXED SPEED

Extended cooling capacity

















VARIABLE SPEED

Excellence in energy efficiency













VNE





VNEX

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











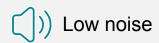
Reduces energy consumption by up to 40 % in comparison to fixed (on-off) compressor



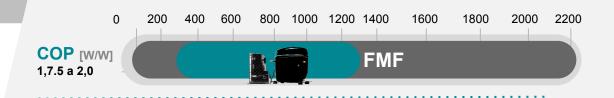
Extended cooling capacity allows reducing the quantity of SKUs



SDI, Dual Voltage and PFC ready



High temperature stability



Available in

R290



Made in Brazil





Reliable portfolio of cooling solutions



Covering multiple applications





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

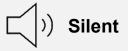
All components rely on Embraco quality.





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

Up to 50% of noise

next best alternative

reduction versus



Designed for cold rooms and outdoor applications

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







