



COMPANY
PROFILE

2021/04

Message from the Chairman



Chairman **Zheng Jiandong**

A stylized, handwritten signature in black ink, consisting of several fluid, overlapping strokes that form a recognizable monogram.

The global automobile industry is undergoing an unprecedented transformation, and development of a new energy vehicle industry is gaining momentum. Highly Marelli is a high-level international joint venture to develop this new energy vehicle industry, and it will focus on R&D, manufacturing and sales of world-class automotive air conditioning systems and comprehensive solutions for new energy vehicle thermal management systems to lead the industry's technological transformation, with the aim of becoming the world's leading automotive heat management system supplier.

The company will integrate the R&D, supply chains and global channel resources of Highly and Marelli, and expand the global market focusing on the development of compressor electrification and heat pump and HVAC systems, and especially on parts for new energy vehicles.

The company will use scientific and technological innovation as its driving force, consider lean manufacturing to be its responsibility, create greater value for customers, create more opportunities for employees, and create value for stakeholders and society, and strive to become an innovative sustainable development enterprise.

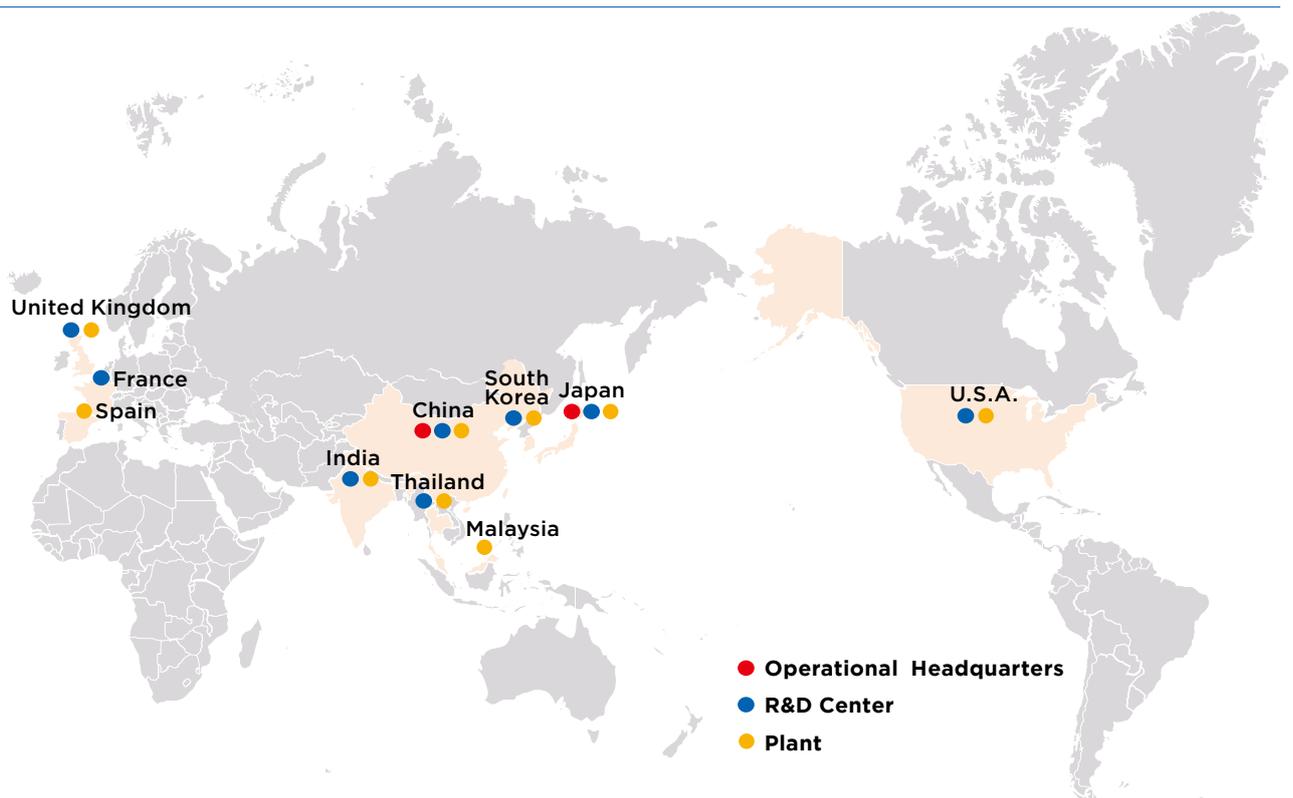
Company Profile

Highly Marelli is a global automotive systems supplier that combines Highly's leading edge in new energy vehicle compressor technology and strong business network with Marelli's automotive innovation and global market expertise. The company creates a leading cabin comfort business, focused on developing world-class solutions for customers and suppliers specifically in electrification of compressors, heat pump system and heating, ventilation & air conditioning ("HVAC") systems.

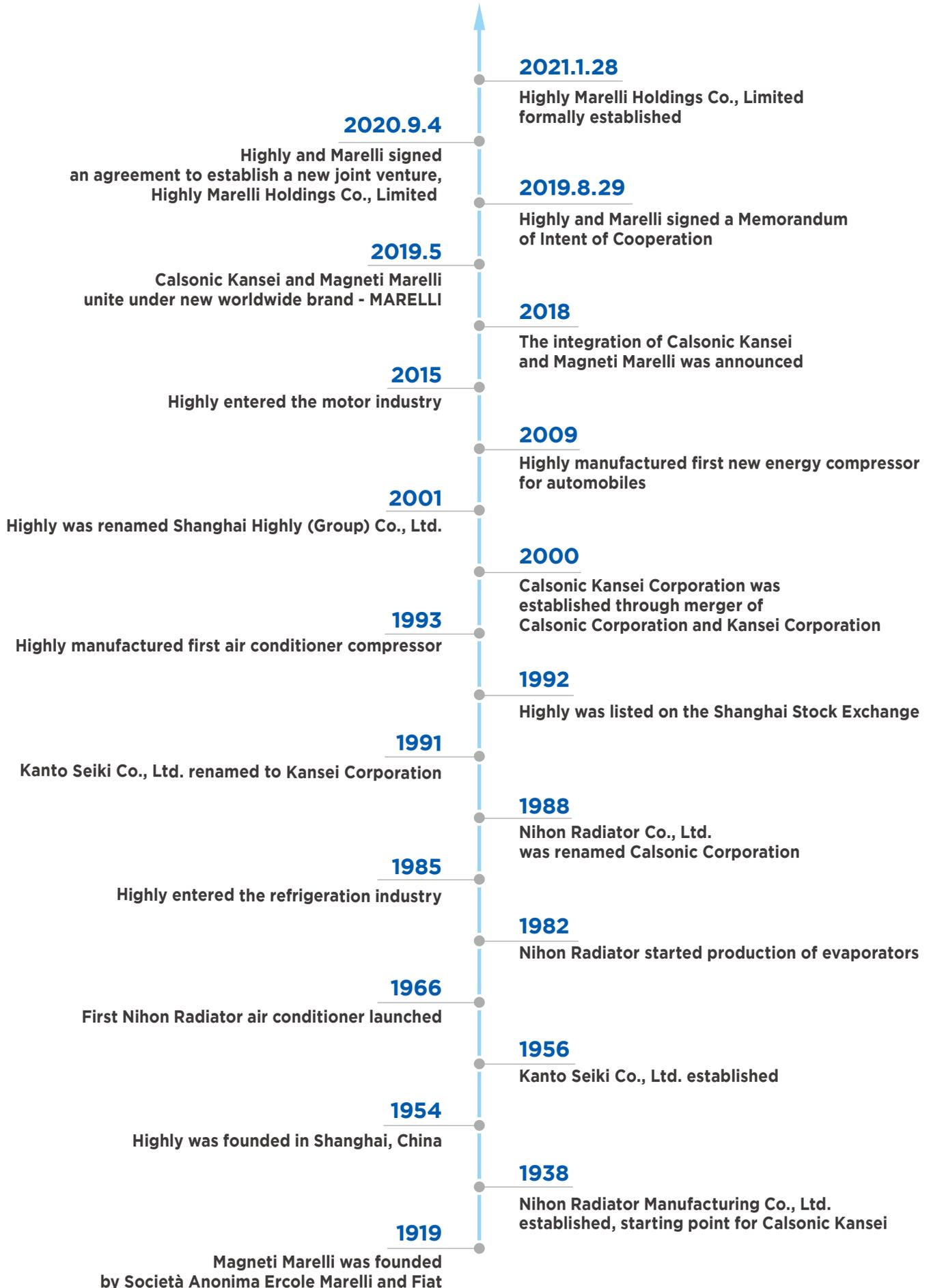
The company is registered in Hong Kong, China, with operational headquarters in Shanghai, China and Tokyo, Japan, It has about 4200 employees, more than 30 plants and R&D institutions in the world. Our business covers Japan, China, Asia, Europe, and North America.



Global Footprint



History



Product Overview

Heat Pump System

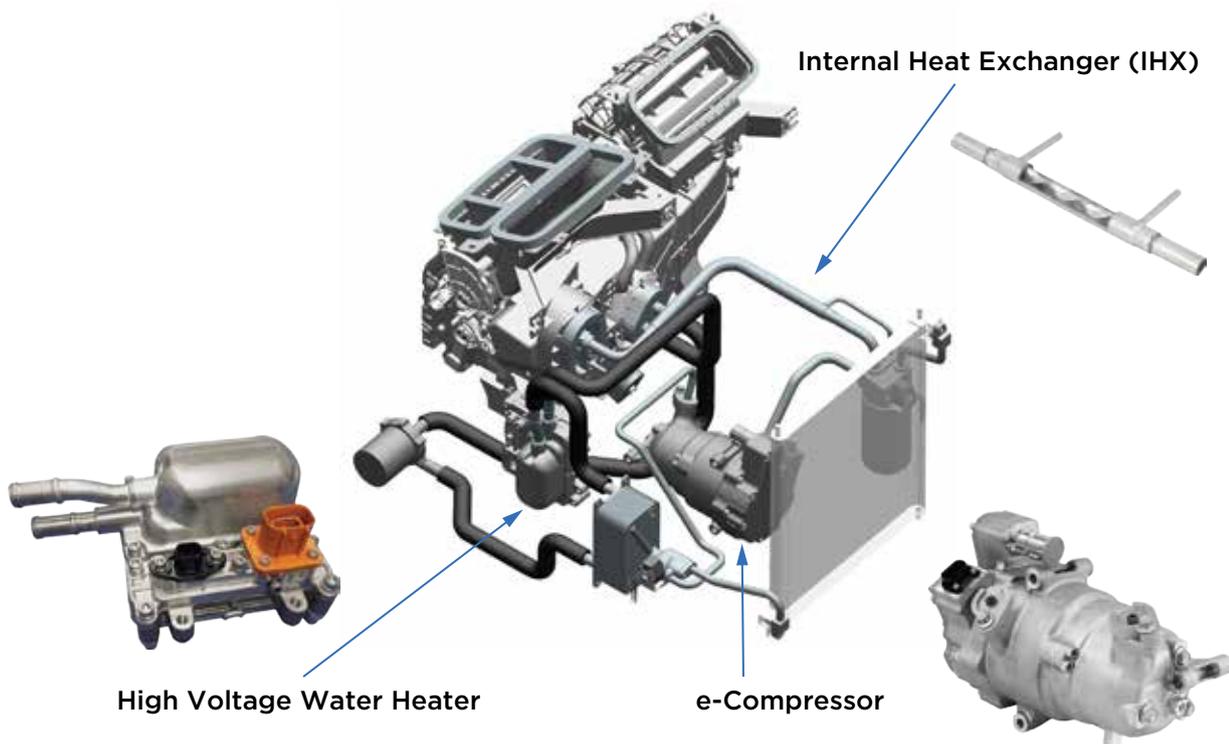
Highly Marelli's heat pump system, with its unique technology such as MFR (Multi-function Receiver) and IHX (Internal Heat Exchanger), enables high system efficiency and dehumidifying heating without the needs of additional parts. Having less number of valves and pipes, it can be installed easily into engine compartments.

Function

Achieves high system efficiency under cooling operation, with the use of expansion valve same as traditional air conditioners. Under heating operation, the heat pump system draws up heat from outside air, and provides heat to the cabin. A unique valve control system controls dehumidifying heating, preventing windows to be fogged up, and maintain heating. Even when the outside temperature is very low, able to keep sufficient heating with the use of high performance water heater.

Feature

- Able to obtain performance about twice of the power consumption under both cooling and heating operations
- Enables dehumidifying heating with a simple structure



Product Overview

Air Conditioning Unit

Highly Marelli's air conditioning unit enables single zone, dual zone and triple zone temperature control, can be applied to vehicles ranging from light vehicles to SUVs, and provides industry leading comfortability. By combining with Highly Marelli's heat pump system, it can easily be applied to EV without significant change to existing air conditioning system.

HVAC Unit for ICE

Function

Provide comfortability into the vehicle by adjusting air temperature, air outlet, air flow volume and humidity to meet environment changes both inside and outside of the vehicle, and passenger preferences.

Feature

High performance and able to independently control front seats left and right temperature, Face and Foot air-outlet for rear seats compatible.

HVAC unit for EV

Function

Suitable for heat pump system, and efficiently keep interior condition for passengers.

Feature

By installing small, energy saving brushless motor and high performance heat exchanger to current HVAC, enables low energy, low noise and independent (front and rear, right and left) temperature control.



Product Overview

Compressor

Compressor

Highly Marelli provides a wide range of compressor product portfolio, covering various vehicle segments, from light vehicles (compressor capacity: 60cc) to SUVs (compressor capacity: 110cc).

Function

Belt drive, and obtains power from the engine, compresses the gaseous refrigerant, and circulates the refrigerant in the air conditioner cycle. Controls Cooling Performance by switching the electromagnetic clutch on and off.



Feature

- Most compact and lightweight compressor for vehicles.
World-class high-efficiency, well-balanced rotary type compressor.
- Obtained U.S. off-cycle credit (January 2020)

e-Compressor

Product portfolio of various displacement and drive voltage enables easy application to various xEV, such as PHV and BEV.

Function

Electric motor drive compresses the gaseous refrigerant, and circulates the refrigerant in the air conditioner cycle.

Feature

Offers industry-leading small size and high-efficiency as a scroll type compressor.





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