

January 25, 2021

Nidec Sells 100,000 E-Axles Globally

Nidec Corporation (TSE: 6594; OTC US: NJDCY) (“Nidec” or the “Company”) today announced that the global sales of E-Axles, the traction motor systems that the Company develops, produces, and sells, have reached 100,000 units and systems.

Nidec’s E-Axles are characterized by being compact and light-weight as a result of their fully integrated designs that combine motors, inverters and gears. In addition to the Ni150Ex 150 kW model that became the first fully integrated traction motor system of its kind in the world designed by a supplier to enter mass-production in April 2019, Nidec has also developed four other models: Ni200Ex (200 kW), Ni100Ex (100 kW), Ni70Ex (70 kW) and Ni50Ex (50 kW). Armed with this world-class comprehensive lineup, Nidec is capable of supplying traction motor systems that can power an estimated 98% of all electric passenger vehicles. Nidec has set a target of achieving 40 - 45% global market share in the EV traction motor market*² by 2030, and the E-Axles will serve as an engine of this effort.

*1. E-Axles can be mounted on the front and rear of each EV. If an Ni200Ex is mounted on the front and rear of an EV, the two systems’ output will be 400kW in total.

*2. The market including traction motor units and systems

Nidec’s E-Axle traction motor system lineup



Ni200Ex
(200 kW/4200 Nm)
Mass-production planned for 2023



Ni150Ex
(150 kW/3900 Nm)
In mass-production since April, 2019



Ni100Ex
(100 kW/2400 Nm)
Mass-production planned for second half of 2020



Ni70Ex
(70 kW/1600 Nm)
Mass-production planned for 2021



Ni50Ex
(50 kW/1600 Nm)
Mass-production planned for 2022

*Specifications may vary as Nidec’s E-Axles are customized and optimized for each car model.

As Europe, China and many other countries in the world announce a ban on selling new gasoline vehicles to take effect in 2025 – 2040, Nidec stays committed to developing products based on its technology to make light, thin, short and compact products and improve products’ efficiency and control performance. With these technologies that it has been fostering as the world’s leading comprehensive motor manufacturer, Nidec is poised to provide, at a massive pace, revolutionary solutions that contribute to the evolution of automobiles and CO₂ reduction.

Cars driven by Nidec’s E-Axles (as of January 1, 2021) (in order of launch date)

1. GAC Aion New Energy Automobile, Aion S
2. GAC Toyota Motor, iA5
3. GAC Aion New Energy Automobile, Aion LX
4. GAC NIO New Energy Automobile Technology, HYCAN 007
5. Geely Automobile, Geometry C
6. GAC Aion New Energy Automobile, Aion V

Nidec was founded in Kyoto, Japan in 1973 by four engineers and has since grown into a world-leading comprehensive motor manufacturer encompassing more than 300 subsidiaries employing over 120 000 people throughout the world.

After becoming the first company in the world to successfully commercialize a direct drive spindle motor for HDDs using brushless DC motor technology, the company branched off into the automotive motor market which now constitutes its fastest growing business segment. Nidec’s electric power steering motors, in particular, have captured the largest global market share and helped cement the company’s position in the industry.