

Motor

Inverter Si/SiC

Nidec Advance Technology

R1100 Reference Inverter **Inverter x Motor Emulator**



30,000 rpm

Realize all kinds of highspeed motor drives for inverter algorithm development

200xN kW

Scalable output from 200kW by replacing power modules, drivers, and PCUs

250 kHz

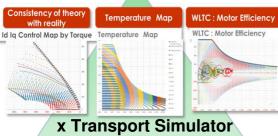
Perfectly reproduced motor. FPGA enables high-speed, highprecision processing

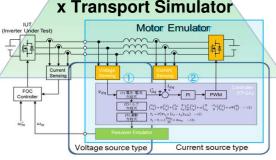
Inv.& Motor Applications

FOC x Motor Equations

Inverter x Motor Emulator







Digital Twin





- The motor control specialized CPU/FPGA allows realtime at speed processing.
- Making it convenient for developing the algorithms such as FOC2.0, SVPWM, DPWM, etc.
- It's possible to completely emulate motor utilizes the Al generated motor equation/Ldg data, it is ideal for motor less test bench.

Item	Setting	Notes
DC voltage	800V	Scalable by power
DC current	292A	module replacement
AC current	300Arms	
AC Power	200kVA	50kW~ 70kW~ 100kW~ 150kW~ 200kW~ 240kW~ 1,500Nm 1,600Nm 2,400Nm 3,900Nm 4,200Nm 4,600Nm 40.0kg 48.0kg 57.0kg 87.0kg 95.0kg 96.0kg
Switching	40kHz	Actual 250kHz

Head office

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Our **Business**

- Semiconductor Package Inspection Systems
- 2. Printed Circuit Board Inspection Systems
- Inspection Fixtures
- Optical Vision Inspection Systems
- 5. Flat Panel Display Inspection Systems
- 6. Automatic Measurement Equipment, Specific Application Machines Development/ design, manufacturing, and sales of software/ hardware relating to the products above

NIDEC ADVANCE TECHNOLOGY CORPORATION