

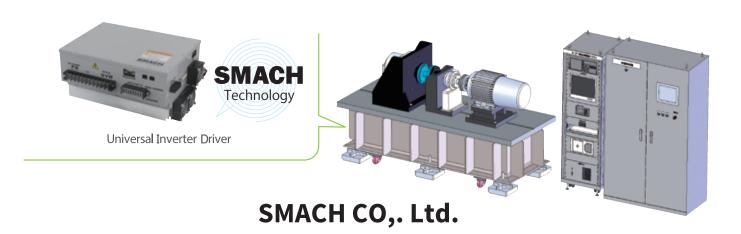
with Universal Inverter Driver

# THIS and THAT can be measured!

Highly accurate measurement various motors' characteristics!

SMARTITE CHNOLOGY

## **Motor Testing System**



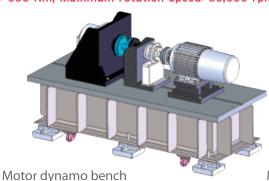


#### with Universal Inverter Driver,

# Chracteristics testing "can" be easy 6

Wide variety of motor characteristics "can" be tested with Universal Inverter Driver (brushless DC motor, reluctance motor, induction motor, etc.)

- Arbitararily control the test motor and load motor to support various measurements.
- Graphic display of various characteristics of torque, rotation speed, power, etc. measured with high accuracy.
- Support drive control of sensorless motors.
- Compatible with energy saving measurement systems with the energy circulation system
- Compatible with test equipment systems with constant temperature baths and magnetic bearings.
- Capable of handling high-speed and high-power bench tests.
   (Maximum torque: 500 Nm, Maximum rotation speed: 30,000 rpm)

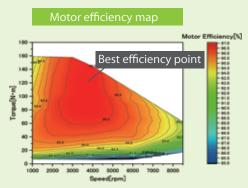




Motor dynamo benen

# Motor characteristics "can" be displayed graphically 6

With the multifunctional graphing tool, motor characteristics can be easily displayed graphically.



### **Evaluation Center**

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#### Development Equipment

- Power regeneration type DC power supply
- (DC650V 250kVA class)
- Cooling TowerCooling chiller
- (Water,Oil)
- Oil temperature control system



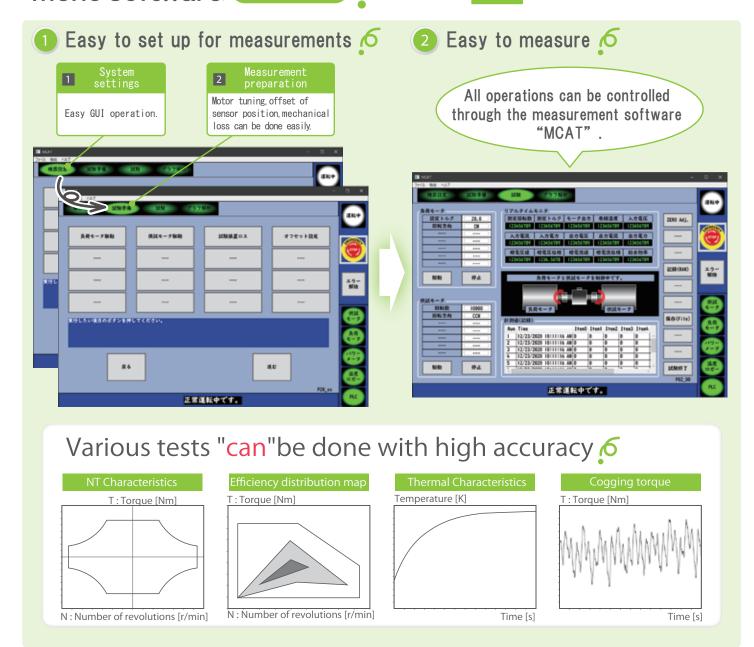


Motor Testing System (500Nm class)

# Easy operation with measurement software MCAT





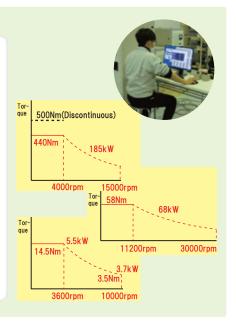


## SMACH "can" Moter Testing Servies.

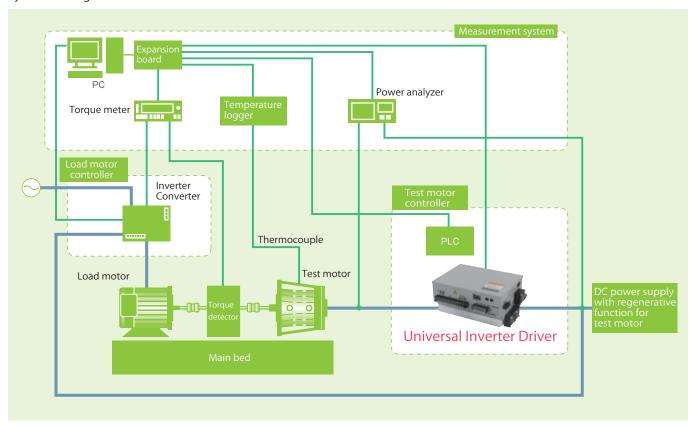


Maximum torque
500Nm
Maximum rotation speed
30,000rpm

Our Motor Testing System can measure up to the above ranges. Please feel free to contact us.



#### System Configuration



#### **Basic Specification**

Load	Motor	Maximum rotation speed: 30,000 rpm; Maximum torque: 500 Nm		
	Inverter	Universal Inverter Driver made by SMACH , etc		
Setting Functions		- Electric constants auto-tuning - Automatic offset correction of sensor's zero position - Preliminary measurement of mechanical loss		
Test Items		NT characteristics, Efficiency map, Thermal characteristcs, Cogging torque, etc		
Test Motor Driver	Universal Inverter Driver made by SMACH	Various types are available based on capacity Input voltage: DC 12 ~ 650V, AC 200V, AC 400V Motor current: ~ 400 A		
Primary Power Supply		3Ф 200/400V 50/60Hz		
Others		You can also install a constant temperature bath.		

 $\ensuremath{\ensuremath{\%}}$  Specifications, etc. are subject to change without notice.

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