



CYT-OH
CARDINGTON YUTAKA TECHNOLOGIES INC.
OHIO PLANT [Ohio, USA]



CYT-AL
CARDINGTON YUTAKA TECHNOLOGIES INC.
ALABAMA PLANT [Alabama, USA]



YDM
YUTAKA TECHNOLOGIES DE MEXICO
S.A.DE C.V. [Guanajuato, MEXICO]

CLEAN FOR THE FUTURE

ENVIRONMENTALLY FRIENDLY,
HIGH-PERFORMANCE PRODUCTS



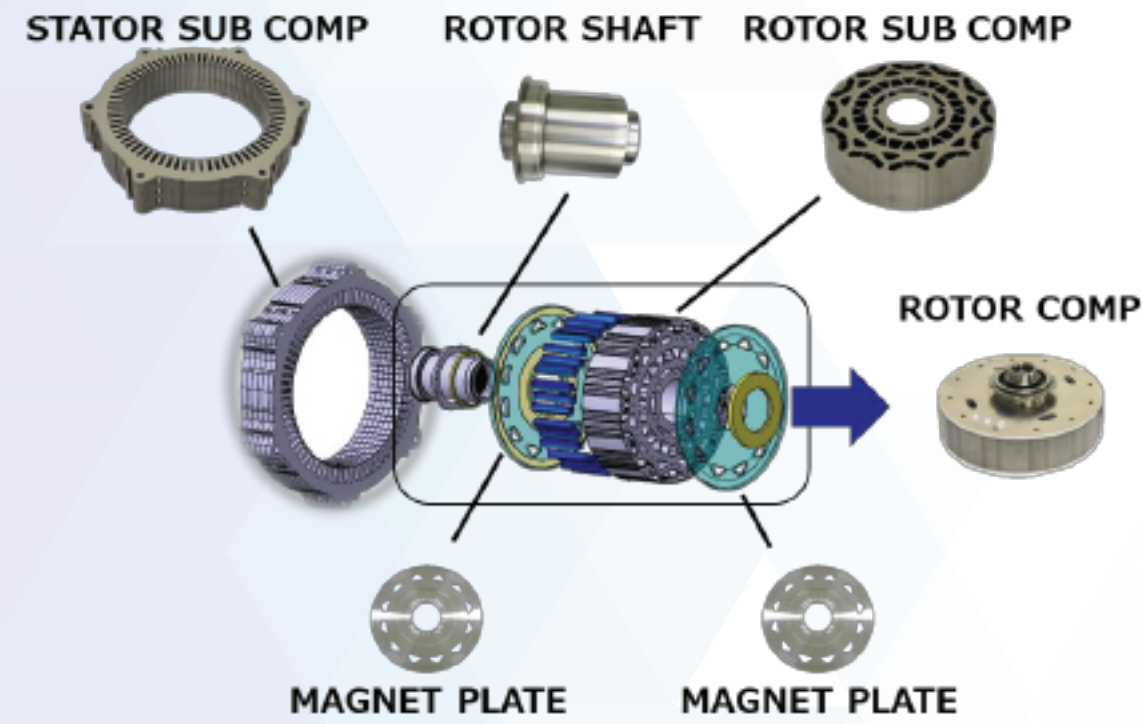
CARDINGTON YUTAKA TECHNOLOGIES
North America Regional Operations
Cardington, OH 43315
419.864.8777 (office)
419.864-7771 (fax)



YUTAKA GIKEN LTD
Head Office
Shizuoka., 431-3194 Japan
053.433.4111 (office)
053.433.8365 (fax)

MOTOR COMPONENTS

DESIGN AND MANUFACTURING CAPABILITIES



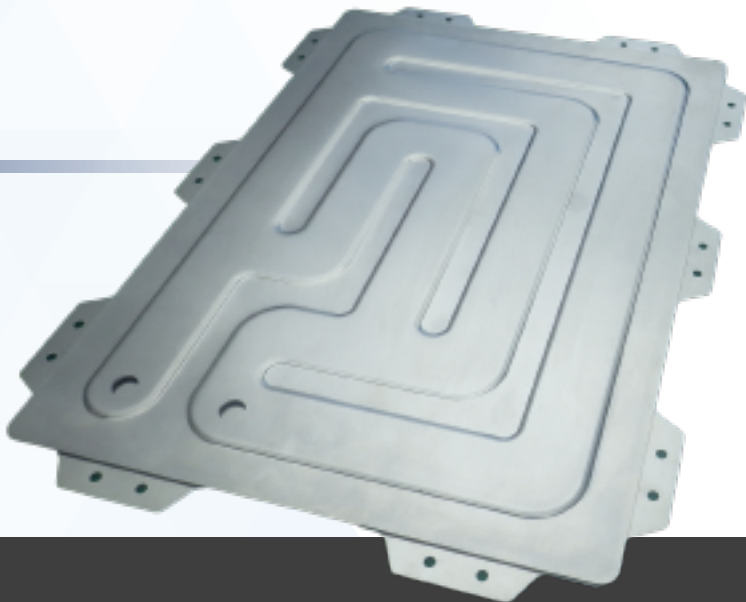
Yutaka manufactures a wide range of EV motor components from Laminate Stamping cores to complex motor sub assemblies. Yutaka’s future EV development activities include copper winding, powder coat and varnish application.

Yutaka’s current EV products

- Rotor and Stator laminates
- Rotor Sub Comps (Magnet Resin Encapsulation)
- Magnet Plates
- Rotor Shafts
- Rotor Comps
- Stator Sub Comps

BATTERY COOLING MODULE

Yutaka’s extensive manufacturing background in developing high efficiency thermal solutions, leveraging on our thermal management and heat recovery solutions, we are well equipped to manufacture Battery Cooling Modules for EVs.



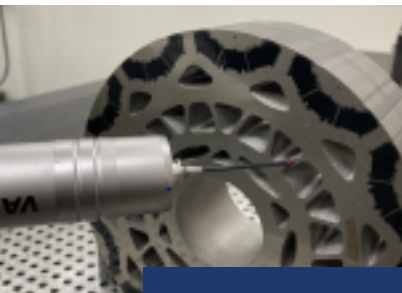
STAMPING



WELDING



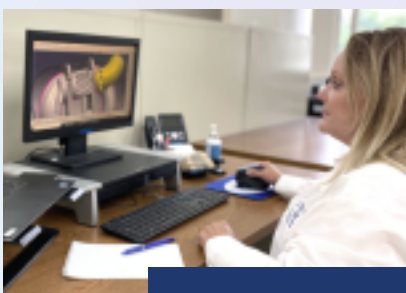
MACHINING



QUALITY



AUTOMATION



DESIGN

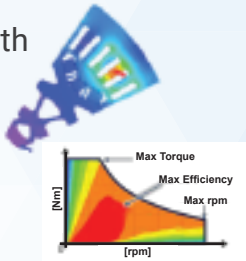
Yutaka is committed to providing electric vehicle (EV) motors and motor components to meet our customers specific requirements. Our aim is to offer value-added services that align with the customer’s needs through continuous integration of improvements and innovations.

TESTING AND SIMULATION CAPABILITIES



STRENGTH EVALUATION

- Tensile strength/peel strength (electrodeposited area)
- Welding strength
- Shaft Torsion Testing
- Thermal Expansion Testing
- Spin test (rotor burst)



CAE

- Motor basic performance prediction (efficiency/N-T characteristics)
- Thermo-fluid analysis
- Electromagnetic field analysis



MATERIAL CHARACTERIZATION

- Magnetic property test (magnetic electric steel)
- Material tensile test/hardness measurement/accuracy



ELECTRICAL EVALUATION

- Winding resistance measurement
- Insulation resistance test
- Pressure test between stator exterior
- Impulse rare short test