

eAxle *3-in-1 Electric Drive System*



CX125-G1

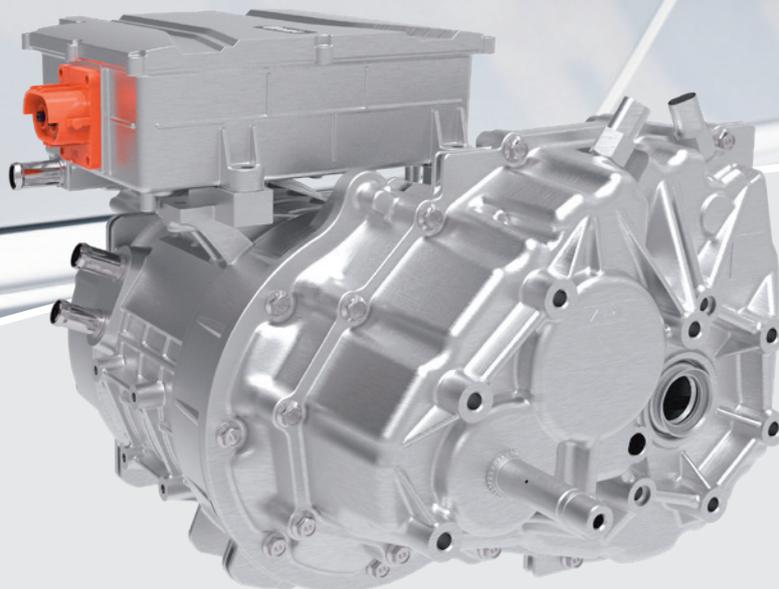
3-in-1
Compact

125
kW
Power

1
Speed
Transmission

2445
Nm
Torque

75
kg
Weight



CX125-G2

3-in-1
Compact

125
kW
Power

2
Speeds
Transmission

3500
Nm
Torque

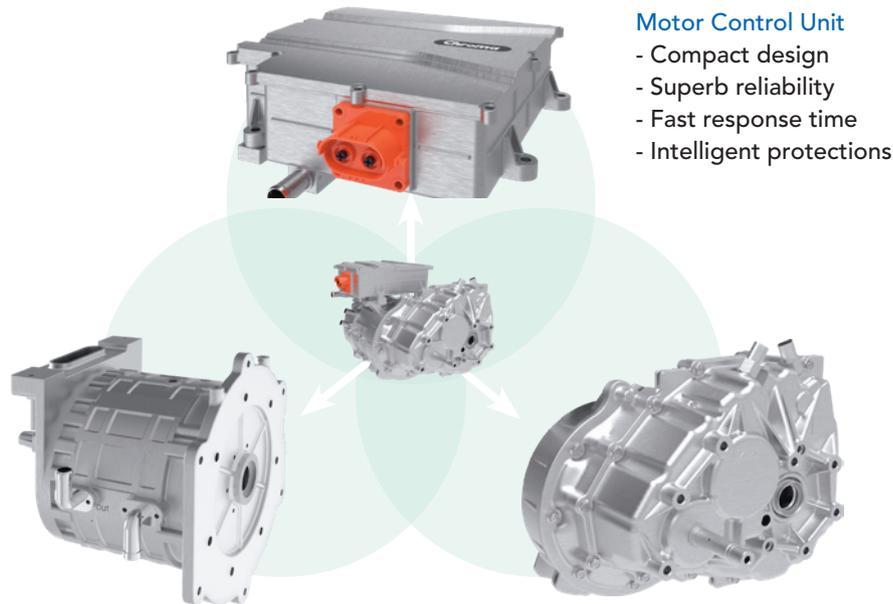
90
kg
Weight

The eAxle is just a simpler solution for electric drive integration for electric vehicles, with the electric motor, power electronics, transmission and thermal management combined together in one compact, efficient, and cost effective package. Directly powering the vehicle's axle, it is easy to be integrated either at the front or the rear axle of passenger cars, SUVs and light commercial vehicles depending on the architecture and the application.

Operating at 250 to 450 volts of direct current (Vdc), the eAxle has exceptional torque and power densities, with continuous power of 60kW and maximum power of 125kW, delivering peak torques of 2,445Nm and 3,500 for single speed and two-speed transmission respectively. The advanced transmission technology offers smooth and durable operation. The electric motor delivers exceptional performance with superior noise, vibration and harshness characteristics. The robust power electronics is designed for its long lifecycle endurance, which comes in a small size and with high efficiency. Continuous effort in optimization of the eAxle among the electric motor, power electronics, and transmission results in reduction of interfaces, HV cables, connectors and cooling components, and increase of system efficiency which extends the vehicle electric range.



Chroma eAxle aids in making electric drives less complex but simpler. Three key components of proven technologies used in the eAxle each have their own features that maximize the overall performance of the system to meet the upfront evolution of electric drivetrain for pure electric vehicle and hybrid electric vehicle.



Motor Control Unit

- Compact design
- Superb reliability
- Fast response time
- Intelligent protections

Motor

- Lightweight structure
- High reliability
- Excellent torque output
- High efficiency & reliability

Transmission

- Single speed/two-speed
- High efficiency
- Option of parking pawl

Specification		
Model	CX125-G1	CX125-G2
System	Inverter, Motor, Gearbox (3-in-1)	Inverter, Motor, Gearbox (3-in-1)
Size (WxDxH)	457 x 534 x 495 mm	510 x 540 x 490 mm
Weight	~75kg	~90kg
Gear Ratio	Single Speed: 9.78x	2-Speed: 13.98x / 9.52x
Max. Motor Torque	250Nm	280Nm
Max. Motor Power	125kW	125kW
Max. Axle Torque	2,445Nm	3,500Nm
Op. Voltage	250~450Vdc	250~450Vdc
Op. Temperature	-40~85°C	-40~85°C

* For detail specifications, please submit your inquiry at www.chromaate.com

CHROMA ATE INC.
 88 Wenmao Rd., Guishan Dist., Taoyuan City
 333001, Taiwan, Taiwan
 T +886-3-327-9999 F +886-3-327-3866
www.chromaate.com info@chromaate.com

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