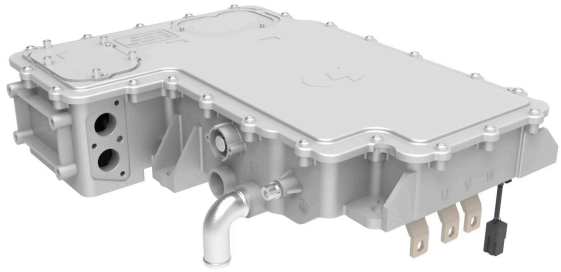
桥驱控制器 MTCU

E-Axle Drive Controller (MTCU)



展品特点

MTCU 是面向电驱桥场景的桥驱控制器，将电机控制器（MCU）与变速箱控制器（TCU）集成于一体；电机与电控通过铜排直联，取消三相线，减少连接环节与整车布置空间占用，提升系统可靠性并降低装配成本。

支持 600/800 V 电压平台，最大工作电压 930 V，峰值电流 560 A，额定容量 343 kVA、峰值容量 549 kVA；防护等级 IP68，尺寸 482×377×137 mm，重量仅 13 kg，便于在电驱桥有限空间内布置。MCU 与 TCU 一体化协同控制，换挡与扭矩分配响应更快，整车动力性与经济性兼得。产品已配套汉德电驱桥批量应用。

Key Parameters & Features (EN)

额定电压 Rated voltage	600 / 800 VDC
最大工作电压 Max working voltage	930 VDC
峰值电流 Peak current	560 A
额定 / 峰值容量 Rated / peak capacity	343 / 549 kVA
防护等级 Protection	IP68
尺寸 Dimensions	482×377×137±2 mm
重量 Weight	13±0.5 kg
市场应用 Application	汉德电驱桥 HanDe e-axle

MTCU integrates the motor control unit (MCU) and transmission control unit (TCU) in one housing for e-axle applications. The motor connects via busbars, eliminating three-phase cables — fewer connections, less packaging space, higher reliability, lower assembly cost. 600/800 V platforms (930 V max), 560 A peak current, 343 kVA rated / 549 kVA peak capacity; IP68, 482×377×137 mm, only 13 kg, ideal for constrained e-axle space. Unified MCU+TCU control gives faster shifting and torque coordination. Already in volume use with HanDe e-axles.