INDEPENDENT SUSPENSION FRONT **AXLE--2.7T**



1. High reliability, gear fatigue life

2.High transmission efficiency

Optimized transmission system with high-precision gears, high-precision bearings, and low-resistance oil seals to improve transmission efficiency, achieving up to 96.5%, surpassing domestic industry standards.

3.Structure Spatial efficiency: Deep integration of the drive motor and transmission components, seamlessly combining the motor, differential, and reducer into one unit. This forms an integrated and modular powertrain design concept, achieving coaxial input and output. Unlike the externally connected motor-type drive axles that dominate the market, this self-contained powertrain system simplifies chassis design and saves space.

Vehicle energy consumption: Compared to externally connected motor-type drives, the coaxial direct-connection pure electric drive axle addresses issues such as axle mass imbalance, poor smoothness, heavy weight, and large volume, reducing energy loss during transmission and thereby lowering the vehicle's overall energy consumption.



SUSPENSION PARAMETERS	
Rated Load (KG)	2700
Rim Specification/Tire Specification	215/75R16LT
Wheel Bolt/Pitch Circle Diameter (mm)	6-M12*1.5/ ⊄ 139.7
Kingpin Inclination Angle/Wheel Camber Angle (°)	9.5°±0.5°/1°±0.5°
Kingpin Caster Angle (°)	3.4°±0.7°
Wheel Inner Steering Angle/Outer Steering Angle (°)	44°/33°
Brake Specification/Brake Type	2-54/Hydraulic disc brake
ABS Configuration	Ring Gear, 100 Teeth
Vertical Travel (mm)	-1
Toe-in	0-3mm
Positioning Flange (mm)	⊄ 106
Speed Ratio	12.9
MOTOR PARAMETERS	
MOTOR PAR	AMETERS
MOTOR PAR Motor Maximum Power (KW)	100
MOTOR PAR Motor Maximum Power (KW) Motor Rated Power (KW)	100 50
MOTOR PAR Motor Maximum Power (KW) Motor Rated Power (KW) Motor Peak Torque (N.m)	AMETERS 100 50 280
MOTOR PAR Motor Maximum Power (KW) Motor Rated Power (KW) Motor Peak Torque (N.m) Motor Rated Torque (N.m)	AMETERS 100 50 280 126
MOTOR PAR Motor Maximum Power (KW) Motor Rated Power (KW) Motor Peak Torque (N.m) Motor Rated Torque (N.m) Motor Rated Speed (Rpm)	AMETERS 100 50 280 126 12000
MOTOR PAR Motor Maximum Power (KW) Motor Rated Power (KW) Motor Peak Torque (N.m) Motor Rated Torque (N.m) Motor Rated Speed (Rpm) Motor Maximum Speed (Rpm)	AMETERS 100 50 280 126 12000 3800
MOTOR PAR Motor Maximum Power (KW) Motor Rated Power (KW) Motor Peak Torque (N.m) Motor Rated Torque (N.m) Motor Rated Speed (Rpm) Motor Maximum Speed (Rpm) Motor Rated Voltage (VDC)	AMETERS 100 50 280 126 12000 3800 360
MOTOR PAR Motor Maximum Power (KW) Motor Rated Power (KW) Motor Peak Torque (N.m) Motor Rated Torque (N.m) Motor Rated Speed (Rpm) Motor Maximum Speed (Rpm) Motor Rated Voltage (VDC) Insulation Class	AMETERS 100 50 280 126 12000 3800 360 H
MOTOR PAR Motor Maximum Power (KW) Motor Rated Power (KW) Motor Peak Torque (N.m) Motor Rated Torque (N.m) Motor Rated Speed (Rpm) Motor Maximum Speed (Rpm) Motor Rated Voltage (VDC) Insulation Class Protection Class	AMETERS 100 50 280 126 12000 3800 360 H IP67
MOTOR PAR Motor Maximum Power (KW) Motor Rated Power (KW) Motor Rated Torque (N.m) Motor Rated Torque (N.m) Motor Rated Speed (Rpm) Motor Maximum Speed (Rpm) Motor Rated Voltage (VDC) Insulation Class Protection Class Cooling/Flow Rate (L/Min)	AMETERS 100 50 280 126 12000 3800 360 H IP67 Water Cool/20

