



OVERVIEW

AxleTech manufactures a range of Independent Suspension Axle Systems from light-duty to heavy-duty high-mobility vehicles. Our ISAS® line features a double-wishbone design that provides unrivaled ride control and handling with superior cross-country mobility and safety in all operating environments. Our products have proven field performance around the world through vigorous testing and exceptional engineering. The new eISAS™ 5000 Series electric independent suspension is a concept that AxleTech is engineering for full battery electric vehicles (BEV), fuel cell range extender electric vehicles (FCEV), and internal combustion engine (ICE) or turbine generator range extenders (REV).

FEATURES AND BENEFITS

Maximum regenerative braking	Improved fuel efficiency, energy from braking recharges batteries
Integrated motors and cooling systems	The integrated motors and cooling systems enhance continuous power
Helical gears	Helical gears allow for quiet operation and higher efficiency than bevel gearing
Proprietary control algorithms	Control algorithms allow for higher precision motor utilization

TECHNICAL SPECIFICATIONS

Configuration	Double-wishbone
Rating lb (kg)	22,075 to 29,000 (10,000 to 13,200)
Axle weight lb (kg)	2,800 (1,300) <i>Approximate</i>
Axle type	Full-floating, front driving, steering
Voltage	650V (550 to 675) performance numbers are at 650V. Higher power is available up to 750V.
Power range	200kW to 500 kW
Peak power	Up to 500 kW
Wheel mounts in (mm)	Hub piloted 10 Stud - 13.19 BC (335), 10 Stud - 11.25 BC (285)
Brakes	Air disc brake
Springs	Variety of progressive rate coil springs, air/coil or hydraulic struts
Shocks	High capacity hydraulic or air struts
Total wheel travel in (mm)	13.0 (330)
Ground clearance at center in (mm)	19.5 (496)
Minimum rim size in (mm)	20, 22.5 (508, 572)
Hub flange to flange in (mm)	90.3 (2,290)
Track in (mm)	82.3 (2,090)
Steering joint type	Double cardan
Max. steering angles	35°
Camber	0°
King pin inclination	8°
ABS hub compatibility	Standard
Tire inflation	CTIS compatible
Vehicle applications	Full battery electric vehicles (BEV), fuel cell range extender electric vehicles (FCEV), internal combustion engine (ICE) or turbine generator range extenders (REV)

*NOTE: All applications must be approved by AxleTech Engineering for capacity and dimensions.

HEADQUARTERS

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