

*For immediate release*

## **Allied Motion Introduces Fully-Integrated Powered Wheel Drives with Steering for Electric Vehicles**

**Amherst, NY** – Allied Motion Technologies introduces the [WheelMax™ Steering Series](#) wheel drive assemblies. WheelMax Steering Drives are fully-integrated, electrically-powered traction wheels with on-board steering systems for electric vehicles.

Each WheelMax Steering Drive combines a traction wheel with tire, epicyclic gearbox, robust steering gear and bearing system, and two rugged PMDC brush motors, one for traction and one for steering power. The complete assembly is compact, easy to mount, and requires little to no maintenance. Applications include AGVs, autonomous robotic material handlers, pushers and tuggers, powered utility carts, and hospital patient handlers, among many others.

WheelMax Steering Drives handle loads up to 227 kg (500 lb) and provide 14 Nm (120 lb-in) continuous torque at speeds of up to 5 km/hr (3 mph). The traction motor is equipped standard with a holding brake and an incremental encoder. Standard tire material is polyurethane 95 Shore A for excellent traction, long life, and low noise. The design makes the exchange of wheel and tire easy to accomplish with minimal effort. Alternate tire materials, mounting arrangements, and feedback encoders are available.

WheelMax Steering Drive highlights include:

- Load carrying capacity class of 227 kg (500 lb) at up to 5 km/hr (3 mph)
- Up to 14 Nm continuous wheel torque and 250 Watts
- Optimized helical gear geometry minimizes noise and vibration
- Tapered roller bearing supports the wheel's load, and an axial bearing supports radial loads
- IP40 protection level

Additional WheelMax options include: models compatible with 48 VDC power source instead of 24 VDC, brushless motor (with/without integrated drive electronics) for traction and/or steering power, flexible wiring for high cycle rotation, and manual-release holding brake.

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**About Allied Motion Technologies Inc.**

Allied Motion Technologies, Inc. (Nasdaq: AMOT) designs, manufactures and sells motion products to a broad spectrum of customers throughout the world. The Company offers high quality, cost-effective products that serve a wide range of engineered applications in the off road, truck, bus and recreational vehicle markets, fuel cell, telecommunications, semiconductor, industrial, medical, military and aerospace industries, as well as in the manufacturing of analytical instruments and computer peripherals. End products using Allied Motion technology include HVAC systems and actuators for the vehicle markets, tuneable lasers, wavelength meters and spectrum analyzers for the fiber optic industry, robotic systems for the semiconductor industry, anti-lock brake and fuel cell applications for the specialty automotive market, satellite tracking systems, smart bomb and munitions control applications for the military and defense markets, as well as various applications in the medical and high definition printing markets.

**For more information, visit [www.alliedmotion.com](http://www.alliedmotion.com), email: [inquiry@alliedmotion.com](mailto:inquiry@alliedmotion.com), or call 716.242.7535.**