Small powerhouse: the WD42 compact wheel drive

*Feldkirchen (Germany), December 6, 2023* – With the new WD42 compact wheel drive, Nanotec has introduced a very short drive unit for Automated Guided Vehicles (AGVs) and service robots. Each unit consists of a powerful BLDC motor, a high-torque planetary gearbox, a magnetic encoder and an exchangeable wheel. All components are integrated directly at the wheel, which makes the drive only 103 mm long and reduces the number of moving parts and connections. Offering a nominal speed of up to 2.2 m/s and a rated power of 183 W, the WD42 wheel drive allows self-propelled vehicles to move with agility and precision. Wheel diameters from 75 to 140 mm and four reduction ratios are available to meet individual requirements. Thanks to its space-saving design, the new wheel drive even fits under Euro pallets and is ideally suited for small robots or applications with limited installation space.

In addition to these integrated wheel drives, Nanotec also offers modular wheel drives that consist of a wheel, gearbox and bearing. Combined with Nanotec’s motors and controllers, they facilitate the development and production of service robots and AGVs. Both wheel drive types fit seamlessly into different platforms and help perform a wide range of tasks in warehouses, hospitals, nursing homes, or hotels.

For more information, please visit [www.nanotec.com](http://www.nanotec.com).

*Nanotec was founded in 1991 and is now among the leading manufacturers of motors and controllers/drives for industrial automation and medical engineering applications. The company   
has been based in Feldkirchen near Munich/Germany since 2011. With some 270 employees in Germany, Bulgaria, the US and China, Nanotec serves customers around the world.*

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