

The next generation of intelligent motors

Dunkermotoren, MAE and nexofox to showcase at sps Italia 2024

SPS Italia in Parma stands as a pinnacle for Italy's smart, digital, and sustainable industry. From **May 28 to 30, 2024**, Dunkermotoren and MAE, both AMETEK brands, will grace **Hall 5, Stand L005**, as steadfast partners of the Italian industry, impressing with their renowned quality and adaptability. Among their offerings, Dunkermotoren will unveil the [PLG 75 ServoLine](#) gearbox, boasting a service life exceeding 20,000 hours, ideal for long-lasting DC motors. This comprehensive motor-gearbox solution thrives in applications with high cycle rates, distinguished by reliability, robust torque, and remarkable efficiency. [Nexofox](#), the Dunkermotoren IIoT brand, will also take center stage, showcasing its latest breakthrough. Explore the foundation for your smart factory with NexoLink, a novel module facilitating seamless integration of all smart Dunkermotoren motors. NexoLink's modular extensions, such as Smart Diagnostics and Predictive Maintenance, enable sensor-free monitoring of gearbox wear, serving as a vital indicator of overall service life. Nexofox is rapidly advancing in the hardware sector. In addition to the existing BGE 5510 **dPro** external controller, the BGE 8060 **dPro** now joins the controller family as a formidable addition."

At SPS Italia, Dunkermotoren emphasizes its [smart BLDC motor series dPro](#), ranging from 20 to 5000 W, featuring bus and Ethernet interfaces such as CANopen, PROFINET, EtherCAT, and Ethernet/IP. A notable highlight is the PROFINET Showcase, demonstrating the synchronous operation of four axes powered by BG **dPro** PN motors.

Since mid-2023, Dunkermotoren's product lineup includes the [NG 1000 WO](#) hub gearbox, providing further development possibilities for driverless transport systems (AGVs and AMRs). When paired with the BG 95 **dPro**, this solution stands at a mere 95 mm in height and, thanks to axle offset, enables vehicles with a minimum width of only 600 mm and a potential total weight of four tons. Versions with reduced gear backlash allow exceptionally precise vehicle



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positioning. Moreover, the availability of low-noise gearbox versions extends the applicability of mobile and self-propelled equipment, catering the requirements in the medical sector, such as mobile MRI or X-ray machines.

Dunkermotoren's solutions are particularly suitable for omni- or [multidirectional vehicles](#). A compact and intriguing solution from TEKNO M.P., ideal for 360° continuous rotation, is showcased at the booth.

Dunkermotoren's sister company, MAE, focuses on another critical trend: local sourcing. MAE fully embraces this trend, manufacturing its products exclusively in Europe. Thanks to the option to add brakes, encoders, gearboxes, and electronics, MAE's [stepper motor portfolio](#) offers flexible integration into diverse applications. The newly integrated sGo electronics provide a cost-optimized control solution for Nema 17 and Nema 23 sizes.

AMETEK SRL

Via della Liberazione 24
20068 Peschiera Borromeo (MI)
Italy

Phone +39 02 946931 | Fax +39 02 9471179
info.maesales@ametek.com | www.ametekmae.com

Your contact for Public Relations:

Stefanie Tröndle
Stefanie.Troendle@ametek.com



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