Press Release

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Galaxie® GA: New hollow shaft gearbox for drive solutions with solid shaft motors

Premiere at SPS – Smart Production Solutions 2026: WITTENSTEIN galaxie (Hall 4, Booth 4-221) presents the new Galaxie® GA hollow shaft precision gearbox. This gearbox is used for parallel-axis drive solutions with standard solid shaft motors featuring restricted installation space and a wide reduction ratio range, and which can really benefit from both the advantages of a large hollow shaft and the precision performance of Galaxie® gearbox technology. The Galaxie® GA is used for demanding applications in robotics, semiconductor production, antennas for satellite tracking and mechanical engineering.

In the new Galaxie® GA, the functions of the Galaxie® brand family have been expanded and enhanced. Taking a single-stage hollow shaft gearbox from the Galaxie® accuracy line or a miniaturized Galaxie® gearbox as the basis, WITTENSTEIN alpha planetary and right-angle input stages (both single- and multi-stage) can be incorporated on the axis-parallel side. Engineers can select suitable solid shaft motors based on design recommendations or manufacturer specifications and combine them with a Galaxie® GA to create a drive solution that satisfies their performance and design requirements.

Unlimited hollow shaft functionality also for solutions with solid shaft motors

Drive systems with a solid shaft motor and Galaxie® GA gear stage benefit not only from the high torque density, exceptional torsional rigidity and absolute zero backlash of Galaxie® technology, but also from the design advantages of a continuous hollow shaft – regardless of which input stage or connected motor is selected. Cable bundles, media cables, a shaft and other functional elements can be routed centrally through the gearbox instead of on the outside of the machine, so that they are safe, protected and risk-free. This hugely facilitates integration in robot and satellite tracking systems, in particular, and also in compact machines.

The WITTENSTEIN group develops, produces and sells gearboxes, motors and electronics as well as high-precision drive systems and solutions, nanotechnology and specific software solutions.



The new Galaxie® GA hollow-shaft gearbox

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Multiple degrees of freedom for custom solutions

Design flexibility also stems from the Galaxie® GA's suitability for creating integration-ready variants – with the motor, spur gear stage and gearbox in a U- or Z-shaped configuration, for example – and even with variable center distances as well. What's more, with total gear ratios covering 31:1 to over 3100:1, the Galaxie GA® can be used in an exceptionally wide range of applications. These extend from dynamic motion axes to extremely slow, high-torque positioning applications. Furthermore, the broad ratio range creates additional degrees of freedom for optimizing the drive system as a whole. To directly measure the actual position of the output, this new Galaxie® gearbox also offers the option of integrating an encoder on the output side.

Unique: Galaxie® technology

Single-tooth sliding gearboxes bearing the Galaxie® name represent a special generation of high-precision drive technology. With their unique kinematics and ability to achieve almost full surface contact during power transmission, they achieve outstanding torsional rigidity, torque density and precision. As a hollow shaft precision gearbox for compact, parallel-axis drive solutions with solid shaft motors, the new Galaxie® GA delivers the unlimited performance of Galaxie® technology while simultaneously offering maximum design freedom.

Pictures (source: WITTENSTEIN SE):



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Texts and photographs in printable quality can be downloaded here.

WITTENSTEIN – one with the future

The WITTENSTEIN group is a globally active family-owned company headquartered in Germany. Around 3,000 employees generated a turnover of 544 mEUR in the 2025/26 fiscal year. As a partner to its customers, WITTENSTEIN shapes the world of cybertronic motion – with passion for innovation, unconditional excellence and an attitude that promotes holistic, sustainable thinking and action.

The WITTENSTEIN group develops, produces and sells gearboxes, motors and electronics as well as high-precision drive systems and solutions, nanotechnology and specific software solutions. Its products, solutions and services drive motion in mechanical and plant engineering, automation and robotics, aerospace, the electronics and semiconductor industries, and numerous other sectors. The WITTENSTEIN group is represented at 35 locations and in 46 countries. Find out more at www.wittenstein.de.

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