



New alpha Value Line gearhead series: Individual talents for driving any axis

Modular design, rapid availability and maximum economy

Maximum configuring flexibility, timely availability, lifelong reliability and economic efficiency – these features all help the modular alpha Value Line gearhead series from WITTENSTEIN alpha GmbH set a new benchmark. Five different variants of the gearheads are available – with reduction ratios, interfaces to the motor and application and conditions of use that can be customized according to each user's individual specifications. The performance range for which the alpha Value Line is designed is characterized by average precision, dynamics and power density requirements. Several product types – for example HIGH TORQUE, with couplings or as a complete linear system – expand the solution space for these "individual talents".

Special selection and sizing tools as well as comprehensive support throughout the gearhead lifecycle round off the service package for the alpha Value Line.

Completely customized: perfect gearhead solutions modularly configured

The alpha Value Line was designed to meet the diverse requirements of performance classes where technical and economic aspects have to be simultaneously optimized. Five different variants – all of them motor mounted versions – form the basis for bespoke gearhead solutions, with reduction ratios from 3 to 10 (single-stage) or 9 to 100 (two-stage) and a permissible torsional backlash of up to eight arcminutes. The output shaft can be smooth, keywayed, involute or flanged. The conditions of use, for example the presence of high axial and radial forces or continuous or cyclic operation, are a further selection and sizing criterion. Various clamping hubs and adapter plates are possible on the drive side. Pinions, metal bellows or elastomer couplings and adapter flanges mounted to the output side can also be supplied as bespoke options, depending on the model. A HIGH TORQUE version of the alpha Value Line with an

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High-tech products made by WITTENSTEIN fly into space and win Formula One races. Intelligent drive systems – from the world's smallest high-performance servo drive to the latest state of the art in medical technology – are developed, produced and marketed by a team of around 1900 employees. With a blend of dedication and enthusiasm, we set benchmarks – every day – worldwide.



The modular alpha Value Line gearhead series from WITTENSTEIN alpha

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output flange is offered for applications where very high torques must be transmitted. If linear motion control is required, the gearheads can be configured together with a rack as a complete linear system – the so-called alpha Value Linear System. All gearhead variants can be put together not only flexibly but also economically thanks to a special modular kit. They run very smoothly and need no maintenance at any time during their operating life – making them even more cost efficient.

Extensive possibilities and design freedom

With more than 95% efficiency at full load, the alpha Value Line impresses with extensive design freedom. In addition to a mechanical interlace which can be flexibly selected according to requirements, the gearheads allow integration in the machine in any position – vertically, horizontally or with the output facing upwards or downwards. In the system solution with a rack and pinion, the gearhead is optionally equipped with a slotted flange for quick and easy positioning of the pinion to the rack. Safe and secure mounting of the gearhead to a motor is possible in a single step, so that installation effort is reduced to a minimum.

(Not) a question of delivery time

Ordered on Monday, delivered on Friday: the fact that all gearhead components are permanently procurable and the streamlined assembly processes lie behind the rapid availability of alpha Value Line gearheads – which even stockable, prefabricated gears find hard to beat. This applies equally to large batches of up to a hundred units, where the maximum delivery time is ten working days.

Everything from one source – from sizing to after-sales services

The alpha Value Line is designed to enable very simple configuration of the gearheads using a small number of essential selection criteria. A web based Info & CAD Finder with integrated 3D files, the cymex[®] sizing software which generates technical assessments of complete drive trains and the professional consulting provided by WITTENSTEIN alpha throughout the design and project planning phases are other key pillars of the support strategy – and each

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customer's guarantee that the final gearhead solution will be optimally engineered.

Extensive support is also offered in connection with replacements: WITTENSTEIN's 24-hour hotline coordinates a range of after-sales services like pick-up and return including all shipping formalities. If necessary, new alpha Value Line replacement gearheads can be assembled and shipped by speedline® in no more than a day or two. Alternatively, with the express repair option, faulty gearheads can be expertly repaired within a maximum of five working days.

Broad array of applications for all axes

The alpha Value Line creates affordable and efficient gearhead solutions for secondary axes, linear feed motions and a wide range of mechatronic drives. Machine tools and manufacturing systems, food processing, packaging and woodworking machinery, printing and paper technology and robotics and handling solutions are just a few of the typical applications.

Photos:

1. Individual talents: the modular alpha Value Line gearhead series from WITTENSTEIN alpha
2. In the system solution with a rack and pinion – the NPR version is shown here – the gearhead is optionally equipped with a slotted flange for quick and easy positioning of the pinion to the rack.
3. Various accessories for the output side, such as elastomer couplings, can also be supplied as bespoke options, depending on the model.
4. Both the NP and the other alpha Value Line models have a guaranteed maximum delivery time of ten working days, even for large batches of up to a hundred units.

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Texts and photographs in printable quality can be downloaded from presse.wittenstein.de.

WITTENSTEIN AG – one with the future

With around 1900 employees worldwide and sales of approximately €276 million in 2014/15, WITTENSTEIN AG enjoys an impeccable reputation for innovation, precision and excellence in the field of mechatronic drive technology – not just in Germany but internationally. The group comprises eight pacesetting Business Units with separate subsidiaries for servo gearheads, servo actuator systems, medical technology, miniature servo units, innovative gearing technology, rotary and linear actuator systems, nano technology and electronic and software components for drive technologies. Through its 60 or so subsidiaries and agents in approximately 40 countries, WITTENSTEIN (www.wittenstein.de) is additionally represented in all the world's major technology and sales markets.

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