

Processes at Kissling

Regardless of the size of the respective project, Kissling applies standardised and proven design philosophies for customized developments. Where no detailed customer requirement specifications are available, Kissling collaborates with the customer to analyze data on the application and environment to jointly develop with the Technical Department at Kissling, a preliminary specification and cost calculation. Experienced

Project Engineers then work closely with the Technical Department, Sales Departments and the customer to develop an optimal technical and commercial solution.

After agreement on the technical equipment, the requisite quality, delivery dates and investment scope, the Technical Department sets about achieving the agreed goals to the customer's full satisfaction.

Technical Competence

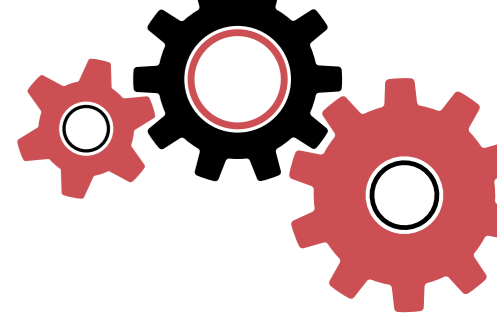
Customers in the area of special gearing demand a high degree of technical competence at all levels. At Kissling, qualified engineers availing of many years of experience and sound expertise are not only responsible for sales consulting but also for drawing up offers and handling projects. From the very first contact through to delivery and assembly, the job is supported by a single Project Engineer who is oriented toward constantly advancing the project as well as being in

a position to provide customers with current information at all times. Kissling's capabilities are not limited to just the gearbox. Starting from base frame, going further to lubrication system, motor or generator and coupling, Kissling can supply a preassembled group according to customer's specifications and needs. Thanks to chosen partnerships, the engineering capabilities include also rotodynamic analysis of the complete drive train.

Systems

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Thanks to proven partnerships, our engineering capabilities also include rotodynamic analysis of the complete drive train.



Turbo Gears

Generators, Fans, Turbines & Pumps

Kissling AG

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Introducing Kissling AG Switzerland

Whether for generators, fans, turbines or pumps, Kissling AG have been developing, designing and producing speed reducers and increasers for this range of applications since 1970. The gearbox is one of the core components of all these applications so make Kissling the heart of your system. With years of experience offering high quality, efficiency, flexibility and dependability, Kissling can meet and often exceed your gearing requirements. All products are characterised by the high-quality of materials and manufactu-

ring that can only be expected from a Swiss engineering company. To the long standing tradition with high speed gears, Kissling continuously develops gearing technology, always embracing new trends and demands from the market.

Kissling turbo gears can achieve efficiencies greater than 98% and are designed according to International Standards such as DIN 3990 / ISO 6636 / AGMA / API 613 and can also be ATEX certified for use in hazardous areas.

ER Series Parallel Shaft Solution

Kissling series of single stage helical gear units with its generously dimensioned body are made up to a size of 850mm centre distance. Covering a power range of 100 up to 5000kW, attaining speeds of up to 60'000rpm. Depending on the requirements and size, the gear tooth system can be single or double helical, all sizes are available with journal and/or roller bearing.

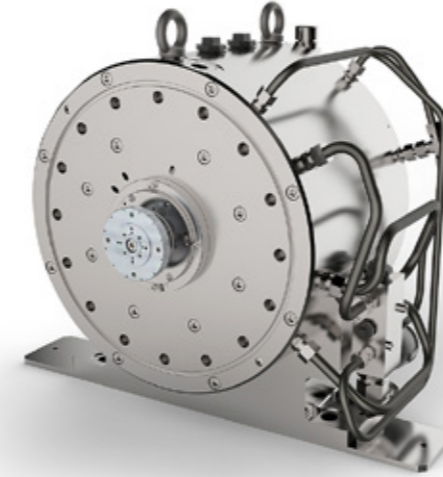
Power: up to 5 MW
Speed: up to 60000 rpm
Ratio: 1:1 up to 1:6.5



ORION Series Planetary Solution

Also known as two-stage concentric gear unit with high transmission ratios. This version is the only one under the concentric versions which allows an inversion of the direction of rotation. The gear rim mostly provides the drive when used as speed increaser. The planets are standing still, while sun and ring gear are rotating.

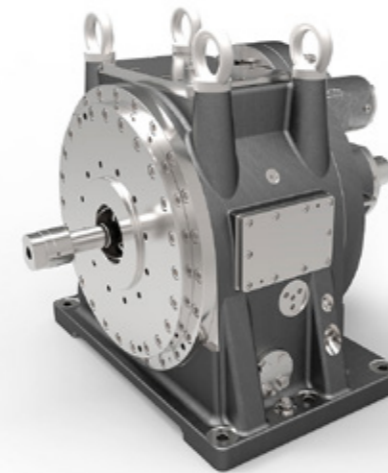
Power: up to 5 MW
Speed: up to 50000 rpm
Ratio: 1:1 up to 1:25



SIRIUS Series Planetary Solution

A further variant for mid range gear reductions is the SIRIUS gear unit. Also known as star gearbox and belonging to the category of compound gearboxes. SIRIUS is actually a dual stage helical gear unit in which the torque is divided on the three gears. The advantage over normal helical gear units is that the power split allows reducing the size of the planets and their bearings.

Power: up to 10 MW
Speed: up to 40000 rpm
Ratio: 1:1 up to 1:16



WEGA Series Planetary Solution

Single stage epicyclical gearboxes build according the design of Stoeckicht with double helical gears. Like all other planetary gearboxes the division of the torque on the planets allows a compact design but the application of double helical gears minimises the negative influence of dynamic loads.

Power: up to 5 MW
Speed: up to 30000 rpm
Ratio: 1:4.3 up to 1:9



ASTRO Series Planetary Solution

The ASTRO gear is very compact with high reduction ratios due to its unique technology of flex pins. With the combination of flex pins and by synchronising the speed of the planet carrier. The load can be divided uniformly on up to seven planets depending on the transmission ratio, also split on both transmission stages.

Power: up to 5 MW
Speed: up to 60000 rpm
Ratio: 1:12 up to 1:40

