

bj·gear



Customised Gearboxes

Dedicated to healthcare

Customisation is our standard

Dedicated gear drive solutions

Today, BJ-Gear A/S is one of the leading companies in developing, manufacturing and supplying gears, geared motors, linear products, special gears and complete transmission solutions. The combination of innovation, know-how, high-technological production facilities and our focus on customer requirements make us a competent partner. We prioritize short reply and delivery times together with a high and qualified service level.

Quality based on experience, precision and method Since 1964 BJ-Gear A/S has been acting as a quality oriented manufacturer of gears and linear products for many different industries and for widely different purposes. We are certified according to EN ISO 9001:2008 and we focus on precision and care when manufacturing. Our components and finished products strictly observe all prescribed specifications and requirements. On request the products can be supplied with reports which documents the specifications and performance like efficiency, backlash, key measurements etc. CSR - Investing in sustainability and good environment

BJ-Gear A/S takes responsibility for the environment in and outside the company. We want to make our contribution to reducing CO2 effect on climate, while also focusing on strengthening employee welfare and health. Therefore, we prioritize sustainability and decent working conditions in our investments and the activities we put in place.

BJ-Gear - A Competent Partner

In this brochure we want to present you for some typical examples of transmission solutions which we have solved in close cooperation with our customers.

BJ-Gear A/S is today one of the leading suppliers of transmission solutions within Healthcare and our products are implemented in innumerable products like for instance patient tables, operating tables, nuclear medicine scanners, mobile X-ray scanners, X-ray scanners, MR scanners, mammography scanners and other associated products. Throughout more than 25 years our most important and most successful field has been Healthcare.

Through a close and prolonged partnership with our customers, BJ-Gear has acquired a significant knowledge of the central function of the gears and the high demands made on the gears within Healthcare.

Our experience shows that by combining our engineering with standard gears, adapted gears, special gears and other transmission components, the optimum transmission solution will be obtained which is of vital importance within the field of Healthcare. We are a professional and reliable partner in relation to engineering, developing, designing and implementing the right solution. However, we also know how to be flexible and how to continuously adapt and develop the gears to correspond to changing demands on the final product.

The decisive factors of success are primarily:

- Reliable Drive Systems • Low-noise Generation
- Engineering Know-How • Test and Analysis facilities
- Compact Design • Technical Documentation
- Short time to market • Delivery on Time
- Safety • 3D CAD, FEA and FMEA
- Rapid prototyping • Logistic Services
- High Quality • Lifetime Spare Parts
- Low Backlash / High Stiffness • Competitive Prices

Customised Gearboxes and Actuators

Our key business area is special gearboxes and special actuators. BJ-Gear A/S has excellent expertise in consulting, engineering and production in this field. In many cases special products offer advantages, because the task cannot be optimally solved with a standard product. Often it will be a less expensive solution to choose a special product precisely designed and dimensioned for the task in question.

With engineering based on knowledge and innovation, we can ensure a competent delivery from the conception of design and production to delivery of prototype and subsequent serial delivery. Also in this field, our flexible R&D department and production facilities allow us to produce quickly any special gears and actuators at a reasonable price, even in small series. For larger and more complex projects where the object is to develop new products, our engineers may contribute through their professional project management to ensure that the transmission solution is implemented successfully on time and according to the agreed specification, functionality and price.

Worm gears

We can quickly and efficiently adapt standard gearboxes to numerous variants by virtue of our technical expertise and our flexible production system. Even minor adjustments like for instance special flanges and output shafts can help giving your business a more optimum transmission solution financially and technically.



Features and advantages

- Sturdy and reliable
- Compact design
- Low noise generation
- Strong bearings in solid housing
- High efficiency or self locking
- Aluminium, stainless steel or cast iron
- Custom design

High Precision Worm Gears

The high precision gearboxes are characterized by a low backlash and a low generation of noise and vibrations. The degree of backlash is adjustable and can be documented by measuring reports.



Features and advantages

- Backlash down to 1 arc minute
- No loss of efficiency
- Aluminium, stainless steel or cast iron
- Can be fitted with AC, DC or servo motors, encoders and brakes
- Custom design

Actuators / Spindle Gears

For linear motions, we offer our successful actuator and spindle gear program. We can quickly and efficiently adapt the actuators and spindle gears to numerous variants.



Features and advantages

- High loads
- High speed range
- Extremely robust
- Simple and compact design
- Modular design with great flexibility
- Custom design

Carestream Health

CARESTREAM DRX-Revolution mobile X-ray system reproduced with permission by Carestream Health



Philips Healthcare

Nuclear Medicine Scanner, Brightview
Reproduced with permission by Philips Healthcare



2 drive units Linear Y



2 drive units Linear Y



2 drive units Linear X



Rotation

DDD-Diagnostic A/S

Nuclear Medicine Scanner, QuantumCam™
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Siemens Healthcare

Multifunctional digital C-arc X-ray system, AXIOM Artis FA
Equipped with 4 drive units from BJ-Gear A/S
Reproduced with permission by Siemens Healthcare



Elekta Oncology Systems

Accurate patient positioning system, Precise Table
Reproduced with permission by Elekta Oncology Systems



Double-acting ball screw gear motor for precise positioning of table

NRT X-RAY

Celex multi-purpose tilt C-arm solution, NRT X-RAY A/S
 Equipped with 7 drive units from BJ-Gear A/S
 Reproduced with permission by NRT X-RAY A/S



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