

Energy Intelligence



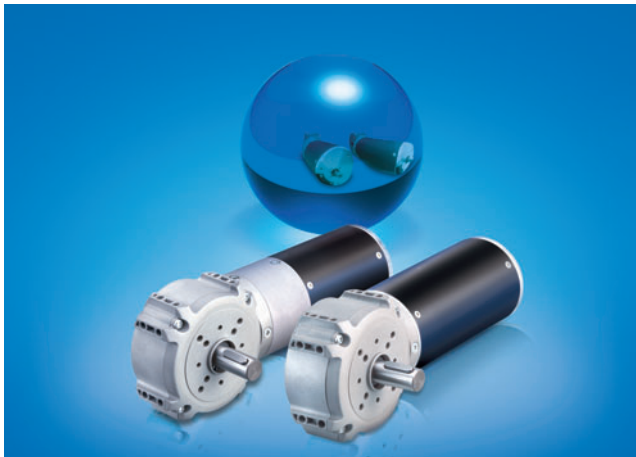
Farsighted drive technology

Energy efficiency.
Smoothness.
Lifetime.

EQ³ – unbeatably forward-looking.

With technically perfect drive concepts, ZEITLAUF® produces innovative gearmotors that are geared to the future like no others. EQ³ is a byword for engineering expertise of the superlative, for groundbreaking intelligent drive solutions incorporating three crucial performance features.





Energy efficiency

Rising energy costs, limited raw material deposits and the necessity of conserving valuable resources make "energy efficient drive technology" more important than ever.

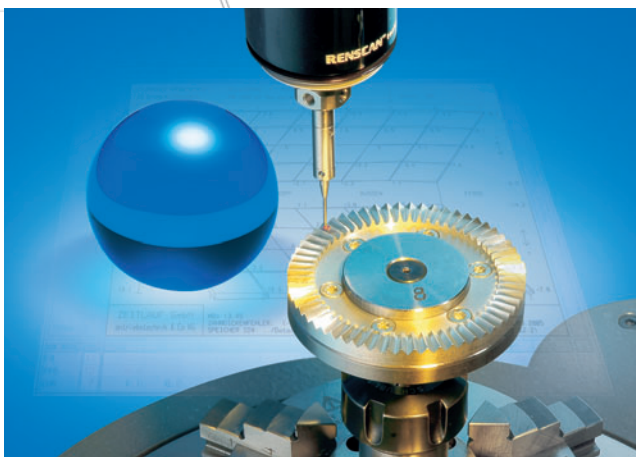
At ZEITLAUF®, energy efficiency is an important issue that has already been given priority for years throughout the entire production cycle and gearmotor life cycle. Our motors stand out for their high performance, their extreme efficiency and low energy requirement. Energy-optimised drive technology par excellence.



Smoothness

The unique smoothness properties of gearmotors from ZEITLAUF® puts them ahead of the entire sector and right at the technological forefront. Tests conducted at certified, independent noise laboratories confirm that our gear motors always come top in terms of low noise levels and noise reduction.

This extreme degree of smoothness is achieved by a combination of intelligent tothing design and expert precision manufacture of highest quality gear parts.



Lifetime

Cost-effective investment and operation combined with above average product durability are our contribution to resource conservation. Our exemplary vertical integration guarantees that our gear motors are of the highest quality. Our finely tuned quality management system comes into effect right at the outset of the development project and accompanies all subsequent phases.

- Very best engineering expertise
- Production machinery developed ourselves
- Efficient materials
- Sophisticated and seamless test procedures, intensive long-term tests plus 100 percent quality control
- Constant assessment and documentation of results

Shaping the future together – it's time for tomorrow!

Innovations that save energy

ZEITLAUF® has revolutionised the traditional crown wheel and broken through the technological limits. The two-stage EtaCrown® angle gearhead has an impressive average efficiency rate of > 85% and the single-stage version one of > 90%.

Make use of savings potential

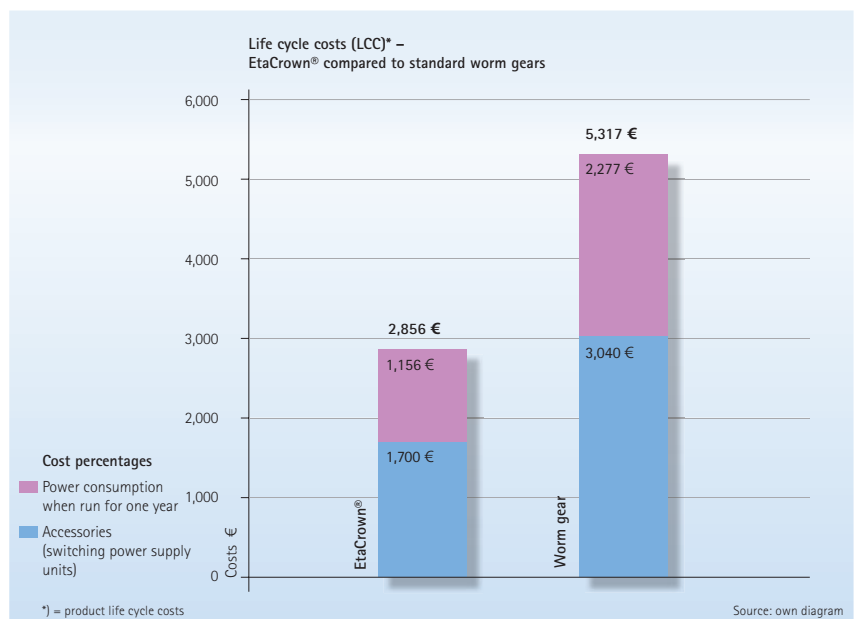
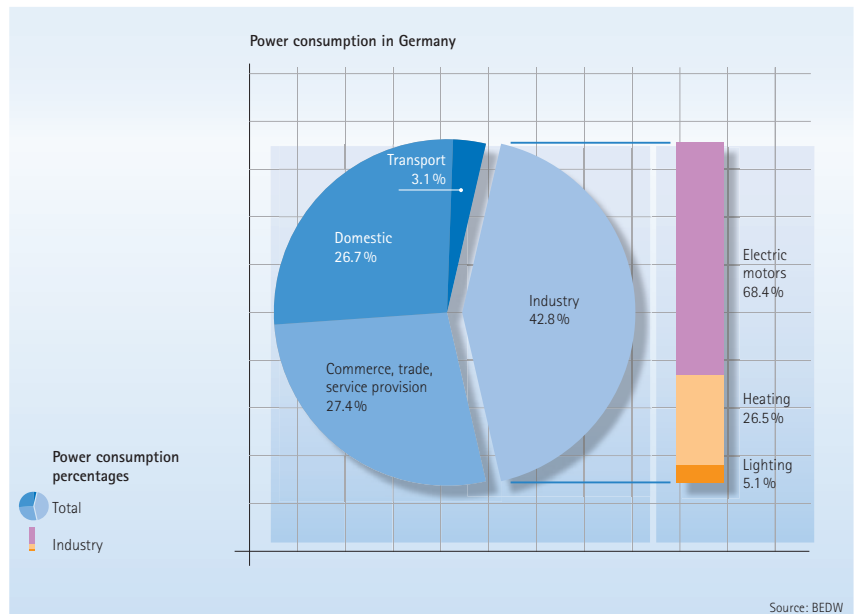
At the moment, almost 70% of the power used by industry is consumed by electric motors (see diagram). The savings potential is appropriately large. Increased usage of gearheads with improved efficiency rates will have an enormously positive effect on power consumption.

Thus, for example, the power used on a conveyor equipped with 20 EtaCrown® angle gearheads is approximately 50 percent (see diagram) less than the same using standard worm gears. The electricity saved in a year would be enough to power 497 low-energy light bulbs (11 Watt) for 1,000 hours.

In terms of life cycle costs, the current cost advantage (no maintenance, smaller switching power supply units, energy savings etc.) set out in the example above is approximately 2,500 Euro per year (see diagram).



"Energy Efficiency made in Germany" – we excel in doing our bit for this export initiative.



Based on: conveyor unit with 20 drives, running time 1 year, 24 h continuous operation, electricity price 0.20 Euro/KWh, accessories: switching power supply units. Acquisition costs for worm gear/EtaCrown® identical (required motor output at identical output: worm gear 65 W, EtaCrown® 33 W).

Energy efficiency



The future begins right now

The efficiency rate of EtaCrown® is up to 3.5 times better than that of worm gear units. The gear wheels of this innovative angle gearhead roll off one another instead of sliding off, with the energy lost to rolling friction being considerably less than to sliding friction. This means that a markedly larger proportion of the power put in is available as power put out. Up to 70% less power loss is achieved.

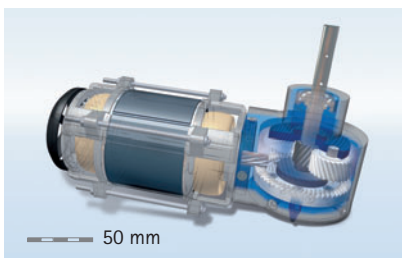
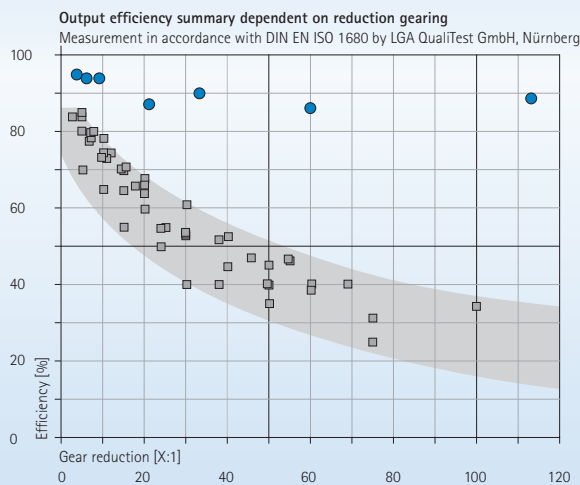
Energy efficiency par excellence

The markedly improved efficiency rate makes it possible to use smaller motors as well as smaller electronics and switching power supply units with noticeably lower power requirements. Less heat generation in the gearhead units means that additional savings can be made in the infrastructure of the surrounding environment as neither expensive fans nor contact protection are needed. And the symmetrical geometry means that storage costs are also kept down as it is not necessary to keep left and right motors (see illustration). The omission of the flange/recesses provides yet more savings.

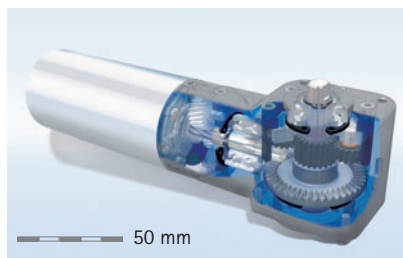
Unbeatable economical efficiency

Apart from their intelligent technical aspects and outstanding features, in terms of which EtaCrown® breaks new ground, this drive concept also scores by virtue of economic efficiency. Above average life-time brings to perfection the degree of cost-effectiveness when it comes to investment and operation.

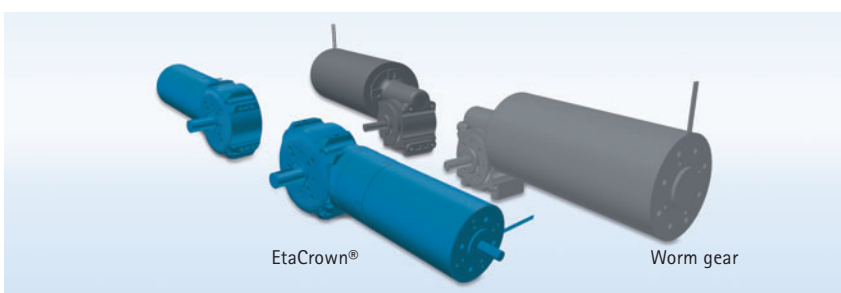
Innovation just can't get more perfect!



Main drive with shafts both sides



Swivel drive for high rates of torque



The symmetrical geometry of the EtaCrown® angle gearhead brings storage advantages

Smoothness



NoiselessPlus – the quiet revolution

Extraordinary smoothness plus a combination of reliability, power and precision – these are the attributes with which NoiselessPlus is making all the running in the world of planetary gearheads.

This innovative planetary gearhead shows its strengths just everywhere where the demand is for maximum output accompanied by as little noise as possible, irrespective of the particular drive task to be solved.

Outstanding engineering performance

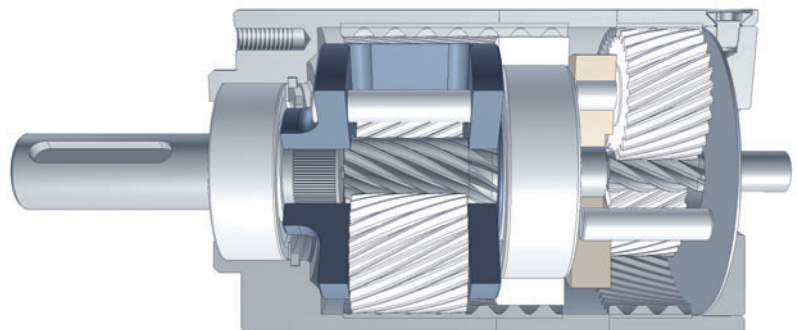
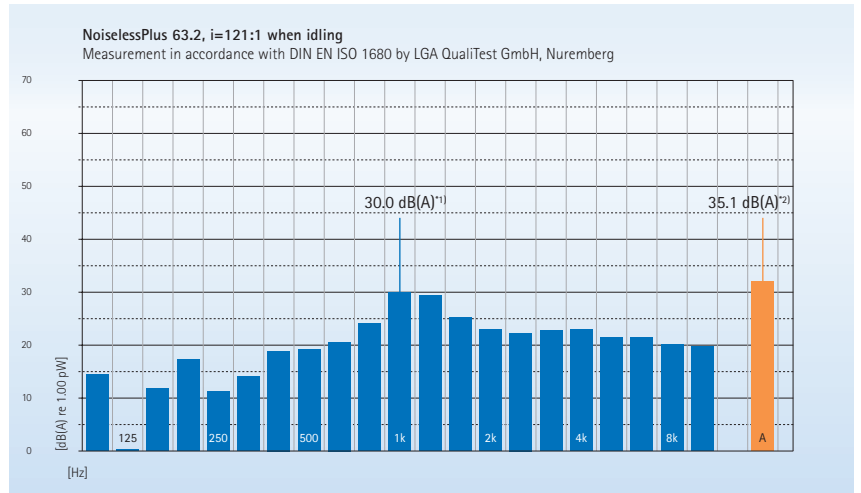
The exemplary noise reduction factor is due to unique toothing design. ZEITLAUF® is a pioneer in this field, even developing its own tooth milling machinery to meet the discerning requirements.

Rolling-optimised design, sliding-optimised plastics and lubricants with best possible tribological characteristics and specially tailored to our needs, ensure best possible results all along the line.

Soundless high-performance

NoiselessPlus planetary gearheads are aptly named, as smoothness and noise emission tests (see diagram) carried out in certified, independent laboratories prove.

NoiselessPlus – technology without limits.



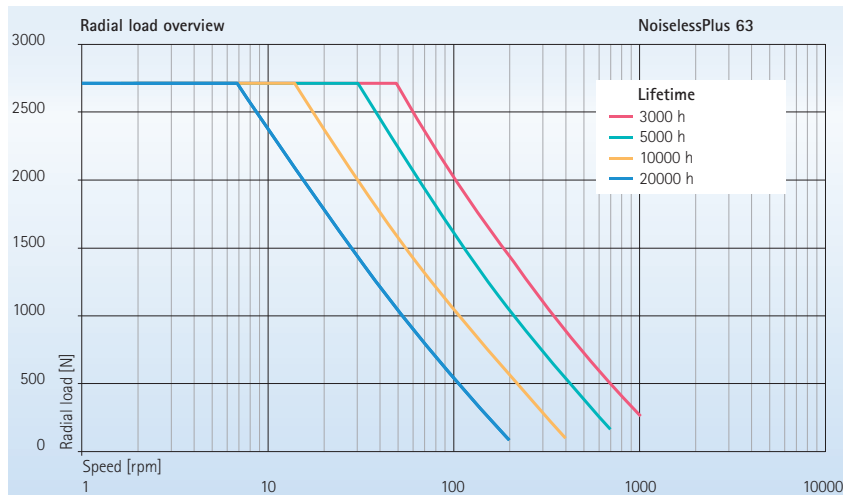
The bearer housing is mounted on two sets of ball bearings so that the planetary wheels remain in the right position and run as quietly as possible, even under the most severe radial-axial loads.



Blood pump



Patient lifter



Ideal performance data

ZEITLAUF® gearheads are perfect in every detail and an above average lifetime of more than 20,000 hours is one of many impressive attributes.

Excellently designed double-sided drive shaft bearings with high-performance top quality ball bearings accommodate maximum radial loads.

Unique perfection

Our extraordinary engineering expertise is the ultimate basis of our success. This is evident from the lifetime of our gearheads, brought about through our optimised production processes.

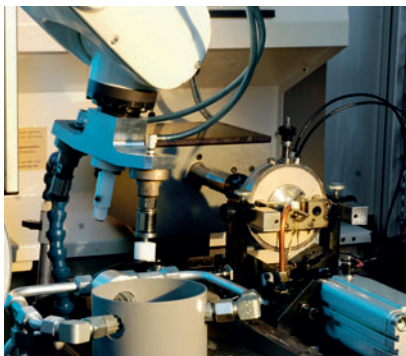
We actively push forward the gearhead technology development process to provide you with the right solutions, the unbeatable added value of which has long-term appeal.

Quality of the highest standard

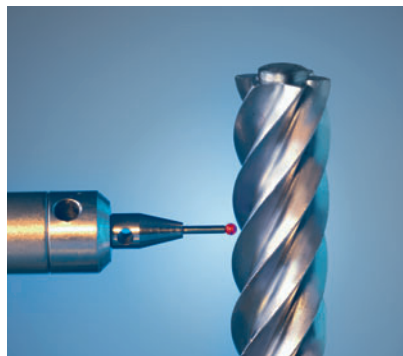
We constantly optimise the efficiency and capability of our own production processes. ZEITLAUF® employs state-of-the-art technology to achieve next generation drive solutions. Every stage along the production chain is subjected to stringent quality controls and is accompanied by continuous long-term tests.

Perfected measuring procedures and tests conducted on incoming materials as well as function tests ensure that every product leaving our company meets every strict specification and thus provides utmost operational reliability.

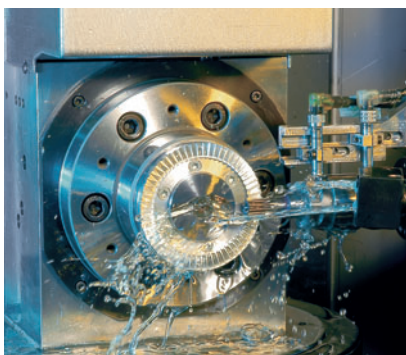
ZEITLAUF® – top performance wherever it counts.



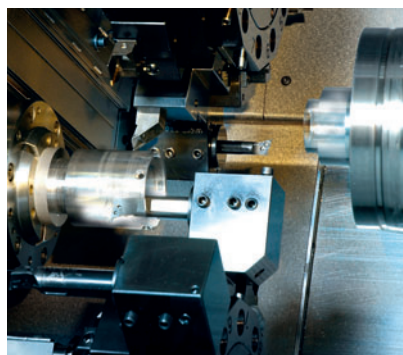
Honing with robotic precision



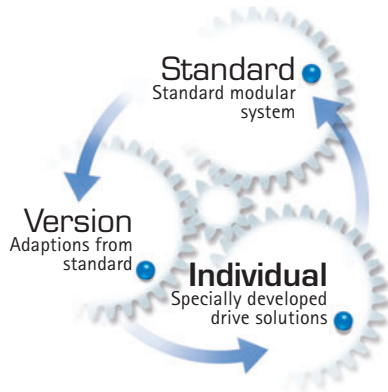
Measuring head for max. precision



State-of-the-art technology for extra perfection



Efficient production processes



Our focus is on your requirements.

We offer you a comprehensive service package – individual products featured in our standard modular system, custom-modified gearmotors and even products specially developed for your needs.


The extraordinary quality of our development services is mostly noticeable in the way we tackle specific custom requirements. This is where our ability to perform in a host of different ways can be seen at its best. Our penchant for intelligently adapting or integrating system components we ourselves have developed and making them perform entirely new functions sets us apart.


Set us a challenge!




Standard modular system, online shop

Our unbeatable standard modular system is of course also available online. Our internet portal contains a unique product configurator which you can use to put together all of our 4,039 solutions according to your specific requirements. Select and order the product you require intuitively, conveniently and smoothly.

 **4,039 drive solutions**

 **48 hour service**

 **Keep-Word-Warranty**

 **3D data available free of charge**

Click our online shop – www.zeitlauf.com