



PULSGETRIEBE®

90 years of experience.
100 percent excellence.



**PLANETARY
GEARBOXES**

**SPEED CHANGE
GEARBOXES**

**PARALLEL SHAFT
GEARBOXES**

**CUSTOM
GEARBOXES**



WWW.PULSGETRIEBE.DE

The PULS principle.

Four factors – one goal: pure performance.

Simple in theory. Complex in the execution. Unparalleled in the field. Our philosophy is your satisfaction. See for yourself.

We're no ordinary gear manufacturer. Our modest size, tight-knit culture and clear structures, not to mention a range of gearbox series that have been continuously refined and developed over the decades, are truly something special.

Sales, development, design, production, assembly, logistics – it all happens under one roof. With us, there are no elaborate communication structures or chains of command, no overseas factories or foreign sup-

pliers. We value direct contact with our customers and suppliers – direct, straightforward communication is always our priority.

Flexibility is not simply a goal we aspire to, but an integral part of our daily work. Whether it's technical requirements, demanding lead times or other special requests, we will do our utmost to accommodate you.

We've had a passion for building gearboxes for 90 years. A successful drive solution and a satisfied customer are our personal commitment. And the key to achieving that is our unrelenting focus on the quality and performance of the products.

SIX STEPS TO YOUR GEARBOX

CONSULTATION



The first step is to analyze requirements together with you and determine a suitable gear concept.

DEVELOPMENT



The gearboxes are then optimally calculated and designed using gear calculation software, FEM and 3D-CAD.

PRODUCTION



We then manufacture the components in our own facilities. With direct contact between design and production engineers, we can assure quality and react quickly to changes.

01 FLEXIBILITY

Special requirements? We can accommodate nearly any individual customer wish.

02 CONSULTATION

Our team of engineers and designers provides expert advice and guidance from the planning phase through production maturity.

03 EXPERIENCE

We've been making planetary gearboxes for 90 years. Expertise through experience.

04 QUALITY

Long-lasting, well-made & reliable – our products epitomize Made in Germany quality.

ASSEMBLY



Our assembly staff works with precision and efficiency. Years of experience combined with outstanding dexterity characterize a well-rounded team.

QUALITY CONTROL



Even with short lead times, we always deliver top quality. PULSGETRIEBE is certified according to DIN 9001.

SERIES PRODUCTION



If needed, we can produce series with up to 1,000 gearboxes per year. We also handle small-scale series and single-unit production runs on a daily basis.

What drives us is innovation – for 90 years.

A remarkable company history. Since 1926 we've been designing gearboxes for sophisticated industrial and mobile applications.

In 1923, E.F. Puls developed the first PULS gearbox in order to make his way through the Ore Mountains (Erzgebirge) in his Cyklonette. In 1926, he founded the PULSGETRIEBE company in Eisenach, Germany. In the years to come, he would develop fully automatic vehicle gearboxes which were used in cars and trucks from the manufacturers Dixi, Austin, Morris and Horch, among others. Numerous patents and articles in trade journals document the high degree of in-

novation that had already come to characterize PULSGETRIEBE in those days. In the 1950s, the company moved its headquarters to Karlsruhe and – following the entry of the two sons into the family business – began production of planetary gearboxes for industrial use.

PULSGETRIEBE was one of the first companies to develop a modular system for planetary gearboxes. The great success of that system moved the company to focus on planetary gearboxes from then on. PULSGETRIEBE has remained a family-run business to this day, and today the third generation is at the helm with mechanical engineer Dr. Christoph Puls.



How it all began...

An ingenious mind, a special vehicle, an innovative idea: Erich Friedrich Puls was a businessman in Hamburg, trading in toys from the Ore Mountain region of Germany. To better handle the steep roads of the Ore Mountain region, he personally developed a reduction gearbox for his car, a three-wheeled "Cyklonette." Encouraged by his success, he decided to make gearbox design his profession.

PULSGETRIEBE from its founding to today – expertise since 1926.

1923

Erich Friedrich Puls builds the first PULSGETRIEBE gearbox for his own car, a "Cyklonette."

1926

PULSGETRIEBE is founded in Eisenach. The first semi-automatic PULSGETRIEBE gearbox is developed for the Dixi company. Many other automobile manufacturers would follow.

1950

Wolfgang & Jürgen Puls join their father's company. A production facility is established, focusing on planetary gearboxes for track drive vehicles.

It's not just the reliability of our gearboxes that is so important. Quality also includes intensive consultation with our customers in the design of the entire powertrain, as well as joint development of new products. Combined with the flexibility to respond quickly and reliably to special requests, we are a strong partner for industry, with decades of experience at our disposal. And that's what makes PULSGETRIEBE so unique.



QUALITY FROM KARLSRUHE. PULSGETRIEBE GEARBOXES HAVE BEEN MADE IN GERMANY FOR 90 YEARS.

We manufacture the products ourselves and source purchased components mainly from Germany. That makes us fast and flexible, and ensures quality.



1970

PULSGETRIEBE gearboxes are used in practically all industrial and mobile applications. The beginning of some important customer relationships that still exist today.

2003

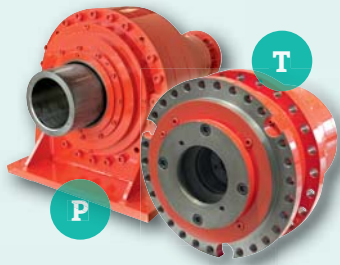
Dr. Christoph Puls joins PULSGETRIEBE. The gradual transition brings with it expansion to new markets, new products and new machines and buildings.

2015

The company moves to the "Breit" industrial park in Karlsruhe-Durlach, Southwest Germany. Significant expansion of the production facility, improved manufacturing processes and increased capacity.

Products

that will move you.



PULS Planetary Gearboxes P / T

Modular gearbox series in the torque range from 1,000 Nm to 1,000,000 Nm. Very quiet operation and durability thanks to case-hardened or nitrided ground gears. In addition to the type P planetary gearboxes with stationary housing, we also manufacture travel and winch drives with rotating housing (type T).



PULS Speed Change Gearboxes S / SL

Speed changing planetary gearboxes with two or more different ratios per gearbox. In combination with our other gearbox series, a wide range of variation options for different applications is possible. Speed change is performed utilizing gear couplings (type S) or disks (type SL).



PULS Parallel Shaft Gearboxes V / VV

Single-stage parallel shaft gearboxes with ratios from 1 to 5 in various versions on the input and output sides. Also available in the VV version with an idler gear to generate the same sense of rotation for the input and output shafts.

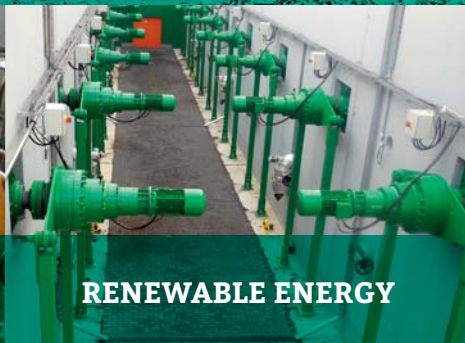
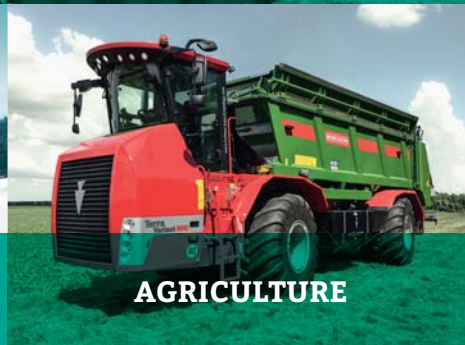


PULS Custom Gearboxes

If, in spite of all flexibility, your particular application is not covered by our existing series, in special cases we develop custom gearboxes. Whether you require high speeds, multiple input or output shafts or other unusual capabilities: we regard it as a challenge to meet your needs.

Industries

that rely on PULSGETRIEBE gearboxes (selection).



OUR RECIPE FOR SUCCESS?

INTENSIVE CONSULTATION – SINCE 1926.



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