



WE TURN POWER INTO ACTION ►

Walterscheid Powertrain Group –
customer-oriented and innovative, with
a clear focus on technological leadership,
quality, and sustainability



INNOVATION BASED ON TRADITION

100 years: The history and tradition of Walterscheid Powertrain Group can be traced back as far as 1919. Cardan shafts and agricultural power take-off shafts have since revolutionized driveline systems as well as machinery and work processes in agriculture, construction, mining and industry, thus decisively contributing to continuous increases of productivity.



1919

Foundation by
Jean Walterscheid in Siegburg

1934

First production of
automotive Cardan shaft



1953

First production of agricultural
power take-off shafts



1971

Uni-Cardan becomes a subsidiary of GKN.

1977

The Burr Ridge sites lays the
foundation in North America



1993

Walterscheid takes over the
Kirschau transmission plant



Foundation of Walterscheid
Powertrain Group

2006

Acquisition of Rockford® Powertrain
– Mechanics® Driveshafts



2018

Opening new production site
in Welsberg, South Tyrol,
Italy



2015

Opening of the new
production site in China



WORLD LEADER IN THE OFF-HIGHWAY SEGMENT

Walterscheid Powertrain Group is a world-renowned expert in powertrain solutions and services for off-highway applications and industries. Our innovations have led us to where we are today, and further developments will enable us to provide our customers across the globe with effective, customized solutions. This particularly includes mission critical solutions to maximize uptime and reliability of operations that demand high power transmission.

AGRICULTURE

Deeply rooted in agriculture, the name Walterscheid is a synonym for high quality PTO driveshafts that offer maximum quality, reliability and performance. Predominantly for mobile main and secondary drives, our product portfolio includes

- ▶ PTO driveshafts, axle shafts, cardan driveshafts, clutches
- ▶ Gearboxes, customized drivetrain solutions
- ▶ Tractor Attachement Systems



CONSTRUCTION AND MINING

Ever since the first cardan and driveshafts became available, manufacturers of construction machinery quickly discovered Walterscheid components for various applications including heavy duty wheel loaders and mining haul trucks. Predominantly for mobile main drives, our product portfolio includes

- ▶ Mechanics® driveshafts, axle shafts, cardan driveshafts, CV shafts
- ▶ Fan clutches, hydrostatic drive, gearboxes



INDUSTRY AND UTILITY VEHICLES

Similarly, for industrial applications and utility vehicles we produce a broad range of customized driveshafts under the brands Uni-Cardan® and Walterscheid.



OUR COMPANY

Walterscheid Powertrain Group is the global industry leader for highly engineered, mission critical powertrain systems and through life services. Furthermore, we offer support for demanding off-highway and industrial applications.

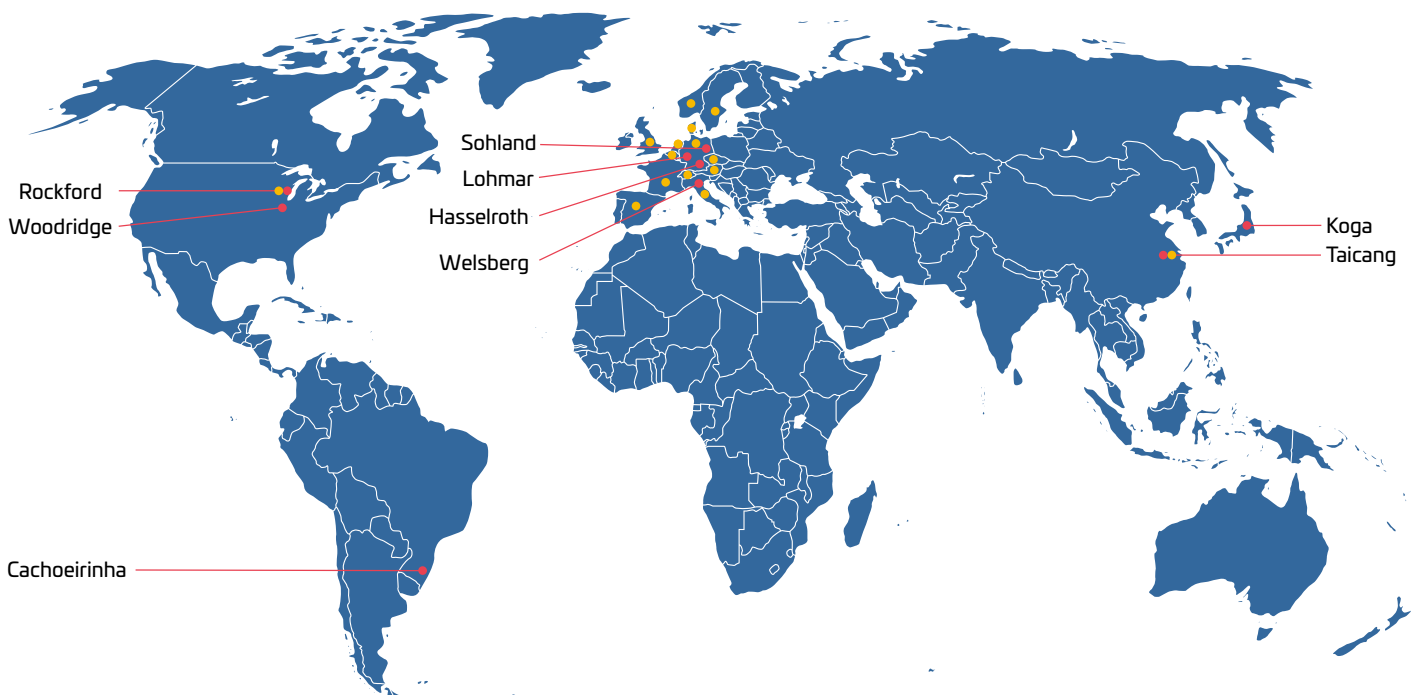
Walterscheid Powertrain Group stands for

- ▶ 2,200 dedicated employees
- ▶ in 9 manufacturing sites and 19 service centres
- ▶ across 17 countries on 4 continents.

Together with a global network of 130 distribution partners, Walterscheid Powertrain Group ensures expertise, innovative technological solutions and customer-oriented services worldwide.

Our vision:

We want to be the clear innovation leader for the next generation of powertrain systems and services.



Worldwide locations of our ● 9 Manufacturing Plants and ● 19 Service Centres

OUR PRODUCTS

Our innovative technical solutions deliver efficiency for powertrain products and systems from power source to power applied. Our extensive product portfolio includes technologies for a broad range of applications, connected and smart powertrain solutions, and complete in-service support.

AGMASTER® PTO DRIVESHAFTS

The economic design alternative. The AGMASTER® PTO driveshafts are 100% compatible with Walterscheid's standard clutch range and offer excellent value.

AQUADRIVE® – ANTI-VIBRATION SYSTEM

By isolating the engine from the rest of the boat, noise and vibration are greatly reduced – and there is no need for periodic realignment.

CENTRED DOUBLE CARDAN (CDC) SHAFTS

Centred Double Cardan (CDC) shafts are innovative high end products allowing for both high angles and high speeds.

DUJ® – DOUBLE UNIVERSAL JOINT SHAFTS

Our DUJ® range was particularly developed for applications in trucks and off-highway vehicles with driven steering axles, sterndrives for boats, and various other special applications.

CARDAN SHAFTS FOR INDUSTRY AND UTILITY VEHICLES

We provide a wide range of cardan shafts for industrial applications and utility vehicles. Our heavy duty series for industrial applications deliver from 40.000 up to 15.000 KNm.

GEARBOXES

Walterscheid produces a wide range of gearboxes for agricultural or construction machinery like for example the ICVD®, a new continuously variable travel drive.

MECHANICS® SYNERGY DRIVESHAFTS

Mechanics® Synergy driveshafts reliably deliver high performance and power – with a strong focus on energy efficiency, productivity and easy maintenance.

ROCKFORD® FAN CLUTCHES

Our high-performance fan clutches set the standard for reduction of fuel consumption and fan-generated noise, for prolonged engine life, fast warm up and improved productivity.

WALTERSCHEID® CV SHAFTS

The product range includes standard sizes as well as heavy duty driveshafts and special designs for utility vehicles, industry and military uses.

WALTERSCHEID® PTO DRIVESHAFTS

PTO driveshafts made by Walterscheid® meet highest quality standards and can be configured in such a way that they will perfectly meet all requirements.

WALTERSCHEID® TRACTOR-ATTACHMENT-SYSTEMS

Working widths, and consequently machine weights, steadily increased in recent years. We have the right concept for all operational requirements.

WALTERSCHEID® HITCH SYSTEMS

With higher efficiency and lower working costs, our hitch systems provide effective solutions for growing farm and machinery sizes.

FOCUSING ON CUSTOMER NEEDS

Across all of our businesses there is an underlying objective looking at society at large: Providing sustainable solutions that equally take care of economic, ecological, and social requirements. This applies for the largest OEMs working on new equipment through to the smallest customers served by our Aftermarket and Service business.




On the one hand, future-oriented solutions must be built on expertise, know-how and experiences created in the past. On the other hand, however, these solutions must reach beyond today's horizon.

Global population growth clearly requires increases in production, while limited, and partly overused natural resources require more consideration, more protection, less usage

and more replacement by renewable and more intelligent solutions.

To increase the efficiency of the equipment is the core of reducing environmental strains. To provide our customers the best possible and sustainable technologies, we are also investing heavily in Smart & Connected powertrain solutions.



“As a highly innovative manufacturer
we offer our customers worldwide tailor-made solutions
that lead the market through differentiating technologies.”

Wolfgang Lemser, CEO



SMART & CONNECTED POWERTRAIN SOLUTIONS

The innovative integrated SMART Technology
provides status information from the powertrain



► WE MAKE POWERTRAIN
INFORMATION LIVE AVAILABLE

www.walterscheid-group.com

FUTURE TECHNOLOGIES AND SERVICES – FOR TODAY

Smart & Connected: Digital information processing and communication are capabilities introduced by Walterscheid Powertrain Group as an innovative way to create additional customer benefits based on real-time information.

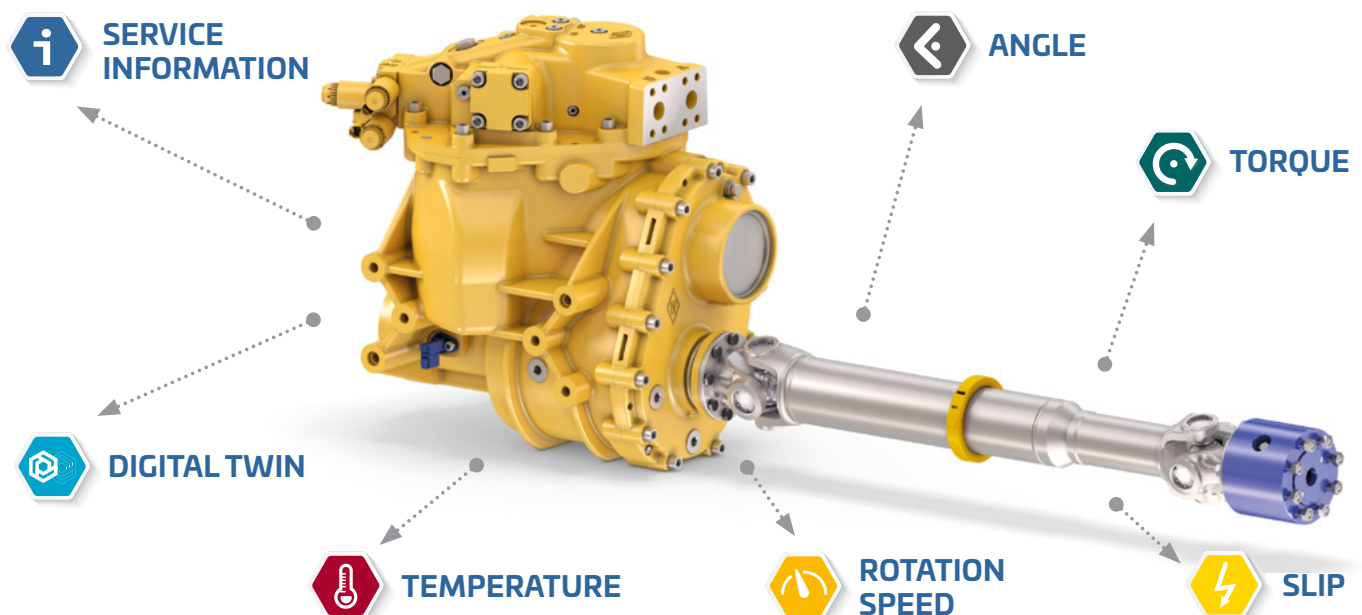
Additional customer benefits are created by digital information processing and communication in powertrain applications, products, systems and services.

As highly advanced engineering service, Smart & Connect allows for monitoring of powertrains in operation, provides live operation and service data to machine operators and ensures electronic storage of data via cloud connectivity. Smart & Connect digital information is generated via plug & play sensors which can be integrated in Walterscheid powertrain components.

Smart & Connect is a customer centric solution that adds value to powertrain components.

Being continuously aware of core data such as angle, torque, rotation speed, slip, or temperature of powertrain components enables operators to reliably recognise irregularities due to wear before failures and downtimes can occur.

With necessary service intervals, Smart & Connected provides the information in real-time and allows for continuous performance monitoring. Avoiding downtimes and timely planning of service breaks allow for optimized efficiency, thus bringing added customer value to powertrain applications.



AFTERMARKET AND SERVICE BUSINESS

The Aftermarket and Service Business of Walterscheid Powertrain Group is operated by 19 service locations which handle and ship about 20,000 spare parts daily.

WPG's Aftermarket Service Portfolio is provided to OEM customers and end users. It is supported by our own strong brands, like Uni-Cardan®, and is characterized by three key features:



VALUE ADDED SERVICES

- ▶ Repair, exchange, modification, customizing and engineering of shafts and drivetrain solutions
- ▶ Services provided to end users



AFTERMARKET PARTS DISTRIBUTION

- ▶ Sale of spare parts to more than 130 distribution partners around the globe
- ▶ Provided to OES and distributors



FIELD SERVICE & DIGITAL SOLUTIONS

- ▶ Field service, preventative and predictive maintenance, condition monitoring and technical consultancy
- ▶ Services provided to end users



Headquarters:

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Off-Highway Powertrain Services Germany GmbH
Hauptstraße 150
53797 Lohmar
Germany



A complete list of all locations can be found here: www.walterscheid-group.com