

smart **G**

Health monitoring and alerting for Power transmission components

Cyber-physical system for Clutch Brake transition analysis and Gearbox Condition Monitoring

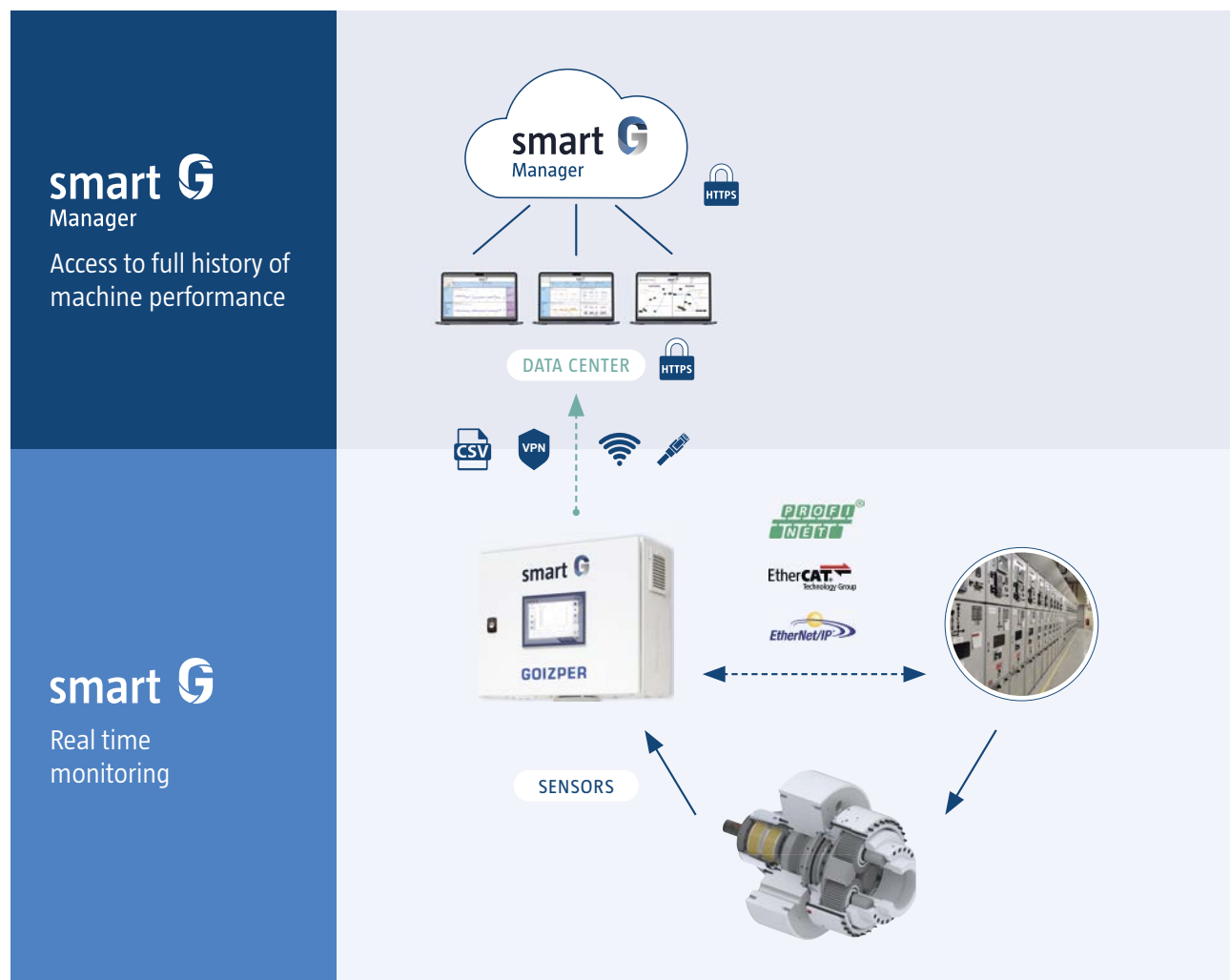


HOW TO PREVENT CRITICAL FAILURES IN POWER TRANSMISSION COMPONENTS?

Smart-G Manager is a platform that consolidates all the information recorded by Smart-G. It provides dynamic monitoring of historical data and performs clustering of the different operating modes, highlighting the deviations that have been identified. This allows for a clearer understanding of system behavior over time and supports the early detection of anomalies or inefficiencies.

Smart-G & Smart-G Manager is a technological solution whose objective is to provide industrial maintenance services related to its components (clutch-brakes and gearboxes).

- > Control and monitor in real time the condition of the machines' transmission components.
- > Identify, foresee and reduces possible breakdowns and downtime in its manufacturing processes.
- > Help to know when it is the right moment to replace a specific machine component.
- > The company minimizes preventive maintenance costs.
- > Improve the spare parts management and the TAS Service.



Smart-G works with the most advanced technological applications, allowing:

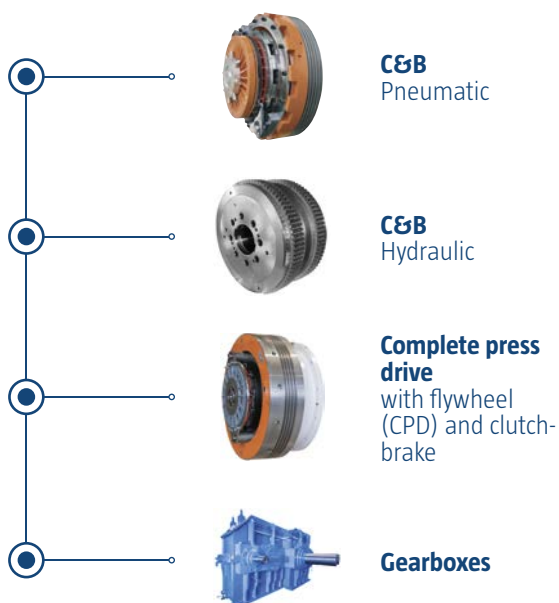
- > Calculate the functional indicators of the component
- > Monitor and analyze the current state of the component.
- > Offers a diagnosis and feedback to support a decision of the machine.
- > The value information recorded locally may be sent remotely to a cloud platform (**Smart-G Manager**).
- > The user can access to the historical information related to the use of its component.

This device plays a fundamental role in the implementation of Industry 4.0: the local and remote capture and transmission of information regarding the status of the machine components and industrial processes in order to reduce unplanned downtimes and increase the availability of the equipment.

Whether stand-alone or in a modular configuration, Goizper's components are equipped with **smart-G** technology, providing continuous, cloud-based:

- > Monitoring.
- > Diagnosis.
- > Feedback.
- > Predictive Maintenance Alerts.

Components that allow monitoring



Functions

Smart-G provides intelligent control data for each Power Transmission Component:

CHUTCH BRAKE	COMPLETE PRESS DRIVE	GEARBOX
> Friction wear > Slipping > Pressure > Clutch Brake - Valve response - ClutchBrake response - Mechanical response > Lubrication condition(s)	> Friction wear > Slipping > Pressure > Clutch Brake - Valve response - ClutchBrake response - Mechanical response > Lubrication condition(s) > Vibration(s) > Flywheel displacement	> Pressure > Lubrication condition(s) > Vibration(s) > Hydraulic elements status > Oil quality



GOIZPER-GUIBE

YOUR PARTNER IN POWER TRANSMISSION



● GOIZPER GROUP (Headquarter)

Antigua, 4
20577 Antzuola
Gipuzkoa - Spain

Tel.: +34 943 78 60 00
smartg@goizper.com
smartg.com.ai

GUIBE

○ Katategi bailara, 2
20271 Irura
Gipuzkoa - Spain

Tel.: +34 943 69 03 50
guibe@guibe.com
guibe.com

● GOIZPER FRANCE

Espace d'Activités Becquerel
15, Avenue Henri Becquerel
51000 Châlons en Champagne
France

Tel.: +33 (0)3 26 21 08 39
goizperfrance@goizper.com

● GOIZPER GmbH

Goethestraße 8
42499 Hückeswagen
Deutschland

Tel.: +49 (0)2192 935 99 03
goizperdeutschland@goizper.com

● GOIZPER INDIA

151 PLOT NO. 1, 2 & 8,
RAMA EQUATOR SHOP,
Nehru Nagar (Pune),
Pune, MH 411018 - INDIA

Tel.: +91 9752645936
goizperindia@goizper.com

● GOIZPER TRADING (WUXI) CO., LTD.

No. 71-2-1, Fengneng Road, Huishan District,
214174, Wuxi, Jiangsu, China

Tel.: +86 186 2609 0880
Williamhu@goizper.com

● GOIZPER TRANSMISSION MACHINERY (WUXI) CO., LTD

No. 3 Workshop, Fengneng Road,
Wind Power Science & Technology
Industrial Park,
Huishan Economic Development Zon
214174 Wuxi, Jiangsu - China

Tel.: +86 510 8359 1630
goizperchina@goizper.com

- GOIZPER GROUP (Headquarter)
- GOIZPER (Sales Offices)
- Distributors