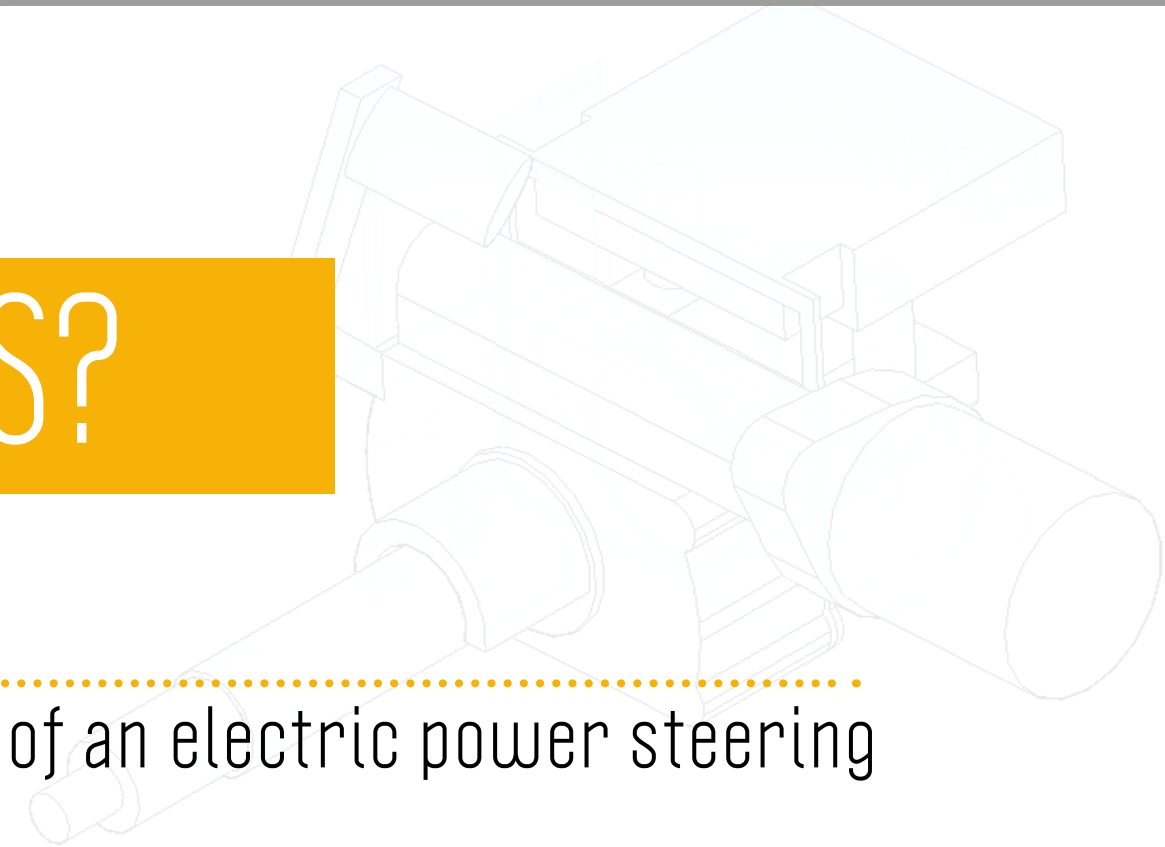




# E.P.S.

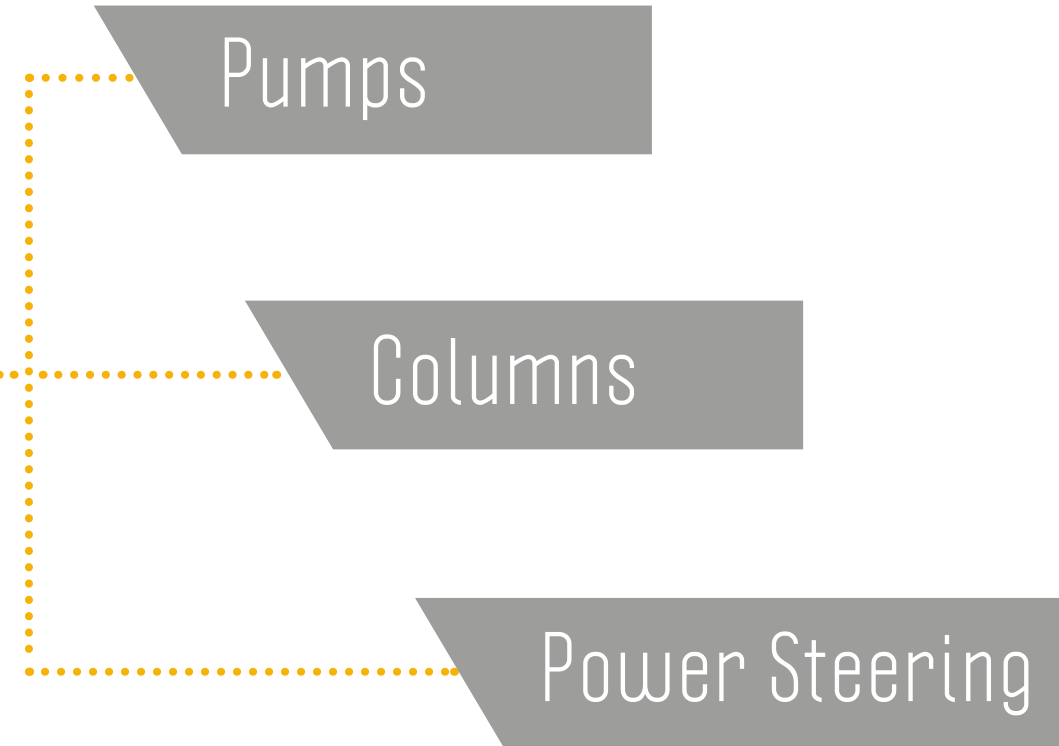
Electronic Power Steering

# What is an EPS?



Fundamental element of an electric power steering system

There are three types



# What is a remanufactured EPS?

A used and/or defective product subject to an advanced industrial production system, through which it is returned the durability and functionality for which it was designed (Km 0).

It's composed of four processes:

## Mechanical processes

- Disassembly.
- Washing.
- Control of cracks and damage to bodies.
- Turning and milling operations.
- Replacement of wear components (bellows, bearings, seals and gaskets, etc).
- Assembly.
- Painting.
- Packaging.

## Electronic processes

- PC board cleaning.
- Inspection of the circuit.
- Welding review.
- Replacement of wear components (MOSFET, Capacitors, Resistors).
- Replacement of faulty components

## Logical processes

- Reprogramming of memories.
- Insertion of VIN number.
- Programming learning mode.
- Calibration of torque sensors.

## Testing processes

- Testing processes on test bench with pressure

Mechanical processes



Electronic processes



Logical processes



Testing processes





# Reman EPS VS Used or Repaired

## Used Product

A used product is a piece that comes from scrapping, normally dismantled of cars that have suffered an accident, on which there is no guarantee of correct functioning, or with problems inherited from such accidents, which are sold after cleaning and painting. Totally advised against safety elements such as EPS. In many countries, its sale is prohibited.

## Repaired Product

A repaired product is the one where the exclusively replaced component is, which due to wear or breakage, has caused its malfunction. You can only guarantee the quality of the replaced component and never on the complete product as the rest of its components that are subject to natural wear and tear are not replaced by operation.

Product manufactured with  
**full warranty**

## What are the advantages of a reman EPS?

### Best relation quality & price

- 50% lower price than the original part with the same features and warranty.

### Job creation

- Creation of added value within the country and, as a consequence, job creation within it.

### Environmental protection

- Control of hazardous waste.
- Reduction of polluting emissions by limiting the production processes of the original reused components.
- Energy saving.
- Mandatory for compliance with the Kyoto agreements.

## Test and diagnosis elements for EPS

### CalCom VCarSys

A set of devices developed by Sercore Group, which includes the emulation of internal communications of cars with CAN Bus technology, and the diagnostic and calibration tools necessary for the perfect realization of these processes.

### Utilities

- Test of EPS before dismounting the vehicle
- Test of EPS outside the vehicle
- Calibration and diagnosis



PORTABLE  
**VcarSys**  
VIRTUAL CAR SYSTEM

THE PERFECT TOOLS FOR THE SALE AND INSTALLATION OF EPS

MINI  
**VcarSys**  
VIRTUAL CAR SYSTEM



MINI  
**VcarSys**  
VIRTUAL CAR SYSTEM



EASY  
**VcarSys**  
VIRTUAL CAR SYSTEM

# SERCORE Group

Spanish technology company founded in 1979 by the Iglesias family, leader in the manufacture of transmissions and reconstruction of electronic steering systems (EPS)

Presence in more than 20 countries around the world

Official supplier of Volkswagen Aktiengesellschaft

ISO-9001 certificate since 1996

IATF-TS16949 Certificate





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