

gREenMANUFACTURING™



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**What is as good as
original GKN parts?**

Remanufactured parts by GKN!

➤ Remanufacturing of used driveshafts according to OE-standards



**Core Management:
GKN takes back cores
from the workshops**

**Automated core identification
&
Sorting**

**Cleaning
&
Dismantling**

**Sorting
&
Re-use**

**New Components
&
Sub-assemblies**

**Repair
&
Re-engineering**

**Assembly
&
Testing
&
Distribution**



➤ **Remanufacturing of used driveshafts
for the automotive aftermarket**

Saving of steel:

- 1,600 tons p.a.

Emission:

- Avoidance of 1,600 tons of scrap (steel).

Remanufactured driveshafts:

- 500.000 pcs. p.a.

Weight per driveshaft:

- Ø 5 kgs

Re-used steel:

- Ø 80 %



> Grease Treatment System

Recycling Process

Manufacturing of driveshafts for OE use

Rests of
different
greases

Mixture:
„type 1“
grease



Collection from OE
plant in cleaned
barrels of new grease

Grease filtration: 4
steps (4mm, 1mm,
0.5mm, 0.2mm)



Re-use in
remanufactured
driveshafts

Material savings:

- > Realisation of 15 tons “type 1” grease p.a. The quantity represents 19 % of the required quantity.
- > Total grease required for the remanufacturing of driveshafts: 78,8 tons p.a.
- > Each year, there are 60 t of grease to eliminate.

Emission:

- > Saving of 15 tons of grease to eliminate.
- > Used grease represents nearly 80 % of the waste.

> Remanufacturing Facilities



GKN Driveline Ribemont

Location: St Quentin, N. France

Founded:	1976
No. of Employees:	86
Capacity:	500,000 driveshafts/year
Homologation:	ISO/TS 16949, ISO 9001, ISO 14001, QS 9000, OHSAS 18.001
Production for:	IAM 65%, OES 35%
Products:	CV driveshafts, CV joints and boot kits



GKN Ayra Servicio Carcastillo

Location: Navarra, N. Spain

Founded:	1987
No. of Employees:	123
Capacity:	600,000 driveshafts/year
Homologation:	ISO/TS 16949, ISO 9001, ISO 14001, QS 9000, OHSAS 18.001
Production for:	IAM 64%, OES 35%, OEM 1%
Products:	CV driveshafts, CV joints

> GKN: Committed to sustainability

At GKN, we are committed to playing our part in the protection of the environment, both in the operation of our facilities and the design of our products.

- > GKN products help reduce fuel consumption and CO₂ emission.
- > Most GKN manufacturing locations as well as the two GKN remanufacturing sites are certified to ISO 14001.
- > GKN packaging is designed to be reused for core return.
- > GKN takes care of the waste management for used parts and residual materials (i.e. used oil and swarf).
- > Remanufactured replacement components preserve natural resources.
- > Remanufacturing saves energy and minimizes the waste that used parts would produce.

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