

The benefits of REMANUFACTURING

REMANUFACTURING has positive impacts on

□ Environment

- Reducing potential of CO₂ emission by 400 kt (only EU 28)
- Saving natural resources
 - up to 85% of raw material
 - about 55% of energy compared with new units

□ Safety

Remanufactured products fulfill the equivalent function and are warranted as the “original product”. (see definition)

□ Employment

32,000 jobs are offered (only EU 28)

□ Economy

Best choice for the end user by offering the best quality at a reasonable price compared with a new unit

The content of this flyer is supported by following associations



APRA is the only association that represents the whole Automotive Remanufacturing Industry.

www.apra.org/Europe



CLEPA
European Association of
Automotive Suppliers

CLEPA is the voice of the automotive supply industry in Europe.

www.clepa.eu



FIRM is the European umbrella organisation representing the interests of engine remanufacturers and rebuilders.

www.firm-org.eu

Automotive Parts REMANUFACTURING



Information about common definitions / wordings for the complete Remanufacturing Industry

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Common Definition of REMANUFACTURED PART*

- ❑ A **remanufactured part** fulfills a function which is at least equivalent compared to the original part [1].

It is **restored from an existing part (CORE[2])**, using standardized industrial processes [3] in line with **specific technical specifications** [4].

A **remanufactured part is given the same warranty as a new part** [5] and it clearly identifies [6] the part as a remanufactured part and states the remanufacturer.

- ❑ A **remanufactured part is different from a reused, repaired, rebuilt, refurbished, reworked or reconditioned part.**
[These categories are not subject to this definition and the process of remanufactured parts.]

*These are common definitions of:

ACEA, APRA Europe, CLEPA and FIRM

Footnotes:

[1] "Original part, matching quality part"

- BER 461/2010/EC Article 1, Para h) in connection with supplementary guidelines 2010/C 138/05, Para 19
- BER 461/2010/EC Article 1, Para h) in connection with supplementary guidelines 2010/C 138/05, Para 20

[2] Core

- See Core Definition on right hand side of this flyer.

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[3] Industrial process

- An industrial process is an established process, which is fully documented and capable to fulfil the requirements of note 4
- The size of the industrialized production batch is not limited; only one part could be remanufactured
- In case of remanufacturing, the minimum procedures used in the industrial process are: core management, core sorting, dismantling, cleaning of all internal and external components, replacement of all missing parts, restoration of all impaired, defective or substantially worn parts to a sound condition or replacement thereof, reworking, machining or performing such other operations as are necessary to put the part in original working condition or better, components assembly and final testing of each remanufactured part.

[4] Specific technical specifications

- Specific technical specifications, established by remanufacturers and consistently applied

OE part':

Remanufacturing follows the technical specification, the engineering competence and the quality management system (ISO TS 16949) of the vehicle manufacturer or the manufacturer of the original part.

The quality is controlled according to the processes for new parts manufacturing.

Technical adaptations or improvements of the series production should be adopted in the remanufacturing (as far as technically and economically feasible).

Matching quality part':

Specific technical specifications developed in an engineering process by the remanufacturer or proven as technical state-of-the-art in the aftermarket. These specifications are consistently applied.

'according to Footnote 1

[5] Warranty as new part

- The remanufacturer must give a warranty for the remanufactured part which is the same as the warranty required by law for a "new part", if one is required by law.

[6] Clearly Identifies

- A non-removable, sustainable and uncoded marking is put on each remanufactured part.

Common Definition of CORE**

- ❑ A **CORE** is a used part which is intended to become a **REMANUFACTURED PART**.

During reverse logistics it is properly protected, handled and identified for remanufacturing to avoid damage and preserve its value.

- ❑ A **CORE is not waste or scrap** and will not be reused before remanufacturing.

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