



# REMANUFACTURING: The Ultimate Sustainability Solution

## PRODUCTS

**Reman** captures used, durable goods like auto parts and puts them "back on the road" to new and sometimes better than new performance.

**Reman** provides the opportunity for detection of common failure modes and incorporation of design improvements to prevent repeat failure.

**Reman** allows Manufacturers to focus on introducing new and innovative products, while Reman focuses on the repair and preservation of existing products.

## ECONOMY

**Reman** products cost consumers about **40% less** than new.

**Reman** products are one of the few "green" products that actually costs less than their "non-green" counterparts.

**Reman** provides job opportunities, as the reman process requires more personal attention than typical manufacturing.

## ENVIRONMENTAL

**Reman** saves up to **85%** of the energy required to build a new unit.

**Reman** realizes Greenhouse Gas savings of up to **25 lbs. per unit** over new.

**Reman** saves up to **85%** of the raw material required to produce a new unit by reusing existing products.

**Reman** is even more sustainable than recycling, as product castings are preserved rather than melted down to raw material, saving energy and reducing emissions.



rethink reman.

Why choose reman?

### 1. QUALITY

**Did you know . . .**  
Remanufactured products are designed, engineered and tested to perform like new.



### 2. VALUE

Customers save up to **40%\*** when choosing reman vs new.

### 3. GREEN

Reman consumes **86%\*\*** less energy than traditional manufacturing.



**ASK** your technician or service advisor

- Who manufactured or remanufactured the part?
- What is the warranty?
- Is this the right part for my vehicle?



Developed by the MERA Sales and Marketing Council and Eisbrenner Public Relations

\* United Nations Environment Program (UNEP) Study, 2013  
\*\* BusinessSource vs. New Alternatives, University of British Columbia



# CARDONE's Environmental Impact:

The very nature of CARDONE's business is an environmentally sustainable model. CARDONE restores used automotive parts back to their original equipment quality using only about 15% of the energy and material needed to build a new part. These parts would otherwise end up in a landfill or scrapped for their raw material value. In addition, CARDONE uses environmentally-safe chemicals and production processes.

In the last decade, CARDONE Industries has won Pennsylvania's Governor's Award for Environmental Excellence several times. Presented annually, the Governor's Award for Environmental Excellence recognizes Pennsylvania's leaders, businesses, municipalities and institutions that benefit Pennsylvania's environment and economy through innovative green technologies and environmental management.

## 2016 Sustainability Accomplishments:

The remanufacturing of used parts is not the only area in which CARDONE is environmentally friendly. In addition to the **70,580 tons** of discarded or non-usable auto parts that CARDONE remanufactured, the company also recycled the waste and by-products generated during the remanufacturing process.

- **20,085 tons** of scrap metal were recycled.
- **6,871 tons** of cardboard (product packaging returned with the core) were recycled into new paper products.
- **2,230 tons** of municipal trash were recycled into electrical energy, the equivalent of approximately 1,226,500 Kwh.
- **158,439 gallons** of waste oil recovered from cores and cleaning processes were recycled into fuel.
- **728 tons** of wood skids were sent to a recycler and reused.
- **83 tons** of paper were recycled into a new paper products, the equivalent of approximately 1,392 trees saved.
- **57 tons** of electronic boards, PC monitors and telecommunications equipment were recycled.
- **452 tons** of used stretch wrap were shipped to a plastic converter for reuse/conversion into other plastic products.



Remanufacturing captures the value-added form and function of used cores and restores them back to original appearance and performance. The prevention of harmful emissions through re-smelting cores down to raw material elevates remanufacturing over recycling.



In 2016, CARDONE saved 70,580 tons of cores from landfills, enough to fill over two Titanic-sized ocean liners.



CARDONE recycles all the product packaging from returned cores. In 2016, 6,871 tons of cardboard were recycled into new paper products.