

Introducing the first members of the **Neugart Green-Box** product line



The popular Neugart PLE60 and PLE80 are now available as “Green-Box”. What is it? We are calculating / analyzing the carbon footprint of the product for two reasons:

- 1 - To find out which production, transportation, and handling processes contribute most to the CO₂ footprint and subsequently optimize the processes to reduce the footprint.
 - 2 - To determine the overall carbon footprint and to offer participation in investments to offset a portion or even make it “carbon neutral”.
- Hence we offer our customers the option, for a small contribution (surcharge depending upon the footprint reduction) to be part of a growing trend – being more environmentally conscious.

Some may say it is gimmick; others will value Neugart’s activity for a cleaner planet.

Read below the Neugart USA LP definition of the CO₂ footprint of its gearboxes

How is the carbon footprint defined / calculated of a servo-gearhead supplied by Neugart USA LP

The **carbon footprint** of a product is the measure of the amount of CO₂ emitted through the combustion of fossil fuels to have that product made and reach the customer.

Virtually all (man made) products are made by applying many steps and a multitude of processes. Different companies (organizations or individuals) carry out a logical set of these processes, as their "business". For example the product of a mining company is the iron ore which is supplied to its customers, the steel mills. The product of the steel mills could be a refined high strength steel bar, or sheet metal, sold to their customers, companies refining these materials, and so on,

The overall carbon footprint of a product would be the sum of the "added carbon (CO₂)" during each process until the final product is ready to ship. Ideally every company involved in making, handling, offering products or services should track the "added carbon (CO₂)" during its processes.

Since it is impossible to correctly and reliably estimate the carbon footprint of purchased rough materials, components, and services a manufacturer buys to make, build or assemble his product, the footprint of a manufacturer's / company's product equal to the "added carbon (CO₂)" during the applied processes by the manufacturer or "product provider". Currently there is no established strict, standardized definition of the "(CO₂)" footprint of a product. Based on the above Neugart USA LP definition is as follows:

Neugart USA LP is buys components and subassemblies to build / assemble and market planetary servo gear heads. Hence, the carbon footprint of a gear-head supplied by Neugart USA LP equal to the sum of the CO₂ the processes require to procure the materials and components, assemble them to a final gearbox; etc. ...up to a point to get it ready for shipping to the customer. The CO₂ content all other administrative, planning, marketing and sales activities / processes are also part of the supplied product carbon foot print.

A gearbox from Neugart USA LP contains following main processes with measurable CO₂ content:

- Transport of the components from vendor to Neugart USA LP
- Warehousing, machine shop and assembly energy requirement (electricity and gas)
- Administrative, office work related energy / CO₂ (electricity and gas)
- Marketing, sales associated energy / CO₂ consumption (such as road and air travel)