

**Company:** Schmitz + Krieger GmbH  
**Locations:** Cologne, Germany  
**Type:** Contracted Remanufacturer  
**In reman:** Since 1911  
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## Product

Engines, transmissions, and other components for automotive assemblers. Injection equipment and high-pressure pumps.

## Core Sourcing

Service exchange: the customer returns the used product to the remanufacturer, the product is remanufactured and the customer gets the same quality of the same product model back (if it is possible to perform a remanufacturing operation).

## Business Model

Benefits for customers are a lower price, increased availability of products (although some remanufactured products are not always available), and an image about environmental sustainability. The main driver for Schmitz + Krieger is economic, which is followed by environmental sustainability and customer demands. There are neither customer groups nor sales channels specifically for remanufactured products. Schmitz + Krieger directly deals with its customers in most cases, and collaborates with logistics providers and spare part providers.

The remanufacturing process consists of: 1.) reception of cores, 2.) visual check of the cores' quality, 3.) stock, 4.) disassembly, 5.) cleaning, 6.) check of quality, 7.) machining (e.g. grinding), 8.) mounting, 9.) testing, and 10.) shipment. Key resources are the company's remanufacturing personnel.

The main challenges of Schmitz + Krieger are: 1) access to measurable data and information about products and processes, 2) core management (e.g. how to optimize the level of stock), and 3) dealing with electronic products in general (not addressed at present).

## Economic Benefits

For customers, an economic benefit is lower prices: remanufactured products are 20-30% cheaper than new ones.

In general, using existing raw materials and less inputs for the process (e.g. staff, information, machines) is perceived as a source of economic benefit. "Full production costing" is used as a cost calculation method including labour time, material, and investment. This differs from a method for new products.

## Environmental Benefits

From the environmental viewpoint, advantages are fewer materials and reduced energy input, while a disadvantage is dirt from cleaning parts (this can be hazardous).

## Social Benefits – Jobs, Upscaling, etc.

Job creation is the major benefit to society.

## Advanced Materials Recovery

No such materials are recovered.

