

# Remanufacturing



delivers competitive advantage

## Environmental compliance

Remanufacturing offers three key advantages for the environment:

- used parts (cores) are returned to the remanufacturer for reuse
- the remanufacturing process saves 80% of the energy and material it would take to manufacture new parts
- remanufacturing reduces emissions: in the automotive sector, for example, castings are not resmelt

## Aftermarket efficiencies

MCT Mitchell Cotts' remanufacturing process involves working together with the Original Equipment Manufacturers (OEMs), becoming an extension of their organisation. We process used OEM parts, disassembling and cleaning them, replacing the worn components with original quality components and restoring them to their original fit and function. We then test them to a specification agreed with the OEM. Our remanufactured parts are returned to our client's distribution channel and perform "as new" but with the added advantage of the efficiency of the remanufacturing process. Remanufactured parts are typically 30-50% below the cost of new parts.

Our process has been proven by world leading automotive OEMs to generate superior performance in terms of recovered material from core.

## Product life cycle management

Remanufacturing offers an affordable way to produce aftermarket components, in low volumes, to continue servicing products economically well into the future. In

this sense, remanufactured components extend the life of products in the field and vehicles on the road. This is particularly beneficial when life-time costs are an important commercial consideration.

As well as significant cost savings, an extension of the product lifecycle offers the OEMs additional revenue streams from servicing existing products over a longer period of time.

## Brand image and quality

MCT Mitchell Cotts is ISO/TS 16949:2002 and ISO14001 certified. Our systems are constantly audited by our OEM customers.

Our processes and warranty protect the quality of the customer products while enhancing the "green" content of their brand.

## Product design improvements

With our expertise as an independent, OEM-approved remanufacturer, we don't just replace components we often improve on original product performance. We discover design weaknesses and enhance performance. We provide an independent feedback to the customer's design team supporting the Design-For-Remanufacturing processes.

## Industry leadership

Remanufacturing can be applied to most industries offering environmental, social and economic benefits. From the automotive sector to the vending machine industry, more and more companies are considering remanufacturing processes that will provide a competitive advantage in their sectors.

## Why remanufacturing?

- cost savings whilst maintaining the highest quality standards
- environmental compliance
- customer service improvements
- product upgrades



Sustainability Performance Innovation

## Long term relationship with a proven partner



MCT Mitchell Cotts is one of the largest OE approved remanufacturers in Europe with over 40 years of expertise servicing leading automotive manufacturers in the UK and Europe. By working as an integral part of the OEM production process, MCT Mitchell Cotts has become the preferred long term partner of the world primary automotive companies, recognised for our capability to manage their product lifecycle requirements.

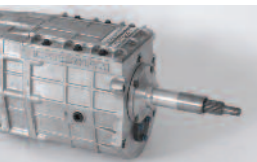


Our enviable customer base which includes Ford Motor Company, Land Rover, Volvo, Vauxhall Motors, Opel, Colt Car Company, International Motors, Caterham Cars, LDV, Unipart, Hyundai Motor Company and Proton Cars.



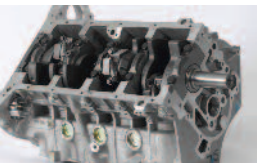
**MCT Mitchell Cotts is a trusted source of services in the automotive sector, recognised for its remanufacturing expertise, performance engineering and innovation.**

## Range of powertrain applications



The world leading automotive OEMs rely on MCT Mitchell Cotts for assembly and functional testing of a range of powertrain products:

- front wheel drive (FWD) and rear wheel drive (RWD) manual transmissions
- 4, 6 and 8-cylinder engines
- RWD differential assemblies (Open and Limited Slip Differentials)
- 4X4 transfer box/driveline systems



Our expertise covers a wide range of additional sub-assemblies including:

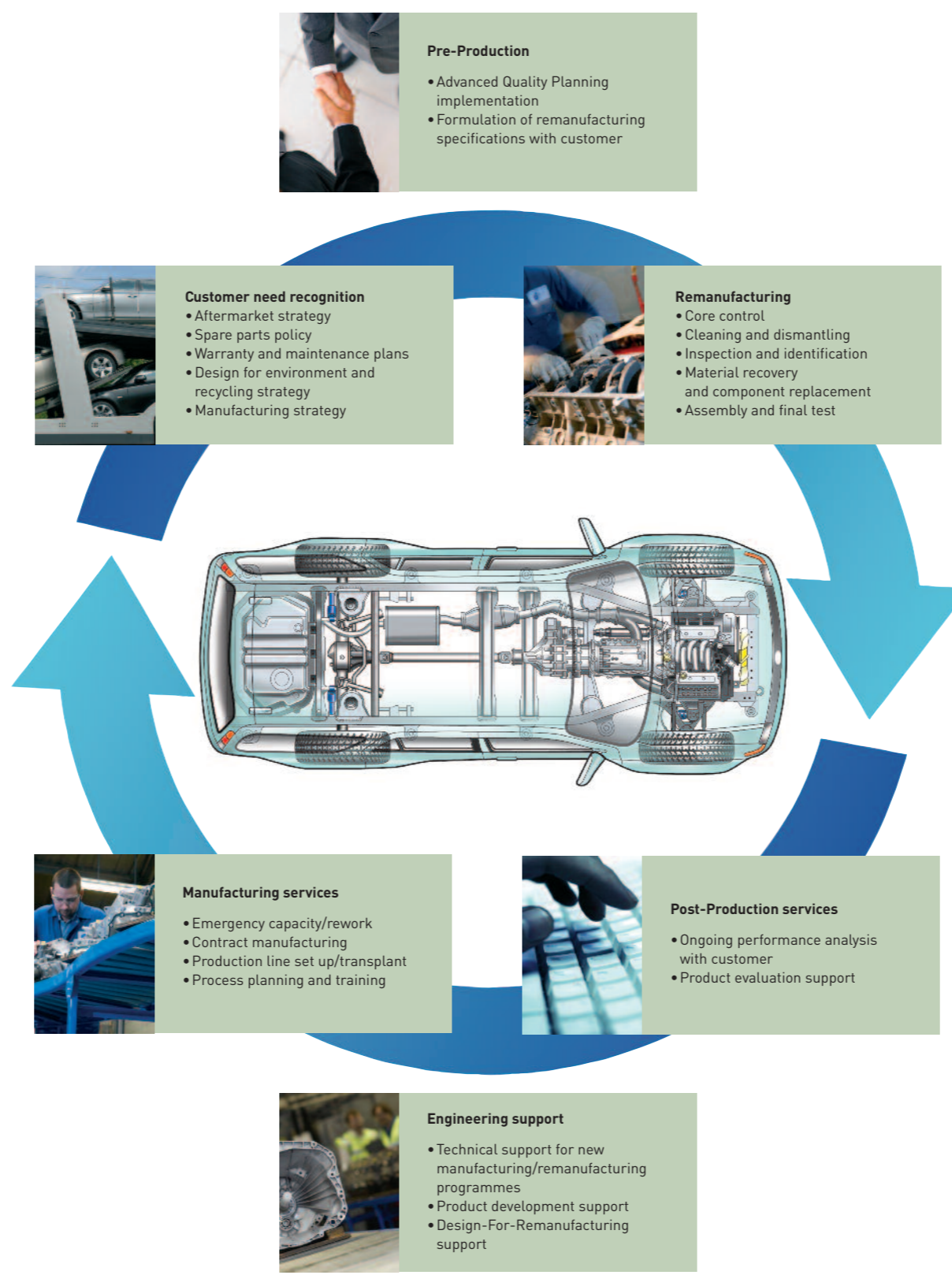
- cylinder heads
- drive flanges
- pistons/con-rods
- rocker shafts
- gear assemblies.



For any of these applications, we have built over time a strong reputation for responsiveness and product quality.



**We have the capability to apply our remanufacturing expertise to any mechanical sub-assembly in your project.**



## Industry versatility



Using our extensive skill base and product knowledge we have been able to apply our remanufacturing capabilities beyond the automotive sector whilst maintaining our excellent credentials for quality and service.



Engineering companies from the most challenging sectors choose MCT Mitchell Cotts as a long term partner for their remanufacturing programmes in order to optimise their aftermarket strategy and environmental engineering efforts.



Our wide cross-industry activity ranges from manufacturing/remanufacturing of pioneering marine drive systems, to the production of rail signal points, to engineering differentials for the off-highway market.

**Talk to us about the remanufacturing challenge in your industry.**

## Quality everywhere



MCT Mitchell Cotts supply chain can support OEM business in the UK, in Europe and around the world.



Our Quality Management Systems comply with the requirements of ISO 9001: 2000. Our commitment to quality is shown by the scope of our accreditations: ISO/TS 16949:2002, ISO14001 and our TS 16949, FORD Q1, QS 9000, ISO 9002, ISO 14001.

**Our engineering capabilities know no boundaries.**

# Remanufacturing

MCT Mitchell Cotts can satisfy your remanufacturing needs. Visit us at [www.gearboxes.com](http://www.gearboxes.com)

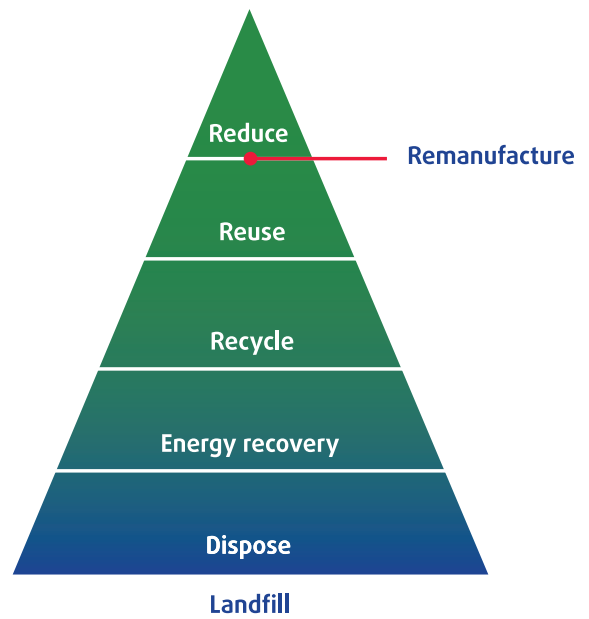


Sustainability Performance Innovation

## A worldwide challenge for sustainability

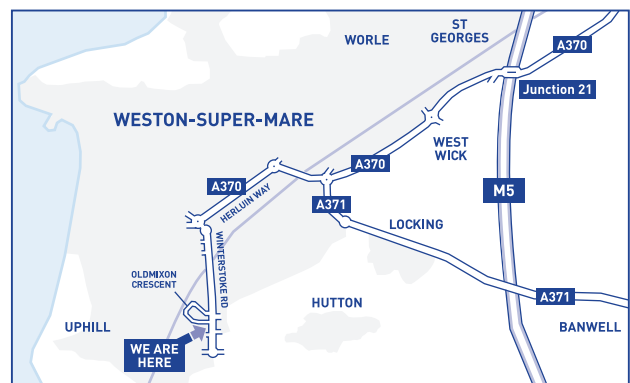
Increasingly, international legislation aims to reduce waste, energy and pollution in manufacturing. This is done by limiting the extraction of natural resources by penalising manufacturers depending on the amount of waste they produce and requiring them to recover the materials from used products. However, there is insufficient capacity to process used products. The European Union alone generates approximately 2 billion tonnes of solid waste most of which is incinerated or put into landfill.

Remanufacturing returns used products to “as-new” functionality. It falls within “Reduction” and “Re-use”, supporting the top two preferred waste management options. These are identified in the EU’s Fifth Environmental Action Programme and the Waste Management Hierarchy. The practice is regarded as a more sustainable way of manufacturing as it causes less harm to the environment than conventional manufacturing and is more profitable. Products generated through a high standard remanufacturing process have comparable quality to equivalent new products but require 50% to 80% less energy to produce. Remanufacturing can also provide 20% to 80% cost savings in comparison to conventional manufacturing. In essence, remanufacturing brings together efficiency and sustainability.



Waste Management Options

Source: Adapted from Waste Management Hierarchy



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