

# We are Remanufacturers Too



By reusing and refurbishing components and cores, cartridge remanufacturers can enjoy not only environmental benefits, but also opportunities to create highly-skilled jobs and economic growth.

With increasing awareness, more and more industries are remanufacturing too. RT Media researched several companies from other industries who are remanufacturing. The range of industries that include remanufacturing is staggering. From nanotechnology to several-story-high agricultural equipment, products big and small are being remanufactured for multiple lifecycles.

## Circuit Boards

Computers, and therefore circuit boards, are in just about every product. Circuit Board Medics (CBM) has secured a place in the remanufacturing industry through high-quality work, cutting-edge technology, and world-class customer support. CBM has an automotive division specializing in remanufacturing modules such as instrument clusters, engine computers, and transmission control modules, along with an appliance division specializing in control boards for refrigerators, ovens, washing machines, and dryers. In a world that leans towards replacement, CBM strives to remanufacture products to function better than new. By doing so, we are able to remanufacture more than 50,000 circuit boards each year to extend the life of appliances and automobiles resulting in the prevention of more than 245 tons of waste from entering our landfills. The team at CBM exists to restore normalcy to people's lives that a broken control board has robbed from them. This focus on the customer elevates the opportunity to serve others by focusing on solving problems and not merely repairing circuit boards. CBM is located in Greenville, SC, and ships remanufactured control boards worldwide. [www.circuitboardmedics.com](http://www.circuitboardmedics.com)



## Agricultural and other Heavy Equipment



For John Deere, a leading global manufacturer of agricultural, turf, construction and forestry equipment, remanufacturing supports John Deere's commitment to those linked to the land by producing quality parts and components that meet customer needs, while reducing environmental impact. Remanufacturing also supports John Deere's corporate eco-efficiency goals by reducing the raw materials and energy that go into component production and through reducing waste at the end of a product's useful life.

John Deere Reman has an extensive product portfolio of more than 3,000 remanufactured parts and components, including engines, engine components, fuel, starters/alternators, axles, transmissions, hydraulic pumps/motors, and electronic components for use on John Deere equipment. These remanufactured products deliver the same level of performance and

reliability as new components because they are manufactured to original John Deere specifications. Remanufactured components provide customers with cost-effective service solutions while minimizing equipment downtime through component exchange programs.

John Deere has been remanufacturing parts and components for more than 20 years. With remanufacturing facilities in Springfield, Missouri, U.S. and Edmonton, Alberta, Canada, John Deere Reman has a well-trained, experienced, and highly-skilled work force solely dedicated to producing John Deere Reman products. These remanufactured parts and components are distributed around the globe through John Deere's extensive parts distribution network, and the reman products are sold exclusively through John Deere dealers. [www.deere.com/remman](http://www.deere.com/remman).

## Aerospace

Recognized as the global leader in aircraft and component remanufacturing, Nextant Aerospace has redefined the business aviation industry by using reimagined engineering and production capabilities to transform used business aircraft into new modern airframes. The airframes are rebuilt with innovative technology for improved performance, advanced flight deck avionics, and enhanced passenger cabin configurations. These best-in-class performance and comfort airframes are reborn at a fraction of the cost of new competing aircraft. Headquartered in Cleveland, Ohio, Nextant Aerospace offers a host of services including aircraft component repair and overhaul, engineering and certification, non-destructive testing (NTD), and parts and STC kitting. As the recipient of the Laureate Award for leadership in the field of Business Aviation, Nextant serves clients in the corporate, government/military, and airline transport aviation sectors.

Through airframe enhancements,

avionics and engine upgrades, and a host of additional improvements, Nextant Aerospace effectively transforms used business aircraft into new, zero hour airframes at a substantial cost savings. With a range of light jets in its stable, Nextant delivers a cabin class aircraft

for every stage of ownership.

Nextant Aerospace has redefined the business aviation industry as the first company to introduce the FAA-certified remanufacturing process for business jets.



## Automotive

Vehicle Reman (VR) is the pioneer remanufacturer of class one to class five fleet trucks, cars and vans. VR replaces powertrain, suspension, braking, and other mechanical components that wear out. VR also addresses any paint, body, and interior trim requirements. The OEM powertrain warranty is three-years and 100,000-miles. Extended fleet use has shown that reman vehicles have the same operational costs as new vehicles. Extending vehicle lifetimes using remanufacturing reduces vehicle capital expenditures by about 50 percent and results in the lowest possible cost per mile of any fleet management strategy.

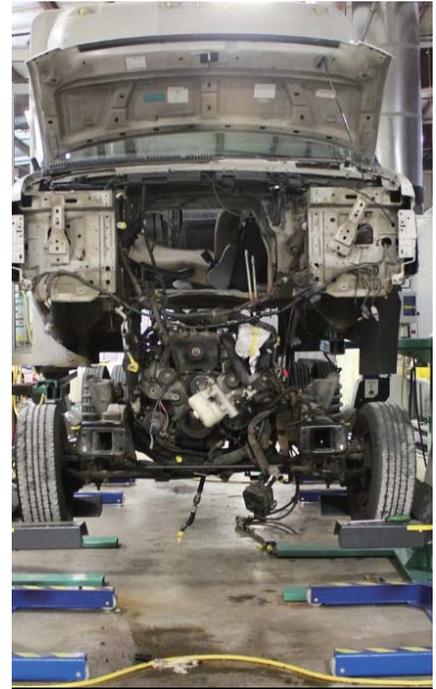
Using a streamlined, assembly line approach inside a 60,000-square foot facility, we can rebuild vehicles to like-new condition to the customer's exact specifications. Everything, including the engine, transmission, suspension/major mechanical, interior and body are remanufactured to

double the life of your fleet at about half the replacement cost.

Remanufacturing is the purest form of recycling in the automotive sector with clear environmental savings. Fleets using remanufacturing as part of their fleet management strategy make an affordable, sustainable corporate responsibility statement far beyond their peers.

VR consolidates 13 different automotive repair shops under one roof. This consolidation reduces overhead, speeds service and delivery time, and improves quality. Remanufacturing combines all repairs at one time to reduce the frustration of serial failures as components age and approach end-of-life at different rates.

Any fleet mission has suitable candidates for VR, including ambulances, paratransit buses, service bodies, flat beds, brush fire trucks, cranes, hoists, boxes, as well as regular straight cabs & bed trucks. ([www.vehiclereman.com](http://www.vehiclereman.com))



## Heavy-duty and off-road vehicles

AxleTech has extensive experience remanufacturing axles, transfer cases, brake calipers, and electronics/mechatronics, for a wide range of heavy-duty, off-highway and on-highway vehicles. Their remanufactured products are used on commercial trucks, buses, defense vehicles, motorsports equipment, and other specialty vehicles. As a manufacturer of drivetrain components for OEMs, AxleTech has the technology to remanufacture axles, brakes, mechatronics, electronics, and transfer cases to factory-like settings thus improving the reliability of the remanufactured product.

Examples of products already remanufactured by AxleTech include heavy equipment transporter axles, rough terrain lift truck axles, transit bus drive axles, defense vehicle transfer cases, and monorail drive units. AxleTech uses a factory-certified remanufacturing process which includes best-in-class teardown and cleaning process, machining and rework process, and assembly. ([www.axletech.com](http://www.axletech.com))



## Office Furniture

Davies Office started in 1948 by Evan Davies, as a small repair and refinishing shop for commercial office furniture. Over the years, Davies has grown to more than 150 team members who are also shareholders with the Davies employee stock ownership plan (ESOP).

Annual sales at Davies now approach \$36,000,000. They achieve this by providing remanufactured solutions nationwide.

Davies owns and operates a 300,000 square-foot, state-of-the-art manufacturing and distribution facility on a 20-acre campus in Albany, NY. From there, it produces approximately 5,500-7,000 workstations worth of panels each year and we take in approx. 7,500-8,000 workstations per year from our sustainable exchange programs with corporate partners.

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As a result of remanufacturing 5740 work stations annually, Davies:

- Saves enough energy that could power 57,500 American houses for one day.
- Diverts 1,587,000 pounds of landfill waste (the weight of 265 tractors).
- Avoids the release of 4,053,750 pounds of CO2 into the environment; and

- Conserves 4,600,000 pounds of raw plastics (766 tractors or about 100 locomotive engines).

They are committed to sustainability and promoting the benefits of remanufacturing to all.

Working with the Remanufacturing Industries Council, Bill Davies (Evan's grandson) assisted in developing partnerships with other remanufacturing organizations and institutions such as the Int'l ITC in establishing a global Reman Day. At Davies, we believe that it is everyone's job to advocate, educate and collaborate with others to spread the message and importance of remanufacturing for all sectors.



## Marine

Jasper Marine has been remanufacturing quality products since 1942 and today they are the U.S.' largest remanufacturer of gas and diesel engines, transmissions, differentials, rear axle assemblies, air and fuel components, marine engines, sterndrives, performance engines, and electric motors.

Whether it's a marine engine, sterndrive, outboard lower unit or outboard powerhead, Jasper Marine has the remanufactured product to get customers' boats back in the water - fast.

From laid back cruising to wide open throttle, Jasper Marine provides all the power marine enthusiasts need and expect for their boating pleasure while allowing them to keep their present boat. Precision machining and quality parts, combined with thorough testing, give Jasper Marine engines and its customers the edge in

remanufactured inboard and inboard/outboard engines.

Remanufactured sterndrives from Jasper Marine are built to precise tolerances, are generally in stock for immediate availability and can save a customer money over the cost of a new drive.

For those of the outboard motor persuasion, a fast and economical way to get back in the water is to install a remanufactured outboard lower unit from Jasper Marine.

Jasper Marine's 2,300-plus associates and 48 branch and distributor locations are committed to providing customers with the perfect product. Their processes and procedures are designed to produce a quality component that will meet or exceed the expectations of customers. ■

