



WE LAUNCH YOU INTO MOTION

PROVIDING THE HIGHEST QUALITY REMANUFACTURED TORQUE CONVERTERS THROUGH INNOVATION, MANUFACTURING PROCESSES AND OEM OR BETTER STANDARDS.

Formed in 1951, Dynamic Manufacturing (DMI) has been the leading remanufacturer of torque converters and transmissions for all vehicle and industrial applications.

In June of 2017, the business segment supplying torque converters to the independent automotive transmission market was separated from the OES business serving GM and Allison and has been operating as a wholly separate entity from Dynamic Manufacturing (DMI) called Dynamic Powertrain Reman, LLC (DPR).

Dynamic Powertrain Reman manufactures “better-than-OEM” replacement and high-performance automotive torque converters for foreign and domestic vehicles as well as industrial applications. Located in Melrose Park, just outside of Chicago, the 65,000 square feet state-of-the-art production operation houses cutting-edge technology with some of the industry’s most modern testing and manufacturing equipment.



Dynamic Powertrain Reman produces in excess of 800 different entities for both foreign and domestic automakers, mainly serving automotive transmission wholesalers and production remanufacturers who, in turn, supply automatic transmission shops.



PROVIDING SUPERIOR QUALITY TORQUE CONVERTERS THROUGH THE USE OF INNOVATIVE TECHNOLOGIES, SYSTEMS AND PROCESSES



Dynamic Powertrain Reman has evolved into one of the leading torque converter remanufacturers today with rigorous quality control standards, state-of-the-art equipment testing and manufacturing processes.

Design and Engineering

Dynamic Powertrain Reman has one of the highest quality converters in the market resulting from innovative remanufacturing designs. Understanding failure modes within the converter allows for improvements in design from external hub replacement to changes in internal components such as stator and/or bearing enhancements.

One of the keys is blending modified components such as the pump or turbine to improve transmission performance with new parts making an overall better product.

Rigorous testing is performed internally and in the field before changes or new units are fully released into the market. We also are continuing to improve our designs of converters as new feedback comes from the transmission shops in the field.

Core Inspection

Dynamic Powertrain Reman's core inspection process begins even before the converter is cut open. The core manager logs and assigns the core to its originating customer and identifies the transmission, model, and version.

The core then goes through a series of testing and visual inspections. After the initial evaluation, the converter is then sent to the tear down area.



Tear Down Area/ Cutting Lathe

Dynamic Powertrain Reman's unique remanufacturing process begins at the lathe, where precise part cutting helps ensure mating surfaces remain true. After the parting of the torque converter, the components are separated and evaluated. Some components go to specialized departments such as stators for complete rebuild or piston/covers for bonding of the friction materials.



Cleaning Process

Dynamic Powertrain Reman is one of the only converter remanufacturers utilizing advanced cleaning technologies to remove oil and contaminants. The solutions along with heat and agitation yield a component that is clean, free from debris and often paint-free. The final cleaning step applies a rust inhibitor coating before moving downstream. A result of this unique process allows most of Dynamic's converters to be built without the need for paint.

Assembly Process

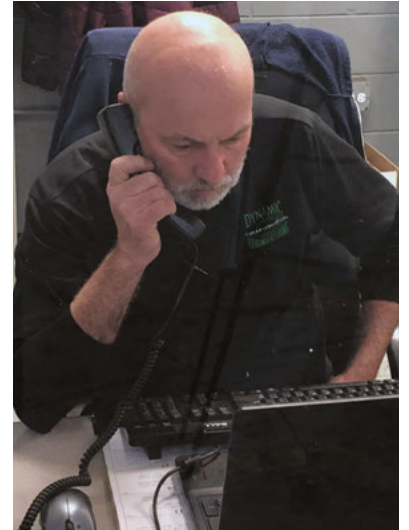
Prior to the assembly process, multiple machining operations take place to prepare the pumps and covers for the build. It is critical the reaction surfaces to friction materials are flat and have proper surface finishes. Chamfers are performed to provide ease of assembly and proper gaps for welding.

Once the components for the converter have been assembled, a technician takes each unit and verifies it meets or exceeds quality control specifications.



All soft parts including seals and O-rings are always replaced. Critical internal componentry such as sprags, and springs are dismantled for inspection and then reinstalled with available upgrades.

Most units receive a new hub replacement unless it was supplied in pristine condition. Fins are bent to exact specifications to set stall range and the remaining components are assembled together and clearances are checked.



Rocky Primavera
Plant Manager

Rocky joined Dynamic over 40 years ago and has served in various capacities in the independent aftermarket side of the business.

Although he holds the title of plant manager running day to day operations, Rocky's true talent is his ability to innovate new designs on all converter remanufacturing as well as instilling a culture of quality. He continues to drive his team to produce the highest quality product in the market.

Rarely in his office, you can find him talking on the phone to customers when not on the plant floor helping them with an issue or specifying a unit that is needed for their application.



Welding

The torque converter is then sent to the welding area where it is mounted on specially designed propriety computerized equipment to automatically set endplay, preventing potential errors. Here, the converter gets tack and seam welded sealing the system. Once the welding process is completed its moved to the final inspection area.



Inspection and Testing

During this phase of inspection and testing, the converter is submerged in a solution and air pressure is applied to check for leaks around the hub and seam weld areas. Any items that fail are reworked or sent back through the entire process.



Balance Process

After inspection and testing, the converter moves on to a computerized balancing machine where it's spun-balanced to safeguard against noise, vibration and shudder. A Dynamic Powertrain Reman specialist manually tack welds balancing weights to the converter. Additional quality checks are performed at this station.

Visual Inspection and Packaging

The converter goes through a final inspection and is packaged for their finished goods warehouse or immediate shipment.

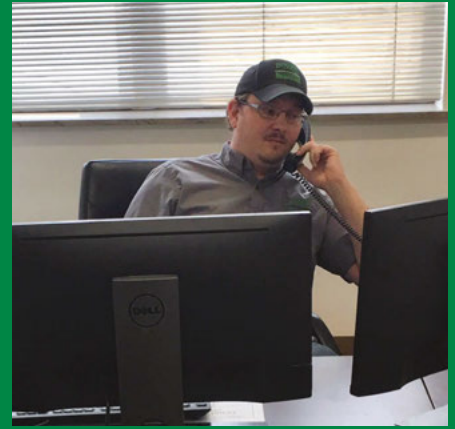


Contact Us

Dynamic Powertrain Reman
3003 W Hirsch Street
Melrose Park, Illinois 60160

Tel: (708) 343-5444

Web: dynamicpowertrainreman.com



Mike Klinger
Customer Service Manager

Mike has been with the company since 2010 and served in various roles at the manufacturing plant. His team is very much hands-on answering emails, phone calls, invoicing, identifying customer inquiries using codes and applications, troubleshooting minor technical problems, as well as some shipping and receiving, checking-in converters and more.



Celina Manning
Office Manager

Celina joined Dynamic Powertrain Reman in August of 2017. As office manager, Celina oversees many of the day-to-day administrative functions as well as manages human resources, accounting, records management and compliance issues for the business.