



## GENERAL MOTORS

# New Washer Concept Manufacturing Process

## Motivation

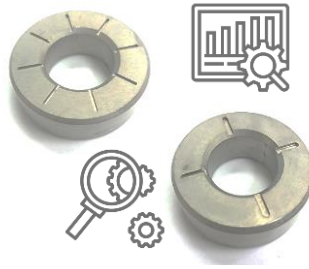
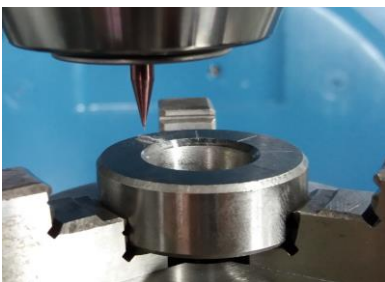
Premature wear of car transmission system components, resulting in loss of efficiency and reduced component life.

## Objective

To obtain an alternative specification for the friction surface of the components of the automobile transmission system, in order to minimize wear in operation.

## Approach

Development of a friction test bench for tests on alternative friction surface finishes. Simulating real conditions of use, the friction test bench was used to test the interaction between washers and gears of the transmission system. By changing the geometry and texture of the washers, the applied force and the duration of the test, the objective of the project was reached, determining a configuration with better performance.



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