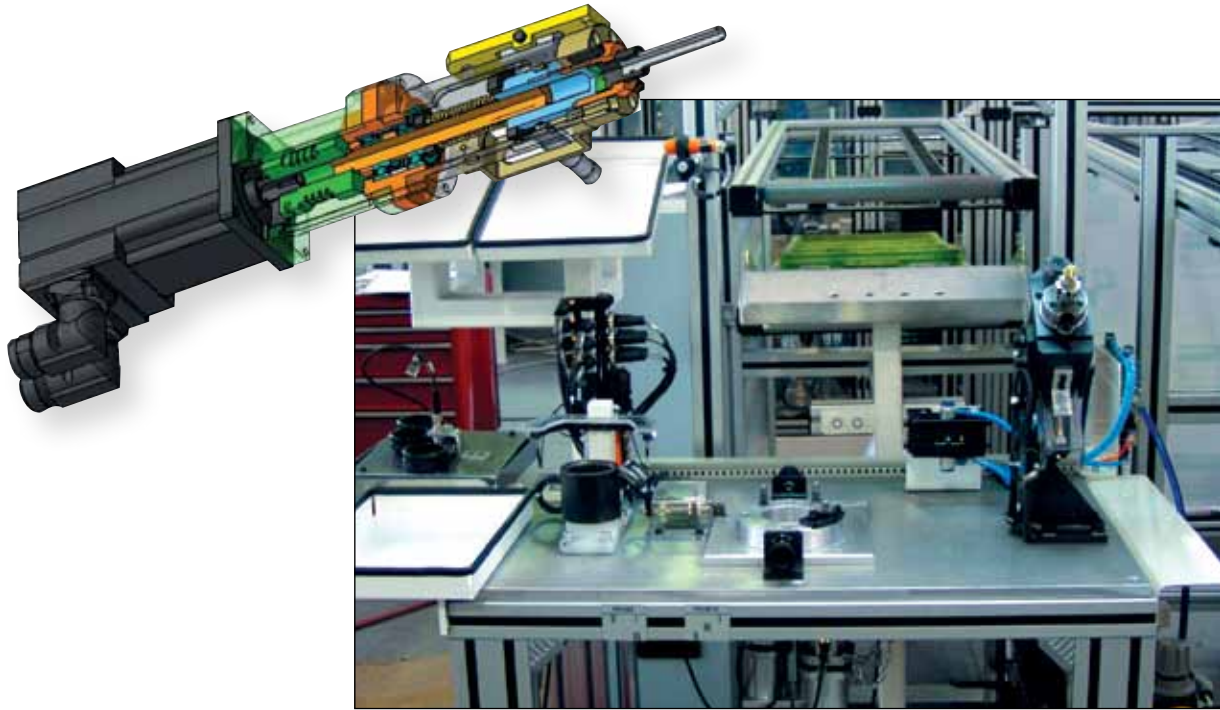




Customer: **Engine Starter Gear Manufacturer**

Application: **Gear Testing Machine**

Product Used: **PositionServo Drive**



Twin PositionServos Gear Up Engine Starters

A manufacturer of gears for automotive engine starters recently incorporated two **Lenze-AC Tech PositionServo** drives into its test process. Test engineers chose the PositionServo for two distinct features: its integrated motion control for direct connection to an upline PLC and its intuitive interface for easy operator control. Two seemingly dissimilar features of a servo drive but a true benefit of the **PositionServo** drive.

The two **PositionServo** drives provide precise motion and torque control required on the threaded spindles, an integral part of the machine that tests the gears of the automotive engine starters. The two drives start simultaneously yet run independently, rotating the spindles to a set revolution limit while also monitoring the torque on the spindles. If the torque reaches a preset maximum value set by the EPH-H315 HMI, then the operator receives a fault message indicating sub-par threads.

The main system PLC is informed of the test failure in addition to the HMI. After acknowledgement by the PLC, both **PositionServo** drives revert to unscrewing mode and return the spindles to home position. The test cycle is fully automatic, however with the inclusion of the HMI, the operator is able to cycle each drive in manual mode if the need arises. Additionally, the fault diagnostics and status functions of each **PositionServo** are displayed on the HMI in real-time.

Benefits of the PositionServo

- Integrated PLC
- Intuitive User Interface
- Economical Acquisition Cost
- Homing Capability
- Torque Mode

PositionServo

