

### 3D Reverse Engineering gives Tenneco the edge

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A technician models a car using reverse engineering

Tenneco has revealed it is using advanced three-dimensional (3D) Reverse Engineering to keep Monroe at the forefront of global ride control design technology.

Reverse Engineering involves measuring an object and then reconstructing it as a 3D computer model. Then, through a vacuum casting process known as 3D Printing, the computer model can be turned into a full-size polyurethane component.

The technology is widely used in product analysis and development, allowing engineers to quickly and efficiently model and modify components from existing products.

Engineers at Monroe's **Eastern European Engineering Centre in Poland** have been working with leading company Car Technology since the beginning of this year – and the collaboration is already showing significant benefits.

“The technology is allowing us to quickly and accurately analyse OE ride control components to generate aftermarket product,” said Karol Nogas, Tenneco Europe engineer.

“By utilising this technology, we expect that we will be able to reduce lead times on new applications such as spring seats and other stamping parts by up to five weeks, which means we’re faster to market,” he said.

“Additionally, our design resources can be loaded with other tasks in that time, so it’s certainly leading to tangible results.”

*Tenneco is the world's largest producer and marketer of ride control and exhausts systems and products. Tenneco manufactures products under the Monroe, Walker and Lukey brands at its facilities in Clovelly Park and O'Sullivan's Beach, Adelaide.*

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