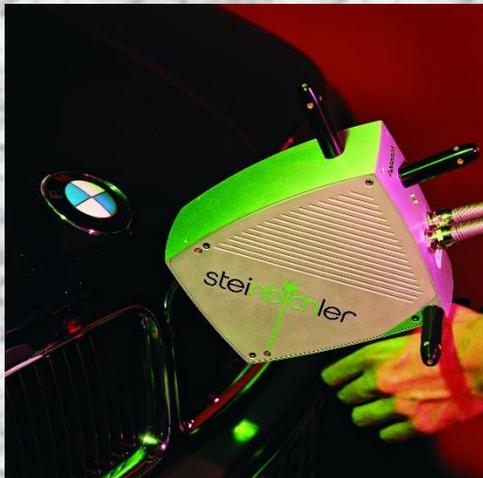# Reverse Engineering Specialists

Our Process

- Laser Scanning
- Computer Model Generation
- Product Shape Conditioning
- Print / Parting Construction
- Tooling Model Validation
- CNC Tool Paths
- Part Validation

Lazer Scanning

■ Laser Scanning to capture original product shape
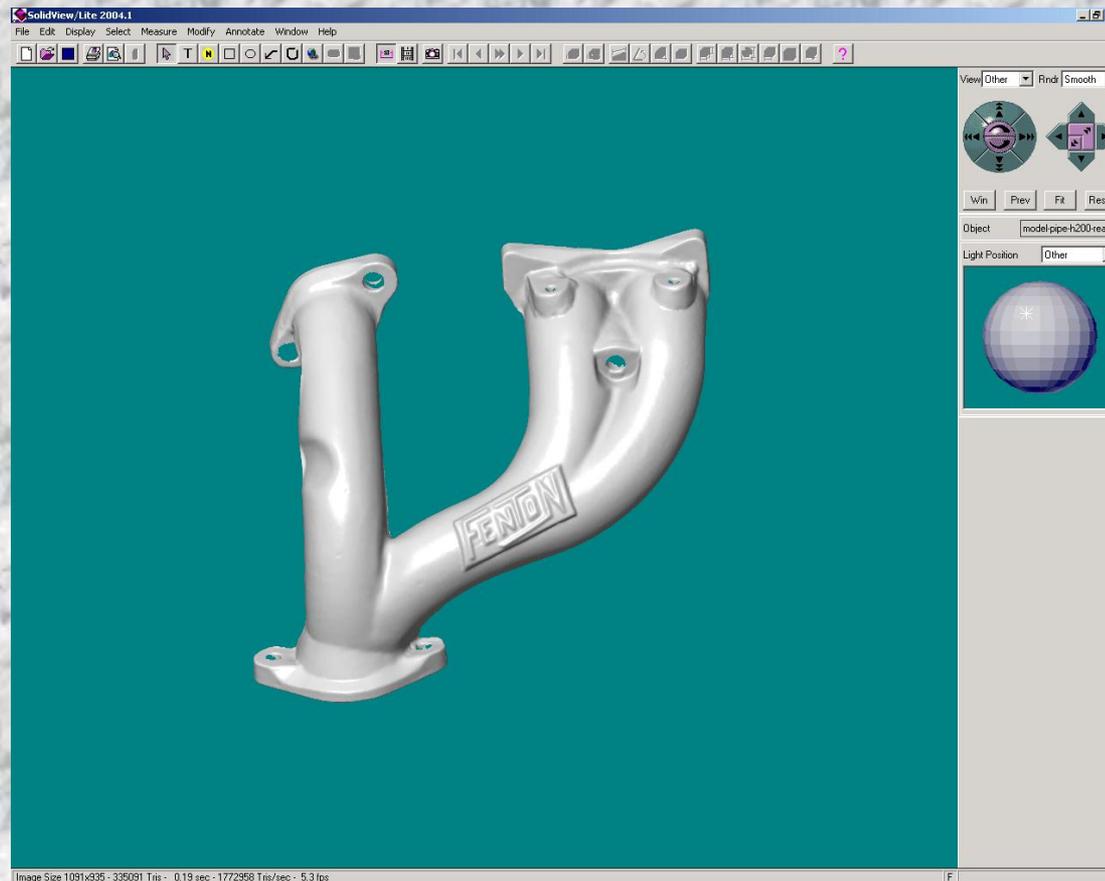

COMET *T-Scan Triangulation Scanner*

*Fast data acquisition

*Variable point density

*Linetracking (feature lines, contrast lines, border lines, edges, holes, ...)

*High dynamic range allows to capture surfaces with different and variable optical properties.
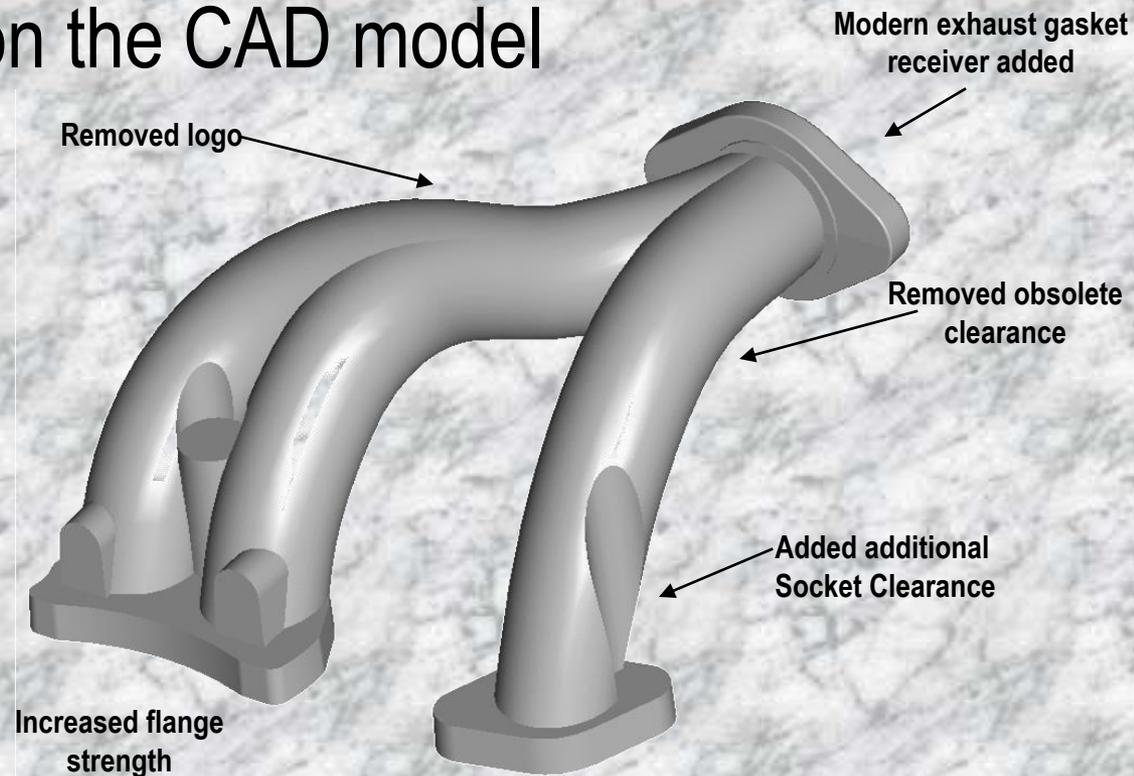
Computer Model Generation

- Quickly surfacing a legacy part

Product Shape Conditioning

- Shrink allowance, machine stock, draft, obsolete feature removal and feature enhancement are all adjusted on the CAD model

Modern exhaust gasket receiver added

Removed logo

Removed obsolete clearance

Added additional Socket Clearance

Increased flange strength

Print / Parting Construction

- Using CAD Modeling Software, our models are 100% computer generated, producing nominally perfect models.
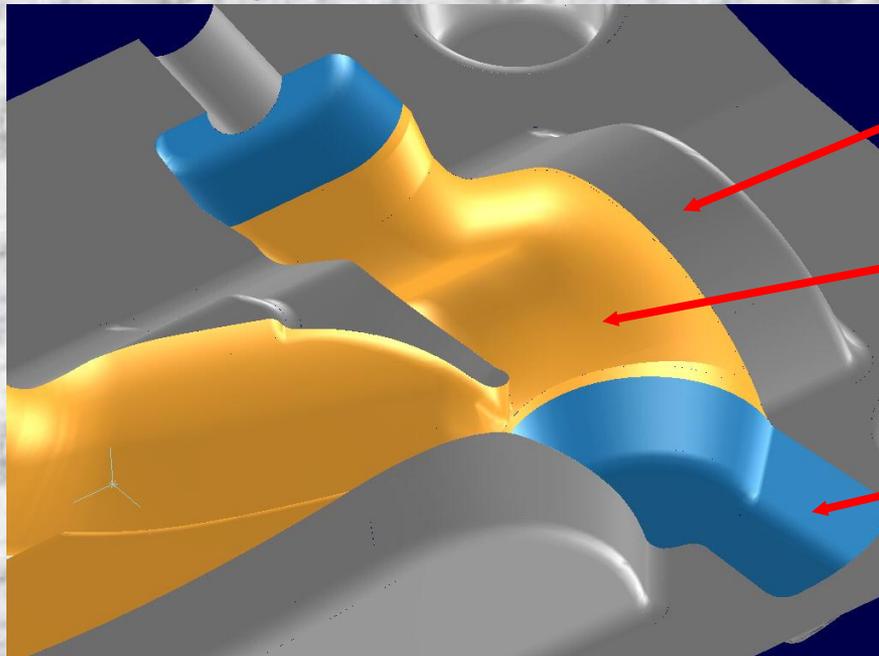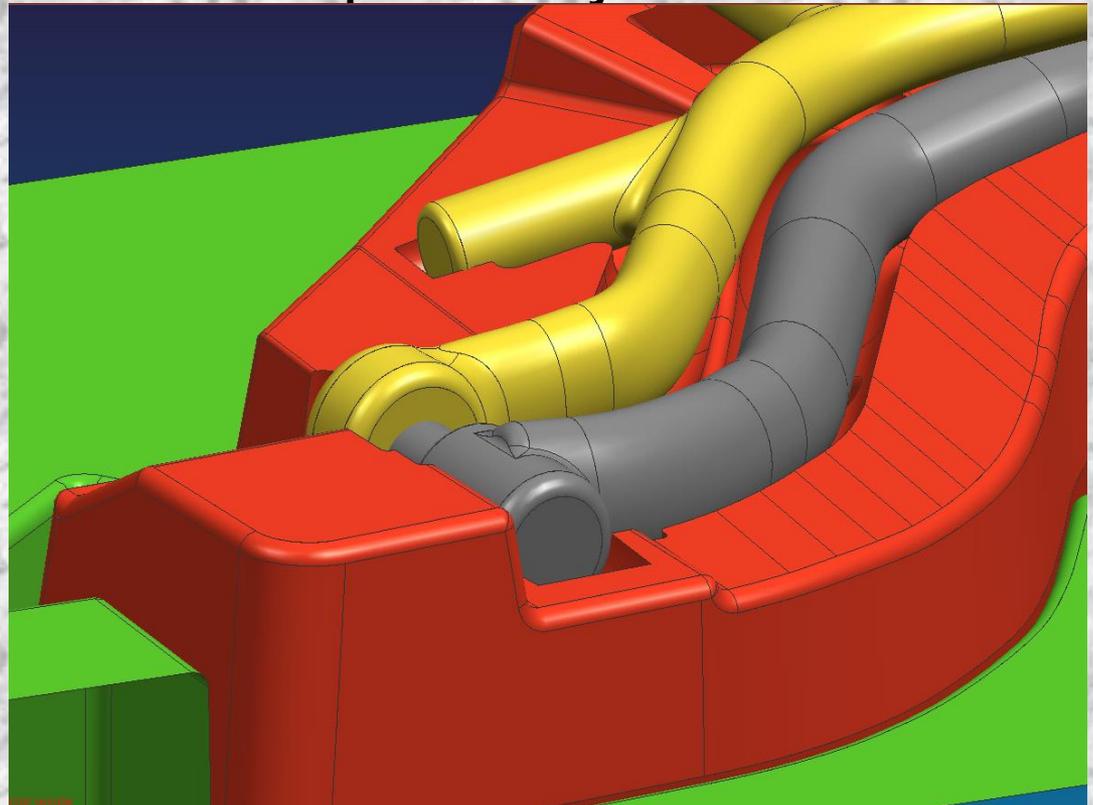

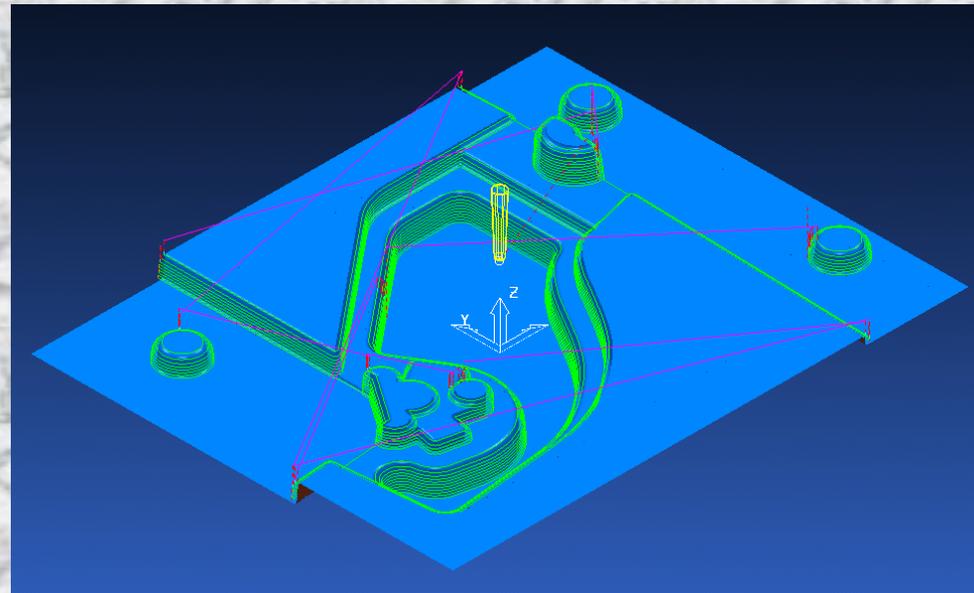
Parting

Product

Print

Tooling Model Validation

- Checking core and assembly clearances, we insure our molds work precisely at the foundry.
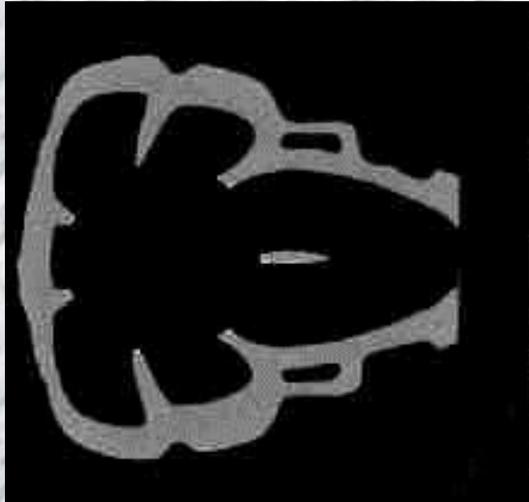
CNC Tool Paths

- CNC Tool Paths are generated from the CAD model. After completion, the resulting tool will be far more accurate than traditional methods.

Part Validation

- To insure that only acceptable variances occur, sample parts are compared back to CAD models.

CT Scanning for internal shape validation

Laser Scanning for External shape validation