

GLOBAL | JAPAN | AMEI

PRODUCT INFO | COMPA

## CASE STUDY

### Customer Story

Toyota

Renault Sport F1

Shinryo

TONETS

Matsue College

Shutoko Engineering

Aisin Seiki

Canon

Nissan/ASFALIS

Nissan/CADdoctor for

NX

Aerojet Rocketdyne

### Customer Voice

# Elysium's Technology Satisfies I Precise Accuracy and Time Cor

Industry: Automotive

Product: ASFALIS

## Renault Sport F1

Formula 1 represents the best of the best in motorsport. Renault Sport F1's engine partners similarly represent the cream of the crop; Red Bull Racing, World Champions in 2010 and 2011, Lotus F1 Team, champions in 2005 and 2006, Williams – who took a total of nine titles in the 90s – and Caterham F1 Team, the best of the 'new' teams.

To win against teams such as Ferrari or Mercedes, engines must deliver perfection at every race; engine failure is not an option. Maintaining this level of competitiveness requires the engineering team to know every part precisely. New parts must be a perfect fit and collaboration with suppliers unambiguous.



## Engineering Process

High performance engine parts are purchased from many suppliers with Engineers deliver high quality, ready to manufacture CAD models in the software.

Data translation must be fast, automated, error-free, and driven by Rena

## Elysium Solution

As each part or assembly is released for production, Renault Sport F1's EI check the appropriate CAD model and send to Elysium's server for transl Elysium's ASFALIS automated translation software. Each model is checke

translation. Suppliers use these models to quote prices and delivery date needed for efficient manufacturing. When orders are approved, models are used for milling machines and CMM inspection systems. The translation server stores target software and release level.

## Results

Renault Sport F1 has become a top engine supplier in the FIA Formula One success, the Red Bull Racing Renault team claimed 6 wins in 2009, 9 in 2010 dominating the year. The Red Bull Racing -Renault drivers Sebastian Vettel and Lewis Hamilton respectively in 2010 and 2011.