

# High Speed Camera in Engine Movements Analysis

## Application

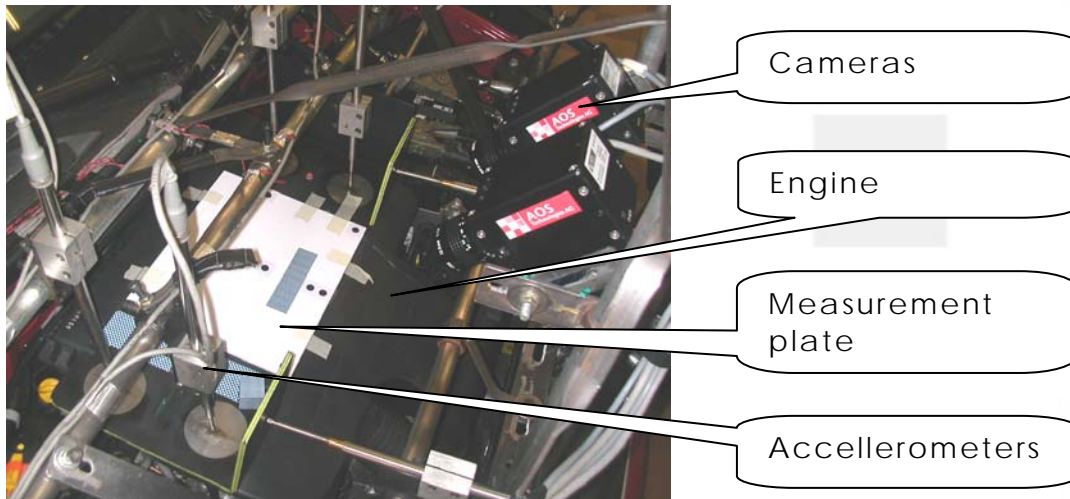
Automotive – measuring the vibration and movements of the engine block during various driving tests (acceleration, breaking, cobblestone roads etc.). Goal: optimization of engine mounting blocks (rubber).

## Problem

Up to now, the movements are measured with 8 accelerometers, mounted on a rig. Installation and setup of the accelerometer / mounting rig takes approx. 2 days before tests can be performed.

## Solution

Mounting rig with 2 AOS MOTIONeer highspped cameras, mounted in a 45 degree angle, looking at a "measurement plate" installed on top of the engine block  
3D Motion Analysis software for a fast, yet accurate analysis of the engine block movements.



## Customers benefits and value

- drastically reduced installation and setup time (from 2 days down to approx. 2 hours)
- more test configurations possible in less time

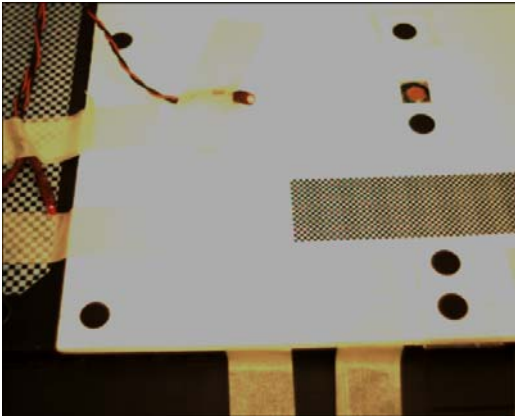
## Possible customers

- automotive manufacturers
- manufacturers of engine mounting blocks

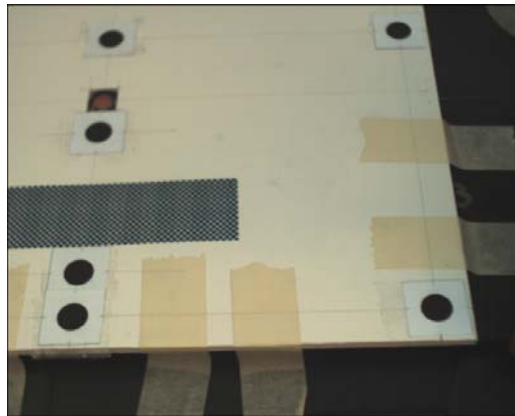


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## What the cameras see



Left camera



Right camera

## Scope of supply

- 2 units VITcam, color, 2sec (monochrome also possible)
- 2 units 12.5mm/f1.4 lenses
- 2 units mounting plates
- 1 unit MotionTrack 3D analysis software

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