

PROJECT

SMM

Power Density improvement demonstrated on a certified engine

Funding: European (Horizon 2020)

Duration: Jan 2016 - Mar 2018

Status: Complete

Total project cost: €825,358

EU contribution: €500,000



Call for proposal: H2020-CS2-CFP01-2014-01

[CORDIS RCN : 199473](#)

Objectives:

SMA currently manufacture a 4 cylinder air cooled diesel engine. It will render this product more competitive in the market place if it has a higher power output (+20%) and is lighter (10%). This proposal by Ilmor Engineering Ltd presents a program of work to achieve these objectives.

It is proposed to use start of the art analysis techniques and invent solutions for:-

- a. Cooling the cylinder head.
- b. Improved strength coupled with simplified assembly and manufacturing of the crankcase.
- c. Improved layout of the engine with regard to the turbocharger position.

Parent Programmes:

[H2020-EU.3.4. - Horizon 2020: Smart, Green and Integrated Transport](#)

Institute type: Public institution

Institute name: European Commission

Funding type: Public (EU)

Lead Organisation:

Ilmor Engineering Limited

Address:

QUARRY ROAD
BRIXWORTH NORTHAMPTONSHIRE
NN6 9UB
United Kingdom

EU Contribution: €500,000

Technologies:

Road vehicle propulsion
Tyre materials and mixing processes

Development phase: Research/Invention

STRIA Roadmaps: Vehicle design and manufacturing

Transport mode: Road transport

Transport sectors: Passenger transport

Transport policies: Other specified

Geo-spatial type: Other