



TECHNICAL PRESENTATION

SECTORS

AUTOMOTIVE

FOUNDRY

PLASTIC MOLDING

COMPOSITE MATERIALS

STRUCTURAL ANALISYS

PRINTING MACHINES

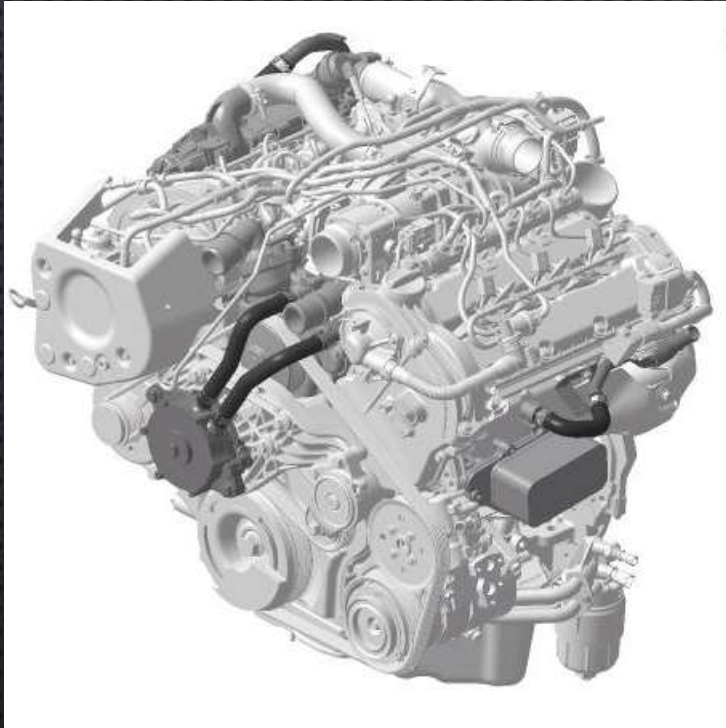
GEAR AND TRASMISSIONS

MACHINE TOOLS

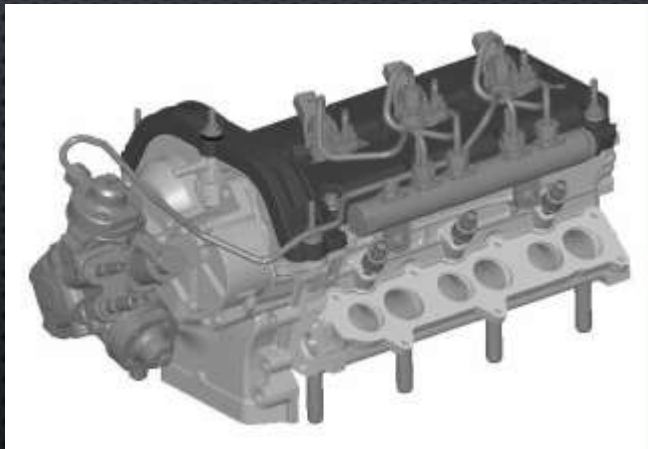
RAPID PROTOTYPING

AUTOMOTIVE

ENGINE DRAWINGS (DMU)

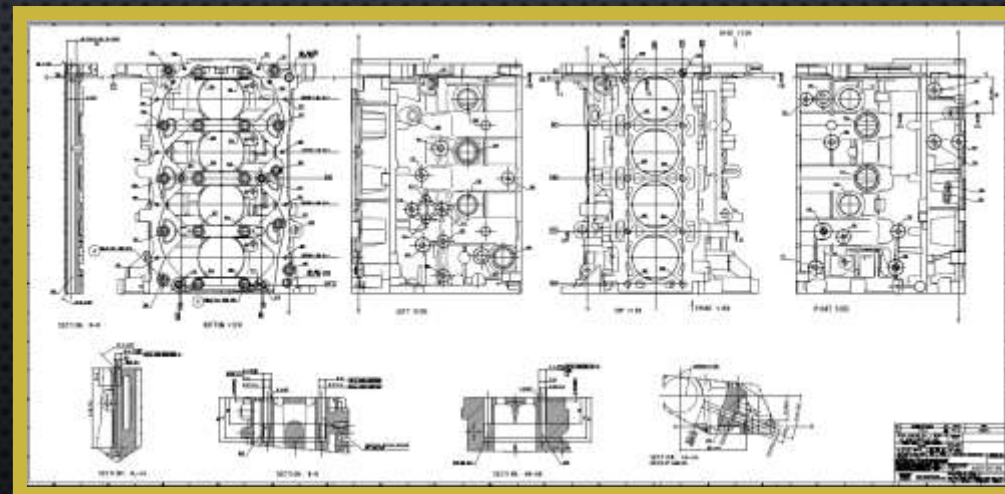
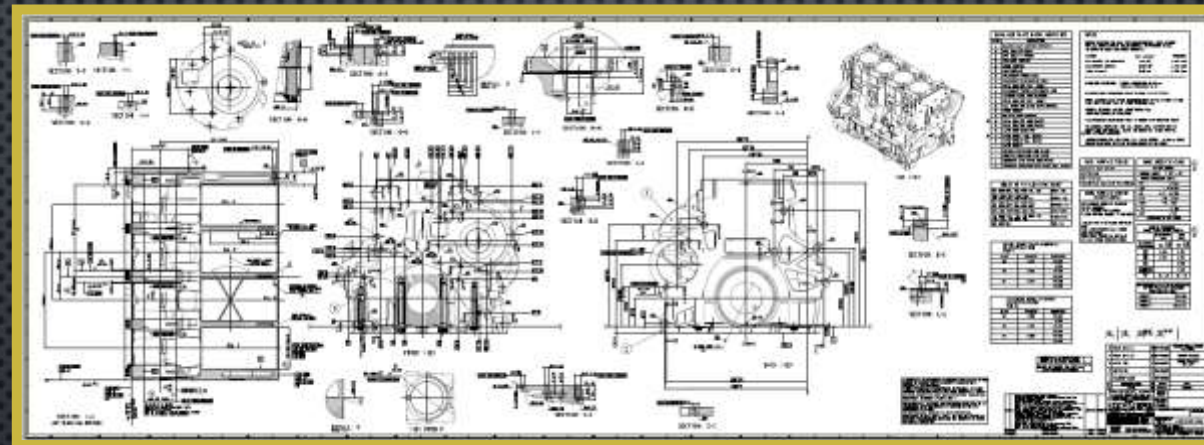


3D Models

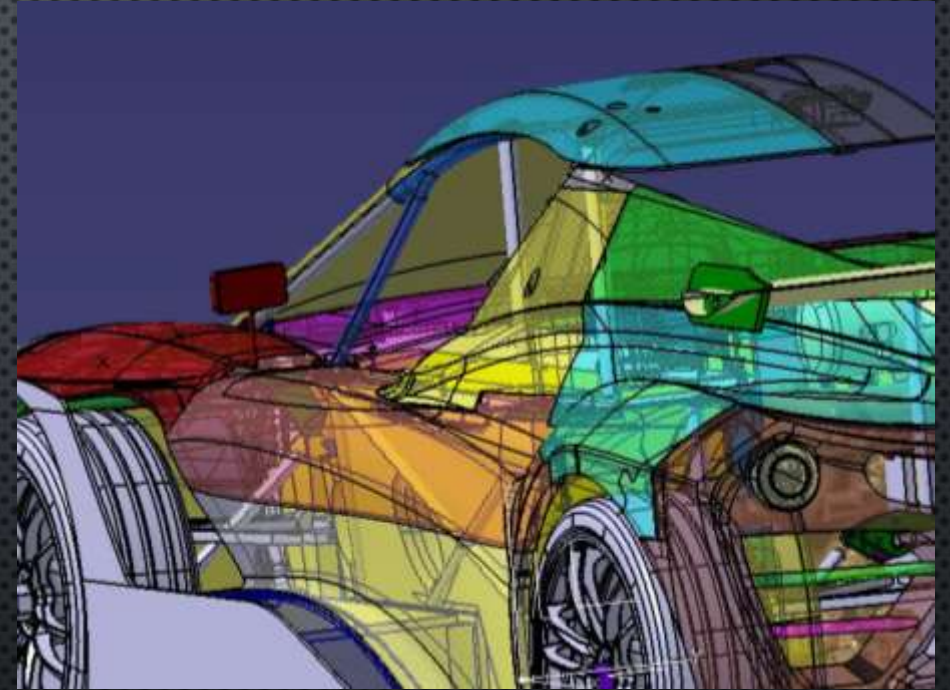


AUTOMOTIVE

2D DRAWINGS

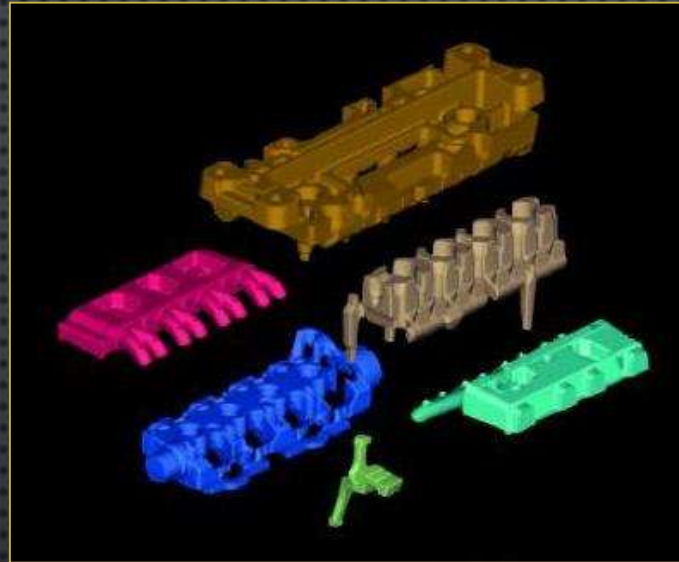


BODY , CHASSIS , EXTERIOR and INTERIOR DESIGN



FOUNDRY

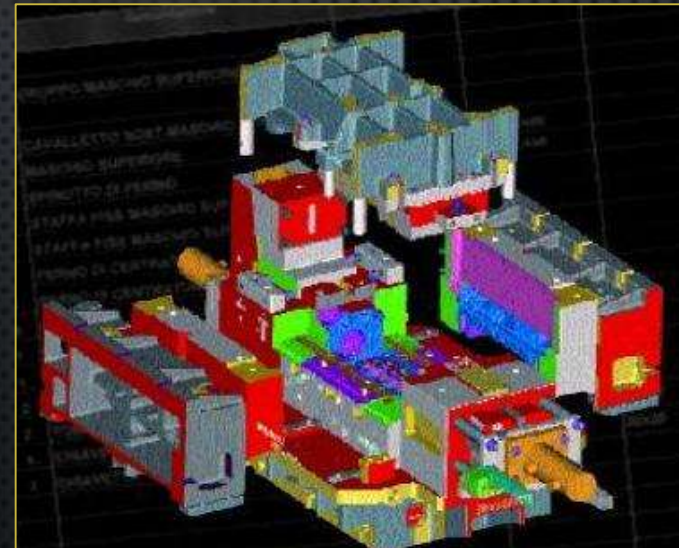
CORE MODELS



Aluminium, cast iron,
magnesium

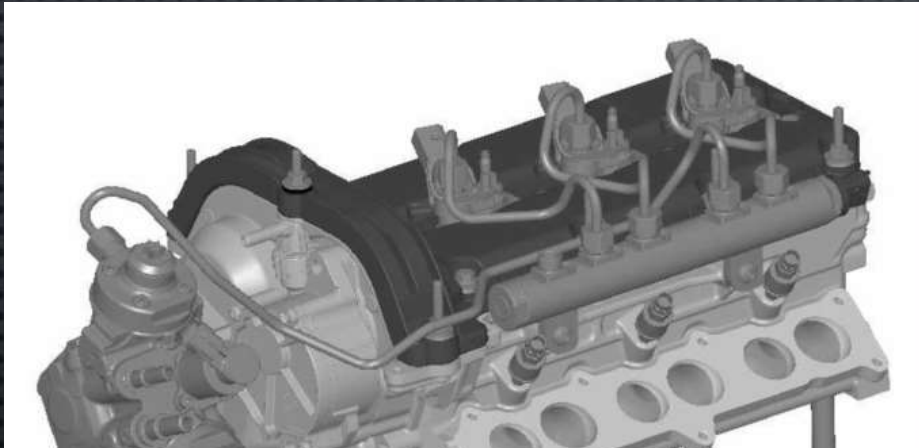
Gravity casting, sand
casting, Die casting

TOOLING MODELS



PLASTIC COMPONENTS

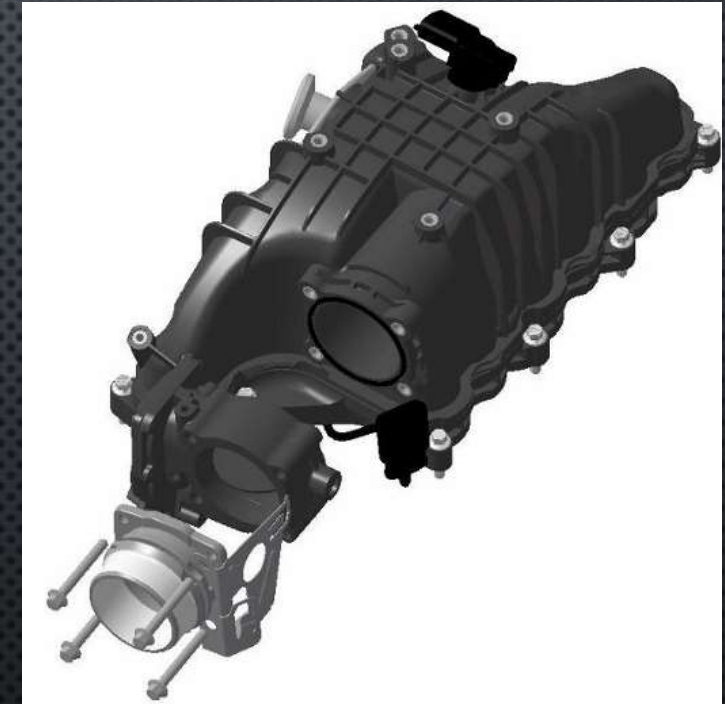
CAM COVERS



ABS, PVC, PP (Polypropylene),
PE (Polyethylene)

Thermoplastic injection

INTAKE MANIFOLDS

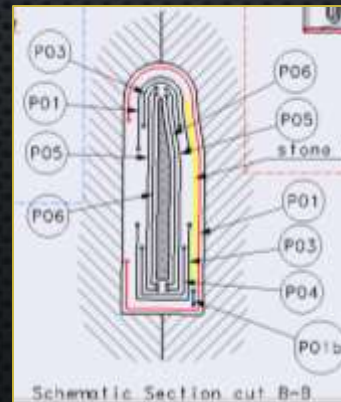


COMPOSITE MATERIALS

ACAD Engineering has been offering F1 services on composite and mechanical design since 2011:

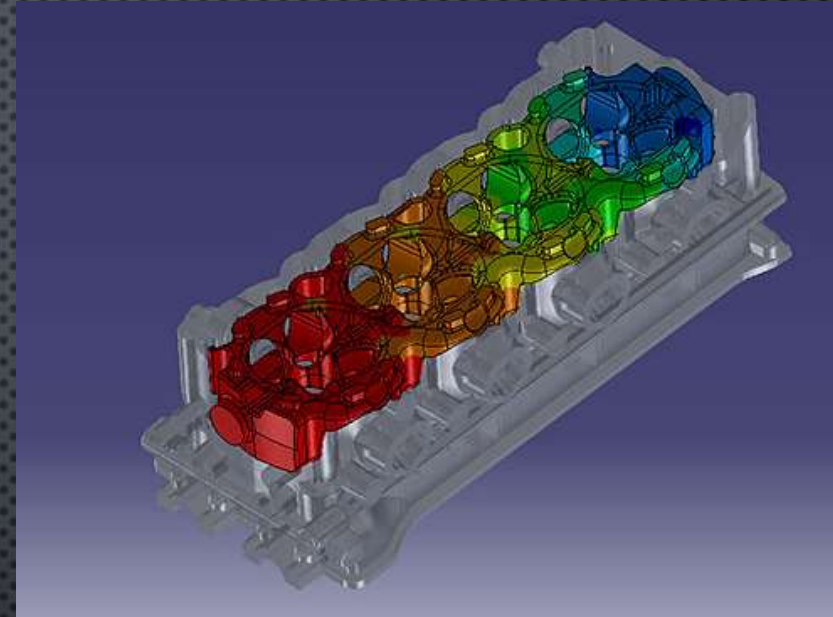
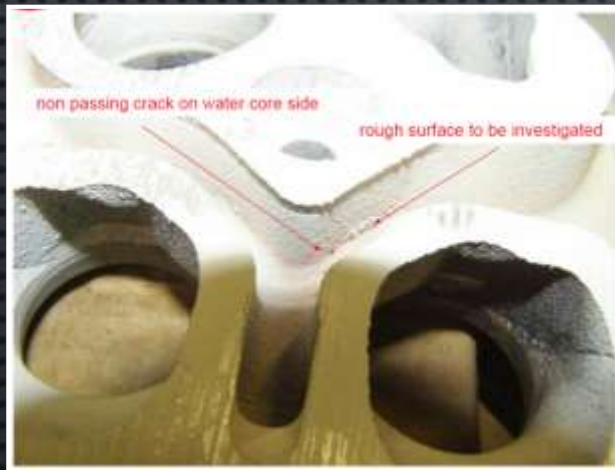
- Steering system, suspension system, FIA test tool
- Aerodynamics composite Front Wing, Rear Wing & Brake Duct
- Body composite Internal Bonnet, external COKE
- Structural Composite Suspension system (RWB, FWB, PULL-ROD, TRACKROD)

All composite design is related with PLY 3D structure and PLY-BOOK Description



STRUCTURAL ANALYSIS

RESULTS



UPDATE MODEL AFTER ANALYSIS RESULTS



ENGINE CALIBRATION

OUR SUPPORT ON CUSTOMER'S SITE:

ENGINE CALIBRATION

AFTER TREATMENT CALIBRATION

PERFORMANCE AND ECONOMY
CALIBRATION

RAPID PROTOTYPING

LOM – 3D Printing



MAXIMUM DIMENSIONS

400 x 350

We can weld parts in
larger dimensions

Stereo lithography
system

2000 x 1000

This technology, unlike other rapid prototyping systems, allows the creation of completely functional and modifiable prototypes so that they can be used by the designer, for an immediate geometric functional check on the product.

For prototype creation, the software requires a STL file which can be created by the customer or realized by ACAD.

The 3D model is sliced with a series of sections and layers, that, deposited in the material, will compose and build the finished prototype.

Models can be realized in different materials:

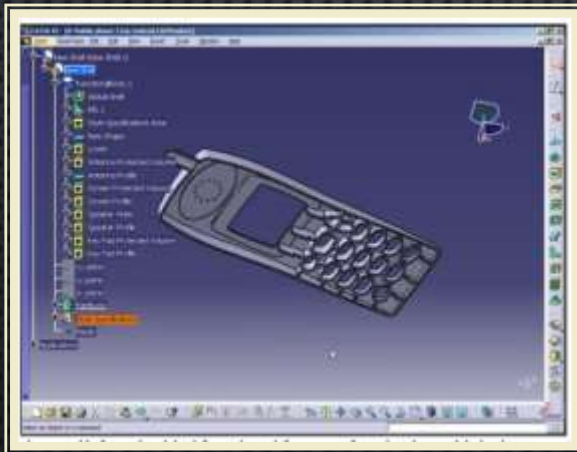
- ABS
- POLYCARBONATE

Thermal resistance varies from 70°C up to 180°C.



RAPID PROTOTYPING

FROM CONCEPT TO PROTO PARTS
USING MATHEMATICAL MODELS AND LAYOUTS



PROTOTYPE MACHINING



Currently in the milling department there are 4 CNC milling machines using the CAD / CAM 3D, that allow rapid and high-precision machining of the required prototypes

MAXIMUM MILLING PLANE DIMENSIONS
1800 X 700

CAM PROCESS



MILLING PHASE



PARTS CHECK



ASSEMBLY



SERVICES

**CONSULTING AND DESIGN ON OUR
CUSTOMERS' SITES**

**3D MODELING OF VARIOUS
COMPONENTS RELATED TO THE
STANDARDS REQUIRED**

**COMPONENTS DRAWINGS RELATED TO
THE STANDARDS REQUIRED**

COMPONENTS ASSEMBLY AND DMU

BILL OF MATERIAL

STRUCTURAL ANALYSIS

OUR CUSTOMERS

DIRECT SUPPLIERS



OUR CUSTOMERS INDIRECT SUPPLIERS



LOCATIONS

REGISTERED OFFICE

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www.acad-engineering.com