



TECHNICAL PRESENTATION



SECTORS

AUTOMOTIVE

FOUNDRY

PLASTIC MOLDING

COMPOSITE MATERIALS

STRUCTURAL ANALISYS

PRINTING MACHINES

GEAR AND TRASMISSIONS

MACHINE TOOLS

RAPID PROTOTYPING

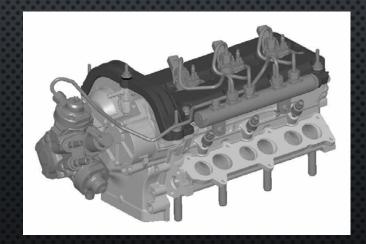


AUTOMOTIVE

ENGINE DRAWINGS (DMU)



3D Models

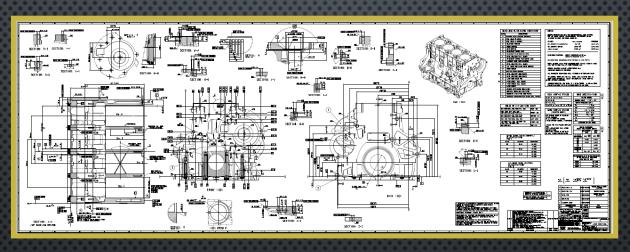


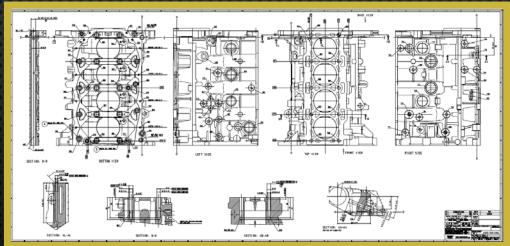




AUTOMOTIVE

2D DRAWINGS

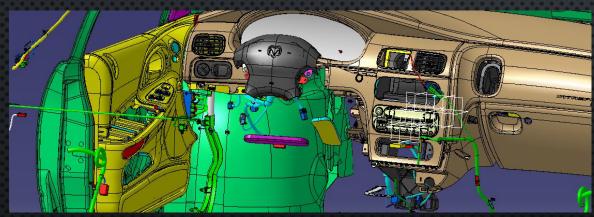


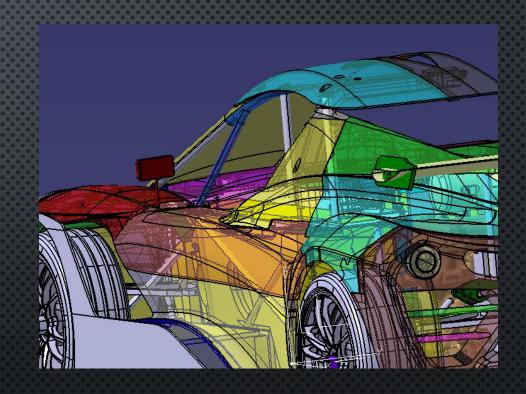




BODY, CHASSIS, EXTERIOR and INTERIOR DESIGN



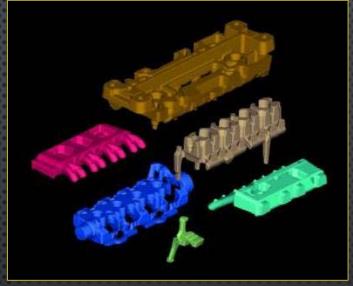






FOUNDRY

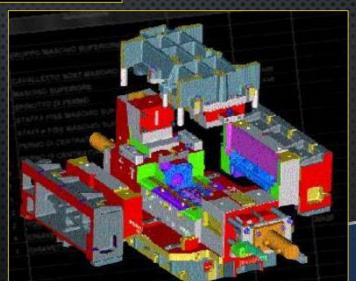
CORE MODELS



Aluminium, cast iron, magnesium

Gravity casting, sand casting, Die casting

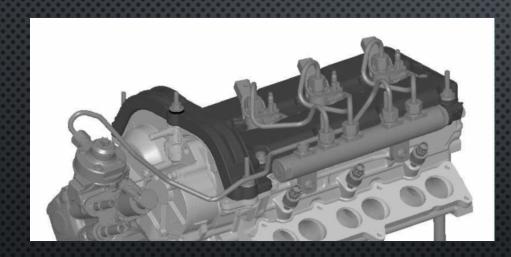
TOOLING MODELS





PLASTIC COMPONENTS

CAM COVERS



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

Thermoplastic injection

INTAKE MANIFOLDS



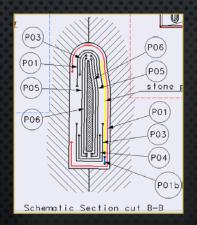


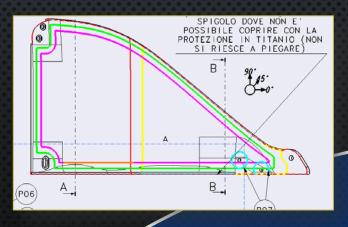
COMPOSITE MATERIALS

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





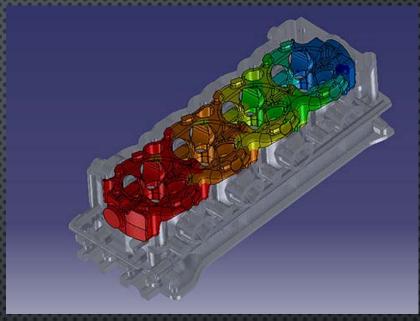


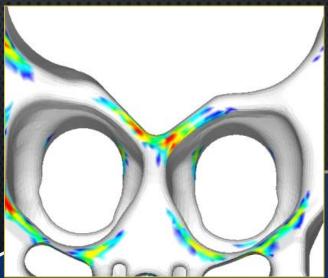
STRUCTURAL ANALYSIS

RESULTS



UPDATE MODEL AFTER ANALYSIS
RESULTS







ENGINE CALIBRATION

OUR SUPPORT ON CUSTOMER'S SITE:

ENGINE CALIBRATION

AFTER TREATMENT CALIBRATION

PERFORMANCE AND ECONOMY

CALIBRATION

SOFTWARE

- Puma Avl
- Indycom Avl
- Inca's Etas Bosch –ECU interface
- GT-Suite/GT-Power V7.0



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

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









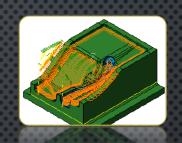
PROTOTYPE MACHINING



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

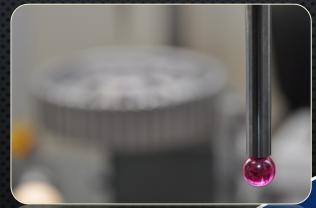


MILLING PHASE

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

CATIA – UNIGRAPHICS – PRO.E TRAINING



SOFTWARES

STRUCTURAL ANALISYS

NASTRAN

HyperMesh

MANAGEMENT

Windows Tools
Windows PROJECT

CAD SYSTEM

PRO.ENGINEER CREO 3.0

UNIGRAPHICS NX

CATIA V5
AUTOCAD
SOLID EDGE / WORKS
ALIAS – MAYA – ICEM SURFACE



OUR CUSTOMERS DIRECT SUPPLIERS























OUR CUSTOMERS INDIRECT SUPPLIERS











LOCATIONS

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