

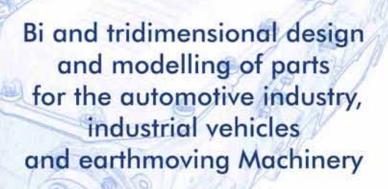
Contact



St. Carpice, 34 10024 Moncalieri (TO), Italy

Phone: (+39) 011.6468111 a.r.

Fax: 011.6468160 E-mail: info@detaeng.it Web site: www.detaeng.it





Via Luigi Carlo Farini,56 41121 Modena (MO), Italy

Phone: (+39) 011.6468180 a.r. Fax: 0116468190

E-mail: info@detaeng.it Web site: www.detaeng.it



DETA company profile

DETA S.r.I. is an engineering companies developing their activities in automotive field, industrial vehicles and train vehicles.

Established in 1981 hold a great experience and knowledge in automotive field both about engines and chassis and about specific mechanical components and has an internal staff with a great background and know-how.

As part of the engine design, the main collaborations are taking place with FPT POWERTRAIN, FPT Industrial, G.M., CRF (Ruggerini Engine, LOMBARDINI Engine Twin cylinder 440 cm3 - Petrol - Diesel - LPG for small cars) Isotta Fraschini (Series marine engine speed), SEATEK (marine engine racing), PIAGGIO VE, DE TOMASO.

In the field of mechanical design (chassis, steering, suspension, transmissions, gearboxes, bridges, axles, exhaust systems, exhaust, coolant, engine installation, air conditioning and heating, pneumatic and hydraulic systems on board the vehicle, etc..)

we have partnered with leading manufacturers such as Fiat Auto, CASE NEW HOLLAND, FKI Komatsu, IVECO, Irisbus, Abarth, PIAGGIO VE.



DETA company profile

In train field, working in strictly collaboration with customer, DETA specialized itself in engineering, design and developing of:

BOGIES

MECHANICAL APPARATUS INSTALLATIONS (ELECTICAL AND DIESEL TRACTION)

(\$10) TO (\$10)

PNEUMATIC SYSTEMS INSTALLATIONS

ELECTRIC SYSTEMS INSTALLATIONS

COFFER STRUCTURES

FURNITURES

SPECIAL TOOLS (STORAGE KIT) FOR GROUPS ASSEMBLY AND DISASSEMBLY (TRAFO - INVERTER - DIESEL POWER PACK - ECC)

Key II/W

JAM STALL



DETA company profile

In the area of trucks and buses DETA have an important collaboration with the main Italian manufacturers, that is IVECO, Irisbus Iveco.

In this area, in close cooperation with the customer, DETA is specialized in the design and development of mechanical components (engine compartment, chassis and body shell, suspension, steering, etc. ...), the installations, equipment body (accommodations seats and handrails; interior and exterior trim, etc ...) and finite element structural analysis. The main work carried out in recent years in the field of passenger transport buses have covered the following vehicles with engines

Diesel - Gas - Electric - Hybrid:

Gamma SPR (Eurocargo, Eurostar);
Daily evolution from Gamma S 2000 to Model Year 2014;
CITYCLASS URBAN 10M Diesel and CNG IRISBUS;
CITYCLASS URBAN 12M Diesel and CNG IRISBUS;
CITYCLASS URBAN articulated 18M Diesel and CNG IRISBUS;
CITYCLASS HYBRID 12M IRISBUS;
CITYCLASS HYBRID 12M IRISBUS;
CITELIS URBAN 10M Diesel and CNG IRISBUS;
CITELIS URBAN 12M Diesel and CNG IRISBUS;
CITELIS URBAN articulated 18M Diesel and CNG IRISBUS;







QUALITY ASSURANCE

DNV-GL

MANAGEMENT SYSTEM CERTIFICATE

Si certifica che il sistema di gestione di/This is to certify that the management system of

DETA S.r.l.

Strada Carpice, 34 + 10024 Moncalieri (TO) - Italy

È conforme ai requisiti della norma per il Sistema di Gestione Qualità/ has been found to conform to the Quality Management System standard:

UNI EN ISO 9001:2008 (ISO 9001:2008)

Questa certificacione à valida per il segueste campe applicative:

Progettazione e modellazione bi e tridimensionale di componenti per l'industria sutomobilistica, veicoli industriali e macchine movimento terra

This certificate is valid for the following scope:

Bi and three-dimensional design and modelling of parts for the automot industry, industrial vehicles and earth moving machinery

Commission, 53 ethicker 2019

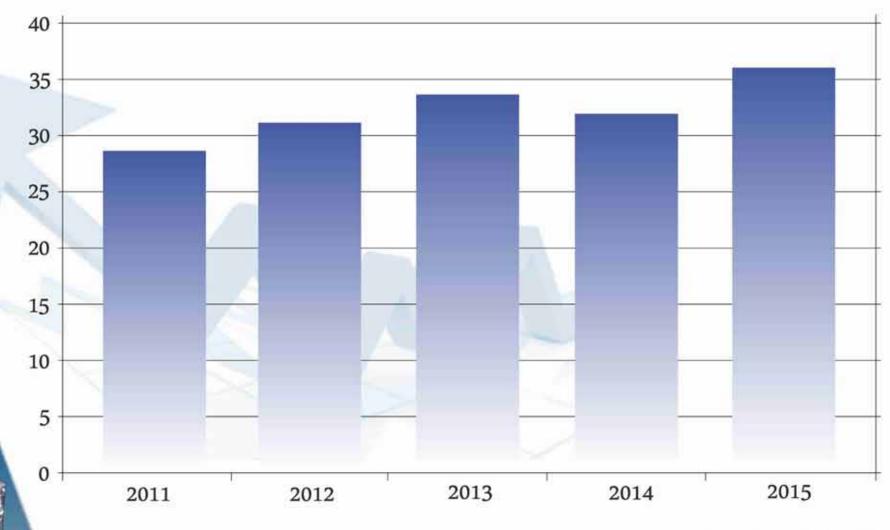


William Marwigen Management Represent

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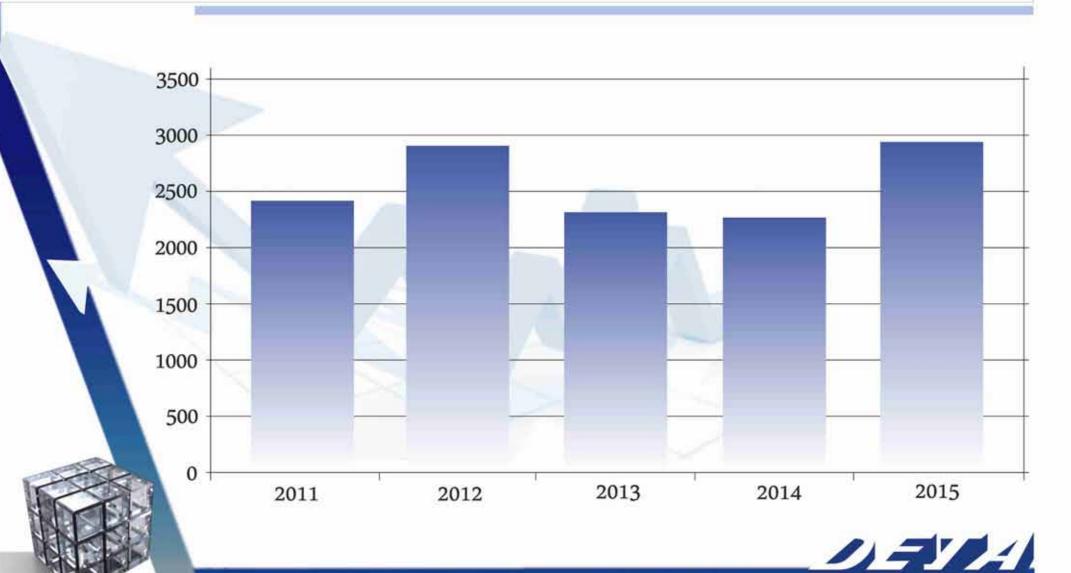
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Workers





Turnover



DETA Technical equipment

Deta is equipped with state of the art software and hardware technologies.

CAD software used for design and modeling:

IBM Dassault - Catia

PTC - Pro/ENGINEER

UGS - Unigraphics

AutoCad

Solidwork

Software used for FEM analysis:

PRE e POST processor - HYPERMESH

LINEAR SOLVERS - NASTRAN AND ANSYS







Structural analysis types



Strength, Durability & Misuse:

- Strength

- Durability (Static and Dynamic Approach)

- Misuse (mechanical, thermal, couple thermo-mechanical)

Crashworthiness:

- Full Scale impacts

- Pedestrian impacts

- Subsystems performance evaluation

Optimization:

- Optimization (Size&Shape, Topological, Topographical, Morphing,....)

- Multidisciplinary Optimization

- Multi Objective Optimization

NVH (Noise, Vibration, Harshness):

- Modal

- DFR

- Transient

CFD:

- CFD

- Structural/CFD coupled analysis (one way)

- Structural/CFD coupled analysis (two way)



DETA main customers



































































































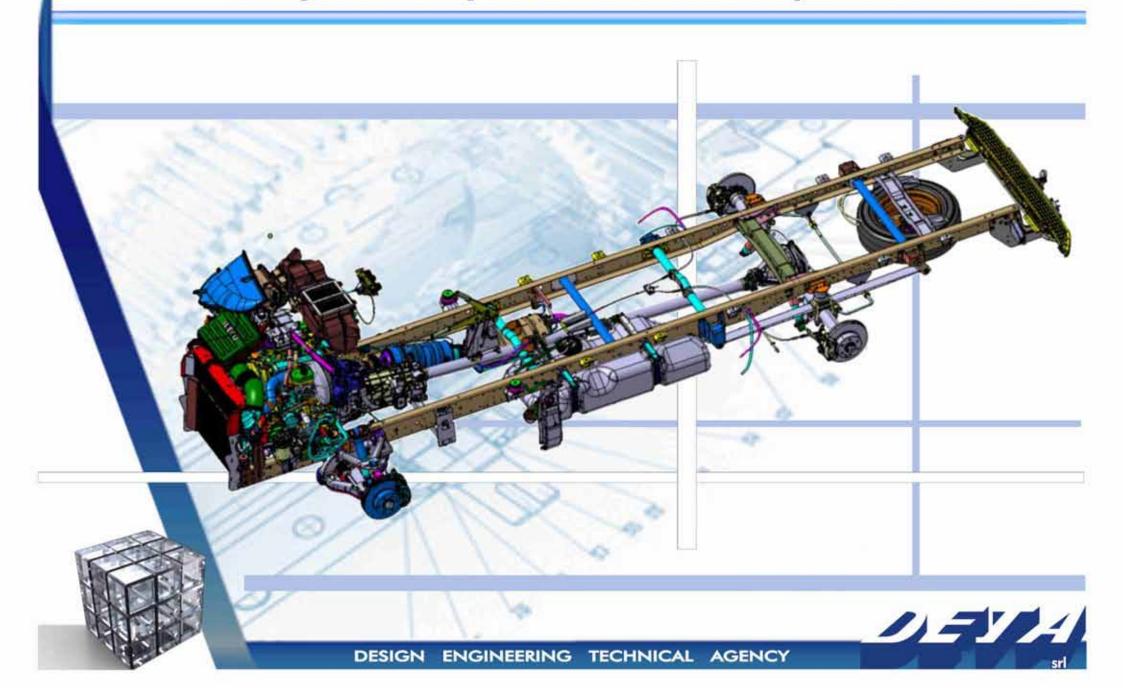


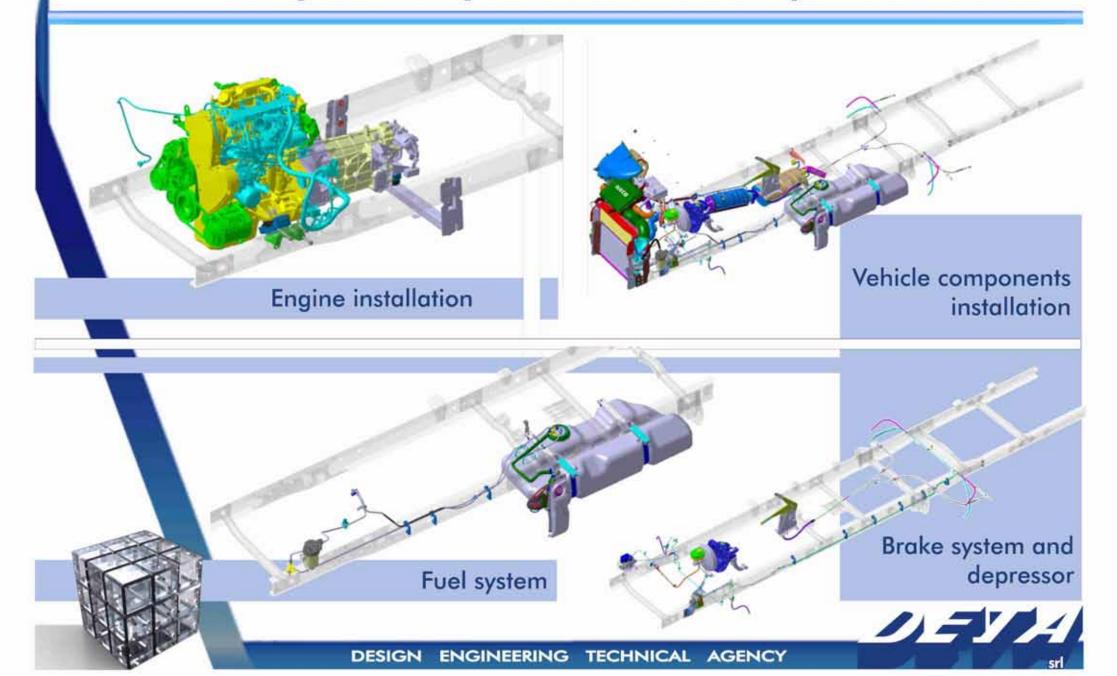


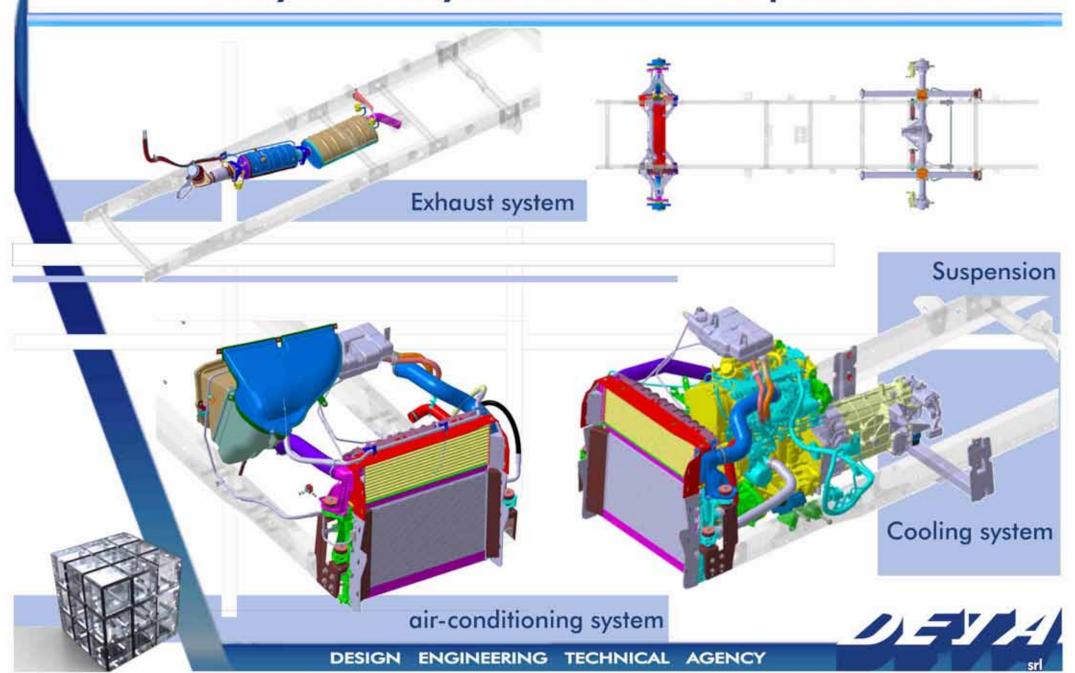


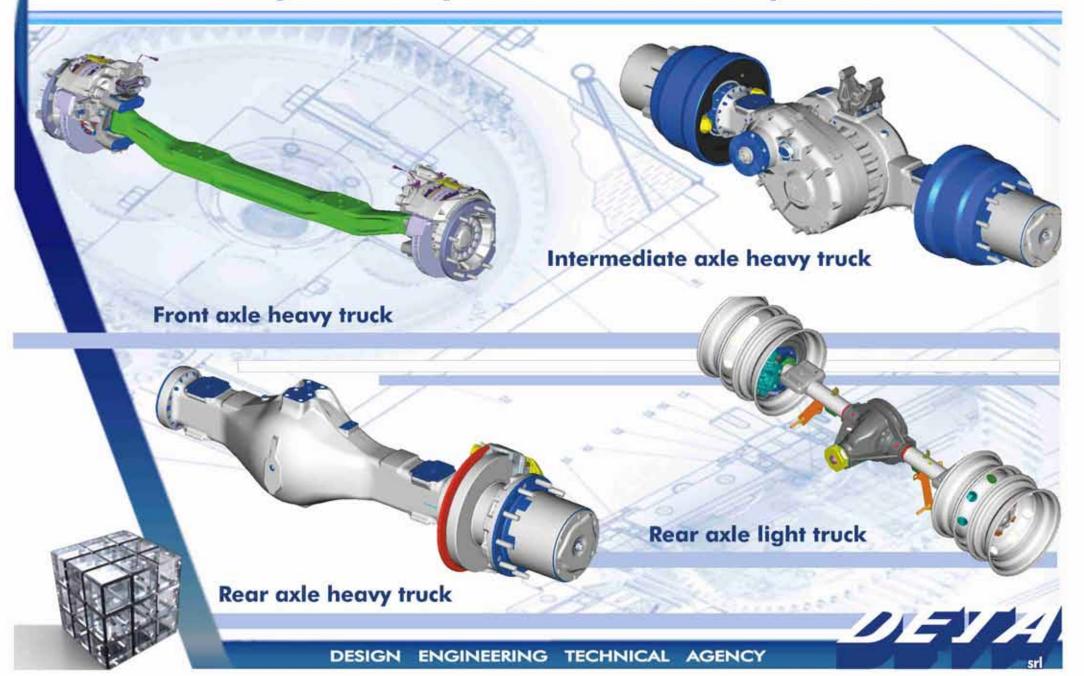




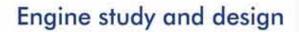


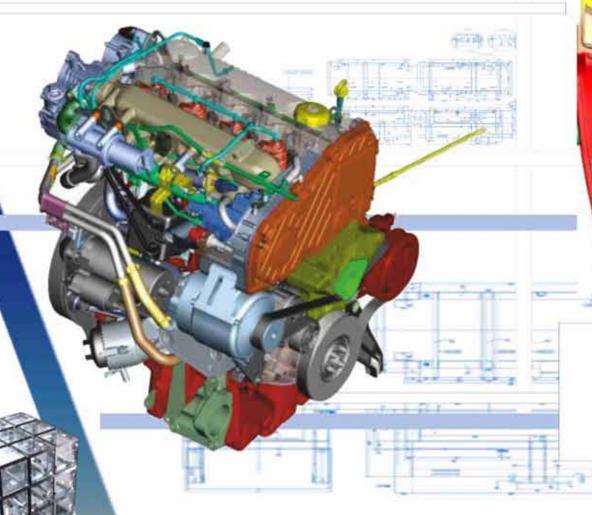






Engines

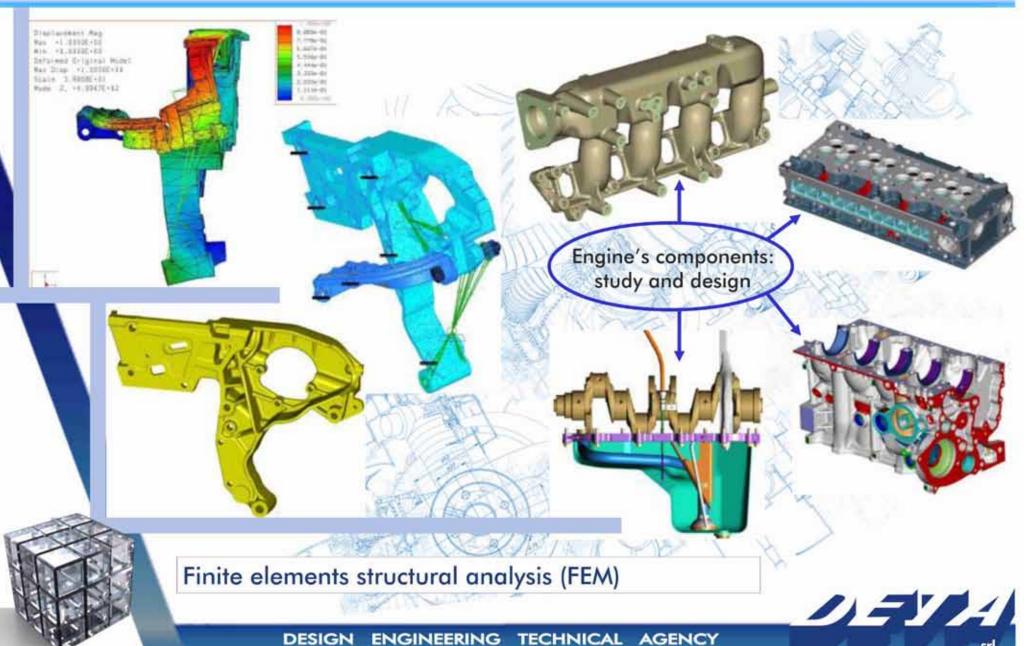






Engine's layout and fitting on specific vehicle

Engine's components



Engine design for specific installations

Engine 6 Cylinder Marine - 9000 cc. - Power 390 Hp For Automotive, Agricultural and Marine Version



Automotive 2002 - 2004

- Centrifugal Blo_by filter
- Injection system with Hp Pump And common-rail
- EVGT or WG Turbocharger
- Suspension Oil sump



Agricultural - CLAAS 2007 – 2008

- Centrifugal Blo_by filter
- Injection system with Hp Pump And common-rail
- EVGT or WG Turbocharger
- Structural oil sump with integrated Oil suction



Agricultural - CNH 2007 – 2009

Centrifugal Blo_by filter

 Injection system with Hp Pump And common-rail

- EVGT or WG Turbocharger

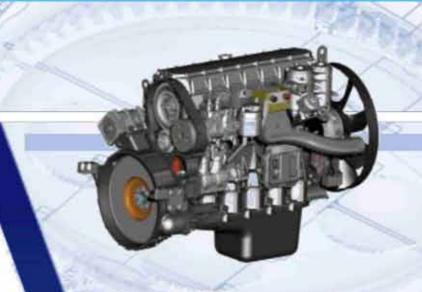
- Additional oil pump for High gradients
- Suspension Oil sump



- Centrifugal Blo_by filter
- Injection system with Hp Pump And common-rail
- EVGT or WG Turbocharger
- Structural oil sump
- Cooling system with intercooler aftercooler and heat exchanger, With sea water



Engine design for specific installations



Engine 6 Cylinder - 16000 cc. – Power 600 Hp For Automotive Application 2007 – 2009

- Centrifugal Blo_by filter
- Injection system with Hp Pump And common-rail
- EVGT or WG Turbocharger
- Suspension Oil sump

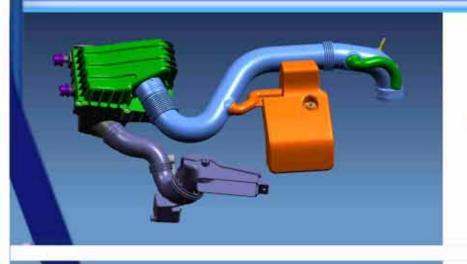
Engine 6 Cylinder - 11000 cc. – Power 450 Hp For Automotive application 2008 – 2010

- Centrifugal Blo_by filter
- Injection system with Hp Pump And common-rail
- EVGT or WG Turbocharger
- Suspension Oil sump





Engine's air intake systems



Manufactury engineering of the components

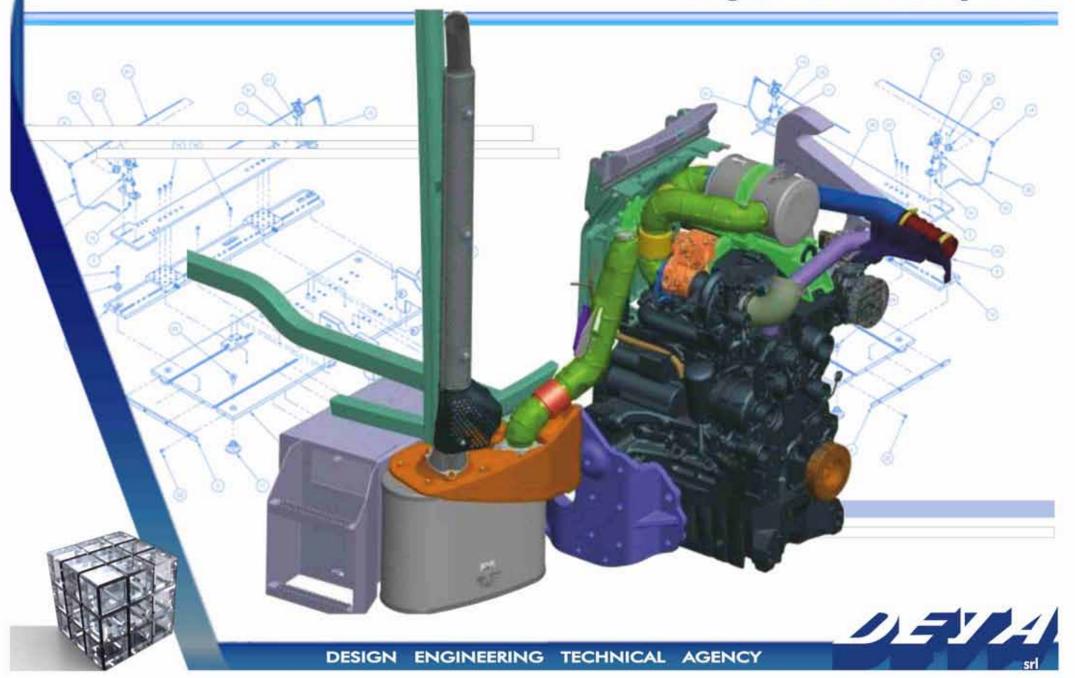


ENGINEERING TECHNICAL AGENCY

Engine's exhaust systems



Engine's exhaust systems



Engine and exhaust system specific installations

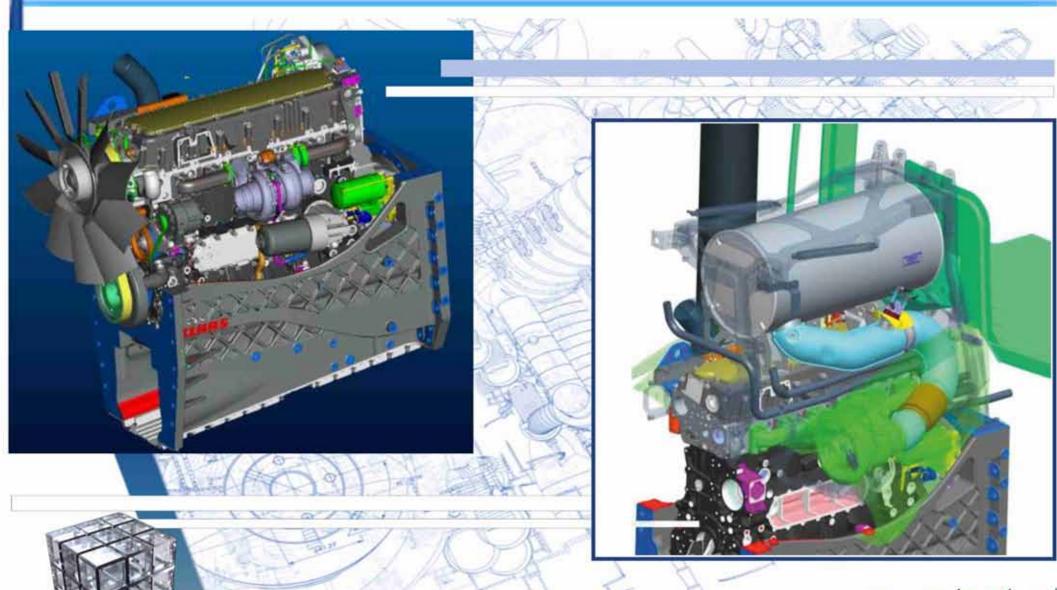




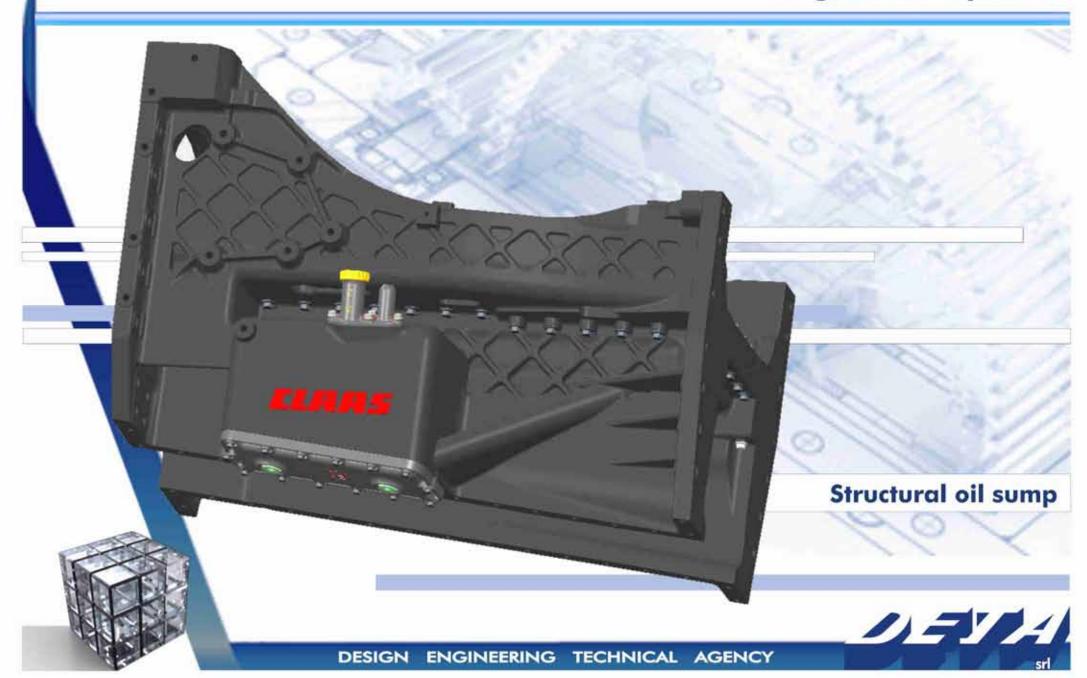
Cursor 9 layout and fitting on CLAAS ACTION 950 Tractor



Engine and exhaust system specific installations

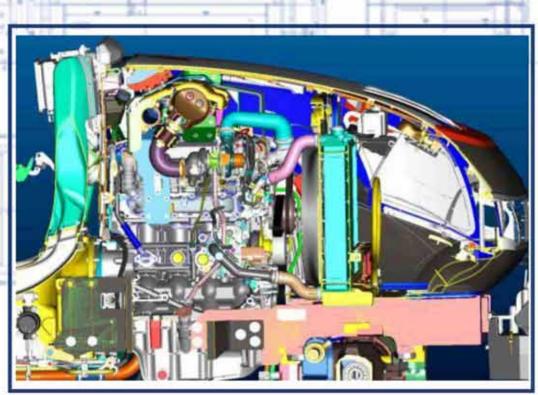


Engine's component



Engine specific installations





F5 layout and fitting on CNH Utility Light Tier4



Earthmoving machines



Design of earthmoving machines:

- excavators
- skid loader
- · cabs





IVECO: Engine compartment development

