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Modellizzazione e Prototipazione Virtuale in SACMI Imola Divisione Ceramics & Tiles

Cova Matteo
Gigli Luca

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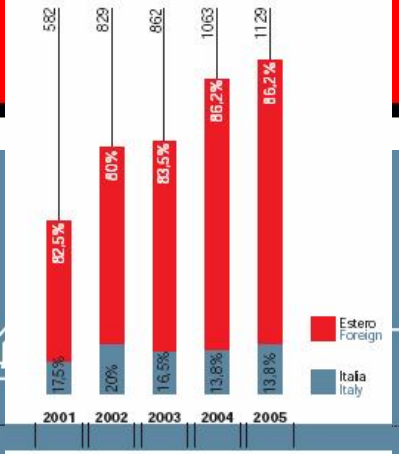
Il Gruppo SACMI



Ricavi delle vendite e delle prestazioni
(in milioni di Euro)

Revenue from sales and services
(in millions of Euros)

NEGRI BOSSI
BM BIRAGHI
OMA

SACMI IMOLA
SACMI FILLING
SACMI LABELLING
SACMI LABELLING SCM
SACMI PACKAGING
BENCO PACK

CERAMICS & TILES
SACMI IMOLA
SACMI FORNI
SACMI MOLDS&DIES
SACMI AUTOMATION
KEMAC
KeraTech
LAEIS

WHITEWARE
NIV
GAIOTTO Automation
SAMA
RIEDHAMMER

Gram Equipment
Carle & Montanari
ray tec VISION
ELPO
FBR-ELPO
SACMI IMOLA

PROTOTIPO
ITALIANSPED
PROTESA
SINERGIA

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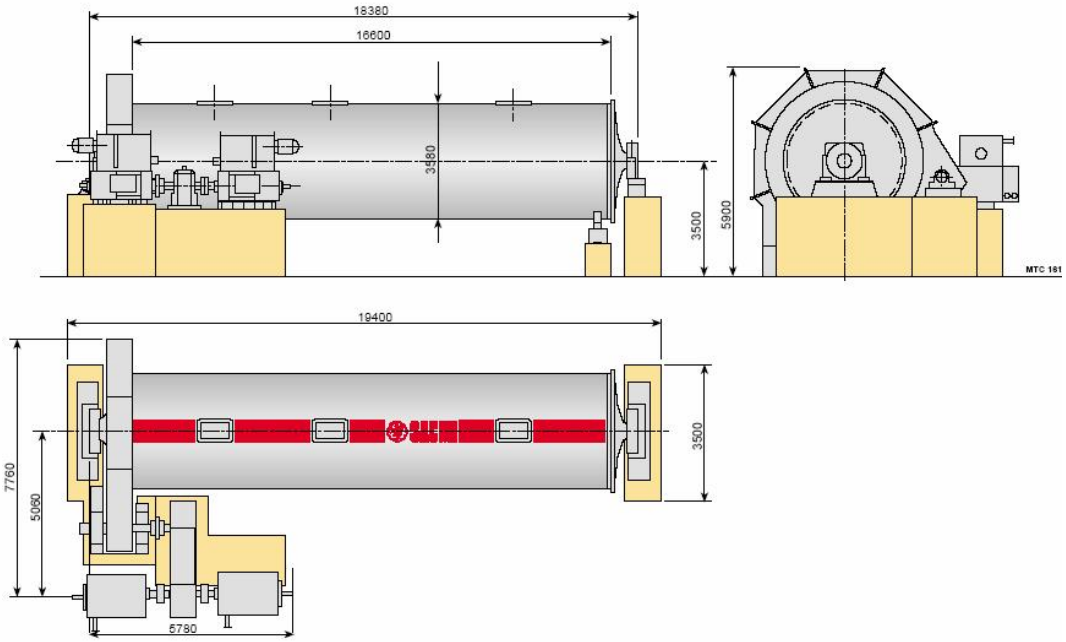
Divisione Ceramics & Tiles

Progettazione e Costruzione di Impianti per la produzione di piastrelle ceramiche



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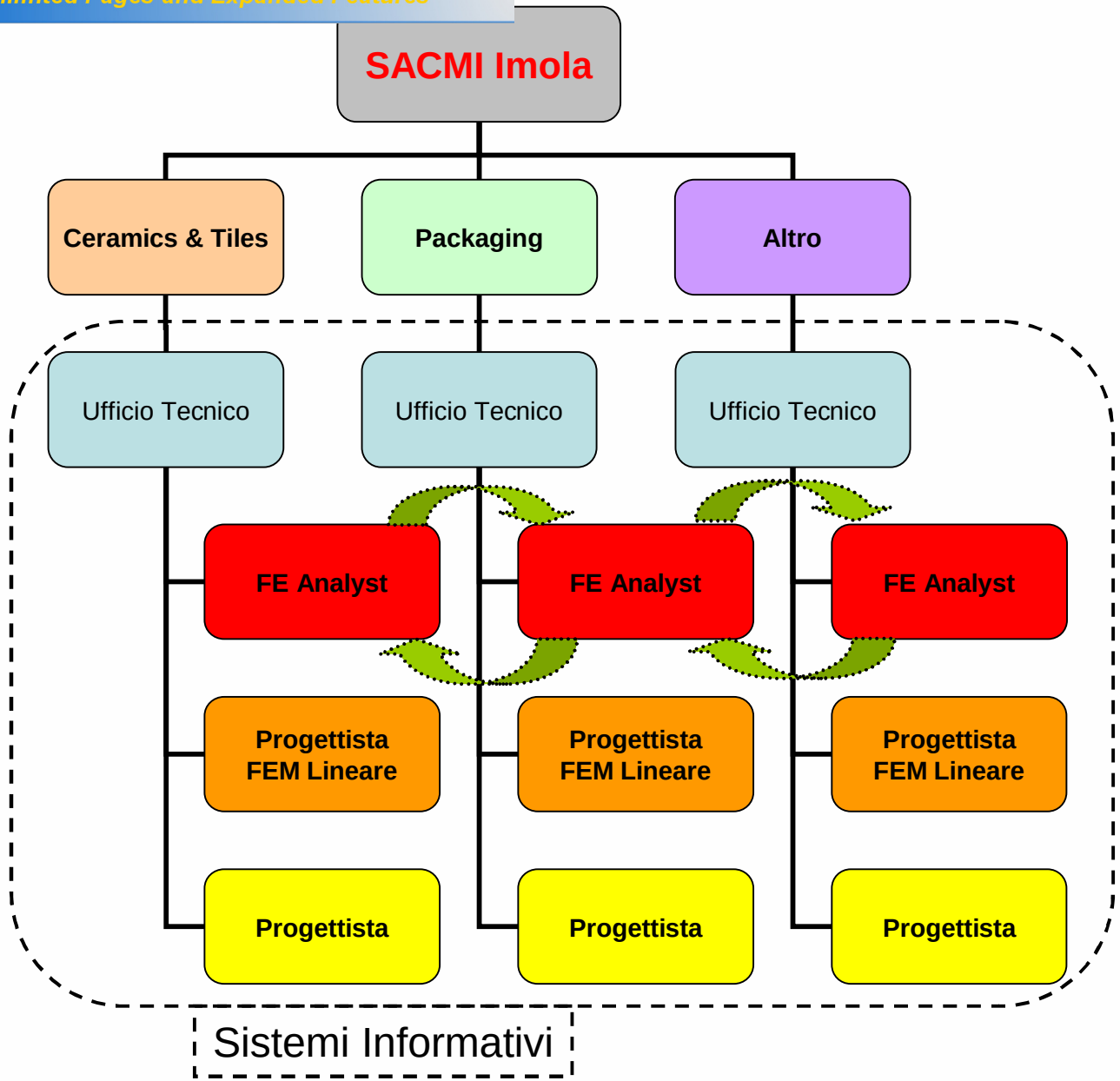
FEA in SACMI ï Aspetti Gestionali



Collegamento con la realtaôprogettuale e produttiva

FEM come strumento ñdidatticoò

Condivisione strumenti, metodologie e strategie

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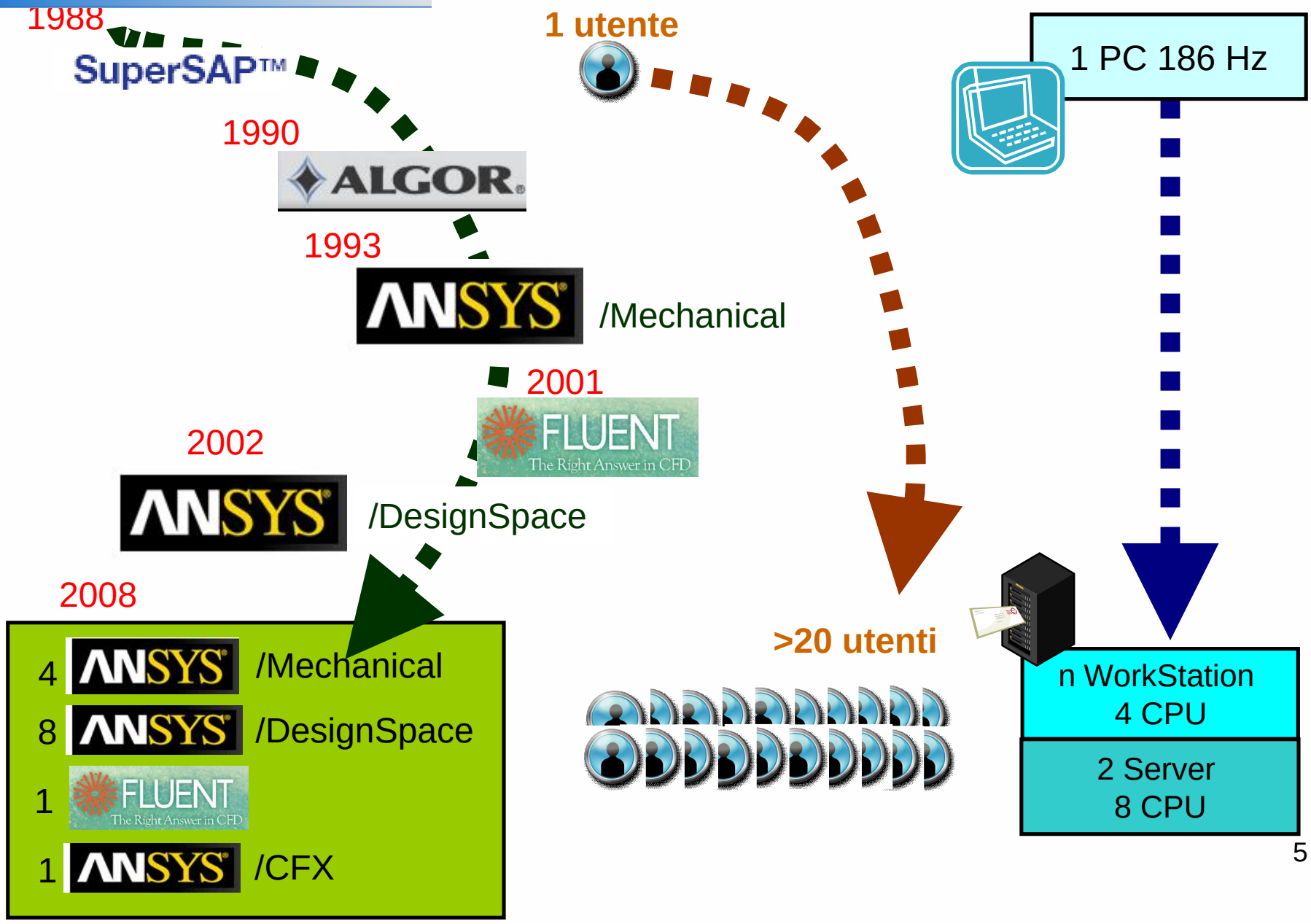
EA in SACMI ï Analisi Strutturale: Storia



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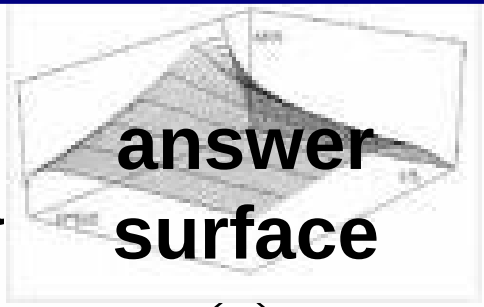
SACMI ï Analisi Strutturale: Ottimizzazione

Parametri Ingresso

nuova scelta parametri verso ottimo

CAD 3D Parametrico

Analisi FEM Parametrica



answer surface

Valutazione Prestazione (Deformazione) - Resistenza

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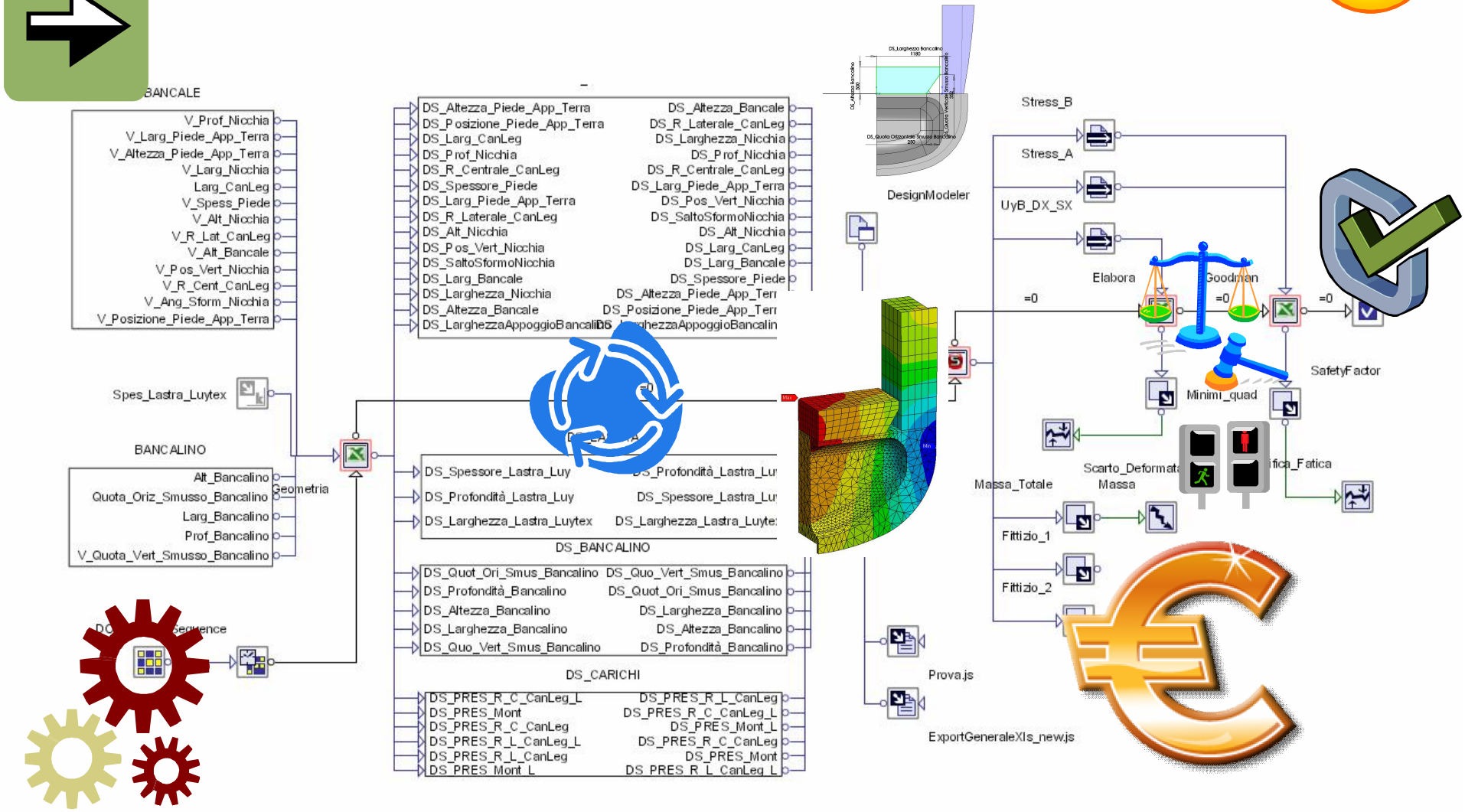

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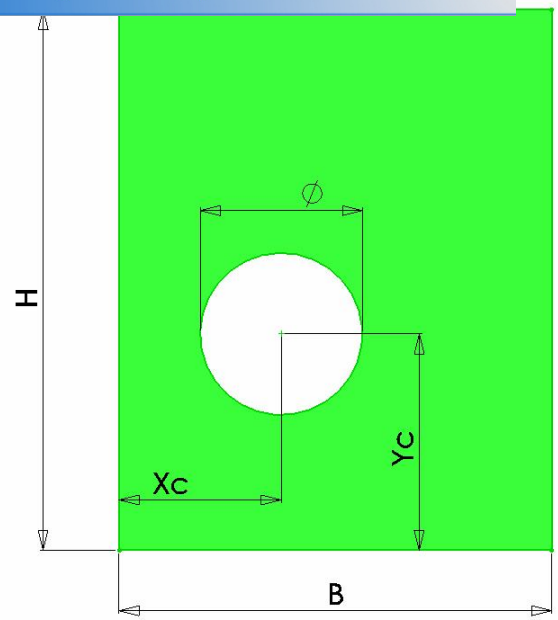
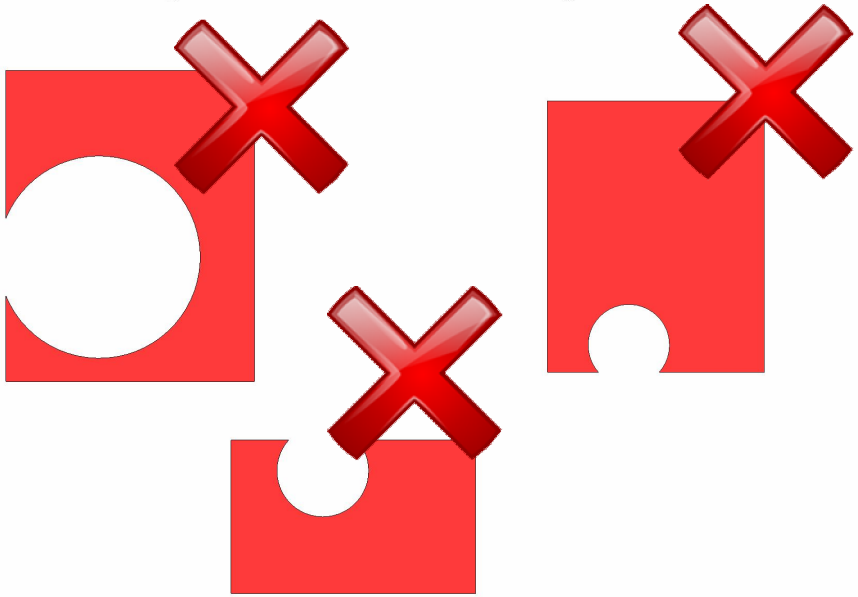
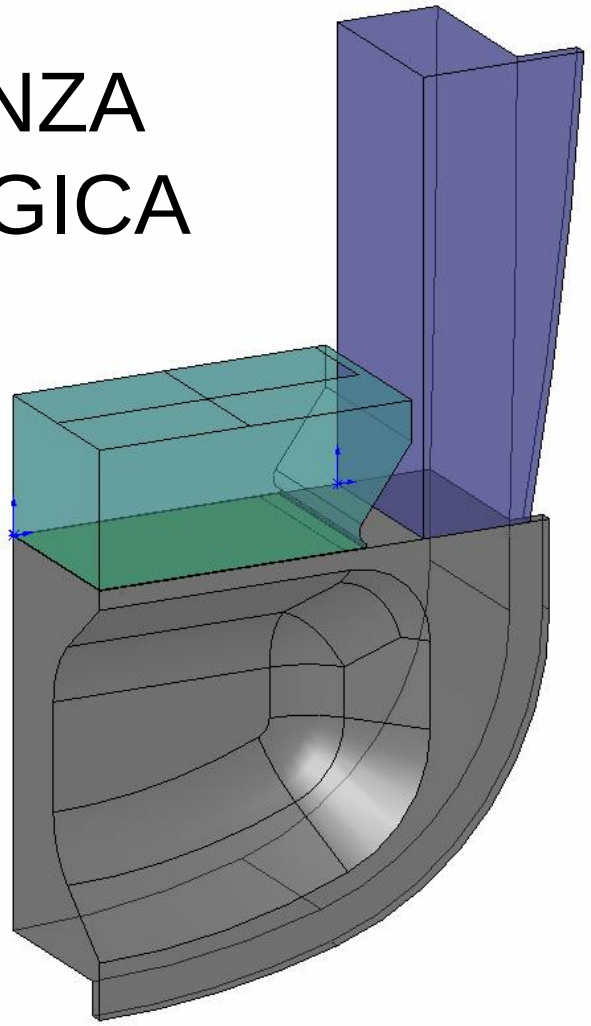


COERENZA TOPOLOGICA !





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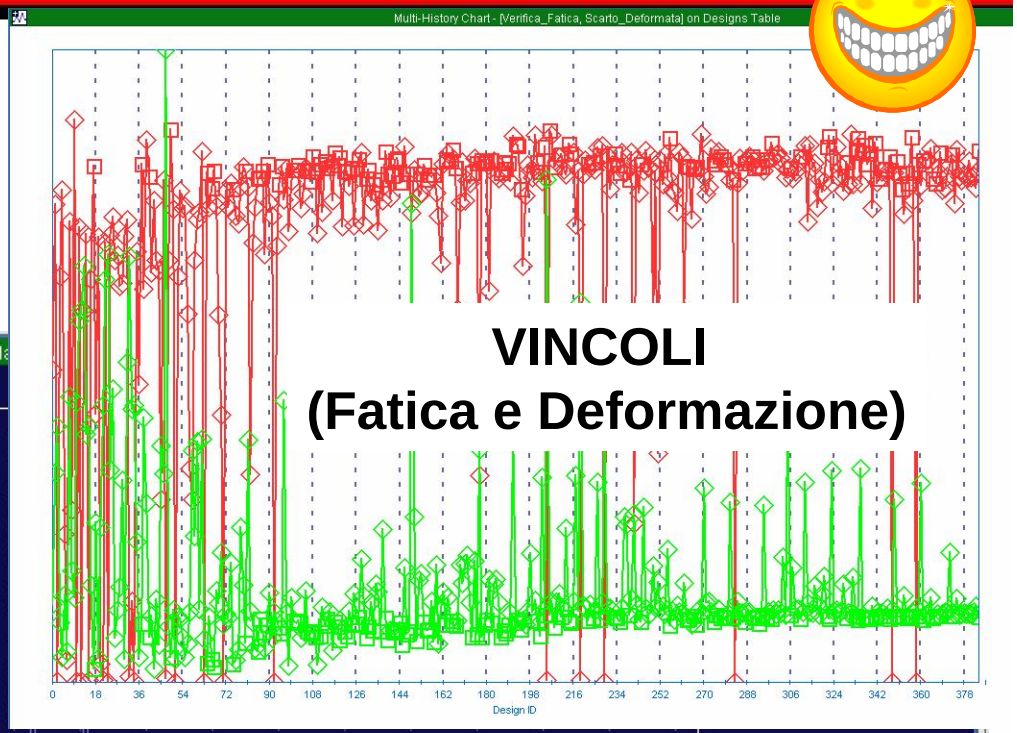

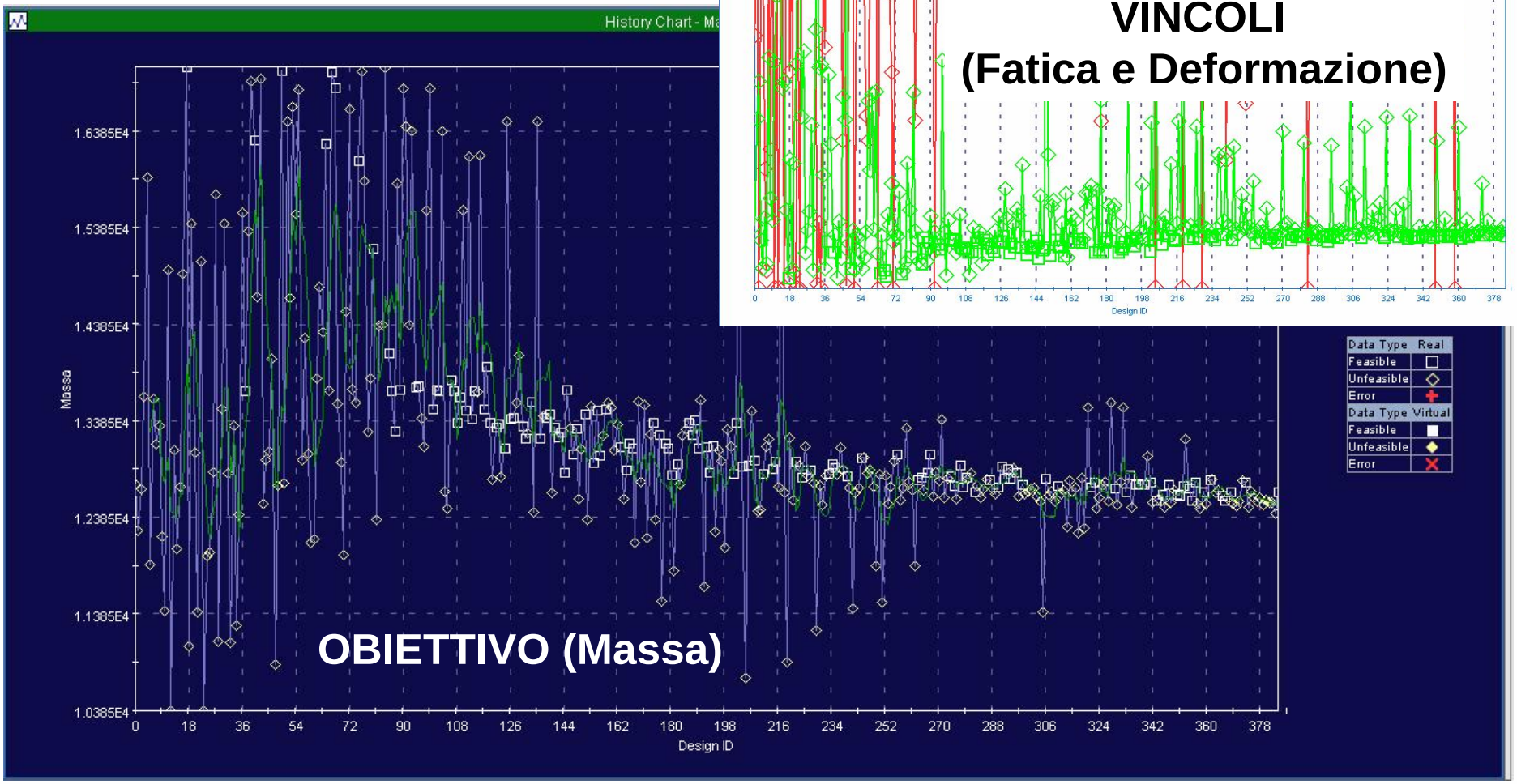

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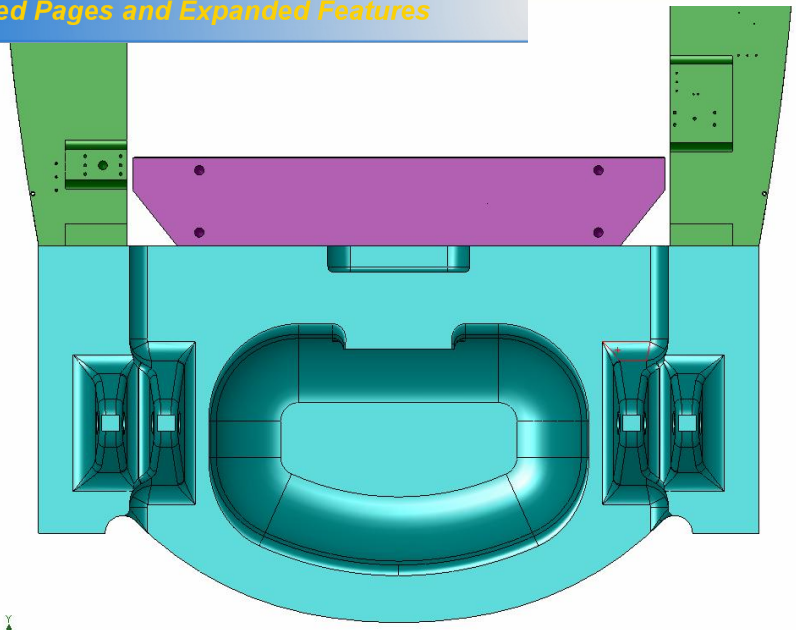
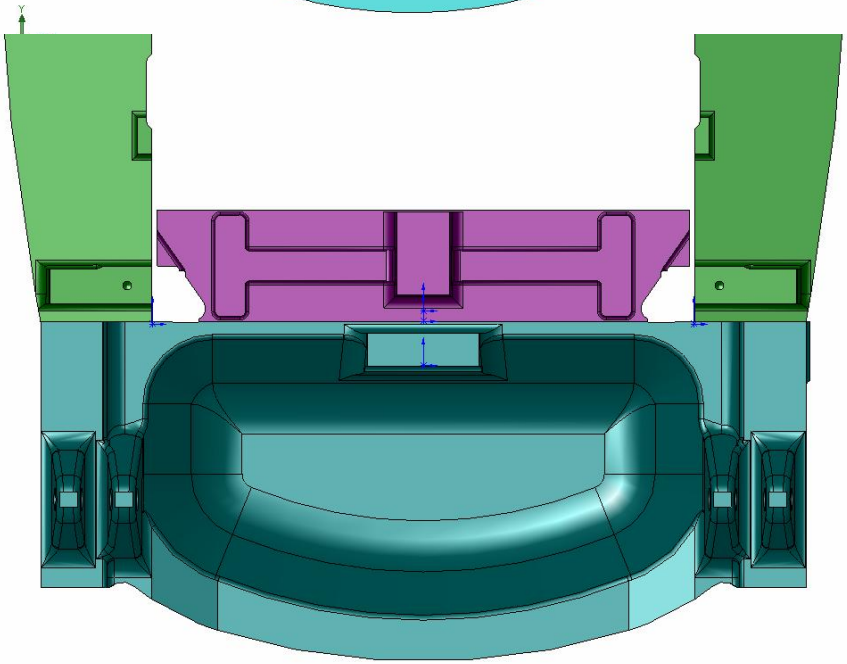




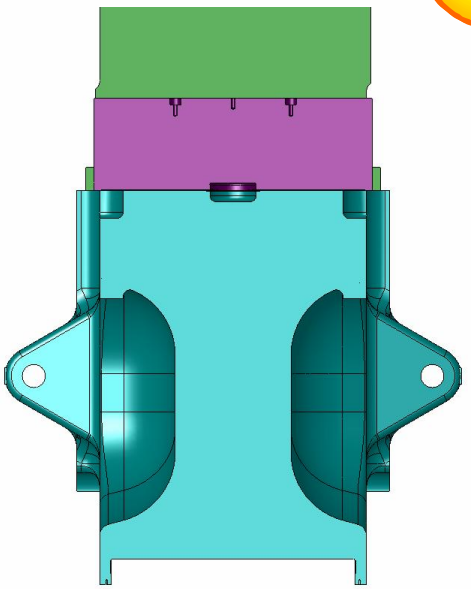
2003

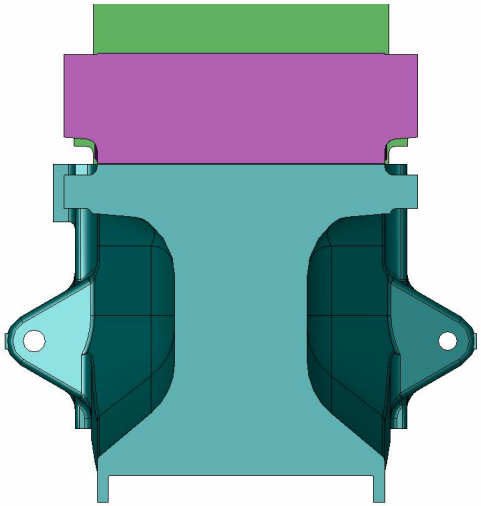
modeFRONTIER

2006

+ 20% resistenza

stesso costo





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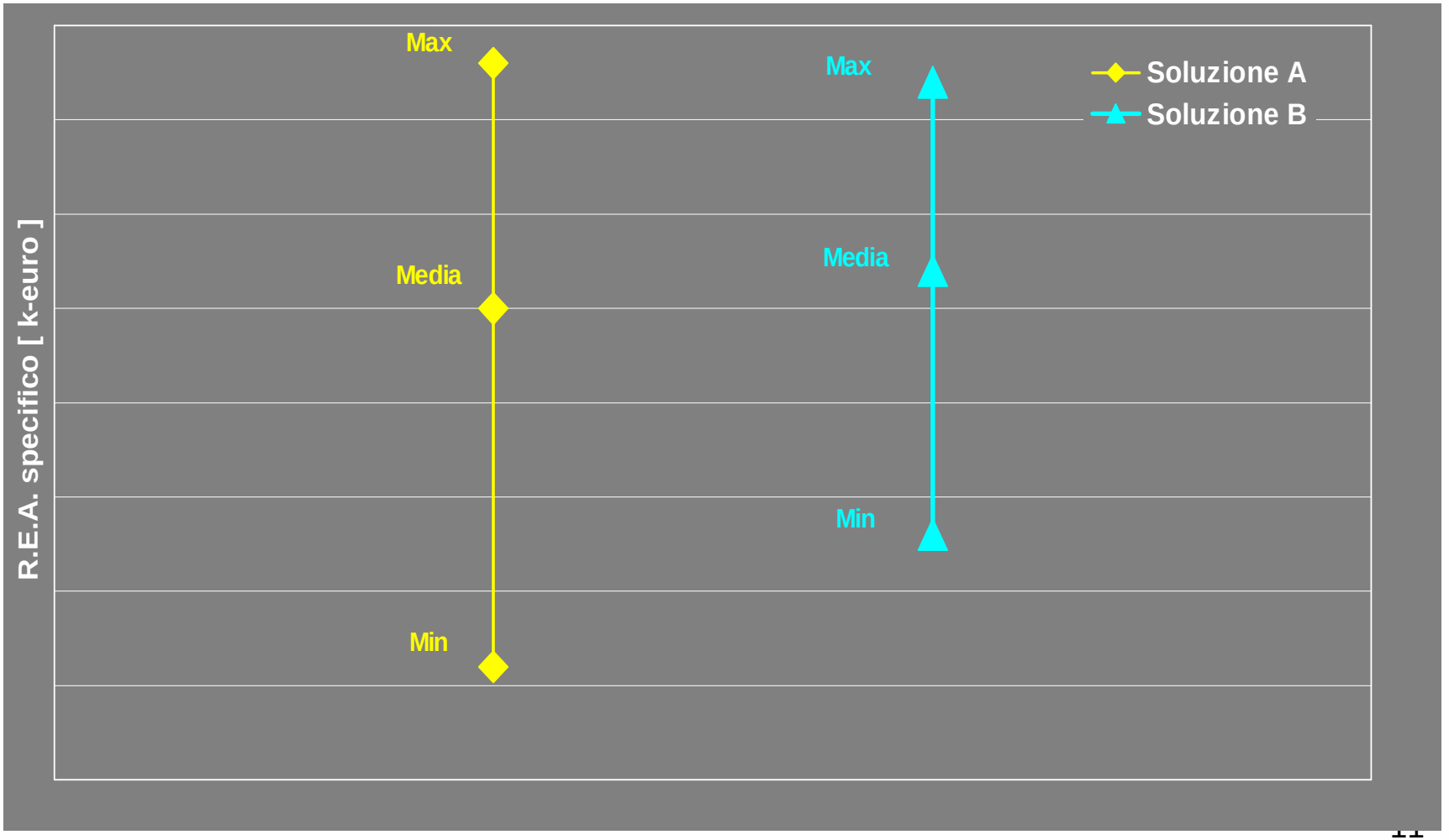
modeFRONTIER ï Altre applicazioni

Applicazione Finanziaria:

Valutazioni ricavi su base aleatoria



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ACMI ï Analisi Strutturale: Ottimizzazione

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a multi-objective optimization and design environment

Obiettivitaôï Oggettivitaô NUOVE DIREZIONI DI SVILUPPO

LIMITE CONSAPEVOLE

ASSISTENZA TECNICA EnginSoft - Esteco

Tempo di impostazione/debug

Limite Topologico

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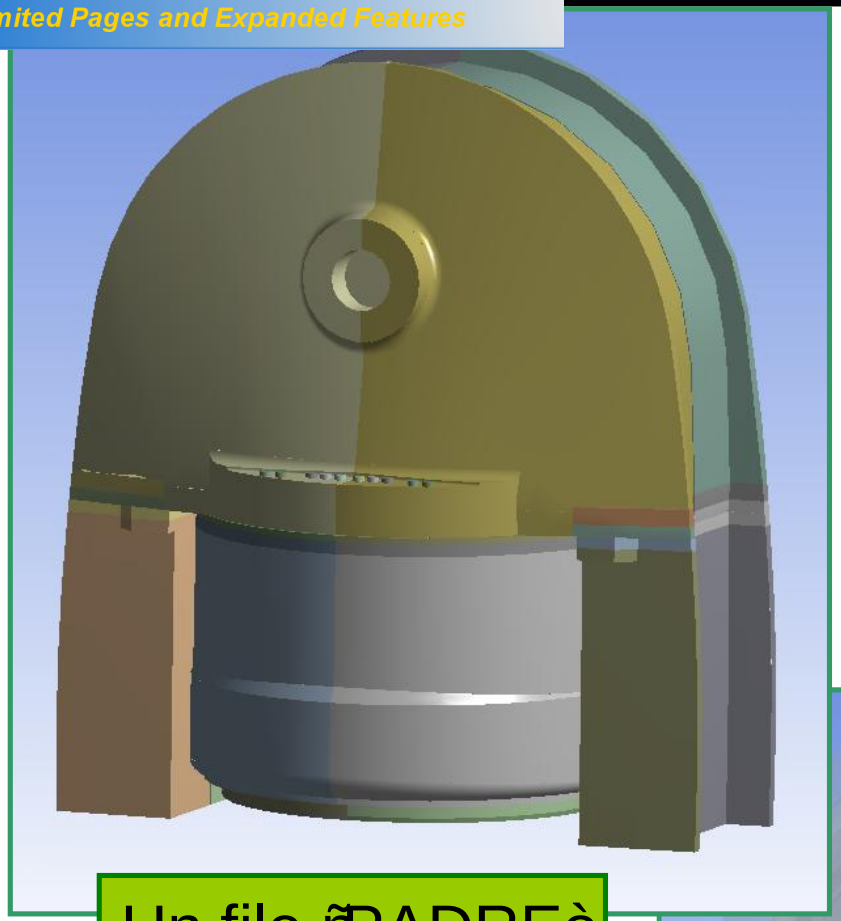
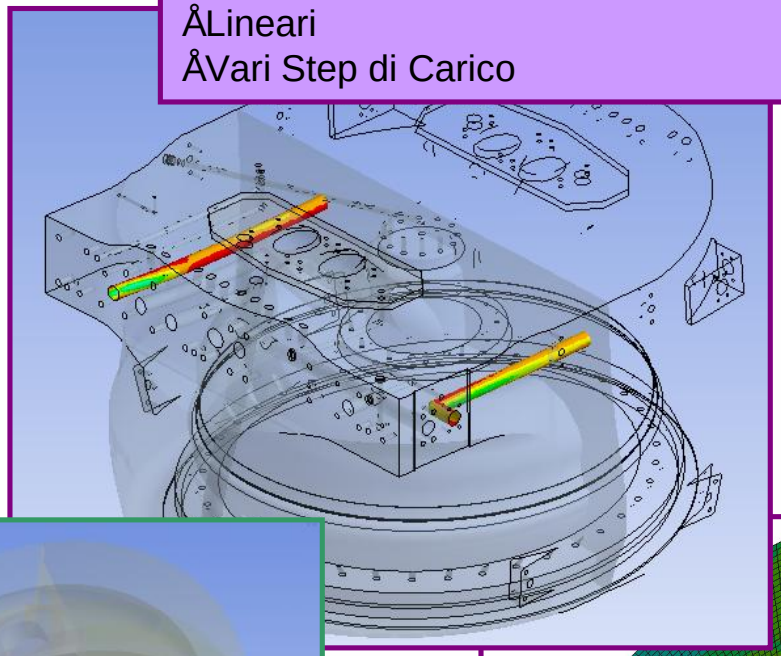
ACMI ï Analisi Strutturale: Grandi Modelli



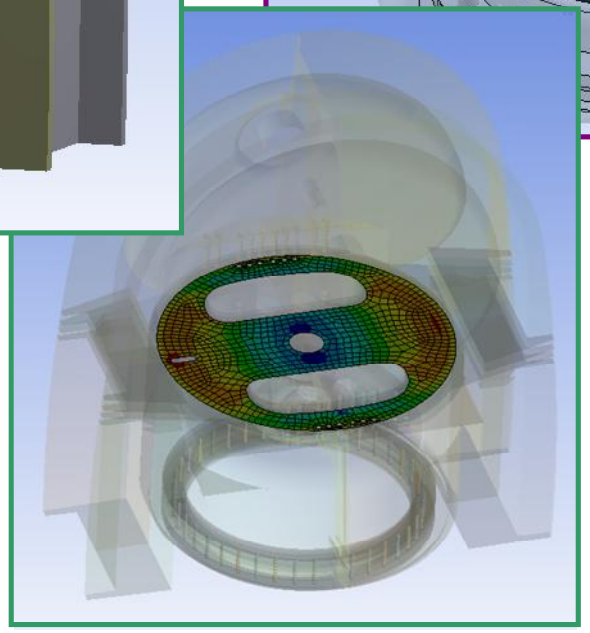
Vari ñSOTTOMODELLIò

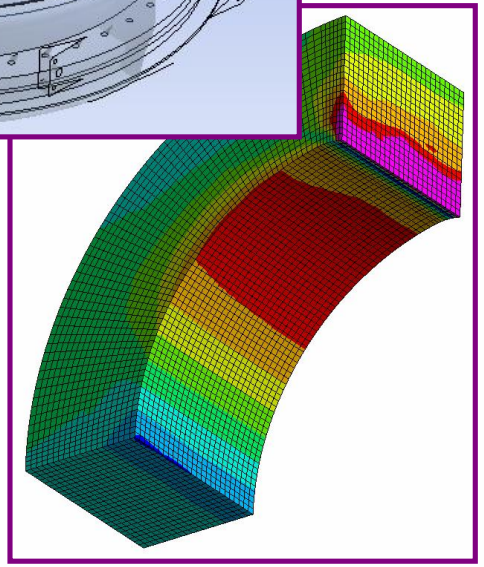
- Å< ~1 M nodi
- ÅLineari
- ÅVari Step di Carico



Un file ñPADREò

- Å< ~300 k nodi
- ÅNon Linearitaôdi Contatto
- ÅVari Step di Carico





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ACMI ï Analisi Strutturale: Grandi Modelli

ANSYS

Parametrico Bidirezionale CAD - FEM

Semplicitaõ Potenziale dellôinterfaccia WorkBench

ASSISTENZA TECNICA EnginSoft

Software Crash troppo frequente

Gestione licenze su multiprocessore

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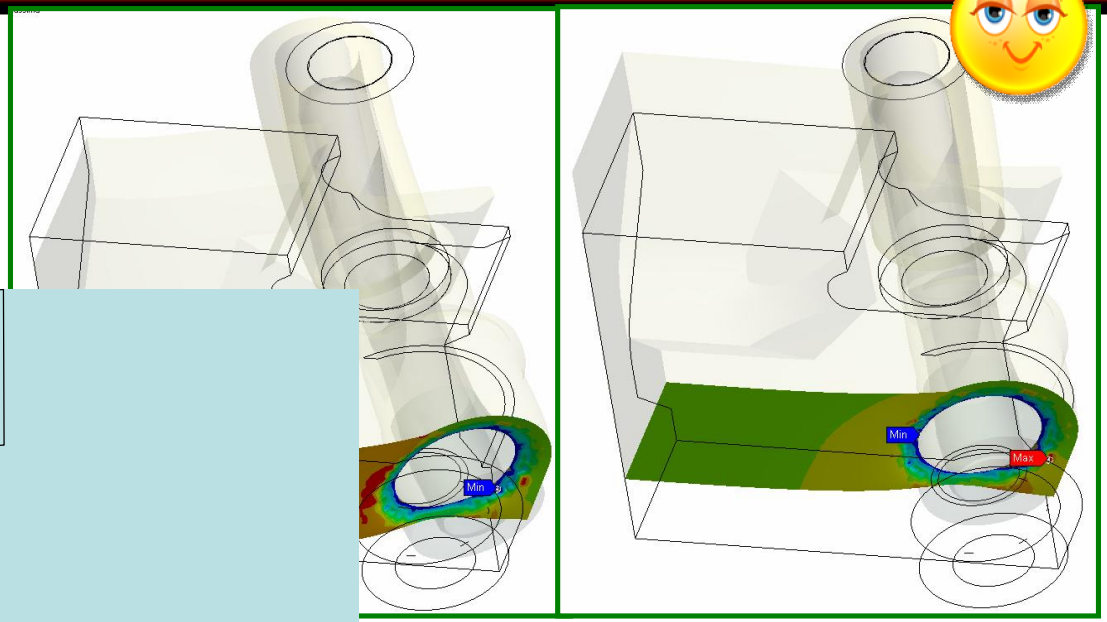
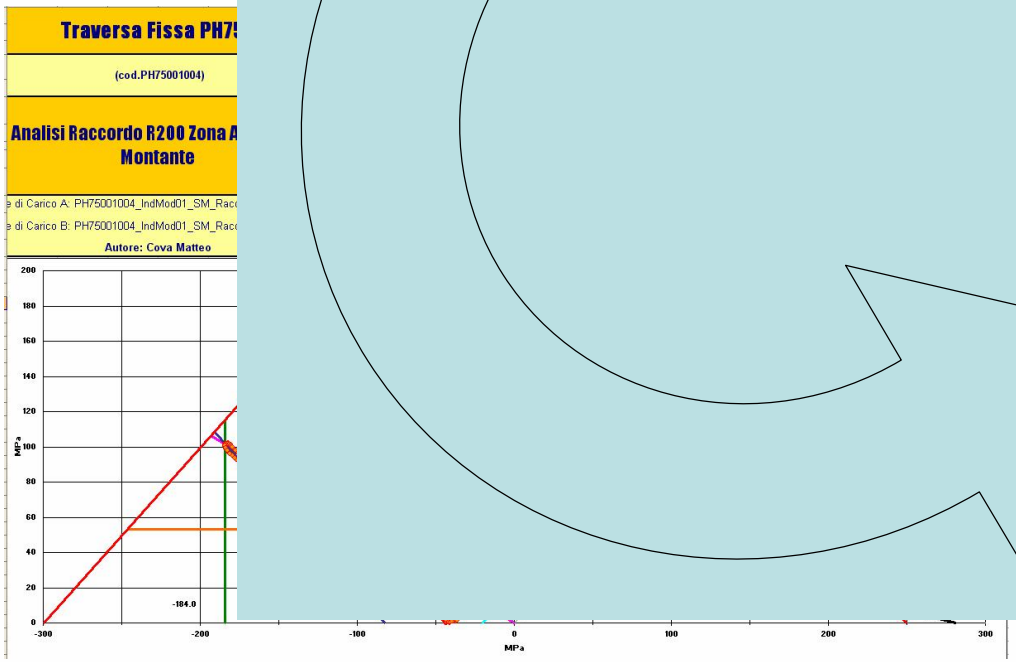
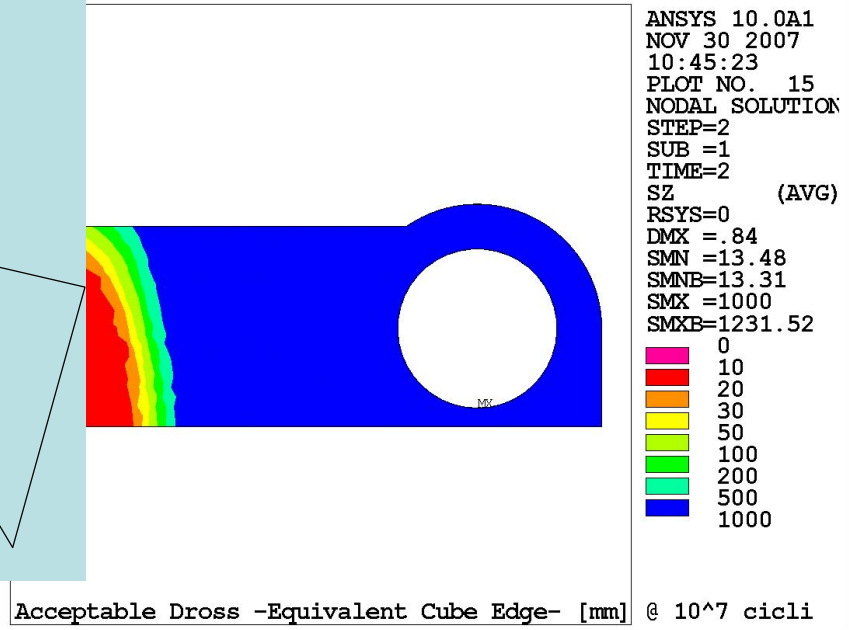
A in SACMI ï Postprocessing ñAvanzatoò

Potenziale di Personalizzazione

Mancanza di Help dedicato







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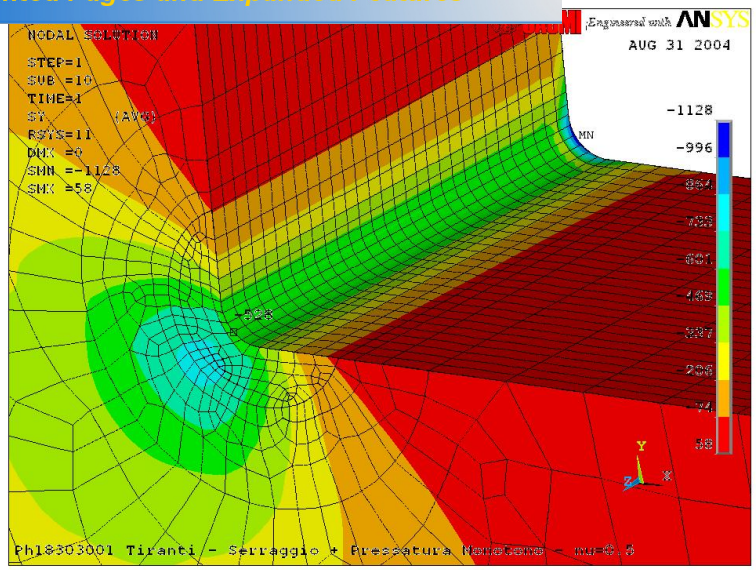
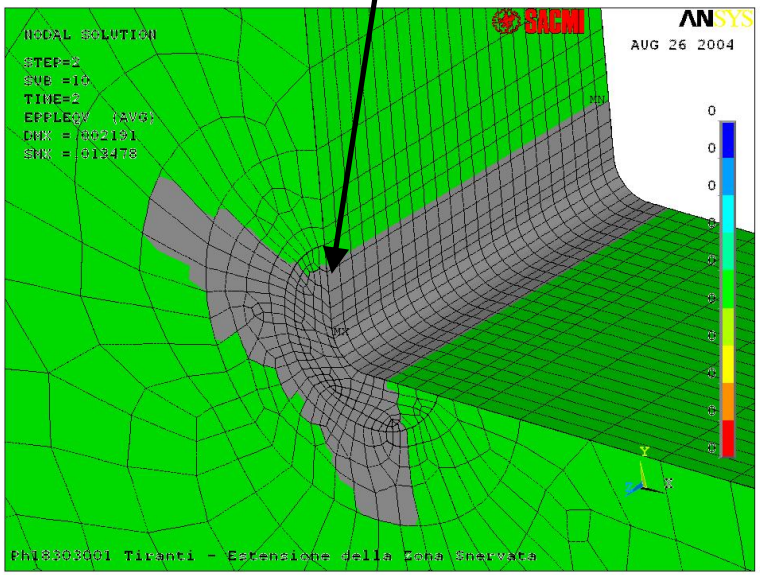
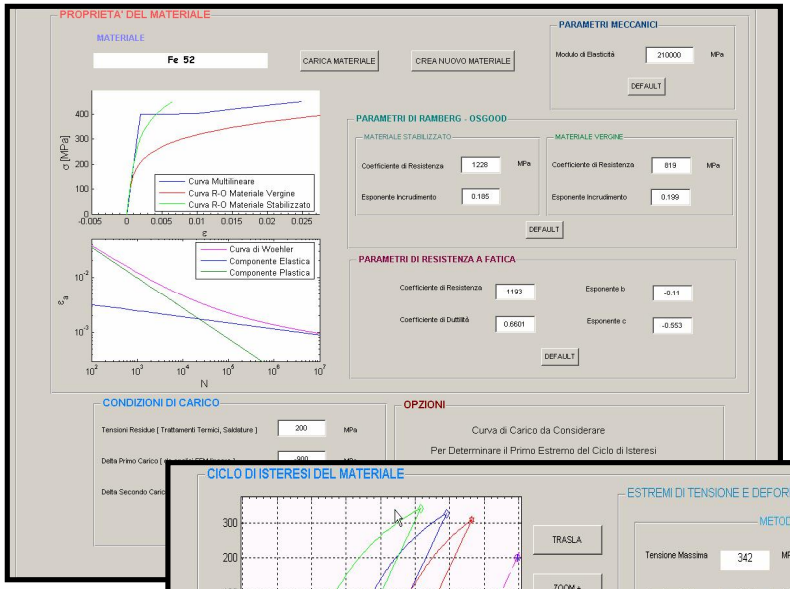
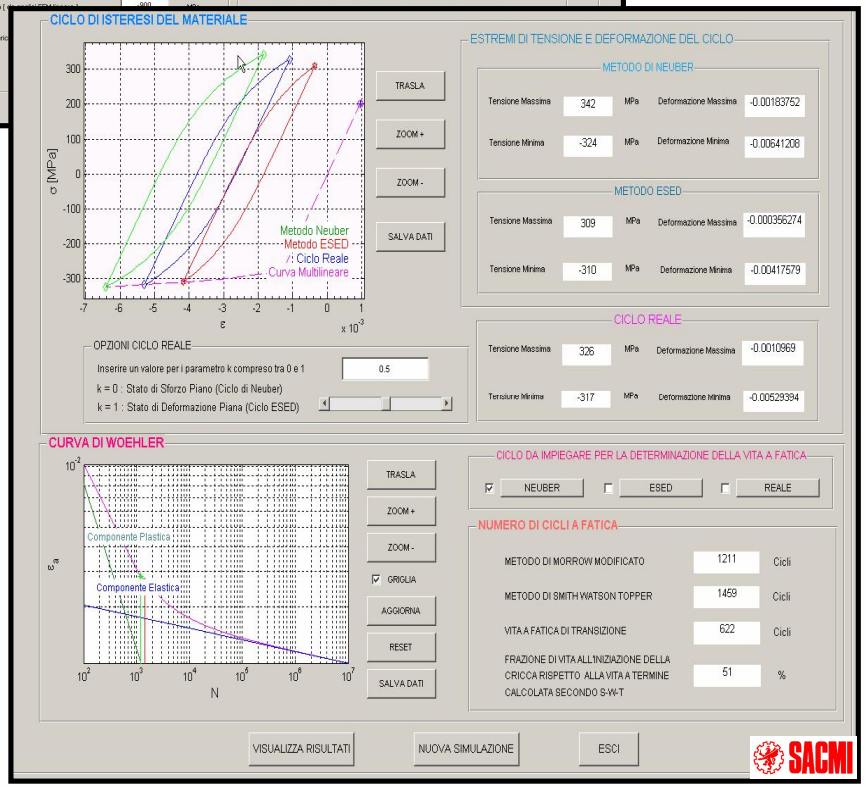


Comportamento Elasto-Plastico







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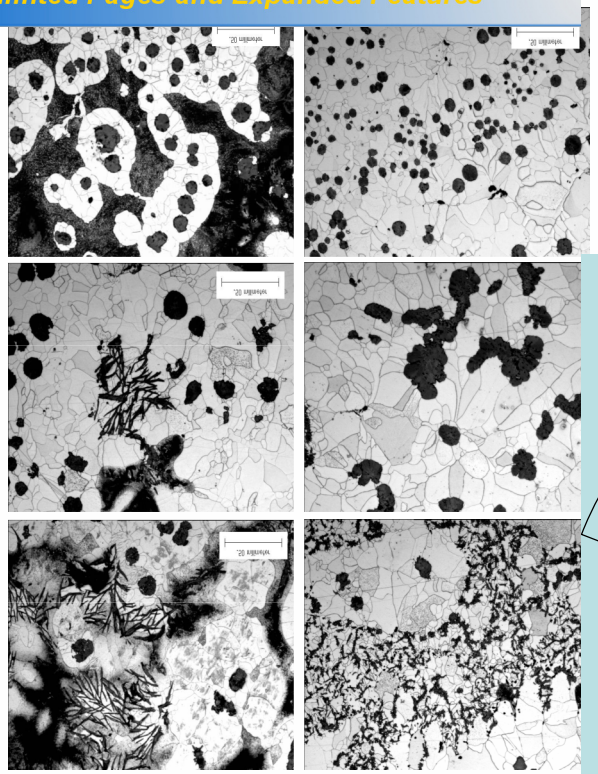

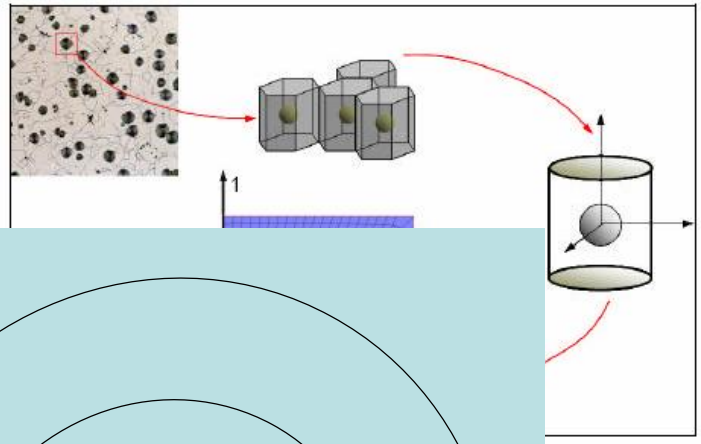

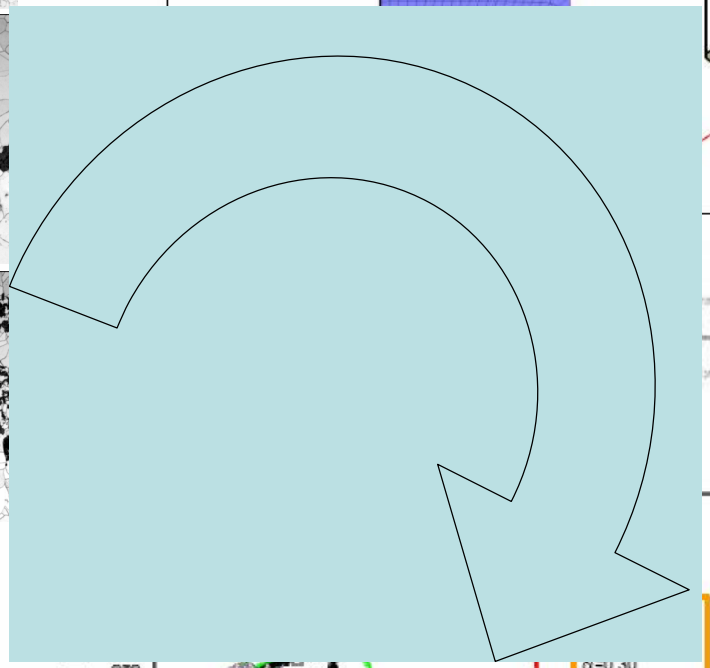

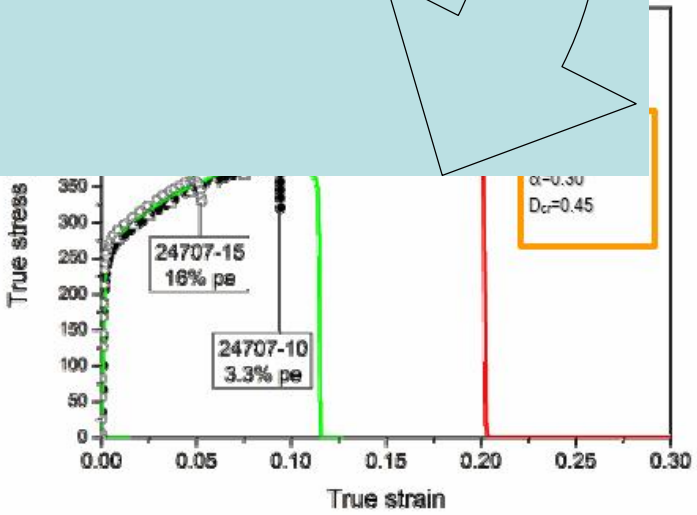

Metodologia acerba

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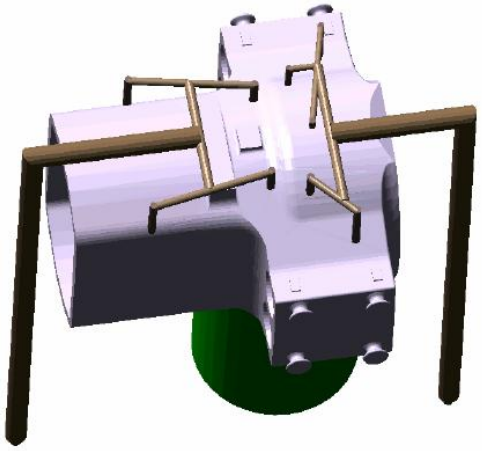
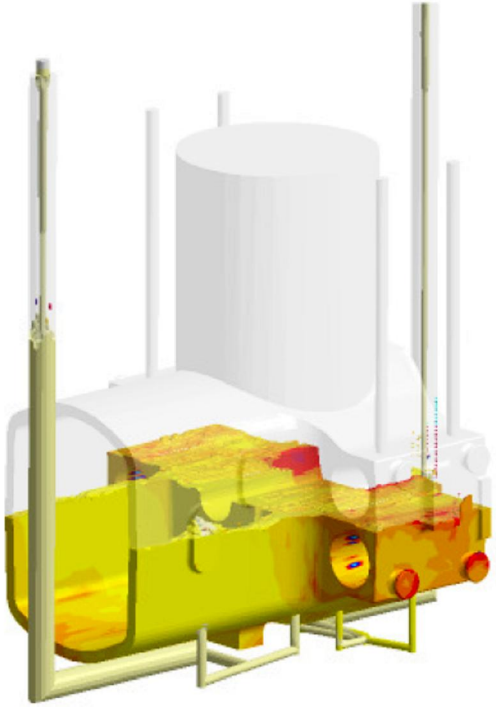
SACMI ï Simulazione Fusione (MAGMA)

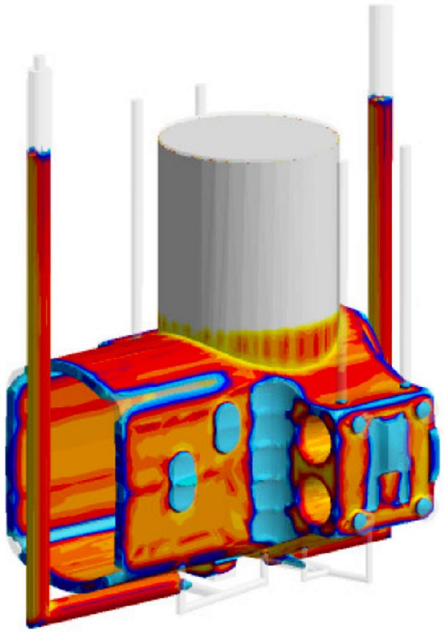


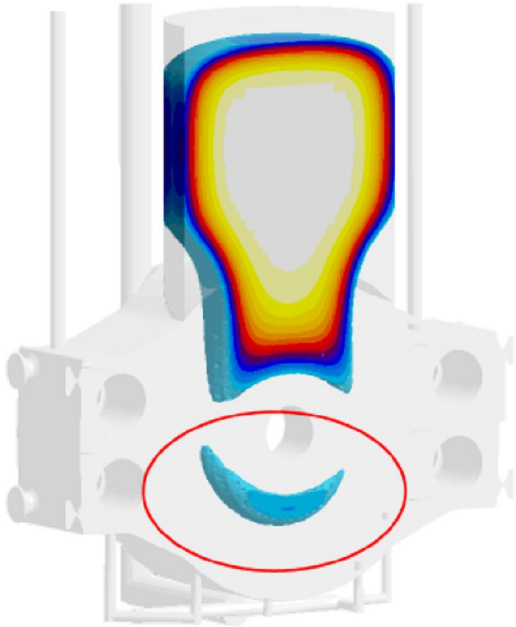
Potenziale

Addestramento Utente

Dati del Processo /
Rapporti col Fornitore







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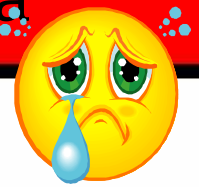
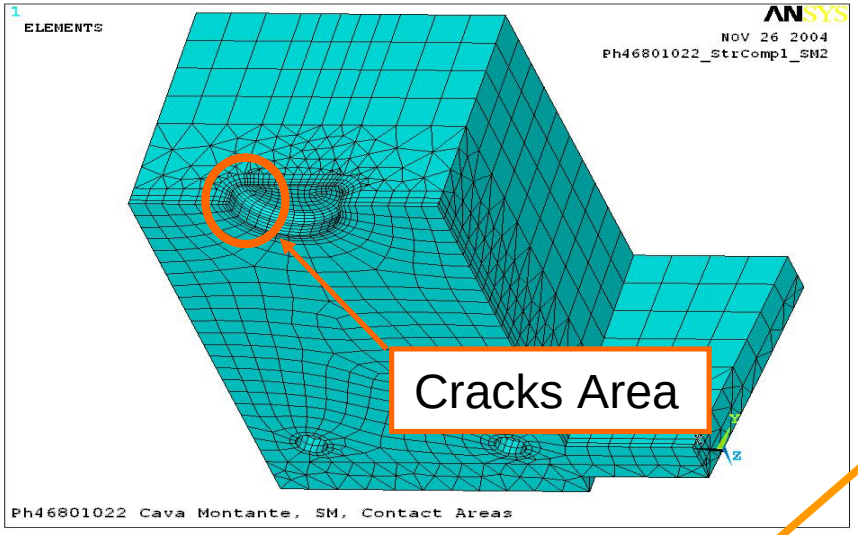
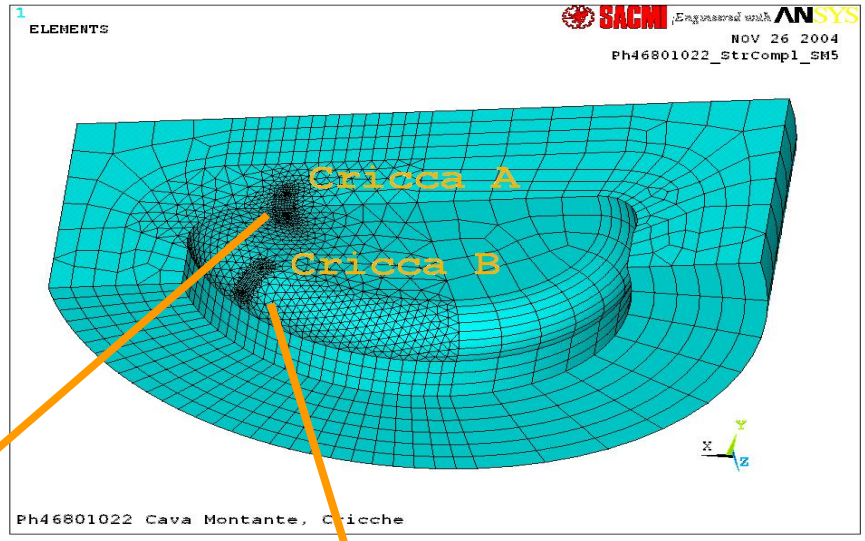
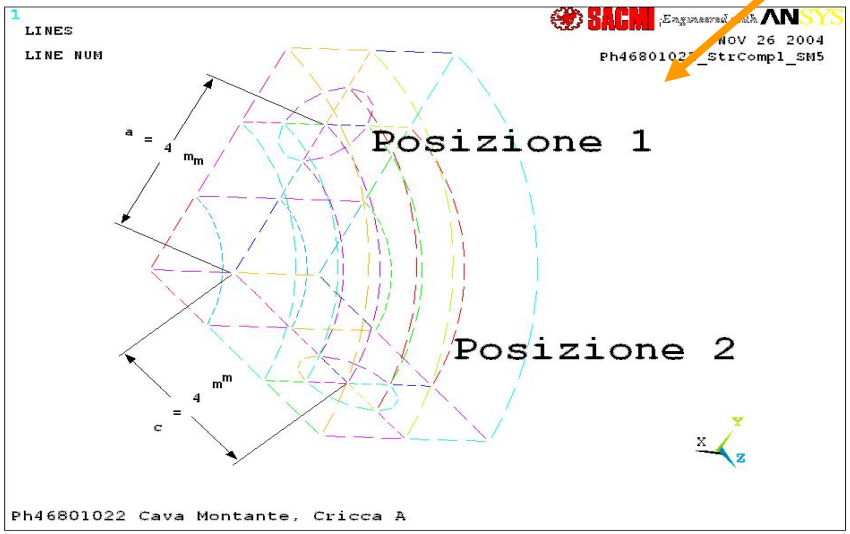
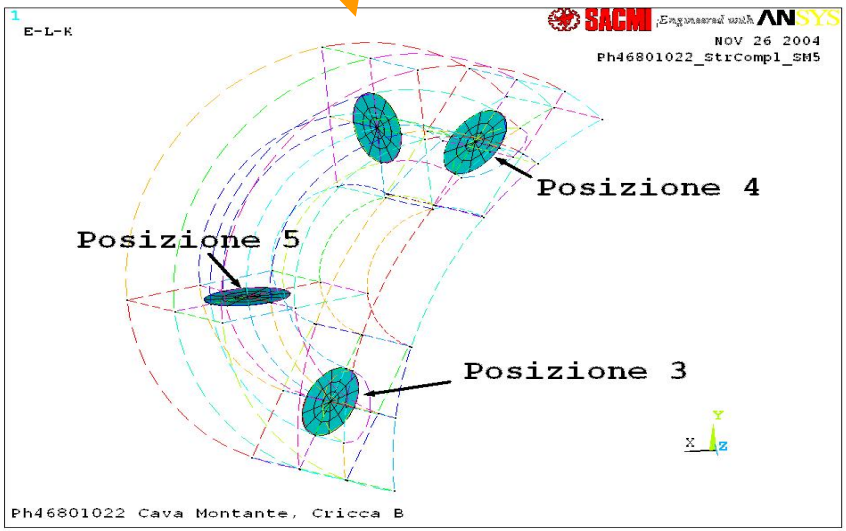
EA in SACMI ï Meccanica della Frattura











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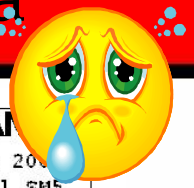
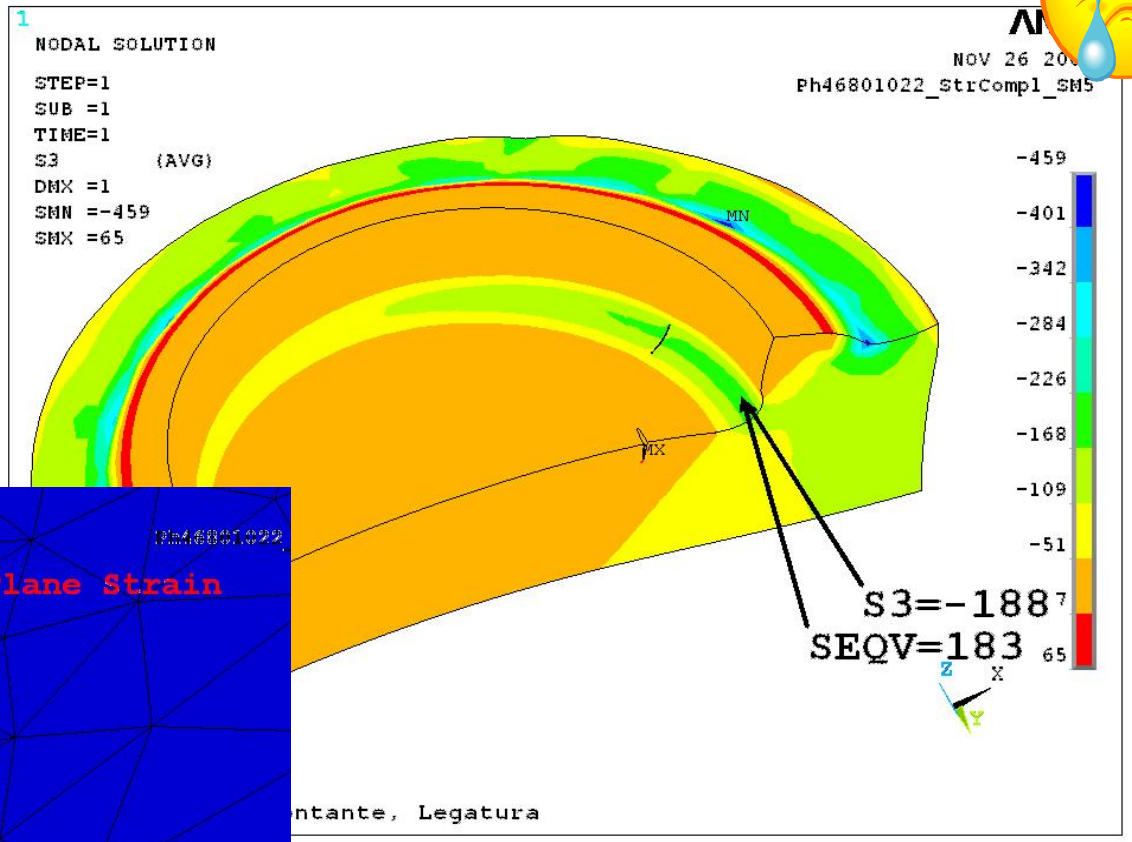
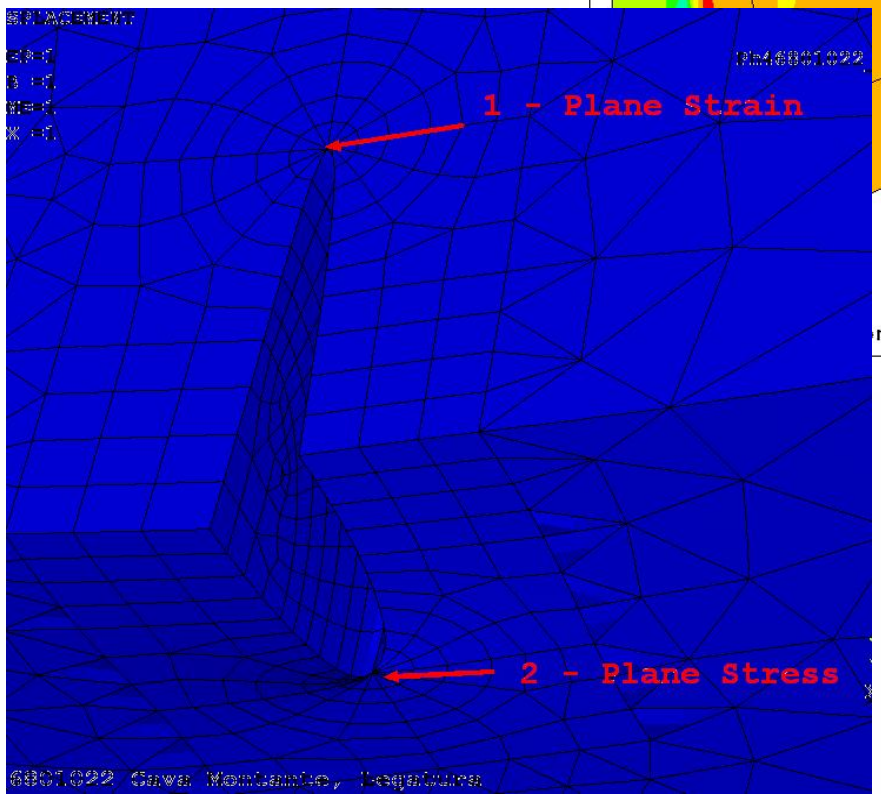


Tempo ï difficoltaô

di

impostazione / valutazione