MAGICS / Composite

Dedicated Finite Element Analysis software for composite materials
Weight optimization, eco-design, carbon label

Technical specifications
Powerful facilities, dedicated to composite, easy to use.
Library of common elementary meshes: cylinders, tori-spheres, nozzles, ...
Library of composite components: fibers, resins, cores, mats, foams, adhesives, ...
Definition of composites (multilayers, sandwiches, ...) layer by layer.
Automatic meshing based on 4 sides elements.
Outputs: stresses, strains, safety coefficients (TSAI, HILL, WU, PUCK) layer by layer, or by groups of layers.
Unique database with integrated pre and post processing.
Static, dynamic, seismic, buckling, fatigue analyses.

Glass tank / liquid, pressure, depression, wind, buckling and seismic analyses according NFT and EUROCOCES rules

Windows XP or 7
V10 version running on 32bits computers
2Gb memory
V11 version running on 64bits computers
8Gb memory, 10 to 20 times faster than V10

Carbon seat / static and dynamic analyses.
Contours imported from CAD software

www.cimagint.com | cimag.int@wanadoo.fr
MAGICS / Composite

Dedicated Finite Element Analysis software for composite materials
Weight optimization, eco-design, carbon label

Support and pricing
Development and support by the same engineers team since 25 years
Easier to use than general FEA software. 2 to 3 days training sufficient
No yearly fee, but perpetual licence less expensive than general software
Maintenance (hot line and new releases) free the 1st year

Quality
- theoritical validations and comparison with industrial tests
- quality assurance ISO 9001 2008
- high level engineers team

References
Many references in aerospace, nuclear, chemical, transport industries and also in many Universities:
- Europe: France, UK, Germany, Italy...
- Asia: Japan, China, Singapore, Malaysia, Thailand, ...
- North Africa
- UAE

Presented every year at many composite shows:
- Paris,
- Singapore,
- Dusseldorf,
- Birmingham,
- Dubai,...

We teach theoritical and practical composite FEA courses in Universities (french or english)

Simplified version ASK-MAGICS dedicated to the static design of sandwich panels, with carbon label evaluation.

www.cimagint.com    |    cimag.int@wanadoo.fr

Carbon naval race keel / static and vibration analyses

Polyester composite vessel / depressure and buckling analysis