

PAM-DIEMAKER for CATIA V5



Gold
Software
Partner

CAAV5
BASED

A trade-oriented solution for rapid
Stamping tool design within CATIA V5

Key Benefits

Quality & Speed

PAM-DIEMAKER for CATIA V5 provides the convenience and speed of rapid die face design, with the quality of the native CAD surfacing, offering trade-oriented functionality directly inside CATIA.

Consistent Data Management

Die designs stored as CATPart models, can be retained, modified, and shared as required. By remaining 'inside' CATIA there is no data transfer or neutral file to risk regression of quality.

Engineering update

Fully integrated in CATIA, DIEMAKER takes advantage of the geometry update of CATIA, modifying the Die design as a result of changes in the Component design.

Connection to simulation for Early Process Feasibility

Native format connection to PAM-STAMP 2G allows fast and efficient simulation iterations.

The rapid die design allows the assessment of different die design concepts (single/double attached, full/partial draw etc..), which can be quickly evaluated with simulation, to assure design feasibility

Breakthrough solution allowing die designers to create the first draft of a die addendum within minutes directly in their CAD environment. PAM-DIEMAKER for CATIA V5 offers powerful interactive tools and functions which provide guidance and support for part preparation, binder development and die addendum design.

Productive and streamlined environment

PAM-DIEMAKER for CATIA V5 optimizes the die designer's workload by implementing design & process knowledge directly into the CATIA PLM context.

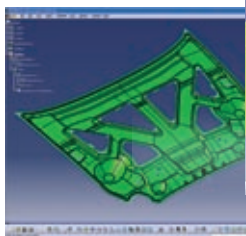
The integration in CATIA V5 PLM environment provides a number of benefits:

- Instant productivity with minimal learning curve within a familiar user environment.
- The seamless integration combines the wide range of CATIA functionalities with PAM-DIEMAKER's powerful tools, broadening the scope and bringing flexibility in the approach.
- Full CAD/simulation interoperability featuring native translator for rapid formability assessment with PAM-STAMP 2G protects data integrity.

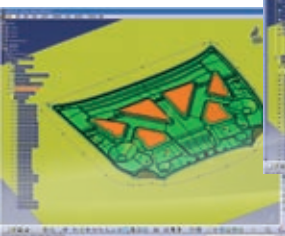
Connection to simulation

PAM-DIEMAKER for CATIA V5 provides a native format connection to PAM-STAMP 2G for easy data transfer to the simulation environment. The system provides efficient data transfer, passing all useful & relevant information, not only geometry, but also object descriptions, material information, and any process information defined in the PLM model, and the simple model updating functionality of PAM-STAMP 2G allows modeling of iterations with minimal effort.

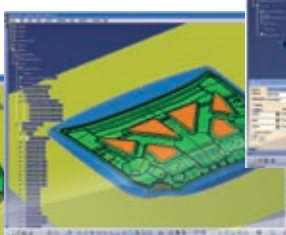
1. Prepare part data



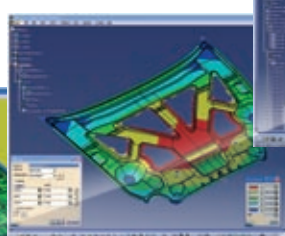
2. Tipping, binder design addendum profiles and die opening line



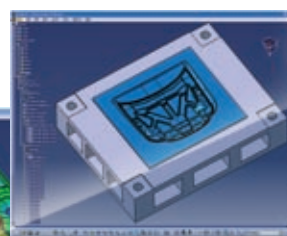
3. Finish: Automatic calculation of addendum faces and filletting



4. Die Design assessment



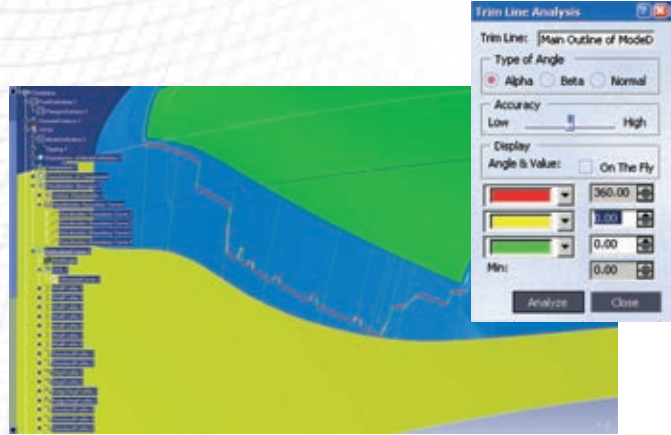
5. Final tool



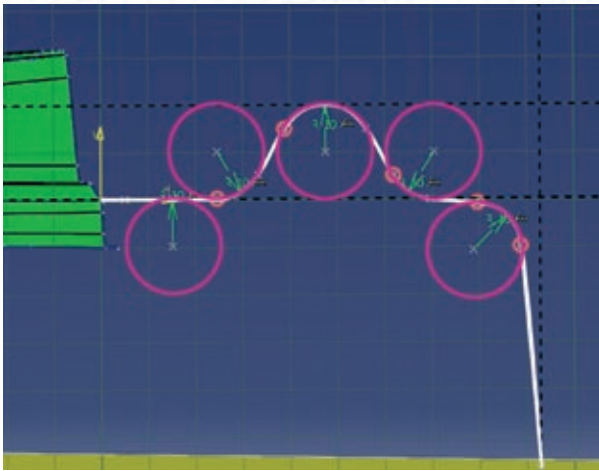
Open the way to simulation based Die Design for virtual product development

Technical Specifications

- Maintains CATIA V5 native functionalities (sketcher, features,...).
- Provides dedicated press tool design functions for blankholders, addendum, gainers, u-ends, and analysis tools, for draw depth, undercut, trimming angles.
- Blends in CATIA V5's specific update mechanism.
- Preserves full compatibility with other CATIA V5 workbenches (Part design, CNC machining...).
- Achieves surface quality consistent with CATIA V5 surfaces. Typically: high quality surface.
- Delivers surfaces suitable for final die design & downstream processes (Solid design, CNC machining...).
- Links to simulation environment using native transfer 'bridge'



Trimline analysis function



Addendum design using profiles



Please check with our local distributors for information on platforms availabilities and installation prerequisites.

About ESI Group

ESI Group is a world-leading supplier and pioneer of digital simulation software for prototyping and manufacturing processes that take into account the physics of materials. ESI Group has developed an extensive suite of coherent, industry-oriented applications to realistically simulate a product's behavior during testing, to fine-tune manufacturing processes in accordance with desired product performance, and to evaluate the environment's impact on product performance. ESI Group's products represent a unique collaborative and open environment for Simulation-Based Design, enabling virtual prototypes to be improved in a continuous and collaborative manner while eliminating the need for physical prototypes during product development. The company employs over 700 high-level specialists worldwide covering more than 30 countries. ESI Group is listed in compartment C of NYSE Euronext Paris. For further information, visit www.esi-group.com.

ESI GROUP
THE VIRTUAL TRY-OUT SPACE[®] COMPANY
www.esi-group.com
info@esi-group.com

ESI GROUP HEADQUARTERS
ESI Group
100-102 Avenue de Suffren
75015 Paris
France
Phone: +33 (0)1 53 65 14 14
Fax: +33 (0)1 53 65 14 12

ESI Group
Parc d'Affaires Silic
99 rue des Solets - BP 80112
94513 Rungis Cedex
France
Phone: +33 (0)1 41 73 58 00
Fax: +33 (0)1 46 87 72 02

EUROPE				SOUTH AMERICA			
CZECH REPUBLIC & EASTERN EUROPEAN COUNTRIES MECAS ESI s.r.o. Brojova 2113/16 326 00 Pilsen Czech Republic Phone: +420 377 432 931 Fax: +420 377 432 930	FRANCE ESI FRANCE Parc d'Affaires Silic 99, rue des Solets - BP 80112 94513 Rungis cedex France Phone: +33 (0)1 49 78 28 00 Fax: +33 (0)1 46 87 72 02	GERMANY ESI GmbH Sales & Technical Headquarters Mergenthalerallee 15-21 D-65760 Eschborn Germany Phone: +49(0)6196 9583-0 Fax: +49(0)6196 9583-111	ITALY ESI Italia srl Via San Donato 191 40127 Bologna Italy Phone: +39 393 152 04 07 Fax: +39 059 311092	SPAIN ESI GROUP HISPANIA, S.L. Parque Empresarial Arroyo de la Vega C/ Francisco Delgado, 11 - planta 2ª 28108 Alcobendas (Madrid) Spain Phone: +34 91 484 02 56 Fax: +34 91 484 02 55	SWITZERLAND Calcom ESI Parc Scientifique EPFL / PSE-A 1015 Lausanne-EPFL Switzerland Phone: +41 21 693 2918 Fax: +41 21 693 4740	UNITED KINGDOM ESI UK Ltd. The Magdalen Centre Oxford Science Park Oxford OX4 4GA United Kingdom Phone: +44 (0) 1865 784 829 Fax: +44 (0) 1865 784 004	BRAZIL ESI Group South America Technical Support Office Rua Artur de Azevedo, 1857 cj. 45 São Paulo - SP 05404-015 Brazil Phone/Fax: +55 11 3062-3698
NORTH AMERICA				ASIA			
USA ESI North America Commercial Headquarters 36800 Woodward Avenue Suite 200 Bloomfield Hills, MI 48304 USA Phone: +1 (248) 203 0642 Fax: +1 (248) 203 0636	USA ESI US R&D 6767 Old Madison Pike Suite 600 Huntsville, AL 35806 USA Phone: +1 (256) 713-4700 Fax: +1 (256) 713-4799	CHINA ESI-ATE Holdings Limited Room 16A, Base F Fu Hua Mansion No. 8 Chaoyangmen North Avenue Beijing 100027 China Phone: +86 (10) 6554 4907 Fax: +86 (10) 6554 4911	CHINA ZHONG GUO ESI CO., LTD Unit 401-404, bldg G, Guangzhou Soft-Park No. 11, Cainjin Road, Guangzhou Science City (GSC) Guangzhou 510663 China Phone: +86 (020) 3206 8272 Fax: +86 (020) 3206 8107	INDIA ESI India Indrakrupa #17, 100 feet ring road 3rd phase, 6th block, Banashankari 3rd stage Bangalore 560 085 India Phone: +91 98809 26926 Fax: +91 80401 74705	JAPAN NIHON ESI K.K. Headquarters and Sales Division 5F and 16F Shinjuku Green Tower Bldg 6-14-1, Nishi-Shinjuku Shinjuku-ku, Tokyo 160-0023 Japan Phone: +81 3 6381 8490 Fax: +81 3 6381 8488	KOREA Hankook ESI 157-033, 5F MISUNG bldg, 660-6, Deungchon-3Dong, Gangseo-ku, Seoul South Korea Phone: +82 2 3660 4500 Fax: +82 2 3662 0084	SOUTH-EAST ASIA ESI Group South-East-Asia Office 12A-2, Persiaran Puteri 1 Bandar Puteri Puchong 47000 Puchong, Selangor Malaysia Phone: +603-80607993 Fax: +603-80607661