CATIA PLM Express
CATIA - Molded Product Design for Manufacturing

Boost the detailed design of cast, molded and forged parts

The manufacturing constraints of molded and forged parts create a need for complex surfaces that are difficult and lengthy to design, and in most cases inflexible to modify. On the other hand, mass production parts require optimization to achieve the highest possible performance, while using the least amount of materials. Companies require highly productive technologies to focus more on innovation and less on modeling.
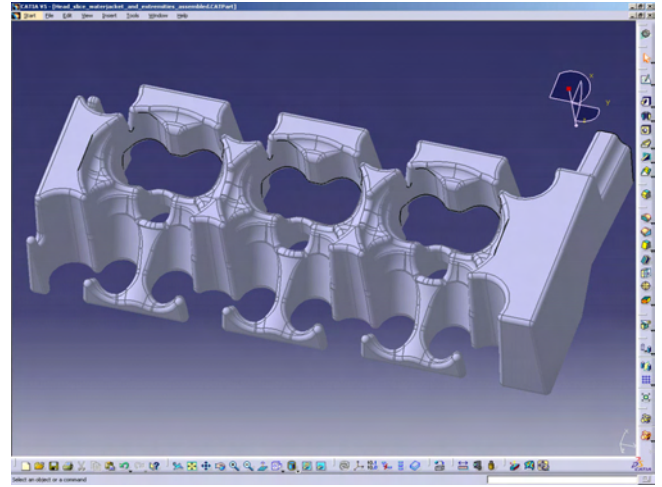
Overview

CATIA - Molded Product Design for Manufacturing accelerates detail design of cast, molded and forged parts with substantial productivity gains. Concurrently, designers create fully associative parting surfaces, cores and cavities of the most complex parts. The advanced process-driven functionalities avoid the need of complex and repetitive use of surface and wireframe operations and reduce learning activity.

Customer Benefits

- High productivity gains in defining molded, cast or forged parts
- Less learning activities and time spent in complex surface and wireframe definition
- Optimize or create more variants of parts with huge gains in design modifications
- Functional modeling : focus on what you want to model and not how to model it

Key Capabilities

- Highly productive definition of specific drafts and fillets for forged or complex cast parts
- Associative core & cavity separation with parting lines and surface definition
- Wide range of discipline oriented features that take into account manufacturability constraints: Extrude, Revolve, Cut, Thicken surface, Rib, Boss, Cutout, Rest, Pocket, Grill, Reinforcement, Shell, etc,.
- Order-independent feature creation resulting in history-free part construction

Screen capture of CATIA - Molded Product Design for Manufacturing

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