

Machining design solutions

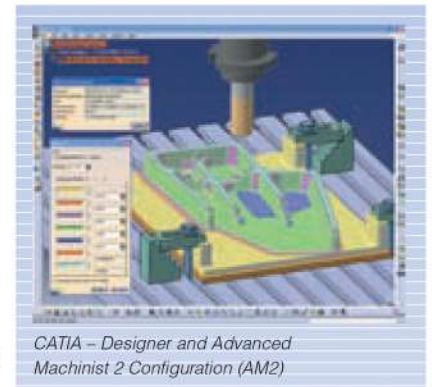


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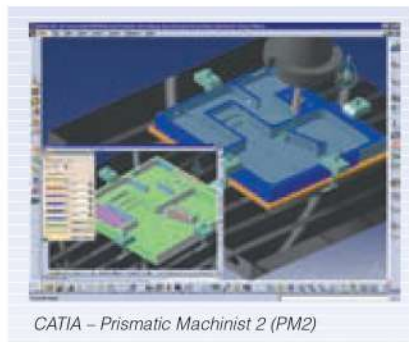
With the completeness of the CATIA product portfolio and the easy-to-use knowledge-based CATIA V5 architecture, CATIA V5 machining solutions exceed the capabilities of all existing machining applications. Some of the highlights include:

- **High efficiency in part programming** – Thanks to tight integration between tool path definition and computation, tool path verification and output creation the user can boost production quality by machining the right part, first time. Machining operations, supporting multiple passes and levels and automated rework in roughing and finishing ensure a high level of productivity.
- **Effective change management** – This solution set possesses a high level of associativity between product engineering and manufacturing processes and resources (PPR). Companies can therefore manage concurrent engineering and manufacturing flows better and reduce the design-to-manufacturing cycle time and then saving costs.
- **High level of automation and standardisation** – By integrating the pervasive knowledgware capabilities of CATIA V5, machining products allow the capture of skills and reuse of proven manufacturing knowledge and avoids repetition. This also facilitates innovation through shortened test cycles.
- **Optimised tool paths and reduced machining time** – CATIA V5 machining products offer a wide set of flexible high-speed machining operations. This decreases the time needed to execute shop floor operations, such as concentric roughing, Z-level milling, spiral milling and 5-axis flank contouring.
- **Easy to learn and easy-to-use solutions** – As a result of an intuitive user interface, users are trained faster and then use the full breadth of CATIA V5.
- **Reduced administration costs and skills efforts** – CATIA V5 machining solutions can be used as a single system to cover a wide set of integrated applications, such as lathe to 5-axis milling. This allows companies to institute strong, manageable and long-term partnerships with their CATIA CAM supplier.

CATIA – Designer and Advanced Machinist 2 Configuration (AM2)
 Enables aerospace companies to efficiently manage the structural parts design-to-manufacturing process. AM2 delivers, within the single CATIA V5 environment, powerful mechanical and surfacic design tools as well as advanced 2.5 to 5 axis program definition tools to manufacture high quality complex parts. What makes AM2 unique is the integrated material removal simulation capability with advanced part analysis in that single CATIA V5 environment. AM2 is thus the ideal solution to free aerospace companies (from OEMs to co- and sub-contractors) from an heterogeneous environment. These companies can therefore better than ever manage design changes and enrich their concurrent engineering and manufacturing methodologies.



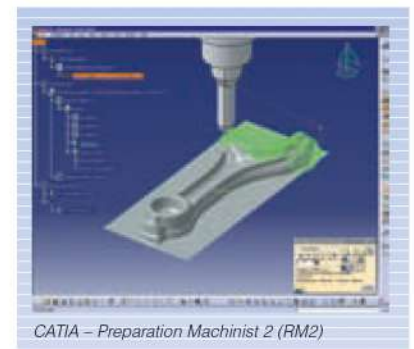
CATIA – Designer and Advanced Machinist 2 Configuration (AM2)



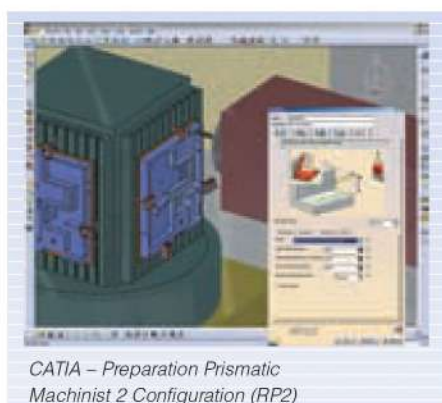
CATIA – Prismatic Machinist 2 (PM2)

CATIA – Prismatic Machinist 2 (PM2) Delivers all the necessary tools for shop floor manufacturers involved in 2.5-axis program definition. As a CATIA P2 configuration, PM2 offers integration tools that are compatible with CATIA V4. It also includes data interfaces to the most frequently used industry standards.

CATIA – Preparation Machinist 2 (RM2) Integrates the powerful standard 3D and 2D mechanical design tools with generative programming tools for 2.5 axis and 3-axis surface machining NC manufacturing tools. It is targeted at NC manufacturing users who need to make design modifications or create additional geometries, fixtures or even drawings to explain the machine set-up. The easy implementation and propagation of modifications are only possible through the associativity of CATIA V5.



CATIA – Preparation Machinist 2 (RM2)



CATIA – Preparation Prismatic Machinist 2 Configuration (RP2)

CATIA – Preparation Prismatic Machinist 2 Configuration (RP2) Integrates the powerful standard 3D and 2D mechanical design tools with generative 2.5-axis machining tools. It is targeted at tooling and jigs and fixtures maker companies who need to make design modifications or create additional geometries, features or even drawings before machining the created products. Whatever the original design of these products, the RP2 user can rapidly create knowledge based NC manufacturing programs thanks to the machining feature recognition tools. This allows for instance to automate the drilling operation creation with an unequalled quickness. The easy implementation and propagation of design modifications are boosted through the associativity of CATIA V5.