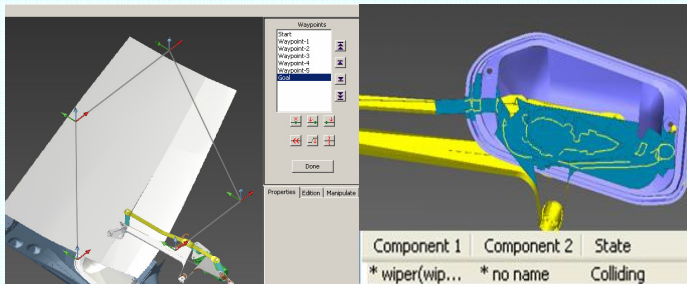


Kite BY KINEO CAM 'S modules at a glance

Through a suite of dedicated modules, Kite™ addresses the various needs for analyzing a 3D digital mock-up and studying the accessibility of a component in an assembly, different industrial fields and numerous cases with the most efficient techniques and Return On Investments for users:

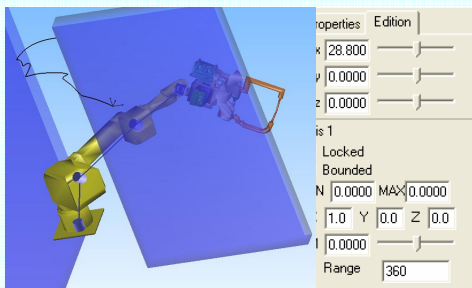
Kite™ is the 3D analyzer software solution in its entry configuration that combines performance, ease of use and safety for statically and dynamically analyzing collisions and interferences. [For more information, consult the Kite™ brochure.](#)



Dynamic collision free path

Static collision analyzer

Kite-Device™ is a module for easily editing complex kinematics of articulated systems like Manufacturing robots, Medical robots, highly articulated Nuclear systems etc...

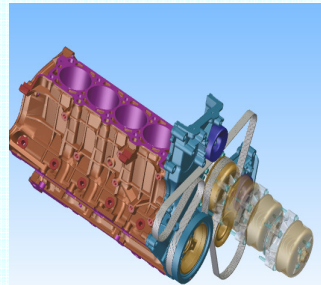


Automatic collision free trajectory

Including the famous KineoWorks™ automatic path planner, Kite-Device™ computes collision free motion of your robot; it becomes easy to check and to assess different scenarios eg. testing various tolerances or device positions, preventing of costly damage to equipment thanks to clearance security zones around the obstacles, ability to reach a working area, tasks feasibility, ...

"We often face accessibility issues with a 6-DOF robot arm inside a highly cluttered environment. Before using Kineo, it was a real nightmare for the 3D specialist...it is now possible to enrich our studies with several different situations within a time we could not imagine possible before" (CEA, French nuclear research center)

Kite-Disassembly™ is an automatic path finder that computes collision free paths for object. User specifies a goal position and will get back a trajectory which is collision free even if the object is within an highly cluttered environment. General accessibility purposes are the aim of this module for studying mounting and disassembly feasibility

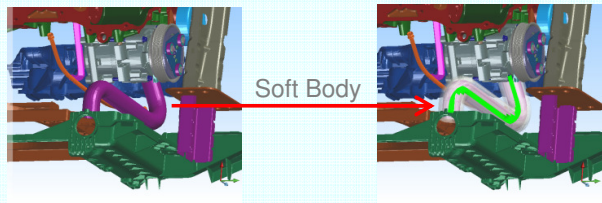


"Using Kineo, we were quickly able to see where a design proposal prevented component removal in Service. Being able to communicate precise change information to Engineering led directly to a design modification and issue resolution. The ability to accurately assess and resolve Service issues early in the design phase is key to reducing repair costs and increasing Customer Satisfaction. The speed and accuracy of Kineo has enabled us to move from being a reactive force to a proactive one; a key challenge for any function in today's world of ever shorter development cycle times." (FORD Service Engineering Operations)

Kite-Data readers™ complement the VRLM 3D format reader which is delivered with Kite™ for users who want to read 3D models in their native CAD tool format. Three independent options are currently proposed: CGR/Catproduct, JT and ProductView formats. Other formats can be foreseen on demand.

Kite 's modules at a glance

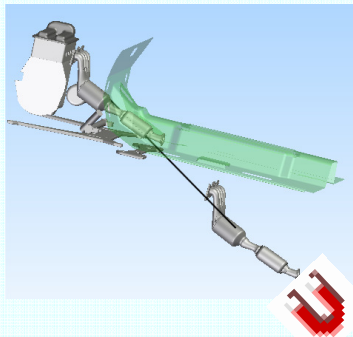
Kite-Advanced™ module introduces a set of new tools for solving sophisticated disassembly problems with more productivity. **Magnet Points™** permits the user to interactively guide the search. **Soft Bodies** to take into account components made of soft material. **Magnet Path™** that boosts the search in narrow passage. **Tunnel Path™** **Advanced Auto-Extract** for solving complex starts in collision problems.



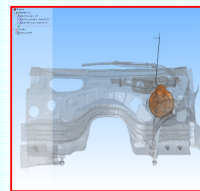
Path Planner Advanced is an option dedicated to users who spend a lot of time in doing automatic path planning and need to put a turbo on this task. Path Planner Advanced gives state-of-the-art path planning technique for best in class performances.

“Within the After-Sales Department “Direction Après-Vente” of PSA Peugeot Citroen, the teams check and validate the assembly and disassembling to be carried out for the maintenance and the repair of our vehicles. For years, the Kineo software has been used for the automatic search for trajectories.

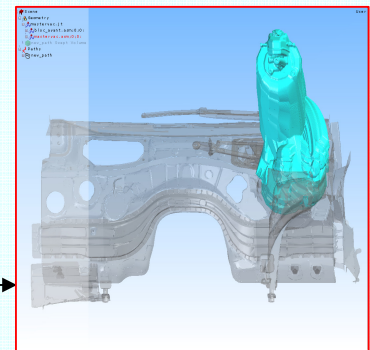
Kite-Wrapping™ computes a new solid representing the envelope of **the volume of the object during its motion** along its trajectory.



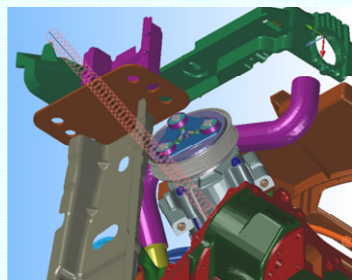
I mouse-drag the Magnet Points™ to find a collision free solution towards the bottom of the assembly.



Automatic computation of swept volume



A Kite-Wrapping™ Swept Volume for preserving a mounting or dismounting corridor from any intrusive design.



The search is focused near the draft path sets by the user

Sometimes for confidentiality issues or for simplification purposes, Designer may wish to replace the complete 3D assembly of parts by a light sized volume corresponding to its external shape.

Kite-Wrapping™ computes a light solid representing **the skin of the assembly**.

Dismounting colliding parts along inertial axis generates natural motion.

