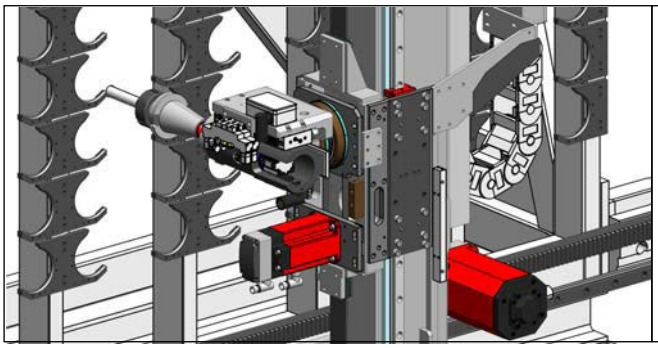
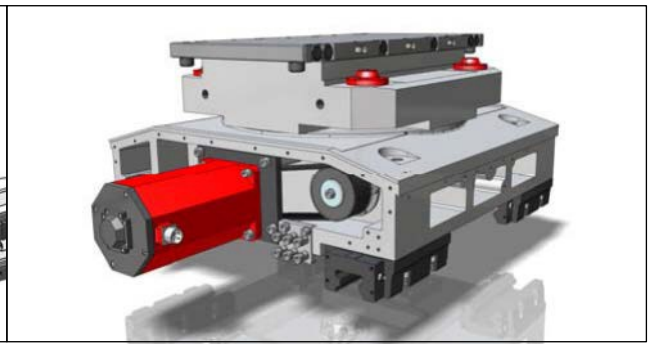
SmartForm ENGINEERING

The best solution for 3D Design

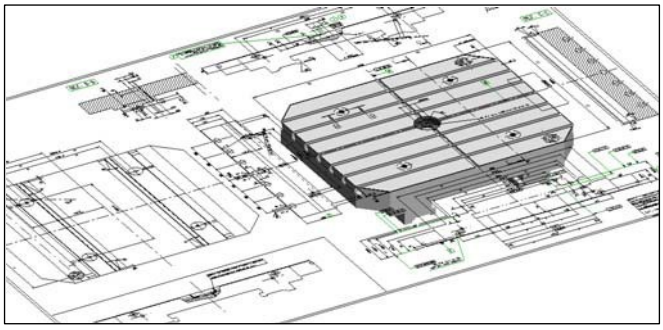




SmartForm Engineering addresses the needs of mechanical manufacturing companies by offering productive and reliable tools. From traditional 2D design controls, to innovative and integrated 3D design functionalities in a single environment, ***SmartForm Engineering*** provides a comprehensive CAD solution that allows companies to define their products in a faster, more efficient and flexible way. Part modeling, 2D/3D transparency, integrated ***Sheet Metal*** functionality, ***Tubing*** creation and management, advanced ***Assembly*** management, ***Frame*** creation, ***Smart Objects***, ***Animation***, data exchange interfaces with other CAD systems, high availability of mechanical parts libraries, direct FEM/FEA interface, product data management, all in one intuitive and easy-to-use product. These are just a few aspects of ***SmartForm Engineering's*** world. A world created to help manufacturing companies win market challenges.

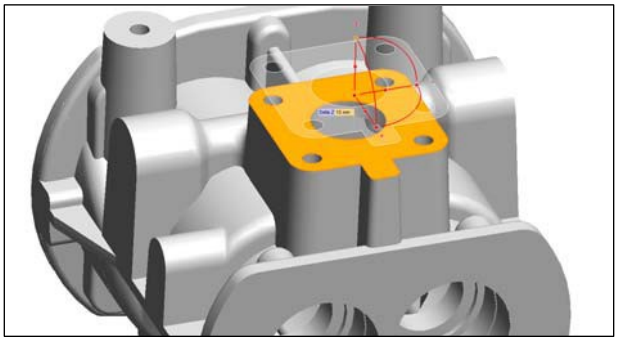
2D/3D Transparency

SmartForm Engineering's integrated design environment ensures full 2D/3D transparency and does not require expensive interfaces for the migration from 2D to 3D. ***SmartForm Engineering*** offers optimized and interoperable 2D and 3D environments. Companies can then preserve and modify existing 2D data, securing their original investment and preventing the risks associated to the migration from one design platform to another.



AutoCAD Compatibility

SmartForm offers full **AutoCAD** compatibility: 2D drawings can be imported in ***SmartForm Engineering***, modified and reused as native designs. ***SmartForm Engineering*** combines advanced translation functionality and a modern and comprehensive design architecture. DXF/DWG translators ensure the integrity of **AutoCAD** entities and support imported data.

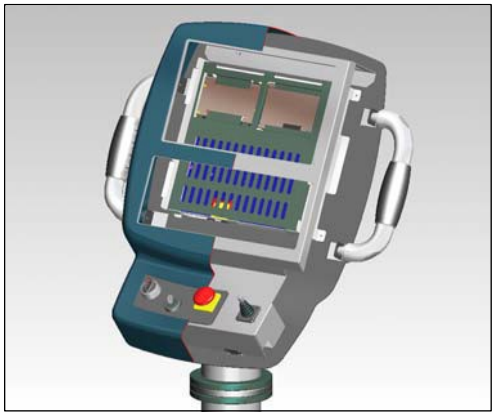


Interactive Solid Modeling

The modern ***Interactive Solid Modeling*** feature allows modification of solid geometries, both native and imported, and helps users overcome the parametric logic made of **profiles & constraints** and the **feature** creation sequence, to get the expected modification result directly. Thanks to its solid modeling and surfacing functionalities, ***SmartFrom Engineering*** ensures innovative part modeling functionalities in a flexible and easy-to-use design environment.

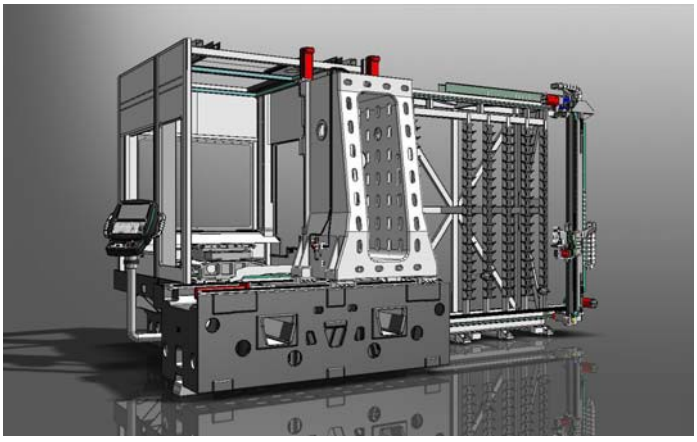
Smart Objects and Adaptive Measures

SmartForm Engineering's unique ***Smart Objects*** functionality allows the user to capture, reuse and share, either fully or partly, modeling sequences. The benefits are consistency and compliance to company standards, fewer errors and faster design cycles. ***Adaptive Measures*** allow, when inserting or modifying features, to input dimensional values directly from the surrounding geometry, including solids, surfaces, and static 2D geometric elements, with a simple mouse click. With ***Adaptive Measures***, users can speed up the modeling process in the context of an assembly, as well as quickly create a 3D model from 2D drawings.



Integrated Sheet Metal

SmartForm Engineering's high flexibility allows design engineers to create **sheet metal parts** more easily, starting from scratch or from existing parts, **either native or imported from other CAD systems**. ***SmartForm Engineering*** allows managing thick sheet metal parts with features on side faces while the same model may include parts with different bend tables. In addition, this application allows automatic generation of shop-floor-ready development drawings.



Advanced Assembly Management

SmartForm Engineering provides innovative tools for the management of large assemblies and supports both a top-down and bottom-up approach. Simplified representations enable faster loading and viewing, preserving the parametric behavior of the assembly. ***Visual Bookmarks*** simplify viewing operations and symbolic references allow quick replacement of components or subassemblies. Users can create different configurations of the same machine. The ***Collision Detection*** functionality allows detection of interferences between components and solids of the same assembly.

2D and 3D Translators

SmartForm Engineering provides 2D translators for DWG, DXF, IGES and GBG Draftmaker, as well as 3D translators for IGES, STEP, STL, VDA, VRML, WaveFront, IV, SmartForm's neutral format and ASCII. Other SmartForm translation platforms (available separately) support most proprietary 3D formats as well as the two-way conversion of Catia V5, Pro/E and Parasolid files. A two way converter for Catia V4 files is also available (2D included).

System Requirements for SmartForm Engineering

Minimum

- Vista™, XP Pro x64 Edition, XP Pro or higher Microsoft® Windows® -7 Pro or higher
- Intel® Core-i5 2.66 GHz or equivalent processors by AMD systems
  System memory (RAM) 2 GB, 4 GB for x64
- Virtual memory (paging) 1 GB
- Disk space 1.5 GB for a typical installation
- Graphics accelerator 1 GB Vram OpenGL TM
- Microsoft® .NET Framework Version 3.5 or higher
- Microsoft® Internet Explorer 8.0 SP1 or higher

- Vista™, XP Pro x64 Edition, XP Pro or higher Microsoft® Windows® -7 Pro or higher
- Intel® Core-i7 3.2 GHz or equivalent processors by AMD systems
- System memory (RAM) 2GB, 8 GB for x64
- Virtual memory (paging) 2 GB
- Disk space 1.5 GB for a typical installation
- Graphics accelerator 2 MB Vram OpenGL ™
- Microsoft® .NET Framework Version 3.5 or higher
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