CAD.I.TECH
CAD INTEGRATION TECHNOLOGY

Take full advantage of your CAD Technology

CAD.I.TECH has been providing integrated solutions for over 15 years, based on the use of dedicated modules and targeted software development, integrated with standard platforms, which increase the effectiveness and productivity of client companies' engineering services.

The leading-edge products and services offered by CAD.I.TECH mark it out as a reliable technology partner in the following fields

- Customised solutions and implementation for: Creo®, Pro/ENGINEER®, Windchill PDMLink®, Windchill® and Pro/INTRALINK®
- Product Configuration and Design Automation
- PDM / PLM and Document Management
- System Integration (ERP/PDM/CAD/CAM)
- Publishing and advanced printing Utilities
- Technical Glossaries and Applications for the generation of multilingual drawings
- Co-design tools and 2D and 3D visualisation
- Digital Catalogues and Multimedia Applications

" Scalable solutions designed to ensure continuity of use over time and compatibility with development of the standard platforms used "

Design Automation and Product Configuration

GeCo is the "Rule Based" System of Design Automation developed by CAD.I.TECH, designed to carry out the product configuration process and automatically generate the relevant technical documentation, completely automating the design stage.

Combined with Creo® and Pro/ENGINEER®, GeCo **Product Modeler** interacts with the CAD platform, directing it in the generation of new components, the use of any that may already be available and the assembly and creation of the relative layouts. GeCo's interaction with other systems (e.g. MS Office) also makes it possible to generate any ancillary documentation which may be essential for a full description of the product and / or project (e.g. Test Plans, Certifications, Estimates, Data Sheets, etc.).

The **Configuration Manager** function forms the environment within which the configuration process is installed, with the prescribed variables, rules and calculation formats, the interaction with any software and relationships with CAD models. More generally, GeCo's innovative approach allows for rapid implementation and for the company to become self-sufficient in managing the configuration process, its maintenance and product development.
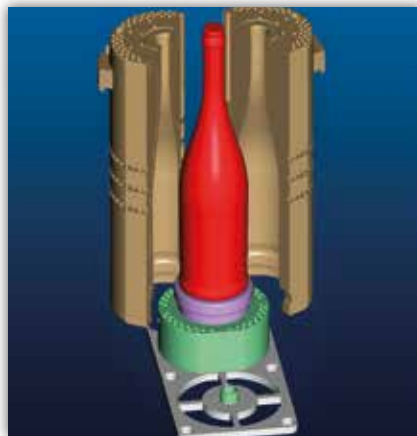
GeCo is the ideal Technical Product Configurator for all companies where Engineering operations and the Preparation of Technical Product Documentation are fundamental.
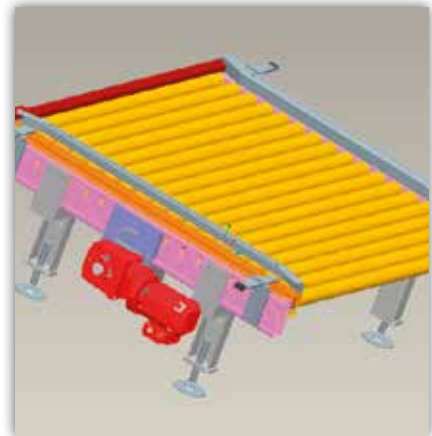
GeCo Web Module

GeCo Web Module is the module that makes the configuration process ready for publication on a website or portal, allowing the configurator to be used remotely.

Pump designed with GeCo

Mould designed with GeCo

Conveyor designed with GeCo

Application examples

GeCo is successfully used by leading companies operating in the following fields:

- Electrical Transformers and Inductors
- Moulds for the Glassmaking Industry
- Centrifugal Pumps
- Valves and Solenoid valves
- Hot Runners and Channels

- Machine Tools
- Screw Conveyors
- Gearmotors
- Automotive Components
- Components for Domestic appliances

PDM/PLM

MDM is CAD.I.TECH's PDM / PLM solution. Catering for organisations of any size, MDM provides access to a wide range of features, combined with extensive customisation options, giving the customer the assurance that its "project / product" data management system will be successfully implemented. Integration with the PTC's CAD Creo® platform and Pro/ENGINEER® makes MDM the ideal medium both for the management of native CAD data and for any other type of document stream.

The entire life cycle of the product can therefore be managed with the involvement of all departments concerned.
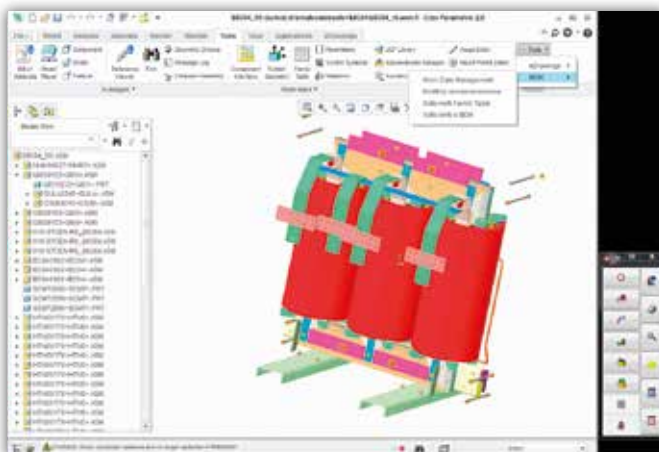
Basic Features of MDM:

- Controlled access to the system with user Login and Password, recognition of user profile and the allocation of the corresponding rights
- Data Archiving, Versioning and Logging
- Features for controlling the sequence of allocated Revisions and Versions
- Allocation and management of Attributes and metadata
- Management of different Work and Archive Areas
- Search, Check-in and Check-out features and Concurrency control of data access
- Management of Native CAD relationships (Creo® or Pro/ENGINEER®):
  - Assembly Relationships
  - Layout Relationships (drawing ⟷ model/s)
  - Family Table Relationships (generic ⟷ instance)
  - External Relationships between models (e.g. copy geom., merge etc.).
- Where Used
- Life Cycle, Workflow and Notification Management
- Management of the Technical Specification
- Product Structure Management
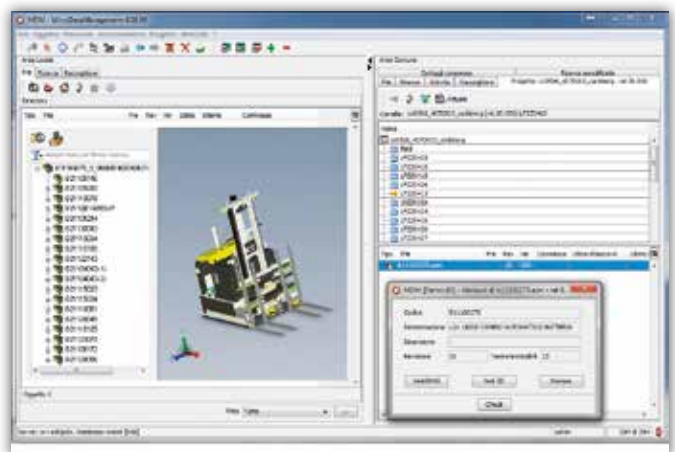- "Logical" data structuring for the management of the Project/Product/Job

MDM is a scalable platform; its capabilities can be expanded by adopting some optional modules.

These include
- **MDM Web Access Server and Client**:
  for data access via the web
- **MDM BOM Manager**:
  for the management of technical master data and basic specifications
- **MDM Project Assistant**:
  for the management of the project / job
- **MDM Winning Tools**:
  a suite of tools to enhance Creo® and MDM

MDM integrated with Creo®

MDM project data visualization

Benefits

It is intuitive, easy to use and with the potential for practically unlimited customisation.

With these properties, MDM is the ideal tool for offering effective computer support to workflows and organisational processes, as well as promoting a company's unique features. The architecture involves the use of the MS SQL Database server with a well-known data model and plain text files, ensuring security, continuity in development and the ability to integrate with constantly evolving computer infrastructure.

CAD.I.TECH's presence in the field alongside its customers, combined with its experience in the use of development environments dedicated to PTC products, has led to the creation of a dynamic suite of tools designed to refine and enhance the use of Pro/ENGINEER® e Creo®.

• win**Publisher**: for the automated publishing of designs and models

• win**Print**: state-of-the-art printing utilities

• win**Report**: for the automated identification of customisable dimensions, notes and geometric tolerances in a layout and the subsequent generation of a report in Excel format, for use in checking dimensions

• win**Lexycon**: for the allocation of descriptions using a technical vocabulary operated by the system administrator
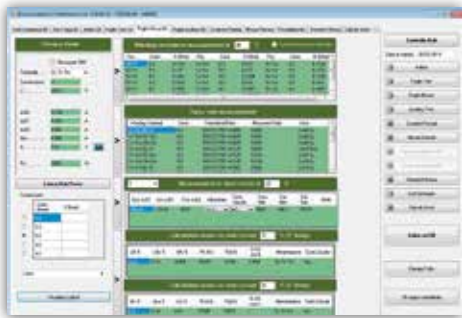

• win**Translator**: for the automated generation of multilingual drawings

• win**MyLib**: for exploiting design data from previously completed projects. Use of this tool ensures that previously designed models and components can be easily located and reused
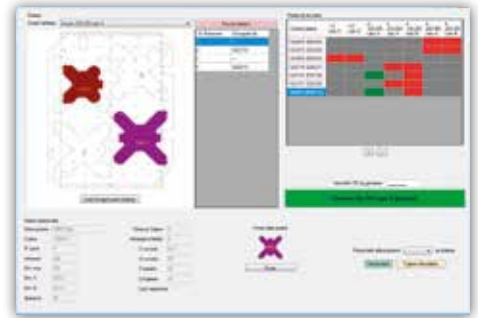
Customised Implementation and Solutions

CAD.I.TECH believes in enhancing the skills of client companies and has gained extensive experience in developing customised solutions, based on its Parametric Technology products.

In-depth knowledge of development environments dedicated to Pro/Engineer®, Creo®, Pro/INTRALINK®, Windchill® and PDMLink®, together with the know-how acquired in various Technical and Engineering Departments, enables CAD.I.TECH to explore and offer solutions designed to meet any technical requirements.

Custom Solution Example:
Quality Certification Editor for Electric Transformers

Custom Solution Example:
User Interface for placement of machining parts on Plateau and generation of ISO file

Services

CAD.I.TECH offers far more than software distribution and implementation. Technical Support for users, in their everyday use of the tools provided, is a further guarantee of success.

Maintenance and Application Management services ensure the necessary continuity over time, as hardware and software are developed hand in hand with companies' expansion requirements.

Training in Techniques and Design for CAD and PDM platforms, as well as training in development environments dedicated to them, complete the range of services offered.

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