

Product overview

- Create a single, managed source for all corporate materials data and trusted reference sources
- Control data for accuracy, consistency, traceability, and security
- Support materials and manufacturing choices—optimize design, reduce cost, avoid restricted substance risk...
- Commercial-quality enterprise software, unique in its field: robust, scalable, and maintained

Packages for:

- Materials data management
- Aerospace & energy
- Medical devices
- Restricted substances
- Materials strategy
- Composites
- Steels
- Plastics



GRANTA^{Mi}

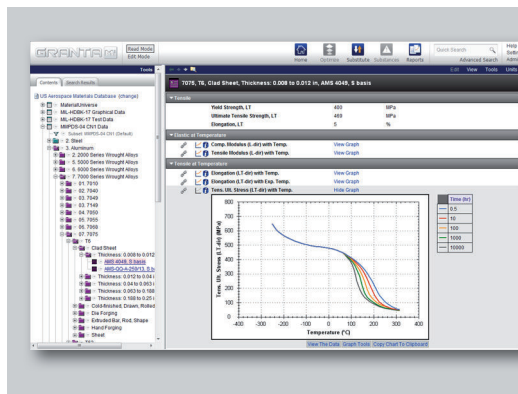
MATERIAL INTELLIGENCE

“...such an enormous efficiency gain is more important to our site and our industry... than it has ever been.”

Rolls-Royce (more comments at www.grantadesign.com/customers/reports.htm)

GRANTA MI™ is the leading system for materials information management in engineering enterprises. Its unique database is specifically designed to store materials properties and other data relating to materials. A series of powerful software tools help you to control, analyze, and apply that data. Developed in collaboration with top engineering organizations, GRANTA MI helps you to increase quality, innovate, make key materials decisions, save time, and reduce risk.

With GRANTA MI you can create a single corporate materials information resource, importing data from in-house testing and design, other proprietary sources, and trusted references. Materials professionals use GRANTA MI to manage, analyze, certify, and maintain this data, publishing it in a secure and controlled manner. Engineers, designers, analysts, EH&S professionals, managers, and others use GRANTA MI tools to access and apply approved materials information and related tools within their routine workflows. They know that the data they are using is relevant, traceable, and the best available.



GRANTA MI makes it easy for engineers and materials scientists to find and use the information that they need via a simple web browser-based interface. More intensive tasks are performed via Windows applications. Export facilities and application programming interfaces enable integration with standard tools within the engineering workflow.

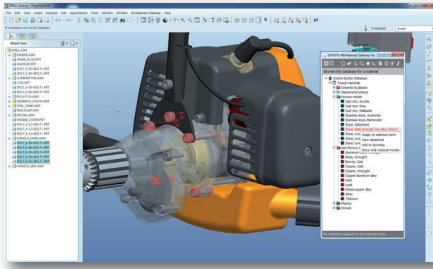
Why GRANTA MI?

- **Efficiency:** A single, consistent, easily accessible, and searchable source of information cuts time wasted in finding and reconciling data, reduces unnecessary duplication of tests, and ensures that valuable knowledge is not lost or unused.
- **Quality:** Tracking the pedigree of data and ensuring that you use only up-to-date and properly-certified information eliminates concerns about data integrity, ensures that decisions are taken on the basis of the best available information, and guarantees the accuracy of comparisons and analyses in the design process.
- **Innovation:** Continuous improvement and breakthrough insights come from having all of your organization's materials data readily available and open to analysis.
- **Decision support:** Powerful tools help you select and substitute materials, factor in corporate strategies and regulatory issues, and implement materials decisions throughout the enterprise in a consistent manner.
- **Risk and liability:** Data security, traceability, and accuracy limit risk in the product design process and ensure that you can quickly and reliably diagnose problems.

GRANTA
MATERIAL INTELLIGENCE

www.grantadesign.com

Product overview



Support for design and analysis

GRANTA MI tools are accessed from the engineering desktop via the route most appropriate to the task and user. The core MI:Viewer interface provides simple access via a web browser. Some tools, such as MI:Toolbox, work via a stand-alone PC application. Others are fully integrated into Microsoft Excel.

MI:Materials Gateway enables full integration with third party software, such as CAD, CAE, and PLM. In the example pictured above, a GRANTA MI window has been opened within a CAD package, enabling the user to find materials from the corporate materials database and assign appropriate property data to the parts in the CAD model.

Data products

Complementary data modules providing data from leading reference sources can be loaded into your GRANTA MI system. Examples include: MMPDS and ESDU aerospace alloys; Firehole Composites; StahlDat SX steels; CAMPUS and IDES plastics; and CMH-17, AGATE and NCAMP composites.

Further Information

www.grantadesign.com/products/mi/

GRANTA MI system modules

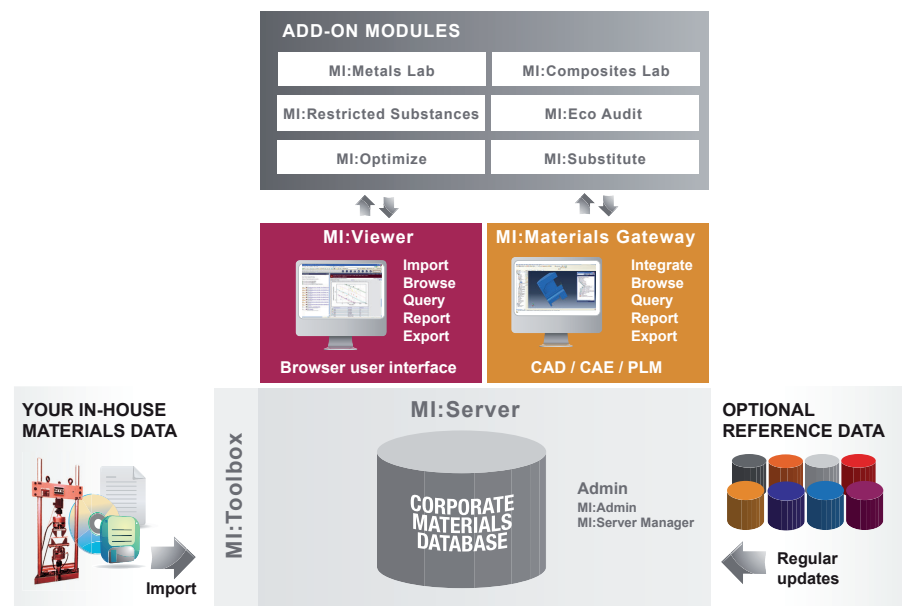
MI:Server—This robust, scalable materials database system can be populated with in-house materials data and your choice of external reference information. Simple Windows tools help you administer the database. MI:Server handles a wide variety of data types (numbers, graphs, functional data, documents, images, multimedia) and offers enterprise data management features such as security and version control.

MI:Viewer—The core web browser-based user interface with tools to browse, query, report on, edit, import, and export data.

MI:Materials Gateway—Access and apply data in your GRANTA MI system from within CAD, CAE, PLM and other third-party software.

MI:Toolbox—An easy-to-use Windows application that helps you import, process, and manipulate large quantities of data to build your materials database.

Add-on modules—MI:Metals Lab captures and analyzes metal test data; MI:Restricted Substances supports compliance and design for restricted substances; MI:Substitute identifies equivalent and replacement materials; MI:Optimize helps you optimize materials performance and cost. MI:API integrates in-house applications.



Recommended packages

Combine Granta system modules and data products to build your system. To help you, we've defined a number of recommended packages—see website for details:

MI:Data Management—the tools for best practice materials data management.

MI:Aero—for aerospace and similar applications: manage materials data, determine design allowables, ensure traceability, access alloy and composite reference data.

MI:Medical—for medical device design: capture project data for re-use, minimize risk, access valuable reference information.

MI:Restricted Substances—ensure compliance and enable design in the context of restricted substance policies and regulations.

MI:Materials Strategy—enable a consistent, systematic approach to materials selection, substitution, and cost optimization, enterprise-wide.

MI:Composites, MI:Steels, and MI:Plastics—manage test data and access leading reference data for each of these materials areas.