

Highlights

- Dramatically reduce time required to consolidate data sources by up to 80%
- Make decisions up to 50% faster and spend more time analyzing information for solutions to achieve W&B targets
- Visualize, analyze and predict risk and opportunities at any point during the PLC
- Run what-if scenario's resulting in actionable information for key decision makers
- Track and control the maturity of the product



Accessible through Web Browsers such as: Explorer, Mozilla, Safari

"At every point during development, we can provide moment of inertia calculation as input for load computation. This previously took us 4 weeks preparation using Excel, now it takes us just 1 day."

Kai Thraene
Head of Weight & Balance
Airbus Helicopters

Weight Analytics

Altair's Weight Analytics (WA) solution manages the entire Weight and Balance (W&B) process empowering engineering and management teams to control and ensure W&B attributes meet program requirements. Deployed as a common weight management tool across the enterprise, WA enables faster and more accurate decision-making with on-demand access to visualize, analyze and predict W&B at any point in time during the entire Product Lifecycle (PLC). Highly configurable to work seamlessly within any IT environment, WA's open architecture design streamlines time consuming repetitive tasks associated with data consolidation to provide the "right" information when it is needed.



CONTROL THE PROCESS

Monitor Weight Along Time
Explore Solutions

Start from the functional view [supporting the concept phase] and evolve to the engineering bill of materials view as development progresses, WA automatically aggregates the latest product details directly from incumbent systems and data stores.

Business Benefits

Data Reliability

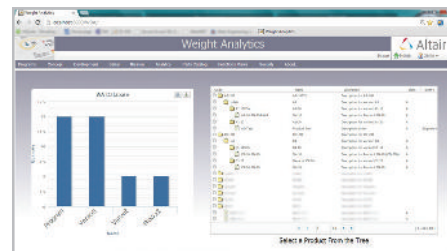
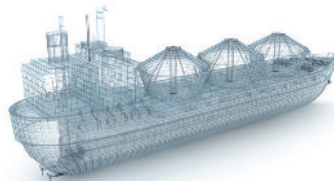
- Consistent and stable information
- Instant status of product maturity
- Standardized reporting

Secure Collaboration

- Supplier data exchange
- Feedback loops and hand-offs
- Certification reports

Informed Decisions

- Simplified/automated what-if analysis
- Insightful, dynamic analytics dashboards
- Revision Control (comparing BoM's and parts revision)
- Accurate, repeatable weight assessment and forecasting capabilities mitigating risk



Monitor and analyze KPI's based on Mass, CoG and inertia through a single Web-based interface retrieving information from various company systems

Weight Analytics

Baseline Solution

Altair's solution allows for all phases to be analyzed in parallel using new and legacy information – without losing any data in the process. This gives the capability to continuously compare in the different phases (ie: as conceived, as designed, as built and as maintained).

- Supports Weight and Balance engineering over all phases of product life cycle.
- Manages/compares functional and BoM views in any phase of the PLC – start where you want.
- Accommodates forecasting weight bandwidths, risks and opportunities.
- Analyzes what-if scenarios throughout the entire PLC.
- Deeply embedded analytics enable self-driven data exploration and informed decisions based on KPI's.
- Automates data retrieval and aggregation from multiple data sources with secure access management.
- Creates a secure collaboration by providing controlled access inside the company and with partners/suppliers.

Capabilities

Altair's Weight Analytics tool retrieves information from various enterprise systems such as:

- CAD (W&B calculation results, P/N attributes).
- ERP – Manufacturing BoMs (Material Part List, Versioning, etc.).
- PLM – Engineering BoMs (Product Development).
- ERP – Product Data (Actual Product Weights).
- Data stores, Excel and ad hoc data sets.

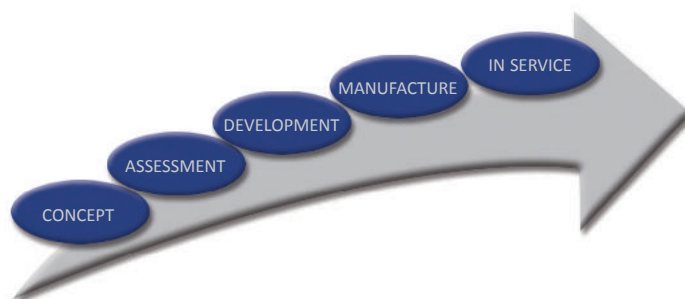
Single User Interface – Secure and Reliable

- Manage, review and share W&B information through standard and tailored graphs and reports.
- Powerful functionality to manage/compare BoM's at any time throughout the PLC.

Deployment

Altair's team will work to understand your unique needs and practices to ensure that our weight analytics solution meets your specific requirements. Our experts support the following tasks:

- **Evaluating** current methods of your W&B process.
- **Aligning** the solution with your enterprise needs e.g. connect to your databases, comply to company standards and naming conventions, etc.
- **Providing** quick start and periodical checkpoints to ensure a successful user experience.



Altair Engineering, Inc.
1820 E. Big Beaver Rd. Troy, MI 48063-2031 USA
Phone: +1.248.614.2400 • Fax: +1.248.614.2411
www.altair.com • info@altair.com

For more information about Weight Analytics and other Enterprise Solution Offerings, contact us at info@altair.com

Altair's Enterprise Software and Solutions division helps companies to solve business and engineering problems at the desktop, team and enterprise levels. We work closely with our clients to increase organizational efficiency and decision-making by building solutions that are tailored to their unique environment and processes. These solutions include: cloud-based simulation and high-performance technical computing, CAE workflow automation, and specialized data analytics applications.