

CRANE WB

Crane Weight & Balance

is a modern web-based module within Hitit's Crane suite that ensures precise load planning and safety through dynamic aircraft weight and center of gravity management; whether used standalone or integrated.

Maximize Safety, Efficiency & Profitability

CraneWB revolutionizes ground load control with its intelligent, user-friendly interface and powerful optimization engine; delivering safety, operational agility, and measurable fuel and cost benefits. Whether integrated within the Crane suite or implemented on its own, this module ensures airlines can achieve modern, sustainable load management.

Intelligent Weight & Balance for Safe, Efficient Operations



Why Crane WB?

Web-Based & Lightweight Deployment

Fully compatible with standard browsers and requires no special hardware; allowing swift adoption either as a standalone tool, or tightly integrated with Crane DCS for real-time passenger and baggage data synchronization.

Visual Load Planning with Instant Compliance Alerts

The intuitive graphical trim display enables dynamic visualization of loading, with immediate alerts when any compatibility or weight limits are surpassed.

Automated IATA-Compliant Documentation & Messaging

Handles all computations to generate LIRFs and load sheets in IATA format, enhancing operational precision. Capable of sending load sheets directly to the aircraft via ACARS, and distributing LDM, CPM, and MVT messages automatically via SITATEX or email.

Sophisticated Load Optimization for Safety & Efficiency

Equipped with a powerful preload/autoload function, the module optimizes load distribution using airline-defined rules — including dangerous goods, special loads, and center-of-gravity constraints — delivering fuel savings and performance gains.



Enhanced Traceability & Custom Development

Every user action and process step is logged, enabling operational audits and continuous improvements. Hitit also offers expedited custom development to meet evolving industry standards and customer-specific needs.

Operational Efficiency & Fuel Reduction

According to Hitit, optimizing weight distribution — even by up to 1.0% — can lead to remarkable fuel savings. For an airline operating 30,000 flights yearly, this could mean over USD \$1 million in annual savings.

Mobile First for Flexibility & Sustainability

The mobile enabled version of Crane WB empowers ground crews to manage weight and balance in real time from any device—reducing paper use, enhancing turnaround times, and supporting sustainability goals.

Key Features

- Web-based interface with graphical trim visualization
- Dynamic weight limit checks and instant alerting
- Automated generation of IATA-compliant LIRFs and load sheets
- ACARS load sheet transmission, LDM/CPM/MVT messaging via SITATEX or email
- Preload/autoload optimization with configurable airline rules
- Audit logging for process traceability
- Standalone operation or seamless integration with Crane DCS for real-time data
- Mobile ready access for flexible ground operations
- Fuel and cost savings through optimized load planning
- Efficient staff and shift management with load controller licensing and certificate tracking