crane.WB

CRANE
WEIGHT &
BALANCE

A proper weight and balance control is one of the most important factors, ensuring an efficient and safe aircraft operation. The weight and balance system used in aircrafts consists of three equally important elements: weighing the aircraft, maintaining weight and balance records, and the proper loading of the aircraft.

Overview

Crane Weight & Balance is a web-based solution that is compatible with all standard web browsers with no specific requirement. The graphical trim display makes load planning easy. Compatibility and load limitation checks are made dynamically as the deadloads and passengers are positioned. Clear alerts are shown on the screen instantly. The application accurately and safely manages all the necessary computations to produce the loading instructions (LIRF) and load sheets in IATA format. Sending load sheets directly to the aircraft via ACARS, while LDM, CPM, and MVT messages can be produced automatically, and all messages can be sent via SITATEX or e-mail.

Crane Weight & Balance supports a standalone mode and provides full functionality with an internet connection. In addition, it is integrated with Crane DCS, which accesses real passenger and baggage figures immediately.

Crane Weight & Balance is used by Crane family member airlines and by ground handling companies which serve major airlines.

used by airlines and ground handlers in **Asia, Africa** and **Europe**
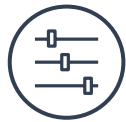
Benefits

Autoload Function

Pre/Autoload function enables a powerful optimization of load distribution to get an ideal aircraft CG; considering not only the fuel & aircraft performance efficiency, but also an operationally efficient loading by means of several auto applied loading preferences, restrictions, and company rules including Dangerous Goods and Special Loads. While offering the ideal aircraft CG, Crane WB covers every aspect of a totally optimized loading.

Crane WB System reduces the users' workload arising from additional data insertion by providing default settings defined according to the industry's operational requirements.

Near-Result Calculation of Estimated Zero Fuel Weight (EZFW)

Crane Weight & Balance provides users an EZFW with the booked load of passenger and deadloads, which helps the dispatcher to specify the optimum fuel for cost-savings. The system allows users to make calculations according to the booked passenger figures, some of the booked and checked figures, as well as the total checked figures.

Multiple/Variable Weight Limitations

Crane Weight & Balance allows users to define different maximum weight definitions depending on changing conditions such as inclement weather, runway/airport etc. Due to these conditions, the aircrafts' flight based "Maximum Zero Fuel Weight", "Maximum Take-off Weight" and "Maximum Landing Weight" limits can be reduced by the user. Looking at the definitions, the end-user can easily select the condition name, and the maximum weights of the aircraft are modified easily for the related choice and flight. Not only constant values but also linearly changing dynamic values can be calculated by the system according to the actual weight of the aircraft.

Load Control Interchange Message

Crane Weight & Balance receives and processes the Load Control Interchange Message that provides the third party DCS systems' checked-in passenger figures. If third party DCS providers send an LCI message to the Crane Weight & Balance solution, the message is received, and the passenger figures are processed and easily accepted into the system. Therefore, in addition to being a standalone solution, Crane W&B allows integration with all DCS providers and saves time.

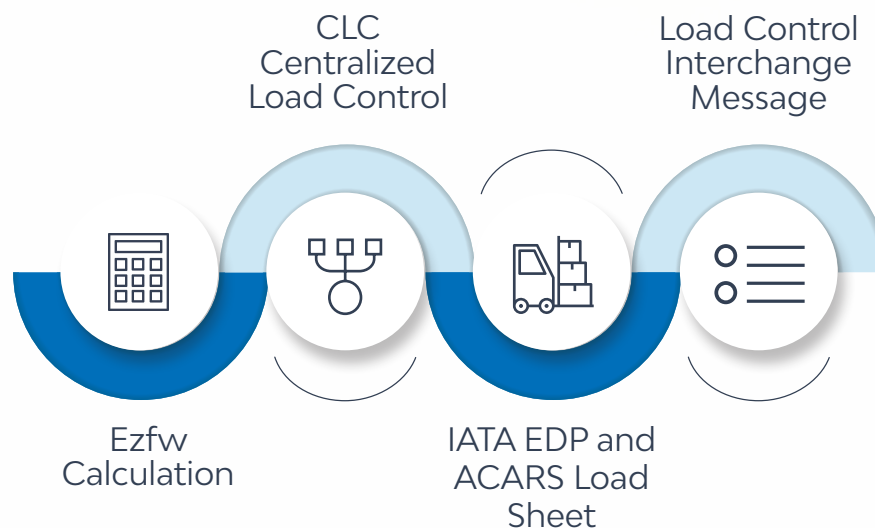**seamless integration** with Crane Solutions

Key Features

Crane Weight & Balance is used by Crane family member airlines and by ground handling companies which serve preliminary airlines.

- Dynamic weight and index control
- All documents compatible with IATA standards (Loadsheet, LIR and NOTOC)
- Autoload function
- User friendly interface/graphical view
- Support for both narrow and wide body aircrafts/multileg flights
- (up to 6 legs)
- Conditional CG definition
- AHM data export/import in XML format
- Flight process tracking
- Centralised Load Control
- TRC Check Menu/Collective report via ftp in csv format
- User certificate tracking/User assignment
- ACARS in SITA and ARINC format
- Multi language support
- Communication between CLC users and checkin users
- Function for sending Loadsheet, LIR and NOTOC forms via email or telex
- Regulated max weight
- Standard/non standard fueling
- Auto sending function for LDM, CPM and UCM
- Offline mode
- Integration with 3rd party DCS system

total
handled
flights
210 000+

Components

CLC
Centralized
Load Control

Load Control
Interchange
Message

Ezfw
Calculation

IATA EDP and
ACARS Load
Sheet

Turnkey solutions for every step on the way.

AIRPORT

BOSS

SHOP

Lounge

PARIS
NEW YORK
ROME
LONDON

TOUR

GATE

crane.IBE
crane.APP
crane.TM
crane.PAX
crane.SP
crane.OTA
crane.RA
crane.CA
crane.BPI
crane.MA
crane.CGO
crane.BRI
crane.DOM
crane.DCS
crane.ALM
crane.OCC
crane.LL
crane.WB
crane.CREW
crane.CCL

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Passenger Service System	
crane.PAX	Reservation & Passenger Service
crane.IBE	Internet Booking Engine
crane.MA	Mobile Application
crane.ALM	Allotment Manager
crane.DCS	Departure Control System
crane.WB	Weight & Balance
crane.BRI	Baggage Reconciliation Itinerary
crane.LL	Loyalty Layer
crane.CCL	Customer Care Layer

Operations Planning	
crane.SP	Schedule Planning
crane.OCC	Operations Control
crane.CREW	Crew Management

Accounting	
crane.RA	Revenue Accounting
crane.CA	Cost Accounting
crane.BPI	Business Performance Index

Merchandising	
crane.TM	Travel Merchandising

Travel Solutions	
crane.OTA	Online Travel Agency
crane. APP	Agent Portal Plus

Cargo	
crane.CGO	Reservation &Cargo Services
crane.DOM	Domestic Cargo Services

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Better. Together.

Hitit

Crane is a brand of Hitit.
The consistent increase in Hitit's customer base and geographic reach, as well as continuous follow up business with existing clients are strong indicators that Hitit has achieved high level of customer satisfaction with its offerings, combining an agile approach to their needs with a team that works closely with them as partners on their business.

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