Weight & Balance

Innovative Information Technology Takes a Load off Your Mind



Safety and productivity are top priorities for any cargo carrier. CHAMP Cargosystems' industry leading Weight & Balance solution makes aircraft loading more efficient, cuts costs and maximizes space utilisation. It also makes flying safer. The customer driven development sets industry standards. It ensures compliance with all IATA operational and safety requirements and individual operators' business rules. It can be seamlessly integrated into existing IT systems.

Benefits

- Most advanced, intuitive and user friendly application
- Message processing vastly reduces data entry
- Optimized autoload positions full load in seconds
- Loadmaster retains full control of the loadplan
- Significant fuel savings by consistent achievement of target MAC
- Reduced loadsheet preparation time
- Increased efficiency an productivity
- Fewer load planning errors and delays
- Intelligent multi-sector flight loading facilitates efficient unloading
- Comprehensive security and audit trail

Next generation load planning

CHAMP Cargosystems' Weight & Balance solution is a powerful, yet intuitive and easy to use tool for load planning. The state-of-the-art application automates and speeds up load planning processes and loadsheet preparation for full freighters. Loads are positioned graphically using drag and drop. The industry leading optimized autoload module can even plan a full aircraft to the optimal MAC in seconds while the loadmaster retains full control, especially over positioning complex loads. Autoload will also intelligently plan multi-sector flights to maximize efficient unloading and cuts time on the ground.

Drive for cost savings

CHAMP's Weight & Balance produces the legally required documents for each flight, complying with EU-OPS 1.625 loading instructions, report forms and loadsheets. It is fed and populated by IATA standard and CargoIMP messaging which reduces input errors and saves up to 70 % of processing time. The intelligent load planner provides far more accurate results than previously used manual and excel based solutions. Significant fuel savings can be realized by consistent achievement of the target MAC. Higher operational efficiency and lower costs make a positive contribution to a carrier's financial performance. Weight & Balance is a well-proven tool and at the same time the most advanced on the market, and one of the fastest.



Features

- Web application runs on standard browsers
- Rich graphical load display
- Drag-and-drop planning facility
- Dynamic checking of load limitations
- Enhanced accuracy using formulae instead of tables
- Clear alerting of incompatibilities
- Optimized autoload including intelligent planning of multi-leg flights
- Full management and control of complex loads
- Supports industry standard messaging
- Complies with EU-OPS 1.625
- Stand-alone mode gives full functionality without an internet connection
- Comprehensive security and audit trail including access to all loadsheets

All freighter aircraft are supported including: 747F (all versions), 777F, 757F, 737F MD-11F A330-F

Designed by loadmasters for loadmasters

Industry leading optimized autoload

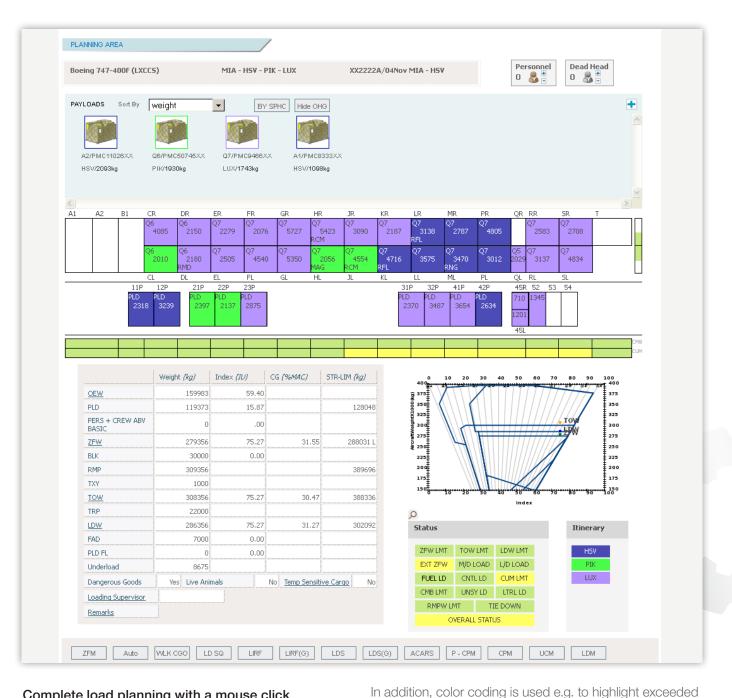
CHAMP's Weight & Balance is a web-based solution that works with all standard internet browsers. Drag-and-drop functionality and rich graphical displays make load planning easy. Use of formulae instead of tables for aircraft configurations allows safe and accurate load planning while fully utilizing the available capacity. Linear interpolation enables calculations to be made to the nearest balance arm cm or inch. Compatibility and load limitation checks are made dynamically as the ULD is positioned. Clear alerts instantly highlight any discrepancies. The application accurately and safely manages all the necessary computations to produce loading instructions (LIRF) and loadsheets (graphical and IATA formats). All relevant messages (UWS, FUM, CPM, PLI, etc.) are fully supported.

All these features cut average load planning time already significantly but the industry leading, rules based autoload capability takes the benefits to a new level. With a single click of the mouse, a full ULD load can be positioned in seconds, consistently achieving the optimal MAC defined for the aircraft.

CHAMP's Weight & Balance supports a standalone mode giving full functionality without an internet connection. Flight and aircraft data are downloaded from the central servers and completed load plans are uploaded when internet access is available.

FLIGHT PROGRESS		/	
Boeing 747-400F (LXCCS)	MIA - HSV - PIK - LUX		XX2222A/04Nov MIA - H5
Preparation	Status	Action	
LoadPlanning		👲 Update	
Display/Update Fuel		🗄 Update	
Display/Update Payload		🕁 Update	
Open Load Sheet		👲 Open 👲Ope	
Open Loading Instruction		👌 Open 👌 Ope	
Persons on board		\land Update	
Messages	Status	Action	
UWS In	(0 received)(0 rejected)	🗄 View	
FUM In		👲 View	
CPM In		🗄 View	
Estimate ZFW		👲 View	
ZFW		👲 View	
Fuel In		🗄 View	
CPM Out		🗄 View	
ACARS Sent		🗄 View	
UCM Out		🕁 View	
LDM Out		🕁 View	
		1	Back

A simple solution for a complex problem



Complete load planning with a mouse click

A clear and uncluttered screen facilitates the loading process. The load, which can be created automatically from an inbound UWS message received from the cargo operational system, is displayed graphically across the top of the screen. Detailed information is displayed in a pop up box by hovering the mouse over the ULD.

critical limitations. The load plan can only be finalized when the entire load has been positioned and all checks are green or yellow. Alternatively, autoload will complete the planning of the flight in a few seconds on the click of a mouse, optimizing the load plan to the target MAC for the aircraft but respecting all the same

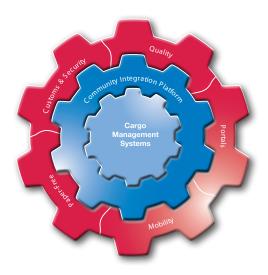
compatibility and load limitation checks.



Dragging a ULD onto a position initiates all the calculations dynamically. Any discrepancies are clearly indicated.

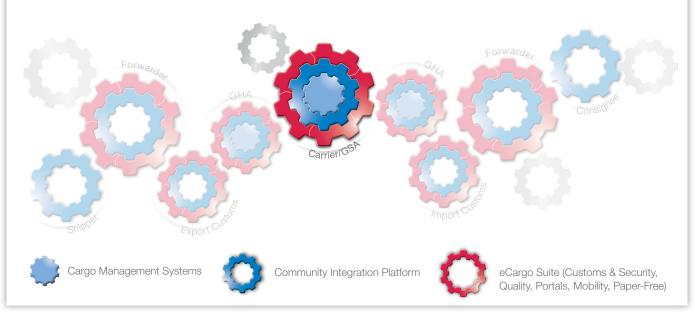
Our Portfolio

CHAMP Cargosystems provides the most comprehensive range of integrated IT solutions and distribution services for the air cargo transport chain. Our portfolio spans Cargo Management Systems, messaging and integration services through our Community Integration Platform and a comprehensive suite of eCargo solutions. These include applications to meet customs and security requirements, quality optimization, as well as e-freight and mobility needs. The products and services are well known under the Cargospot and Traxon brands.



The CHAMP Global Community

CHAMP serves over 200 airlines and GSAs and connects these with some 3,000 forwarders and GHAs. Our global community ranks among the largest in the industry. The size and combined expertise of the CHAMP global community allows us to leverage economies of scale to the benefit of all.



CHAMP's Weight & Balance is available for all freighter aircraft.

About us: CHAMP Cargosystems was founded in Luxembourg in 2003 as a 100% subsidiary of Cargolux Airlines. In January 2005, CHAMP was merged with SITA Cargo (UK) Ltd. Only three years later, we acquired Softair AG and the acclaimed Cargospot portfolio. The company expanded rapidly and in 2010 opened a development center and operational office in the Philippines. In November 2011, we took over Traxon Europe, a provider of leading edge electronic communication solutions. Some 450 people are now working for CHAMP all over the world. We provide global solutions delivered locally to you. For further information see: www.champ.aero CONNECTED THINKING FOR THE AIR CARGO COMMUNITY



Global Headquarters CHAMP Cargosystems S.A. Lux Tech Center building 2, rue Edmond Reuter Zone d'Activités « Weiergewan » L-5326 Contern Grand Duchy of Luxembourg Tel: +352 268 16 100 Fax: +352 268 16 401 e-mail: info@champ.aero

www.champ.aero

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