

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 freighter Weight & Balance solution makes cargo aircraft loading more efficient, cuts costs and maximizes space utilization. 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 autoloading positions full load over multiple destinations in seconds
- Loadmaster retains full control of the load plan
- Significant fuel savings and reduction of carbon footprint by consistent achievement of target MAC
- Reduced loadsheet preparation time
- Increased efficiency and productivity
- Linear calculation and built-in rules reducing load planning errors, last minute changes and delays
- Intelligent multi-sector flight loading facilitates efficient unloading
- Comprehensive security and audit trail

Next generation load planning – introducing compatibility with freighters

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. As a recent evolution, Weight & Balance can now also be used for 'freighters', meaning converted passenger widebody aircraft carrying cargo in the cabin. Loads are positioned graphically using drag and drop.

The industry leading and further optimized autoloading module can plan a full aircraft to the optimal Mean Aerodynamic Chord (MAC) in seconds while the loadmaster retains full control, especially over positioning complex loads. Autoloading is constantly enhanced to also intelligently plan multi-sector flights to maximize efficient unloading and cut time on the ground.

CHAMP also provides a standalone version which allows the airline to operate ad hoc Charter to remote destinations without WiFi coverage – all data is simply synchronized with the live system - flight and aircraft data are downloaded from the central servers and completed load plans are uploaded once a network connection becomes available.

Drive for cost and time savings

CHAMP's Weight & Balance produces the legally required documents for each flight, 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 with the new Microsoft Excel feature data import is optimized. Due to the linear approach, the intelligent load planning algorithm provides far more accurate results than previously used manual or table-based solutions. Significant fuel savings can be realized by consistent achievement of the target center of gravity MAC set by the airline. 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
- Approved with several national Civil Aviation Authorities including FAA, CAA and others
- Optimized autoload including intelligent planning of multi-leg flights
- Full management and control of complex loads
- Supports industry standard messaging
- Stand-alone mode gives full functionality without an internet connection
- Supports 'freighter' cargo loading in passenger cabins
- Continuous improvement as load planning tool
- Comprehensive security and audit trail including access to all legal reports

All modern freighter aircraft supported including:
B747F (all versions), B777F, B767F, B757F, B737F, MD11, A330-200F, A321-200F

Freighter aircraft:
B787-800, B787-900, B777-200 B777-300, A350-900

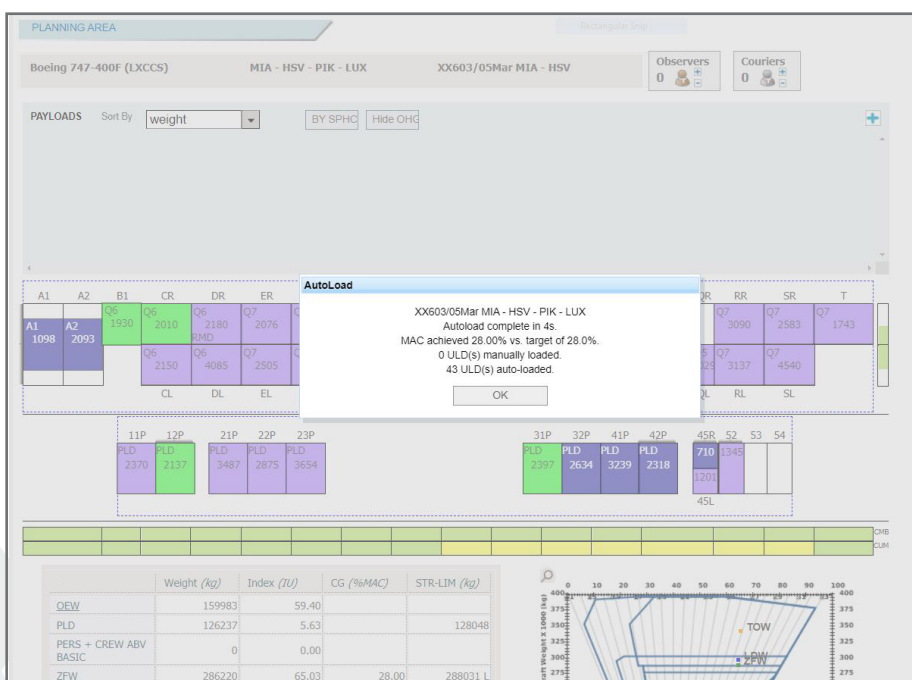
Designed by loadmasters for loadmasters

Industry leading optimized Autoload

CHAMP's Weight & Balance key Autoload feature is a unique decision support system allowing automation and optimization of one of the most complex, critical and sensitive Freighter operations, leveraging research and development based on mathematical optimisation.

Focusing on flight safety and performance, with a single key stroke or click of a mouse, Autoload will position complex load of a freighter within seconds. All load limits, compatibility rules, and dangerous goods restrictions are fully checked and respected. Multi-leg flights, large pallets, linked and associated pallets are fully supported and the load will also take unloading at transit stations or final destinations into account. More efficient load planning has obvious cost savings, but also leads to vital fuel efficiency and reduction of carbon footprint.

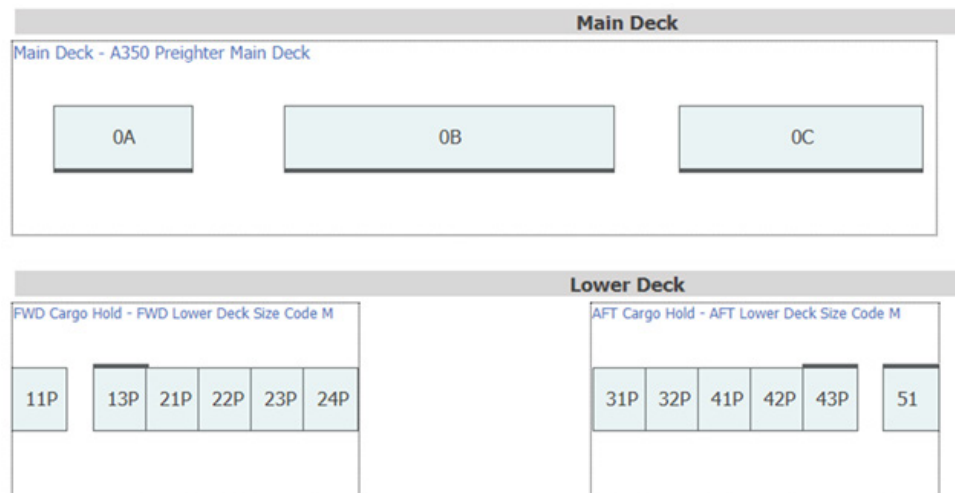
With advanced optimization techniques and parameter customization, Autoload proposes an extremely accurate load planning in a few seconds.



Supporting PAX to freighter conversions

Innovative features to help expand your cargo capacity

Weight & Balance, traditionally a pure freighter handling solution, can also provide load planning for airlines who wish to meet demand and expand their cargo capacity in the cabins of their passenger fleets. With aircraft that are not structurally designed to operate as freighters, there can be extensive duplication of work for inputting data for load planning for these 'freighters'. The solution breaks down the passenger cabin into three to four zones respecting areas that cannot be reconfigured - such as galleys and lounge areas. It interpolates the weight on every individual inch of the balance arms within that section and provides 100% accuracy and safety. Since the Load Controller only needs to make one total weight entry and drag & drop it into the position, the time benefit is nearly 100%, reducing the actual planning time from approximately 90 minutes to a mere 10 seconds.



Load planning screen Airbus A350-900 preighter

A simple solution for a complex problem



Weight & Balance Planning Tool

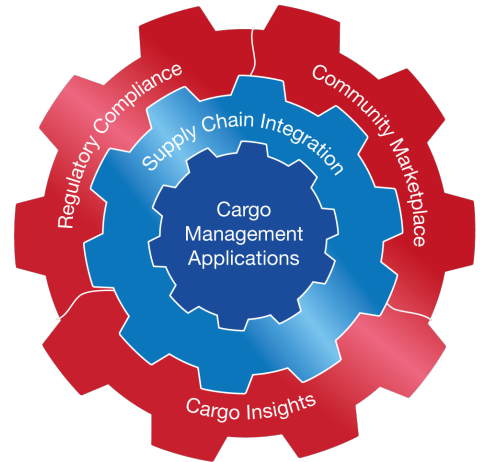
GSSAs and Freight Forwarders can now benefit from CHAMPs advanced load planning tool helping them in closing critical gaps between the sales, the warehouse and the ramp to optimize pallet build up reducing last minute offloads and securing scheduled departures.

The planning tool allows the GSSA or Freight Forwarder to safely plan payload considering all structural limits and airline specific rules and issues a pre-load plan to the airline.



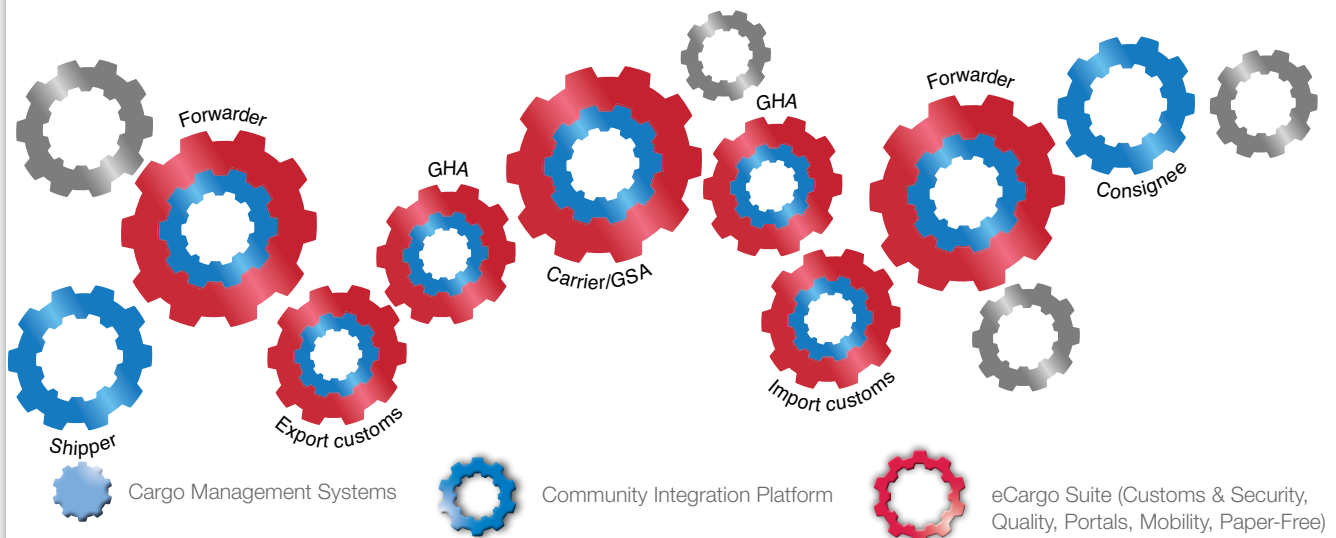
Our Portfolio

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, Traxon and Logitude 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.



About us: CHAMP Cargosystems was founded in Luxembourg in 2004 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 500 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
Website: www.champ.aero

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