

# PSIairport/W&B Weight and Balance

PSI Logistics' Weight & Balance system is built with the technical support of experts from Germany's major airports. The core software provides all the key functions needed for a Weight & Balance system. The latest software architecture also ensures that the system can be upgraded or tailored to individual requirements with ease.

In addition to the advanced software architecture the system also offers innovative functional and ergonomic features such as:

- „single screen interface“: all the steps of the „weight & balance process“ are activated and controlled from one central dialogue. The effects of the inputs are immediately shown in the results displayed to the user.

- The system can be run on one or more workstations.
- Automatic interfaces or manual data administration: all process relevant data (e.g. flight-, passenger and baggage data) can be maintained manually or automatically transferred to the system via interfaces to existing systems.
- The system can be operated with or without the use of a mouse.
- User administration: the user administration allows the system to be safely operated by users with different levels of knowledge. For example: it is possible to permit only user with special knowledge to maintain aircraft data.

*Overview and transparency by the „single screen interface“*

The structure of the *PSIairport/W&B* system is arranged to allow use in several environments. The Weight & Balance System can be integrated into a DCS landscape or used as an independent system. The procedures are provided:

1. Basic planning: during the first step the important basic data is entered and/or computed such as fuel values (e.g. TOF, TIF) and weights (e.g. TOW). Adjustments of standard values (e.g. crew or MTOW) can be done at this stage. In compliance with the current JAR requirements the captains name, license number or load agent, endurance and EET can also be entered.
2. On-line planning: e.g. data such as passenger or baggage data received from the check-in procedure, can be supplied manually or via an automatic interface to the Weight & Balance System. This allows the distribution of weight to be calculated.
3. Control: the graphical representation of the results helps the user to decide if the aircraft is within limit values. It displays information about deviation from the permissible values graphically and as text output.
4. Finalize: with the finalizing process the relevant documents are provided in accordance with the airport handling manual (AHM). Other systems (e.g. airline hosts) are informed automatically by the Weight & Balance System.

Data, especially the maintenance data , can be taken directly from the pilot operation handbook (POH). Printing of the

relevant data lists and vouchers (e.g. load-sheet) is done in a standardized format in accordance with IATA Passenger Service Conference Resolution Manual.

The illustration of the operational sequences and the guidance of the operator through the so-called „single screen interface“ allows fast training and a simple and safe operation. This leads to a clear increase in the efficiency of the operational sequences and decreases training requirement.

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