

Jetway A380 Upper Deck Passenger Boarding Bridge



Full Scale A380 fuselage section located at FMC's manufacturing facility in Ogden, Utah

FMC Technologies introduces its new, fully functional Jetway A380 Upper Deck Passenger Boarding Bridge. The Jetway bridge is being used to demonstrate and refine key elements of A380 boarding bridge service. The Jetway bridge is fully operational and is available for our customers to come and operate.

Using the Jetway A380 bridge with a full scale model of the A380 fuselage section, complete with M2 and V1 doors, customers can test and verify:

1. Upper deck service and fit of bridge to the fuselage
2. Boarding bridge clearances to wing root, aircraft engines, and other bridges.
3. Various anti-collision sensors
4. Bridge operational techniques
5. Bridge docking procedures
6. The use and placement of ancillary equipment such as pre-conditioned air equipment and 400Hz ground power units
7. Bridge operator training
8. Any other customer specific aspect of A380 aircraft service



View of docked Jetway A380 Upper Deck PBB showing complete bridge



Evening view of A380 Upper Deck PBB showing adjacent standard range PBB capable of serving lower deck

Engineered to extend the vertical range of operation, the new Jetway A380 bridge allows for efficient loading of the passengers on the upper deck while simultaneously loading the passengers on the lower deck using a standard range passenger boarding bridge.

Heavy Duty Wheel Carriage and Hydraulic Lift Columns

FMC engineers have designed a new, low-maintenance, high-stability wheel carriage for the Jetway A380 bridge. The new wheel carriage for the A380 upper deck passenger boarding bridge is a robust, heavy duty design that incorporates features to increase operational longevity and stability. Among them are a larger cross beam, side mounted stabilizers, and solid rubber tires. The vertical lift column consists of a hydraulic cylinder encased within a larger size tube to provide an extended vertical range.



Operator Controls

The Jetway A380 bridge utilizes PC or PLC controls for operation, with commands originating through a touchscreen on the operator control panel. Programming can be customized to a customer's specific needs and can be linked into an Apron Management System.



Jetway Elevating Rotundas and Walkways

Jetway produces a variety of patented rotundas and walkways that elevate to different heights. When used in conjunction with traditional apron drive passenger boarding bridges, they provide solutions for serving a broader range of aircraft including the A380.

The elevating walks and rotundas allow single bridges to service different floor elevations at the terminal building. These flexible rotundas and walks also allow single bridges to service not only the A380 main deck and upper deck doors, but also smaller aircraft.

By allowing the bridge geometry to change, a single A380 gate can service smaller aircraft. In many cases an A380 gate can be configured to service multiple smaller aircraft types.



Elevating rotunda attached to terminal



Elevating rotunda used with an elevating walkway



Elevating walkway