Industry-Leading Radial Boarding Bridges for Regional Aircraft

Making the connection . . .

Serves Canadair RJ, Embraer 135/145/120, Fokker F-28/100, ATR, Dash-8, Q-400, BAE 146, Dornier 328, SAAB 340, Boeing 727/737

Solves safety, security and liability issues associated with ground boarding of commuter aircraft.

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Since DEW Engineering revolutionized the commuter aviation industry with the development of their radial passenger boarding bridge in 1998, nearly 200 Dewbridge units have been installed across the United States. The Dewbridge product solved three major issues for airports, airlines and passengers: safety concerns while ground-loading passengers; security concerns associated with managing those passengers, and comfort considerations for passengers in inclement weather.

Ameribridge acquired all rights to the Dewbridge product line in 2012, and is now taking the radial boarding bridge to an even higher level of service and reliability. Several design, engineering and component enhancements keep the new Ameribridge radial boarding bridge at the top of the aviation industry’s list for safety, security and comfort in serving commuter aircraft. We’re making the connection!

**Flexible and Adaptable**
With the Ameribridge radial drive boarding bridge, passengers at any commercial airport can enjoy the same level of comfort, safety and accessibility as passengers flying on larger aircraft.

The Ameribridge radial unit can be supplied to serve either ground-level or second-level gates. It is designed specifically to meet the needs of the current generation of commuter, regional and narrowbody aircraft.

**Safety and Efficiency**
A control panel located in the head of the bridge allows a single operator to control all bridge functions while maintaining a clear view of the apron and the aircraft. Variable speed controls and a telescoping head permit the operator to precisely and safely position the bridge during docking. A sensor package prevents potential damage to the aircraft or the bridge during operation. An auto-leveling unit ensures that the bridge remains properly aligned with the aircraft.

**Operational Advantages**
The 175-degree swing of the radial drive model permits aircraft to power in and out of a gate, and allows the bridge to be parked parallel to the terminal or walkway while the bridge is not in use.

All Ameribridge models are equipped with a service door near the head of the bridge to provide maintenance personnel with quick access to the bridge and the aircraft.

The Ameribridge radial bridge features a rotunda and pedestal system that normally requires no additional foundation other than standard apron concrete. This unique feature allows the radial Ameribridge to be installed at ground-level and second-level gates.

A special bridge cab floor can be used to accommodate aircraft with non-collapsible handrails or awkward door step configurations.
Design Features

Overall dimensions for the Ameribridge radial-drive model can be customized to suit specific site requirements. Our shorter model of the standard radial drive Ameribridge has been successfully deployed for commuter aircraft operation on limited space gates at Denver International Airport, Memphis International Airport, Detroit’s Midfield Terminal and at MSP’s Lindbergh Terminal.

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Safety and Accessibility

The radial Ameribridge and our fixed walkway systems meet or exceed applicable design and safety standards and guidelines. They are also designed and built to comply with NFPA 415 requirements. Our radial Ameribridge was developed to meet the American Disabilities Act (ADA) slope limitation of 1:12, with barrier-free design criteria. The exact slope of the Ameribridge radial unit depends on the floor height of the rotunda, the length of the bridge, the height of the docked aircraft, and slope of the existing ramp. Contact Ameribridge for specific layout information.

Operational Characteristics

Telescopic capacity – 8 feet (2.44 m)
Cab floor height range – 40 to 109 inches (1016 to 2769 mm); optional to 158 inches (4013 mm) maximum
Power requirements (bridge only) – 480 volt (30 amp); 600 volt (30 amp); 208 volt (30 amp)
Bridge length (center to center): Maximum 86’1”; minimum 30’1”
Ameribridge also features a shorter version of our standard radial-drive boarding bridge to accommodate concourses and gates with limited space and to provide airports and airlines with increased design and operational flexibility. Photos above and below show the compact radial bridges installed at Memphis International Airport.

The length of each bridge is customized to provide the client with maximum flexibility while optimizing project costs. Minimum bridge length from center of the rotunda to the center of cab is thirty feet and one inch (30’ 1”), and the maximum length is eighty-six feet and one inch (86’ 1”). If individual gate design requires additional length, fixed interface walkway is also available. Our bridges all feature energy-saving LED light fixtures for instant-on lighting.

Available Options

- adjustable cab floor
- handrails
- battery-powered emergency lights
- custom ceiling design
- special carpeting
- marine-grade plywood subfloors
- remote auto-level alarm
- ribbed rubber ramps
- customized ON-OFF-AUTO switches
- custom interior and exterior finishes
- cab floor extension
- proximity sensing (bridge to plane)
- heating and air conditioning
- cab floor heater
- additional duplex outlets
- tunnel insulation
- 400 Hz / 28 VDC units
- Amer-A-Lift valet baggage device
- 757 & A320 compatible