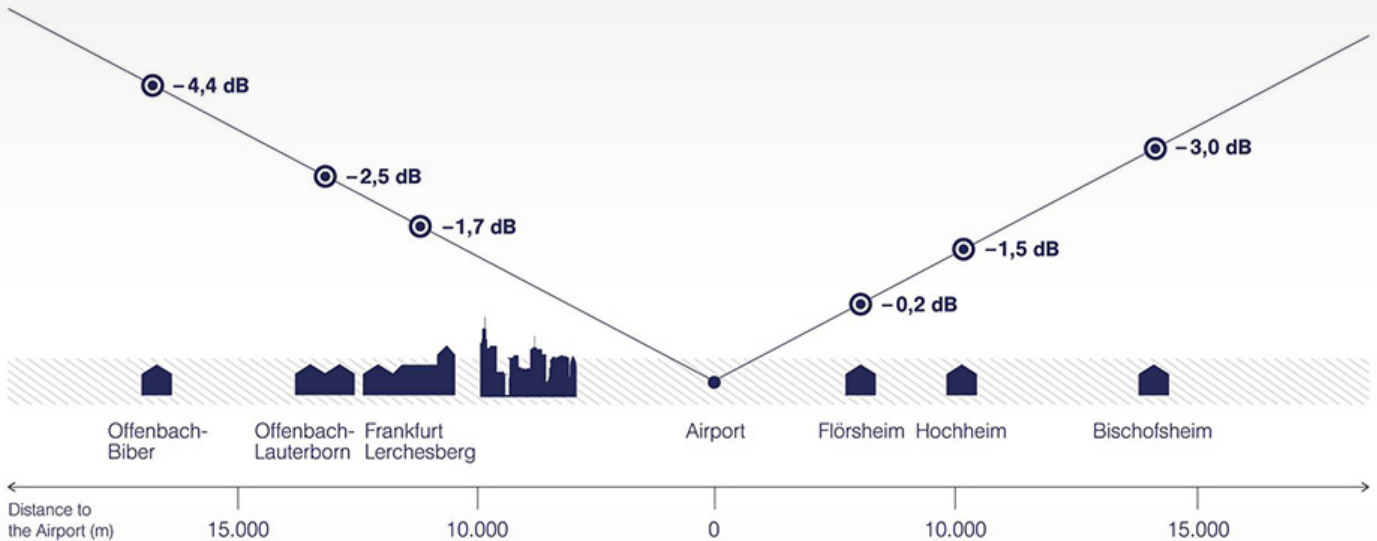


Noise reduction through vortex generators



Flight Noise Reduction Investment Technical Upgrades Noise Research Noise-Reducing Procedures Dialogue

Retrofitting the existing fleet

The Lufthansa Group is also retrofitting older aircraft in its fleet with noise-reducing technologies. In this connection the Group is working closely with the German Aerospace Center (DLR) and the various aircraft manufacturers.

Lufthansa is retrofitting more than 200 aircraft with vortex generators so that they will fly more quietly in the future.

In February 2014 Lufthansa became the first airline in the world to take delivery of an Airbus A320 equipped with vortex generators. A total of 157 aircraft in the existing fleet will be equipped with the new noise-reducing component, so that, when the expected new deliveries are added in, more than 200 A320 aircraft in total will be flying more quietly. As result, every second Lufthansa landing in Frankfurt and one in three in Munich will become audibly quieter. Overfly measurements revealed that the vortex generators are able to eliminate two unpleasant tones and thereby lower the aircraft's total noise level on approach by up to four decibels at distances between 17 and 10 kilometers from the runway. Thus the Lufthansa Group has realized a key objective of the "Alliance for More Noise Protection", a joint initiative of the Lufthansa Group, Fraport, the airline association BARIG, DFS, the Airport and Region Forum (FFR), and the government of the State of Hesse.

A320 audio tests

A320 audio tests with and without vortex generators on the final approach at Frankfurt Airport from the Offenbach-Lauterborn monitoring point

Further information

Retrofitting existing aircraft

Active noise protection – More than 200 Lufthansa Airbus A320 aircraft will become quieter from February 2014

Video: Active noise protection at Frankfurt Airport
Retrofitting of the Boeing 737 fleet

Press Releases

25.06.2015

Lufthansa now flying much quieter

12.02.14

Lufthansa takes delivery of world's first aircraft with vortex generators

29.10.13

Lufthansa to make majority of short-haul aircraft quieter

Sustainability Report



To find out more about responsibility within the Lufthansa Group, read the latest [sustainability report Balance \(E-Paper\)](#).

[Order](#) or [download the report](#).

Weitersagen





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Without vortex generators



With vortex generators



A320 audio tests with and without vortex generators on the **final approach at Munich Airport** from the Massenhausen monitoring point

Without vortex generators



With vortex generators



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