



Boeing MD-11/MD-11F (FT37)

Full-Flight Simulator

With our full-flight simulators we offer you a flight training that meets the latest technical standard and is tailor-made for the requirements of modern airlines. Naturally we adapt our simulators so that they reflect your fleet's systems environments and cockpit layouts as well as your airline's procedures. This enables you to orient your training to accord with your own line operations.

Location

Lufthansa Aviation Training, Frankfurt (Simulator-ID: FT37)

Simulator

Simulator Manufacturer	CAE; Canada
In Service Date	1990 in Zurich, since April 2001 in Frankfurt
Aircraft Model	MD-11/MD-11F
Registration (Master Aircraft)	D-ALCF
Product No.	FN 640
Simulator Host Computer	IBM RISC System/6000 model F50
Motion System	Hydraulic, digital, synergistic 6 DOF
Control Loading	digital, hydraulic

Aircraft System

Engine Version	
Primary Fit	General Electric CF6-80C2
Secondary Fit	Pratt & Whitney 4460 and 4462

Auto Flight System

Flight Control Computer	Honeywell, FCCs -908 (Orig. A/C units)
MCDU	Honeywell (Orig. A/C units)
Flight Management System	Honeywell, FMCs - 921 (Orig. A/C units)
TCAS II	7.1, Honeywell TPA-100B (Software simulation)
ACARS	Allied Signal (Orig. A/C unit)

IRU	Honeywell (Software Simulation)
EGPWS	Honeywell MK V (Orig. A/C unit)
GNS	Honeywell (Software Simulation)
SFDS	Meggitt (Orig. A/C unit)

Visual

Visual System Manufacturer	Evans & Sutherland
Type of Image Generator	EP-1000CT
Type of Display	CAE Wide Mirror 180x40 deg FOV, ESCP 2000 Projectors
Illumination Levels	Day/Dusk/Night/Dawn
Number of Airport Scenes	initially 75, later more than 100

Instructor Station

Display	2x20" LCD touch screens
Printer/Plotter	Monochrome Laser Printer
Number of Malfunctions	more than 350
Automated Training Lessons	available on request for Base Check, Conversion, LOFT, Refresher
Landing Training	Individual definition of a generic airfield (RWY Characteristics: Length, Width, parallel RWY; RWY Lights: VLA, Appr. Lights)
Multiple Weather Simulation	Provides setting of individual weather conditions at different airports
Unusual Attitude Recovery Training	not available
Predictive Windshear Scenarios	various windshear profiles available
Non-Predictive Windshear Scenarios	various windshear profiles for T/O and Landing available
TCAS	various scenarios with individual definition of intruder trajectory available
ATIS	available
ACARS Scenarios	various datalink applications
FMS Flight Plan Copy / Load	copy of entered flight plans and restore to FMC possible
Debrief Station/Video/Recording	Video available
Display Options	metric and/or imperial

Option

Electronic Flight Bag	Lufthansa Class II EFB Provision of Customer Options available on request
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Qualifications

German LBA	JAA Level D, annually, according to JAR-STD 1A, Amdt. 2
EASA-ID	DE-1A-038

Simulator Fleet

At our locations in Frankfurt/Main, Berlin, Bremen, Munich, Essen, Vienna and Zurich about 40 full flight simulators reproducing more than 20 aircraft types are at your disposal for cockpit crew training.

Klick here to find our full-flight simulator fleet: [Airbus](#), [Boeing](#), [Bombardier](#), [Embraer](#).

Klick here to find our [other training devices](#).