



# Boeing 737-800 (FT45)

## 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.

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**Location** Lufthansa Aviation Training, Berlin-Schoenefeld (Simulator-ID: FT45)

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### Simulator

<b>Simulator Manufacturer</b>	Mechtronix Systems, Canada
<b>In Service Date</b>	April 2007
<b>Aircraft Model</b>	737-800
<b>Registration (Master Aircraft)</b>	Boeing Standard Blockpoint 01
<b>Product No.</b>	YK 131
<b>Simulator Host Computer</b>	COTS rack mounted PC Technology with Race cards
<b>Motion System</b>	Digital 6 DOF Electrical Motion System (36 inch actuator stroke)
<b>Control Loading</b>	Digital Electrical Flight Control System

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### Aircraft System

<b>Engine Version</b>	CFM56-7B (27K)
<b>Auto Flight System</b>	Collins (software solution)
<b>FMC</b>	Dual FMC, General Electrics, Load 10.8A, Smiths Test Station
<b>TCAS II</b>	Version 7.1, Collins (software solution)
<b>ACARS</b>	no
<b>EGPWC</b>	Honeywell (software)
<b>GPS</b>	Honeywell (software)
<b>Common Display System</b>	Honeywell, Block 04, simulated

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## Visual

<b>Visual System Manufacturer</b>	Rockwell Collins
<b>Type of Image Generator</b>	EP-1000CT
<b>Type of Display</b>	SEOS Panorama Lightning Mirror 180x40 deg FOV, "eyevis" LED Projectors
<b>Illumination Levels</b>	ESP-LHD 1000 single chip DLP
<b>Number of Airport Scenes</b>	Day/Dusk/Dawn/Night
	Total: about 90 (increasing)
	European: about 40 (increasing)

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## Instructor Station

<b>Computer</b>	COTS PC
<b>Display</b>	2 x 15" color graphic LCDs with touch sensitive overlays
<b>Printer/Plotter</b>	Laser printer outside simulator
<b>Number of Malfunctions</b>	about 270, all abnormal checklists are covered
<b>Automated Training Lessons</b>	available on request
<b>Predictive Windshear</b>	various profiles available (Microburst)
<b>Non-Predictive Windshear Scenarios</b>	FAA windshear profiles for T/O and Landing available
<b>TCAS</b>	TCAS II, Version 7.1 scenarios for all types of Traffic and Resolution Advisories
<b>ATIS</b>	no
<b>Debrief Station/Video/Recording</b>	no
<b>Smoke Simulation</b>	yes

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## Options

<b>Common Display System</b>	original OPC-diskette with all options can be loaded (i.e. X-bar / V-bar), Vertical Situation Display (VSD) in progress
<b>FMC</b>	all FMC pins and OPC options available (i.e. various T/O thrust ratings)
<b>Autoflight</b>	all FCC pins available, CAT 3B capability
<b>EGPWC</b>	all strapping available (i.e. callouts)

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## Qualifications

<b>German LBA</b>	JAA Level B, annually, according to JAR-STD 1A
<b>EASA-ID</b>	DE-1A-056

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## 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.

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