

# The E-3A Component **NATO Air Base Geilenkirchen Germany**

The E-3A Component flies the AWACS aircraft as one of two operational units comprising the NATO Airborne Early Warning and Control Force or NAEW&CF. It is NATO's first standing, operational flying unit with integrated, multinational aircrews. The Component's mission is to provide aircraft and trained aircrews to deliver a surveillance and/or control platform wherever and whenever directed by the NATO Airborne Early Warning Force Commander on behalf of the Supreme Allied Commander Europe. Seventeen NATO E-3A AWACS aircraft are assigned to the Component.

The Component operates in four other locations as well as NATO Air Base Geilenkirchen: a Forward Operating Base in Italy, Greece and Turkey and a Forward Operating Location in Norway. Overall, integrated manning of the Component consists of about 2,900 multinational military and civilian personnel.

**Eighteen nations are members of the NATO AWACS** p;rogram with 16 providing military personnel to the Component. The eightteenth nation, Luxembourg, provides a financial contribution and licenses the **Component's aircraft.** 



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**Power plant:** Four TF33 Pratt & Whitney 100A turbofan engines.

**Thrust:** 20,500 lbs Each engine/9.523,5 kp each engine

**Dimensions:** Aircraft Wingspan: 44.45 m / 145 ft 9 in Length: 46.68 m / 152 ft 11 in Height: 12.70 m / 41 ft 9 in

Rotodome Diameter: 9.1 m / 30 ft Thickness: 1.8 m / 6 ft Height: 3.35 m / 11 ft Rotation: once every 10 seconds

Speed: More than 800 km/h / 500 mph

**Operational altitude:** Above 9,150 m / 30,000 ft

Maximum take-off weight: 147,429 kg / 325,000 lbs

## The NATO E-3A Aircraft

**Fuel capacity:** 89,610 liters / 70,371 kg 22,768 gallons / 148,000 lbs

**Endurance:** More than 10 hours All E-3A aircraft are air-refuelable

Armament: None

Aircrew: Flight Crew 2 Pilots 1 Navigator **1 Flight Engineer** 



**Mission Crew** 1 Tactical Director 1 Fighter Allocation Officer 2 Weapons Controllers 1 Surveillance Controller 1 Passive Controller **3** Surveillance Operators 1 Communications Technician **1** Systems Technician 1 Radar Technician



#### **Radar coverage:**

One E-3A flying at 30,000 ft /9,150 m has over 312,000 km<sup>2</sup> in its field of view. Three E-3As in overlapping orbits can provide complete coverage of Central Europe. An E-3A can detect low flying targets within 400 km or 215 nautical miles and at medium altitude targets within 520 km or 280 nautical miles

**Prime contractor:** The Boeing Company, Seattle,

### Washington, United States

### Locations:

Main Operating Base (MOB) Geilenkirchen, Germany

Forward Operating Bases (FOBs) Konya, Turkey Aktion, Greece Trapani, Italy

Forward Operating Location (FOL) Ørland, Norway

### Cost per aircraft: 70 million US dollars (June 1977)