

Description

This is the mainstay of the British strike/attack force. It is a supersonic, all-weather, multirole, low-level, night-capable, anti-shipping and reconnaissance, bomber aircraft.

Wars and other Military Operations

Tornadoes were used in at least the following wars and military operations: Iraq (1991, 1992-present), Yugoslavia (1993, 1995-1996), Iraq (1998), Yugoslavia (1999), Afghanistan (2001-2003) and Iraq (2003). (See page 31.)

Weapons

Tornadoes have IKWA-Mauser 27mm cannons and can “deliver” 18,000 lbs of ordnance for these weapons systems:

| | | | |
|--------|--------|---------|------------|
| AIM-9 | B61 | GBU-24 | Pave Spike |
| AGM-65 | Beluga | JP233 | Sea Eagle |
| AGM-88 | BLU-1B | LAU-51A | Sky Flash |
| ALARM | BL-755 | MK-20 | WE177B |
| AS-30L | GBU-10 | MK-83 | |
| AS-34 | GBU-15 | MW-1 | |

(For details, see “Bombs, Guns and Missiles,” pp. 32-37.)

Nuclear: British Tornadoes were tasked to “deliver” WE177B and B61 nuclear bombs.

Canadian War Shows

British Tornadoes have “performed” for audiences at Canadian “air shows,” including the following: Ottawa (ON), Sydney (NS) and Toronto (ON).

Prime

CPP Investments ✓

Contractor: Panavia Aircraft, (See pp. 6-7)
a consortium of BAE Systems (UK), EADS (Germany)



and Alenia (Italy).

Canadian Parts and Services

The following is a partial list of Canadian companies and the parts and/or services they provided for the :

CAE Electronics: (1) flight simulator, (2) weapons procedure trainer

Canadian Marconi: Microwave landing system receiver
DY 4: avionics system to change mission profiles and prepare for revised external threat scenario projection

Haley Industries: castings

Hypernetics Limited: electromagnetic indicators, flags, shutters and annunciators

Leigh Instruments: (1) Flight data recorder, (2) Crash position indicator

Northrop Grumman, Canadian Operations: Ring Laser Gyro Inertial navigation system

Sources for:

“Canada’s Part in U.S. Machines of War (Iraq 2003)” (pages 11-27)

“Other Weapon Systems with Canadian Parts in Iraq (2003)” (pages 28-30)

Description, Weapons and Prime Contractor:

This data was derived from many websites. A particularly useful source is the Federation of American Scientists: <www.fas.org/man/dod-101/sys/index.html>

Wars and other Military Operations:

This data was derived from hundreds of military-related websites; some focusing on general military history, others on particular military operations, “orders of battle,” specific squadrons and/or military technology.

Canadian War Shows:

The data in this category was derived primarily from: (1) the websites of about 30 Canadian “air shows,” (2) the websites of “air show” enthusiasts, (3) newspaper articles, (4) “air show” publicity materials, and (5) unclassified Department of National Defence documents released to a COAT after an Access to Information request.

Canadian Parts and Services:

Most of this data was derived from the following:

(1) Canadian military contractors:

Most of the data came from the websites of individual military industries. A list of hundreds of military industry websites will be posted on the COAT website: <coat.ncf.ca> (Military industry trade show guide books, promotional brochures and other materials were also used.)

(2) Military industry associations and publications:

Aerospace Industries Association of Canada <www.aiac.ca>

Aerotech News and Review <www.aerotechnews.com>

Aviation Today <www.aviationtoday.com>

Canadian Defence Industry Association <www.cdia.ca>

Defense Aerospace <www.defense-aerospace.com>

Net Resources International:

<www.airforce-technology.com>

<www.army-technology.com>

<www.naval-technology.com>

Rotor Hub.com <www.rotorhub.com>

(3) U.S. government sources:

Acquisition Center, US Army Aviation and Missile Command <<https://wwwproc.redstone.army.mil/acquisition>>

Directorate for Information Operations and Reports, Department of Defense <www.dior.whs.mil>

FedBizOpps <www.fbodaily.com>

(4) Canadian government sources:

Aerospatiale <www.mic.gouv.qc.ca/anglais/menu/aerospatial.html>

Industry Canada (Cdn. Aerospace & Defence Company Capabilities) <strategis.gc.ca/sc_indps/aab/aerodef/engdoc>

(5) Other:

Ploughshares Monitor <www.ploughshares.ca>