

## DDG 31 Decatur [Mod Forrest Sherman] - 1975

### United States

Type: DD - Destroyer

Max Speed: 32 kt

Commissioned: 1975

Decommissioned: 1982

Length: 127.5 m

Beam: 13.8 m

Draft: 6.7 m

Crew: 292

Displacement: 2800 t

Displacement Full: 4000 t

Propulsion: 4x Foster-Wheeler Boilers, 2x

General Electric Steam Turbines



### Sensors / EW:

- AN/WLR-1 - (Generic) ESM, ELINT, Max range: 926 km
- AN/WLR-3 - (RWR for AN/WLR-1) ESM, RWR, Radar Warning Receiver, Max range: 222.2 km
- AN/SPG-53C CWI [Mk68 GFCS, Radar] - (Missile) Radar, Radar, FCR, Surface-to-Air, Medium-Range, Max range: 111.1 km
- AN/SPG-53C [Mk68 GFCS, Visual] - (Missile) Visual, Visual, Weapon Director TV Camera, Max range: 74.1 km
- AN/SQS-23A - (Missile) Hull Sonar, Active/Passive, Hull Sonar, Active/Passive Search & Attack, Max range: 37 km
- AN/SPG-51 [Mk74 FCS] - (Missile) Radar, Radar, FCR, Surface-to-Air, Medium-Range, Max range: 185.2 km
- AN/SPS-52 - (Missile) Radar, Radar, Air Search, 3D Long-Range, Max range: 444.5 km
- AN/SPS-10B - (Missile) Radar, Radar, Surface Search & Navigation, Max range: 74.1 km
- AN/SPS-40 - (1963) Radar, Radar, Air Search, 2D Long-Range, Max range: 407.4 km
- AN/ULQ-6B - (1970) ECM, OECM & DECM, Offensive & Defensive ECM, Max range: 0 km
- AN/ULQ-6A - (1970) ECM, OECM & DECM, Offensive & Defensive ECM, Max range: 0 km

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### Weapons / Loadouts:

- T Mk 6 Fanfare - Decoy (Towed). Surface Max: 1.9 km.
  - 127mm/54 HE-CVT [HiFrag] - (USN) Gun. Air Max: 2.8 km. Surface Max: 20.4 km. Land Max: 20.4 km.
  - 127mm/54 HE-PD [HiCap] - (USN) Gun. Air Max: 2.8 km. Surface Max: 20.4 km. Land Max: 20.4 km.
  - 127mm/54 WP - (USN) Gun. Surface Max: 20.4 km. Land Max: 20.4 km.
  - 12.7mm/50 MG Burst [10 rnds] - (Facility/Ship, No Anti-Air Capability) Gun. Surface Max: 1.9 km. Land Max: 1.9 km.
  - Generic GMTR [Guided Missile Training Round] - (Aka Drill Round) Training Round.
  - RIM-24C Tartar - (TRIP) Guided Weapon. Air Max: 33.3 km. Surface Max: 33.3 km.
  - Mk46 LWT Mod 2 - (1972) Torpedo. Subsurface Max: 5.6 km.
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**OVERVIEW:** The 18 Forrest Sherman-class destroyers were the first US post-war destroyers (DD-927 to DD-930 were completed as destroyer leaders). Commissioned beginning in 1953, these ships served until the late 1980s. Their weaponry underwent considerable modification during their years of service. Four were converted to guided missile destroyers.

**DETAILS:** At the time they entered service, these ships were the largest US destroyers ever built, 418 feet (127 m) long, with a standard displacement of 2800 tons. They were originally armed with (3) 5-inch (127 mm)/54 caliber guns mounted in single turrets (one forward and two aft), (4) 3-inch (76 mm)/50 caliber AA guns in twin mounts, as well as hedgehogs and torpedoes for ASW. However, over the years, weaponry was considerably modified. The hedgehogs and 3-inch (76 mm) guns were removed from all ships during the 1960s and 1970s. In addition the fixed torpedo tubes were replaced by (2) triple 12.75 inches (324 mm) Mark 32 torpedo tube mounts. Eight of the class were modernized to improve their ASW capabilities, becoming the Barry class. These ships were fitted with an eight cell ASROC launcher in place of the No. 2 5-inch (127mm) gun, and with a variable-depth sonar system.

Four of the destroyers - John Paul Jones (DD-932), Parsons (DD-949), Decatur (DD-936), and Somers (DD-947) - were converted to guided missile destroyers.

As a test platform, the Hull (DD-945) carried the Navy's prototype 8"/55 caliber Mark 71 gun light-weight gun from 1975-1978 when the program was canceled, and the 5-inch mount was restored. USS Hull remains the only modern destroyer-type to carry an 8-inch (203 mm) gun.

Hull (DD-945) and later ships were equipped with B&W Bailey Meter Company's new automatic boiler combustion control system, and a modified hurricane bow/anchor configuration. These ships are listed as Hull-class destroyers in some references.

**TYPE:** Destroyer (DD) and Guided Missile Destroyer (DDG).

**SPECIFICATIONS:** Displacement: 2,800 tons standard, 4,050 tons full load || Length: 418 ft (127 m) || Beam: 45 ft (14 m) || Draft: 22 ft (6.7 m) || Propulsion: General Electric steam turbines (Westinghouse in DD-931), (4) 1,200 psi (8.3 MPa) Foster-Wheeler boilers (Babcock and Wilcox in DD-937, DD-943, DD-944, DD-945, DD-946 and DD-948), 70,000 shp (52 MW), (2) shafts || Complement: (15) officers, (318) enlisted.

**PERFORMANCE:** Speed: 32.5 knots (60.2 km/h) || Range: 4,500 nautical miles (8,300 km) at 20 knots (37 km/h).

**SENSORS:** AN/SPG-53A Fire Control Radar || AN/SPS-10B Surface Search Radar || AN/SPS-6C 2D Search Radar || MK-35 Weapon Director || AN/WLR-1 ESM || AN/ULQ-6A Offensive/Defensive ECM || AN/SQS-26 Hull Mounted Sonar.

**ARMAMENT:** (3) 5 inch (127 mm) 54-calibre Mark 42 single gun mounts || (4) 3 inch (76 mm) 50-caliber Mark 33 guns || (2) Mark 10/11 Hedgehogs || (4) 21 inch (533 mm) torpedo tubes.

**SHIPS BUILT:** Forrest Sherman (DD-931) || John Paul Jones (DD-932/DDG-32) || Barry (DD-933) || Decatur (DD-936/DDG-31) || Davis (DD-937) || Jonas Ingram (DD-938) || Manley (DD-940) || Du Pont (DD-941) || Bigelow (DD-942) || Blandy (DD-943) || Mullinnix (DD-944) || Hull (DD-945) || Edson (DD-946) || Somers (DD-947/DDG-34) || Morton (DD-948) || Parsons (DD-949/DDG-33) || Richard S. Edwards (DD-950) || Turner Joy (DD-951).

**SOURCE:** [SCO] Wikipedia <http://en.wikipedia.org>