



Type 45 Destroyer Propulsion System

Naval Gas Turbine Packaging

Cullum Detuners Limited was instrumental in the full mechanical and electrical integration of the propulsion and power systems for the Type 45 Destroyers which are powered by two WR-21 advanced cycle gas turbine engines.

Each turbine engine provides 25MW of power. The type 45 features a fully integrated electric propulsion system, enabling the whole ship to be capable of running off a single power plant.

Six Type 45 destroyers were completed:

- HMS Daring
- HMS Dautless
- HMS Diamond
- HMS Dragon
- HMS Defender
- HMS Duncan

Engine Type

- **Rolls-Royce WR-21 advanced marine gas turbine engine**

Cullum scope included:

- **Gas Turbine Acoustic Enclosure**
- **Gas Turbine and Alternator Baseplates**
- **Full Mechanical and Electrical Integration and Assembly**