



CUSTOMER

UK Royal Navy

BACKGROUND

The Type 45 destroyers are an advanced class of six guided missile destroyers, built for the UK Royal Navy by BAE Systems.

The Type 45's primary role is anti-air warfare. However, as with all destroyers and frigates, Type 45 is a multi-role, general purpose vessel capable of a spectrum of tasks from peace support and defence diplomacy through to high-intensity warfare.

HMS Daring, HMS Dauntless, HMS Diamond, HMS Dragon, HMS Defender and HMS Duncan were built between 2003 and 2007, and entered service between 2006 and 2010.

APPLICATION

Rolls-Royce has supplied several different component packages for the T45 destroyers, including the propulsion and braking system, which incorporates a well proven Dellner Brakes 'stopping, turning, locking' (STL) system.

The STL system is fitted to the propeller shaft and consists of a hydraulic disc brake, a turning device, locking module, hydraulic power supply system, customised brake disc and framework.

The braking system is precision engineered to withstand shock and the total weight per shaft line is approximately 9,000 kg (19,840 lb).