

# GE LM2500 Gas Turbines Power United States Navy's *Independence*-Class Littoral Combat Ships



Twenty LM2500 gas turbines will power the United States Navy's *Independence*-class Littoral Combat Ships (LCS). The ships are being built by Austal USA, Mobile, Alabama. Austal USA has a contract with the U.S. Navy to provide up to 10 *Independence*-class ships over a five-year period.

Each LCS is powered by two LM2500s arranged in a combined diesel or gas turbine (CODOG) configuration with two diesel engines. The 127-meter aluminum trimaran LCS is an agile surface combatant that can be deployed independently to overseas littoral regions.

All the LM2500 gas turbines for the Austal LCS program are manufactured at GE's Evendale, Ohio, facility.

## LM2500 Gas Turbine

The LM2500 is a popular choice for industrial as well as commercial and naval marine customers. In fact, 33 navies worldwide have selected the LM2500 for a variety of high-speed ship programs. The LM2500 is a simple-cycle, two-shaft, high-performance engine. Derived from GE's CF6 aircraft engine, the LM2500 offers 33,600 shaft horsepower at 39% thermal efficiency.

GE has kept this aeroderivative gas turbine state of the art through the continual infusion of technological enhancements. These improvements keep the LM2500 current and suitable for marine programs yet to come.



GE LM2500 gas turbine

Shown is *Coronado*, a United States Navy *Independence*-class Littoral Combat Ship (photo courtesy of Austal USA).