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Figure 1. Schematic of the 1936/1937 He S1 gas turbine, with 250 pounds thrust, 10,000 rpm, and 30 cm dia. centrifugal rotor. (A) Air inlet, (B) Axial compressor blade, (C) Centrifugal compressor, (D) Hydrogen gas inlet, (E) Hydrogen injectors, (F) Combustor, (G) Radial turbine, (H) Exhaust nozzle.

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efficiency around 15–20%. By comparison, large gas turbines (rated above 25 MW) typically cost around \$300–400/kW and have an efficiency above 35%.

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high reliability, low operating costs and high-power density.

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each type are presented in Figure 6.1.18. Most modern gas turbines are of the triple shaft design. Figure 6.1.19 shows a single shaft gas turbine where the gas generator and power turbine are mounted on the same shaft. This figure also shows a dual shaft gas turbine, where the gas generator and

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power turbine are mounted on different shafts.

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Aeroengine Congress and Exhibition,  
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No. 2003-GT-38205.

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Gas turbines were invented around the  
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and create mechanical energy that could power a generator. The first jet aircraft engine using a gas turbine was built in 1939. By 1950, gas turbines had become common for planes, boats, and generators.

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external source in heating chamber  
and discharge process will be replaced  
by constant pressure heat rejection in  
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