Jet Engines

JT8D TURBOFAN ENGINE

First run: 1960, Thrust 12,250-17,400 lbf, BPR=1.7
Aircraft: Boeing 727, 737-100/200, McDonnell Douglas DC-9, MD-80, Caravelle
Jet Engines

Forward compressor
Rear compressor
Combustion chamber (flame tubes)
HP Turbine
LP Turbine
P-W JT8D
Rolls-Royce RB211
First run: 1969, Thrust 37,400-60,600 lbs, BPR=4.1-5.0
Aircraft: Lockheed L-1011, Boeing 747, 757,767, Tupolev Tu-204
GE CF6
First run: 1971, Thrust 53,500-61,500 lbf, BPR=4.24-4.4, OPR=29.2-31.1
Aircraft: Airbus A300,330, Boeing 747, 767, McDonnell Douglas DC-10, MD-11, Lockheed C-5M
First run: 1974, Thrust 18,000-34,000 lbf, BPR=5-6
Aircraft: Boeing 737, Airbus A320, 340, KC-135R
Textron-Lycoming 507F
Certified: 1980, Thrust 7,000 lbf, BPR=5.3
Aircraft: Avro RJ
PW2037
First run: 1981, Thrust 37,000-43,000 lbf, BPR=5.9, OPR=30.8
Aircraft: Boeing 757, C-17, Ilyushin II-96M
Rolls-Royce Tay
First run: 1984, Thrust 13,850 lbf, BPR=3.1
Aircraft: Boeing 727-100, Fokker 70, 100, Gulfstream IV
First run: 1990 (Trent 700), Thrust 53,000-97,000 lbf, BPR=9.3 (XWB), OPR=52
Aircraft (for Trent 500, 600, 700, 800, 900, 1000, XWB): Airbus 330, 340, 350, 380, Boeing 777, 787
GE GENX
First run: 2006, Thrust 53,000-75,000 lbf, BPR=9.6
Aircraft: Boeing 747-8, 787
RR Trent
First run: June 1944, Thrust 1,250 lbf
Aircraft: Gloster (Trent) Meteor
GE T31 - first US Turboprop
First run: May 1945, power 2300 HP, engine 13,000 rpm, propeller 1,145 rpm, weight 1980 lb
Aircraft: experimental Consolidated Vultee XP-81
First run: 1954
Aircraft: Lockheed Martin C-130 Hercules, Lockheed P-3 Orion, Northrop Grumman E-2 Hawkeye, Grumman C-2A Greyhound
Pratt & Whitney Canada PT6
First run: 1961, power 580-1940 shp, engine 45,000 rpm, free turbine 30,000 rpm, propeller 1900 rpm, +36,000 engines built
Aircraft: Beechcraft Super King Air, de Havilland Canada DHC-6 Twin, Otter, Pilatus PC-12, Sikorsky S-78
Jet Engines