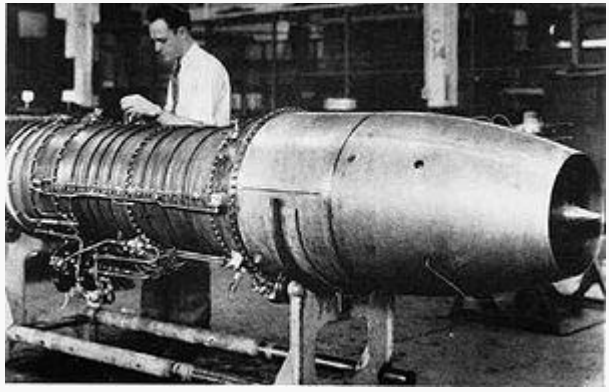
Westinghouse J30

J30	
	
Type	Turbojet
National origin	United States
Manufacturer	Westinghouse Aviation Gas Turbine Division
First run	19 March 1943
Major applications	FH Phantom
Developed into	Westinghouse J34

The **Westinghouse J30**, initially known as the **Westinghouse 19XB**, was a turbojet engine developed by Westinghouse Electric Corporation. It was the first American-designed turbojet to run, and only the second axial-flow turbojet to run outside of Germany. A simple and robust unit with six-stage compressor, annular combustor, and single-stage turbine, it initially gave 1,200 pounds of thrust. Its first flight was under a FG Corsair in January 1944. It was developed into the smaller J32, and the successful Westinghouse J34, an enlarged version which produced 3,000 pounds of thrust.

Variants

- J30-WE-20: 1,600 lb. (7.1 kN) thrust

Applications

- Convair XF-92
- McDonnell FH Phantom
- Northrop XP-79
- Northrop X-4 Bantam

Specifications

General characteristics

- **Type:** Turbojet
- **Length:** 101 in (2.57 m)
- **Diameter:** 21 in (0.53 m)
- **Dry weight:** 705 lb (319.8 kg)

Components

- **Compressor:** Single-Spool Axial
- **Combustors:** Annular
- **Turbine:** Single-stage

Performance

- **Maximum thrust:** 1,550 lb. (6.9 kN)
- **Overall pressure ratio:** 3.8:1
- **Specific fuel consumption:** 1.18 lb/lb-hr
- **Thrust-to-weight ratio:** 2.2:1