

# **ENGINE GUIDE – Present Day**

## **TURBOPROP / TURBOSHAFT ENGINES**

### **KEY**

- 1<sup>st</sup> Column:** Number of engines / manufacturer.  
**2<sup>nd</sup> Column:** Engine name / engine designation + (civil designation).  
**3<sup>rd</sup> Column:** Maximum power output range across aircraft production run.  
**4<sup>th</sup> Column:** Engine type.

### **Grumman E-2 Hawkeye**

*E-2, C-2 Production / YE-2C, E-2C+ Conversions*

2 / Allison	T56-A	4050shp – 5100shp	4-bladed Turboprop
-------------	-------	-------------------	--------------------

### **Lockheed C-130 Hercules**

*YC-130, C-130A Production*

4 / Allison	T56-A (501-D)	3250shp – 3750shp	3-bladed Turboprop
-------------	---------------	-------------------	--------------------

*C-130B to C-130H, L-100 Production*

4 / Allison	T56-A (501-D)	4050shp – 4910shp	4-bladed Turboprop
-------------	---------------	-------------------	--------------------

*C-130J, LM-100J Production*

4 / RR-Allison	AE2100D3	4637shp	6-bladed Turboprop
----------------	----------	---------	--------------------

### **Lockheed P-3 Orion**

*P-3 Production*

4 / Allison	T56-A (501-D)	3750shp – 4910shp	4-bladed Turboprop
-------------	---------------	-------------------	--------------------

### **Bell UH-1 Iroquois / AH-1 Cobra**

*H-40, UH-1A to UH-1L, Model 204, 205 Production\**

*YUH-1H, UH-1M Conversions*

1 / Lycoming	T53-L	825shp – 1400shp	Turboshaft
--------------	-------	------------------	------------

*\* Japanese production engines built by Kawasaki as T53-K.*

*UH-1F, TH-1F Production*

1 / General Electric	T58-GE	1325shp	Turboshaft
----------------------	--------	---------	------------

*UH-1N, Model 212, Model 412 Production*

1 / P&W Canada	Twin PacT400-CP (2x PT6T turboshaft engines)	1250shp – 1910shp	Coupled-Turboshaft
----------------	---	-------------------	--------------------

*Bell 214, Model 211 Production*

1 / Lycoming	T55-L (LTC4B)	2930shp, 2650shp	Turboshaft
--------------	---------------	------------------	------------

*Bell 214ST Production*

2 / General Electric	CT7	1625shp	Turboshaft
----------------------	-----	---------	------------

*Fuji-Bell UH-1J Production / UH-1HP, Model 210 Conversions / 205 Upgrades*

1 / Lycoming	T53-K / -L	1800shp	Turboshaft
--------------	------------	---------	------------

*Agusta-Bell Model 204, 205 Production*

1 / RR-Bristol Siddeley	Gnome H.1000*, 1200	1000shp, 1200shp	Turboshaft
-------------------------	---------------------	------------------	------------

*\* licence built version of the T58-GE.*

*Model AB.205BG Conversion*

2 / RR-Bristol Siddeley	Gnome H.1200	1200shp	Turboshaft
-------------------------	--------------	---------	------------

*Model AB.205TA Conversion*

2 / Turbomeca	Astazous X	632shp	Turboshaft
---------------	------------	--------	------------

*UH-1Y Production*

2 / General Electric	T700-GE	1546shp	Turboshaft
----------------------	---------	---------	------------

*Model 208 Conversion*

1 / Continental	T67-T (2x T72-T turboshaft engines)	1400shp	Coupled-Turboshaft
-----------------	--	---------	--------------------

*Model 209, AH-1G, AH-1S Production\**

*YAH-1Q, YAH-1S, AH-1S(MOD) Conversions*

1 / Lycoming T53-L 1100shp – 1800shp Turboshaft

*\* Japanese production engines built by Kawasaki as T53-K.*

*AH-1J, AH-1T Production*

1 / P&W Canada Twin PacT400-CP/-WV 1970shp  
(2x PT6T turboshaft engines) Coupled-Turboshaft

*AH-1W Production / AH-1T+, AH-1Z Conversions*

2 / General Electric T700-GE 1723shp Turboshaft

*Model 309 KingCobra Production*

1 / Lycoming T55-L 2850shp Turboshaft

1 / P&W Canada Twin PacT400-CP 1250shp  
(2x PT6T turboshaft engines) Coupled-Turboshaft

### **Bell-Boeing V-22 Osprey**

*V-22 Production*

2 / Rolls Royce T406-AD 5890shp 3-bladed prop-rotor

### **Boeing-Vertol CH-46 Sea Knight / CH-47 Chinook**

*Model 107 Prototype, YHC-1A Production*

2 / Lycoming CT53-L 860shp Turboshaft

*Model 107-II Production*

2 / General Electric CT58-GE 1250shp Turboshaft

*CH-46A to CH-46F, CH-113, KV-107\* Production*

*CH-46E Conversion*

2 / General Electric T58-GE 1200shp – 1870shp Turboshaft

*\* licence built by Ishikawajima-Harima as CT58-IHI.*

*Hkp-4A/B, Hkp-4C Production*

2 / RR-Bristol Siddeley Gnome H.1200, 1400 1200shp, 1400shp Turboshaft

*YHC-1B, CH-47, export CH-47 Production*

*YCH-47B, Y/CH-47D, CH-47F Conversions*

2 / Lycoming\* T55-L 2200shp – 4168shp Turboshaft

*\* became Allied-Signal in 1995, Honeywell in 1999.*

### **Hughes (McDonnell Douglas) AH-64 Apache**

*YAH-64A to AH-64E Production / Conversions*

2 / General Electric T700-GE 1695shp – 1800shp Turboshaft

*Apache AH.Mk. 1 Production*

2 / RR-Turbomeca RTM322 1890shp Turboshaft

### **Hughes OH-6 Cayuse / Model 500**

*OH-6, Model 500, A/MH-6 Production*

1 / Allison T63-A (250-C) 250shp – 425shp Turboshaft

### **Sikorsky H-53 Sea Stallion**

*YCH-53A to CH-53G, S-65 Production*

*RH-53A, MH-53J Conversions*

2 / General Electric T64-GE 2850shp – 4380shp Turboshaft

*YCH-53E to MH-53E, S-80 Production*

3 / General Electric T64-GE 4380shp Turboshaft

*YCH-53K Production*

3 / General Electric T408-GE 7500shp Turboshaft

### **Sikorsky UH-60 Black Hawk**

*H-60, S-70 Production\**

*HH-60A, UH-60M Conversions*

2 / General Electric T700-GE 1560shp – 2215shp Turboshaft

\* Japanese production engines licence built by  
Ishikawajima-Harima as T700-IHI.

*S-70A-16 Production*

2 / RR-Turbomeca TRM-332 ? Turboshaft

### **Raytheon T-6 Texan II**

*T-6 Production*

1 / P&W Canada PT6A 1708shp 4-bladed Turboprop

## **JET ENGINES**

### **KEY**

**1<sup>st</sup> Column:** Number of engines / manufacturer.

**2<sup>nd</sup> Column:** Engine name / engine designation + (civil designation).

**3<sup>rd</sup> Column:** Maximum power output range across aircraft production run.

**4<sup>th</sup> Column:** Engine type.

### **Boeing B-52 Stratofortress**

*XB-52 to B-52G Production*

8 / Pratt & Whitney J57-P 8700lbst – 13750lbst Turbojet

*B-52H Production*

8 / Pratt & Whitney TF33-P 17000lbst Low-bypass Turbofan

### **Boeing C-135 Stratolifter / KC-135 Stratotanker**

*C / KC-135A Production*

4 / P&W / Ford J57-P / -F 10500lbst – 11200lbst Turbojet

*C / KC-135B Production*

*KC-135E Conversion*  
4 / Pratt & Whitney TF33-P / -PW 18000lbst Low-bypass Turbofan

*KC-135R Conversion*  
4 / CFM Intl. F108-CF (CFM56) 22000lbst High-bypass Turbofan

### **Boeing Military 707**

*VC-137A Production*

4 / Pratt & Whitney J57-P (JT3C) 13750lbst Turbojet

*VC-137, E-3, YE-8B Production*

*VC-137B, E-8A/C Conversions*  
4 / Pratt & Whitney TF33-P / -PW (JT3D) 13000lbst Low-bypass Turbofan

*E-6 Production / E-3C Conversion*  
4 / CFM Intl. F108-CF (CFM56) 24000lbst High-bypass Turbofan

### **Boeing Military Airliners**

*(Model 737-200) T-43 Production*

2 / Pratt & Whitney JT8D 14500lbst Low-bypass Turbofan

*(Model 737-700) C-40 Production*

2 / CFM Intl. F108-CF (CFM56) 24000lbst High-bypass Turbofan

*(Model 737-800) P-8 Production*

2 / CFM Intl. F108-CF (CFM56) 27000lbst High-bypass Turbofan

*(Model 747-200B) VC-25 Production*

4 / General Electric F103-GE (CF6) 56700lbst High-bypass Turbofan

*(Model 747-200B) E-4 Production*

4 / General Electric	F103-GE (CF6)	52500lbst	High-bypass Turbofan
<i>(Model 747-400F) AL-1 Production</i>			
4 / General Electric	F103-GE (CF6)	56750lbst	High-bypass Turbofan
<i>(Model 757-200) C-32 Production</i>			
2 / Pratt & Whitney	F117-PW (PW2000)	41700lbst	High-bypass Turbofan
<i>(Model 767-2C) KC-46 Production</i>			
2 / Pratt & Whitney	PW4000	63300lbst	High-bypass Turbofan
<i>(Model 727-100 / -200) C-22 Conversion</i>			
3 / Pratt & Whitney	JT8D	14500lbst	Low-bypass Turbofan

### **Fairchild-Republic A-10 Thunderbolt II**

#### *A-10 Production*

2 / General Electric	TF34-GE	9065lbst	Low-bypass Turbofan
----------------------	---------	----------	---------------------

### **General Dynamics F-16 Fighting Falcon**

#### *YF-16, YF-16A, YF-16B, F-16A/B, foreign F-16A/B Production*

1 / Pratt & Whitney	F100-PW	12240lbst	Low-bypass Turbofan
---------------------	---------	-----------	---------------------

#### *F-16C/D, F-16N, TF-16N, F-2\* Production*

1 / Pratt & Whitney	F100-PW	14590lbst – 17000lbst	Low-bypass Turbofan
---------------------	---------	-----------------------	---------------------

1 / General Electric	F110-GE	17155lbst	Low-bypass Turbofan
----------------------	---------	-----------	---------------------

*\* licence built by Ishikawajima-Harima as F110-IHI.*

#### *F-16E/F Production*

1 / General Electric	F110-GE	19000lbst	Low-bypass Turbofan
----------------------	---------	-----------	---------------------

#### *F-16/79 Conversion*

1 / General Electric	J79-GE	18000lbst	Low-bypass Turbofan
----------------------	--------	-----------	---------------------

#### *F-16/101 Conversion*

1 / General Electric	F101-GE	30000lbst	Low-bypass Turbofan
----------------------	---------	-----------	---------------------

### **Lockheed C-5 Galaxy**

#### *C-5A, C-5B Production*

4 / General Electric	TF39-GE	41000lbst, 53000lbst	High-bypass Turbofan
----------------------	---------	----------------------	----------------------

#### *C-5M Conversion*

4 / General Electric	F138-GE (CF6)	56700lbst	High-bypass Turbofan
----------------------	---------------	-----------	----------------------

### **Lockheed / Boeing F-22 Raptor**

#### *YF-22A Production*

2 / General Electric	YF120-GE	23500lbst	Low-bypass Turbofan
----------------------	----------	-----------	---------------------

2 / Pratt & Whitney	YF119-PW	23500lbst	Low-bypass Turbofan
---------------------	----------	-----------	---------------------

#### *F-22A Production*

2 / Pratt & Whitney	F119-PW	23500lbst	Low-bypass Turbofan
---------------------	---------	-----------	---------------------

### **Lockheed-Martin F-35 Lightning II**

#### *X-35, F-35 Production*

1 / Pratt & Whitney	F135-PW (was F119)	28000lbst	Low-bypass Turbofan
---------------------	--------------------	-----------	---------------------

### **Lockheed U-2 / TR-1**

#### *U-2, TR-1, ER-2 Production / U-2C Conversions*

1 / Pratt & Whitney	J75-P	10500lbst – 17000lbst	Turbojet
---------------------	-------	-----------------------	----------

#### *U-2S Conversions*

1 / General Electric	F118-GE	19000lbst	Low-bypass Turbofan
----------------------	---------	-----------	---------------------

### **McDonnell Douglas KC-10 Extender**

#### *KC-10 Production*

3 / General Electric	F103-GE (CF6)	52500lbst	High-bypass Turbofan
----------------------	---------------	-----------	----------------------

### **McDonnell Douglas C-17 Globemaster III**

#### *C-17 Production*

4 / Pratt & Whitney	F117-PW	40700lbst	High-bypass Turbofan
---------------------	---------	-----------	----------------------

### **McDonnell Douglas F-15 Eagle**

#### *F-15A to F-15J/DJ, F-15E, F-15I, F-15K Production*

2 / Pratt & Whitney	F100-PW	14670lbst – 17800lbst	Low-bypass Turbofan
---------------------	---------	-----------------------	---------------------

#### *F-15E, F-15K, F-15S, F-15SG, F-15SA Production*

2 / General Electric	F110-GE	17000lbst	Low-bypass Turbofan
----------------------	---------	-----------	---------------------

### **McDonnell Douglas F/A-18 Hornet**

#### *YF-17A Production*

2 / General Electric	YJ101-GE	15000lbst	Low-bypass Turbofan
----------------------	----------	-----------	---------------------

#### *F/A-18A to F/A-18D, export F/A-18 Production*

2 / General Electric	F404-GE	15800lbst – 17700lbst	Low-bypass Turbofan
----------------------	---------	-----------------------	---------------------

#### *F/A-18E/F Production*

2 / General Electric	F414-GE	21890lbst	Low-bypass Turbofan
----------------------	---------	-----------	---------------------

### **Northrop B-2 Spirit**

#### *B-2 Production*

4 / General Electric	F118-GE	19000lbst	Turbofan
----------------------	---------	-----------	----------

### **Northrop T-38 Talon**

#### *N-156T, T-38 Production*

2 / General Electric	J85-GE	1900lbst – 3850lbst	Turbojet
----------------------	--------	---------------------	----------

### **Rockwell B-1 Lancer**

#### *B-1A, B-1B Production*

4 / General Electric	F101-GE	29850lbst, 34000lbst	Turbofan
----------------------	---------	----------------------	----------

### **McDonnell Douglas T-45 Goshawk**

#### *T-45 Production*

1 / RR-Turbomeca	Adour 871 (F405-RR)	5845lbst	Low-bypass Turbofan
------------------	---------------------	----------	---------------------

### **McDonnell Douglas AV-8 Harrier**

#### *XV-6A Production*

1 / Bristol Siddeley	Pegasus 5 (BS.53)	15200lbst	Low-bypass Turbofan VTOL vectored thrust
----------------------	-------------------	-----------	---

#### *AV-8 Production / YAV-8B, AV-8B+(R) Conversions*

1 / Rolls Royce	Pegasus 10 / 11 (F402-RR)	20500lbst – 23800lbst	Low-bypass Turbofan VTOL vectored thrust
-----------------	------------------------------	-----------------------	---