

Engine Model	Date	Type	Number Made	Disp. cu. in.	Weight lb.	Bore	Stroke	Valves /Cyl	Rated HP RPM	Max HP RPM	BMEP	Price	Remarks
Merlin 266P1944		V-12(S60)		1649	1675	5.4	6	4	1315/3000	1710/3000			
Merlin 3001945		V-12(S60)		1649	1675	5.4	6	4	1660/3000	2075/3000			
Merlin 3011945		V-12(S60)		1649	1675	5.4	6	4	1660/3000	2075/3000			
DR-1655	1932	R-9(D)	1	1655	1150	6	6 1/2	1	550/2100		125		Exp. Diesel
1A-2025	1920	V-12(60)	11#	2025	1142D	5 3/4	6 1/2	4	@550/1800	600/2000	125	\$20538	OHC (wt.w./mag.1172)
1A-2200	1923	V-12(60)	1	2205		6	6 1/2	4	600/1800	680/2000			OHC (made as 6 cyl.)
1D-2270	1952	V-16(TD60)	5	2272	4395	5 3/8	6 1/4	4	@800/2000	900/2300	140		DOHC
1A-2500	1924	V-12(60)	6#	2540	1120	6 3/8	6 1/2	4	800/2000	850/2500			OHC
2A-2500	1925	V-12(60)	75#	2540	1120	6 3/8	6 1/2	4	800/2000	850/2500	130	\$19375G	OHC
3A-2500	1926	V-12(60)	175#	2540	1385(G)	6 3/8	6 1/2	4	@800/2000	900/2600	135	\$15625D,	\$19375G OHC
4A-2500	1927	V-12(S60)	1	2540	1640	6 3/8	6 1/2	4	@900/2000	950/2200			OHC
5A-2500	1937	V-12(S60)	1	2540	1430	6 3/8	6 1/2	4	1500/2500	1750/2800	190		OHC experimental
1A-2775	1927	X-24(60)	1	2775	1513	5 3/8	5	4	1200/2600	1250/2700	150	\$25000	OHC
1A-2775	1928	X-24(S60)	1	2775	1635	5 3/8	5	4	1400/2600	1500/2700		\$35000	supercharged OHC
2A-2775	1935	X-24(S60)	1	2775	1722	5 3/8	5	4	1900/2800		196		exp. supercharged
W-1	1921	W-18(40)	4	2832	1720	5 1/2	6 1/2	4	@710/1700	804/1900	135		Air Service-designed
W-1-A	1923	W-18(40)	5#	2832	1770	5 1/2	6 1/2	4	700/1700	800/1800			and Packard-built
W-1-B	1923	W-18(40)	5#	2832		5 1/2	6 1/2	4	700/1700	800/1800			OHC
1A-3000	1937	H-24	*	2350		5 3/8	5 1/2	4	2000/2800	2350/3000	185		OHC "H" exp.
W-2	1923	W-18(40)	2#	4980		6 1/2	7 1/2	4	**1000/1700		142		Air Service designed OHC
1A-5000	1939	X-24(60)	*	5080	2830	6 3/8	6 1/2	4	3500				OHC exp.
2A-5000	1939	H-24	*	5080	2750	6 3/8	6 1/2	4	3000/2500	3500/2700	190		OHC exp.
3A-5000	1939	X-24(90)	*	5080		6 3/8	6 1/2	4	3500				exp. sleeve valve

JET ENGINES

Engine model	Date	Type	Number made	Weight	Thrust	Price	Remarks
XJ41	1946	Turbo-Jet	7#	1100	4000		Experimental turbojet. 7 were contracted
XJ49	1948	Turbo-Fan	1	3000	10000		Experimental fan jet. Highest thrust jet built up to that time.
J47	1952	Turbo-Jet	3025	2389	5400	\$44340*	GE turbojet built for Air Force under license

= Exact production figures for non-automotive engines have in most cases not survived. Estimated figures given are from sources such as military contracts, serial number information contained in Packard manuals and Packard engineering papers, and are considered accurate within 5%.

* = an engine design which may not have been constructed. If it was, only one or two prototypes would have been built.

** = estimated

Type - IL= in-line

V= vee configuration

R= radial

W= broad arrow configuration with three banks of cylinders.

X= x configuration with four banks of cylinders.

Following the configuration designation will be the number of cylinders. Following that in () will be the following:

S if supercharged, T if turbocharged, D if Diesel and the included angle between the cylinder banks in the case of

V, W and X engines. All Packard radial engines were air-cooled. All other types were water-cooled.

Price - Prices of military-contracted engines may be give as a range or an average (*) as they varied depending or production rates. If no price is quoted, it is either not known or the engine is of an experimental nature and the unit cost of such a small quantity would be astronomical and meaningless.

D = direct drive.

DI = direct drive, inverted configuration.

G = reduction geared propeller drive.

@ = A factory power graph has been found for this engine.

If particular technical data is unavailable for any model (which is the case for many experimental engines), that location will be left blank or estimated if it may be done with reasonable accuracy.

Any positions left blank are either because it does not apply (valves in sleeve valve engines for example) or because the data is unknown.

This information was compiled by Robert J. Neal while writing the book *Master Motor Builders*.

Geoffrey Sinclair provided the following on 13 October 2021:

The Ministry of Aircraft production initially tracked US Merlin production by version from start of production in August 1941 to the end of November 1943, then reverted to simply reporting total US Merlin production, the totals for the earlier versions are,

5,200 Merlin 28 (August 1941 to February 1943),

480 Merlin 29 (February to April, July to December 1942), To Canada for RCAF Hawker Hurricanes.

560 Merlin 31 (March 1942 to February 1943),

880 Merlin 33 (April to August 1943 and October 1943)

6,286 Merlin 38 (March to November 1943), production probably ongoing

2 Merlin 68 in November 1943, production probably ongoing