

**DEPARTMENT OF TRANSPORTATION  
FEDERAL AVIATION ADMINISTRATION**

E2SO Revision 1 CONTINENTAL T6-320-A November 2, 2011
---

**TYPE CERTIFICATE DATA SHEET NO. E2SO**

Engines of models described herein conforming with this data sheet (which is part of type certificate No. E2SO) and other approved data on file with the Federal Aviation Administration meet the minimum standards for use in certificated aircraft in accordance with pertinent aircraft data sheets and applicable portions of the Federal Aviation Regulations provided they are installed, operated and maintained as prescribed by the approved manufacturer's manuals and other approved instructions.

Type Certificate Holder:	Continental Motors P. O. Box 90 Mobile, Alabama 36601
Type Certificate Holder Record	Teledyne Continental Motors Ownership & name change as of April 19, 2011 (Continental Motors, Inc.)
Model	T6-320-A
Reduction Gear Ratio	.5:1
Rating, ICAO or ARDC standard atmosphere	
Max. continuous hp, rpm, in. hg. @ critical altitude	300-4000-34.5
Takeoff hp, 5 min. rpm, in. hg. at sea level pressure altitude	12,000 320-4400-34.5
Fuel (aviation gasoline, minimum grade)	100/130
Lubricating Oil	Lubricating oils qualified under SAE-J1899 or J1966 are considered qualified under CMI Spec MHS-24
Bore and stroke, in.	4.875 x 3.625
Displacement, cu. in.	406
Compression ratio	8.5:1
Weight (dry), lb.	
C. G. location (basic engine)	
Aft of front face of prop flange, in.	
Below crankshaft centerline, in.	
Beside crankshaft centerline	
Propeller shaft	ARP-502 Type I Flange 4 7/8 in. O.D. with six 1/2 in. bolt holes in 4 in. diameter circle
Fuel injection	CMI injection system P/N 640406 or latest FAA approved version
Ignition, dual magneto	One CMI/TCM/Scintilla D-2000
Timing, °BTC	32
Spark plugs	(see NOTE 3)
Oil Sump Capacity, qt.	9:5.0 usable at 36° noseup and 5 at 24° nosedown attitudes
NOTES	1, 2, 3, 4
Certification basis:	Federal Aviation Regulations Part 33 dated February 1, 1965, as amended by 33-1 through 33-5. Application for Type Certificate dated December 21, 1971. Type Certificate No. E2SO issued July 2, 1975.
Production basis	Production certificate 508.

Page No.	1	2
Rev. No.	1	1

