

**DEPARTMENT OF TRANSPORTATION  
FEDERAL AVIATION ADMINISTRATION**

A00007SE Revision 9 (October 26, 2009) QUEST Kodiak 100 Original Issue Date: May 31, 2007
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**TYPE CERTIFICATE DATA SHEET A00007SE**

This data sheet, which is part of Type Certificate No. A00007SE, prescribes conditions and limitations under which the product for which the type certificate was issued meets the airworthiness requirements of the Federal Aviation Regulations.

Type Certificate Holder:     Quest Aircraft Design, LLC  
  1200 Turbine Drive  
  Sandpoint, Idaho 83864

**I - Model Kodiak 100 (Normal Category), Approved May 31, 2007**

Engine:                             Pratt and Whitney Canada, Inc. PT6A-34, Engine Type Certificate E4EA.

Fuel:                                 Jet A, Jet A-1, JP-1, JP-5, and JP-8 Fuels conforming to Pratt and Whitney Canada Specification CPW204.

Engine Limits:                 Maximum takeoff power = 750 horsepower at 2,200 rpm, subject to ambient temperature and pressure conditions. See Airplane Flight Manual and Engine Type Certificate Data Sheet E4EA for additional limitations.

Propeller:                         Hartzell Model HC-E4N-3P(Y)/D9511FSB, Propeller Type Certificate P10NE  
  Hartzell Spinner Assembly, Part No. D-630-6(P)

Propeller Limits:                Minimum diameter = 95 inches  
  Maximum diameter = 96 inches  
  Low Pitch =  $17.5^\circ \pm 0.5^\circ$   
  High Pitch =  $86.1^\circ \pm 0.5^\circ$   
  Reverse =  $-10.0 \pm 0.5^\circ$   
  Pitch limits measured at 30 inches radial distance.  
  Stabilized ground operation is prohibited between 450 and 1050 RPM.  
  See Propeller Type Certificate Data Sheet P10NE for additional

Airspeed Limits:                 V<sub>o</sub> (6,750 lbs)                     144 KCAS (142 KIAS)  
  V<sub>FE</sub> (10°)                         139 KCAS (138 KIAS)  
  V<sub>FE</sub> (20°)                         120 KCAS (120 KIAS)  
  V<sub>FE</sub> (35°)                         108 KCAS (108 KIAS)  
  V<sub>MO</sub>                                 180 KCAS (182 KIAS)

C.G.Range:                        Straight line variation between points.  
  Aft Limits                         80.775 inches aft of datum from 3,620 lbs to 6,750 lbs  
  
  Forward Limits                    63.896 inches aft of datum from 3,620 lbs to 5,000 lbs then to 69.414 inches aft of datum at 6,750 lbs.

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Certification Basis: Part 23 of the Federal Aviation Regulations (FAR) effective February 1, 1965, as amended by 23-1 through 23-55. FAR 36 as amended through 36-28. Application for type certificate dated April 7, 2005.

Special Conditions: Special Condition 23-207-SC for high intensity radiated fields (HIRF) protection, effective January 31, 2007.

Production Basis: Production Certificate 728NM.

NOTE 1: A current weight and balance report with a list of equipment included in the certificated empty weight must be provided for each aircraft at the time of original airworthiness certification.

NOTE 2: The placards specified in the latest FAA approved revision of "*Pilots Operating Handbook and FAA Approved Flight Manual*" are required.

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