

**DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION**

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| A00007SE |
| Revision 6 |
| (June 24, 2008) |
| QUEST |
| Kodiak 100 |
| Original Issue Date: |
| May 31, 2007 |

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.

Provisional 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:

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| V_o (6,750 lbs) | 144 KCAS (142 KIAS) |
| V_{FE} (10°) | 139 KCAS (138 KIAS) |
| V_{FE} (20°) | 120 KCAS (120 KIAS) |
| V_{FE} (35°) | 108 KCAS (108 KIAS) |
| V_{MO} | <u>180 KCAS (182 KIAS)</u> |

C.G.Range: Straight line variation between points.

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| 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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| Page No. | 1 | 2 | 3 |
| Rev. No. | 6 | 6 | 6 |

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: None. Before original airworthiness certification of each aircraft, an FAA representative must perform a detailed inspection for workmanship, materials, conformity with the approved technical data, and a check of the flight characteristics. In the event of an application for a standard airworthiness certificate or, if an applicant intends to produce a new aircraft under 14 CFR § 21.183(d), and the applicant is manufacturing, building, or assembling to another person's type certificate, the applicant must provide written evidence of permission from the type certificate holder. Conduct of such activity without written evidence of permission may be a violation of 49 U.S.C. § 44704(a)(3).

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*", Document No. 100-000-901, must be displayed.

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