



Part of GE's Aviation Business

Dowty Propellers is a world leader in the design, development, manufacture and support of electronically controlled, all-composite propeller systems.

The 6 bladed R391 propeller for the Lockheed Martin Hercules C-130J aircraft incorporates advanced technologies developed by Dowty Propellers over the past 60 years and is certified to JAR-P and FAR35. It offers the following benefits:

- Advanced swept blade design
 - Optimised ARA-D/A aerofoil sections
 - Excellent take-off and climb performance
 - Low noise levels

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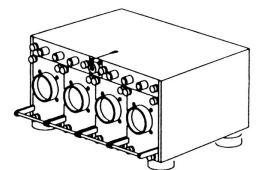
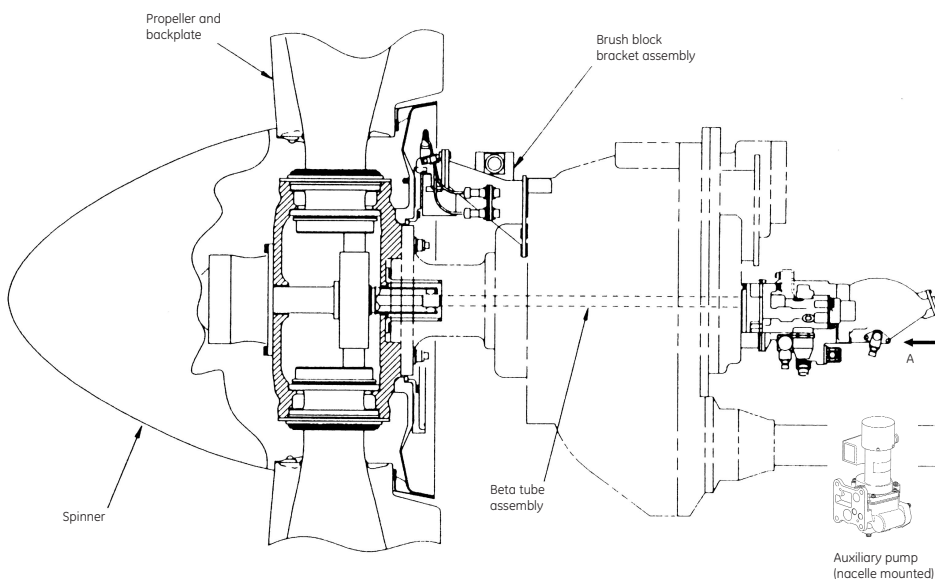
Lockheed Martin Hercules C-130J

Dowty Propellers C-130J Advanced propeller system

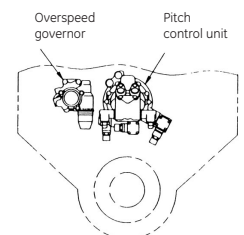


imagination at work

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- High integrity all-composite blades
 - Low system weight
 - Service proven, rugged construction
 - Unmatched 25 year record of operational safety and reliability
 - Erosion protection system
 - Fail-safe electronic control system
 - Fully integrated with engine electronic control system
 - Precise speed selection and synchrophasing accuracy
 - Counterweighted blades assure safe coarse-seeking operation
 - Single lever cockpit control
 - Low maintenance costs
 - Modular configuration
 - No mechanical linkages to cockpit
 - Simple hub construction
 - Low parts count
- Propeller and backplate
 - Overspeed governor
 - Pitch control unit
 - Auxiliary pump
 - Harnesses
 - Spinner
 - De-icer timer
 - Beta tube assembly
 - Brush block bracket assembly
- continued on page 3*



De-icer timer
(airframe mounted)

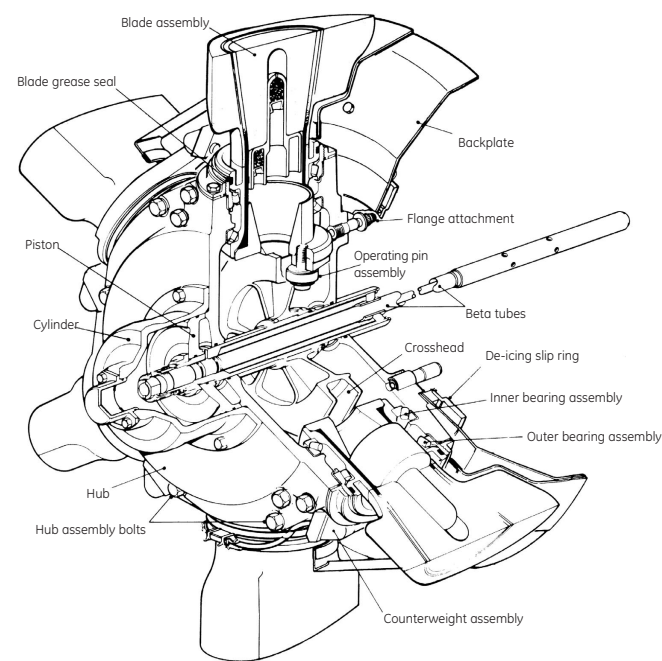


View on arrow A

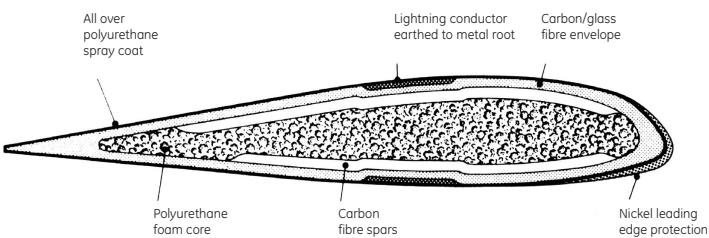
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Propeller data

Diameter:	13.5ft (4.1m)
Activity factor:	128 per blade
Tip sweep:	35°
Aerofoil section:	ARA-D/A
Speed control:	±1rpm of selected rpm
Rated speed:	1020.7 rpm
Phase control:	±1°



Propeller hub



Composite blade construction

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