

**Honeywell**

## **LTS101-850B-2 ENGINE**

Delivering performance and value for the BK-117 helicopter



# Engine upgrade increases OEI power by 22%.

Proven engine performance, reliability and efficiency for the BK-117.

## More Power

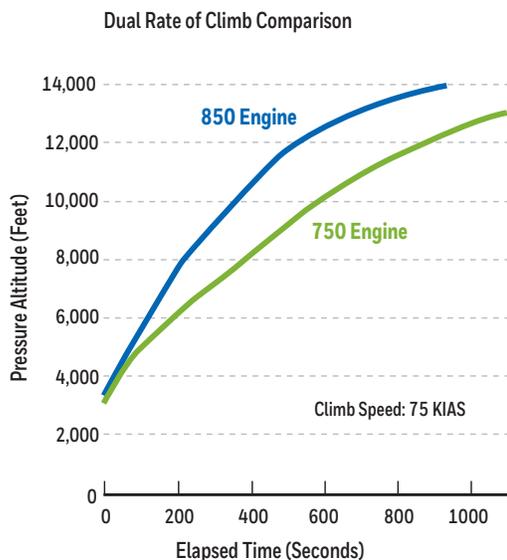
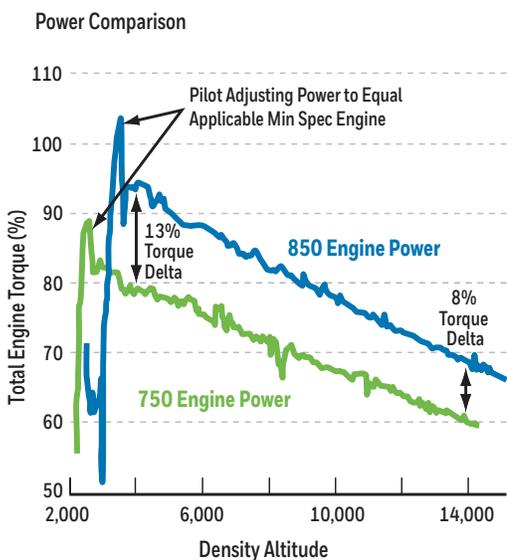
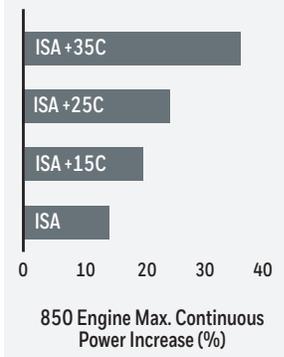
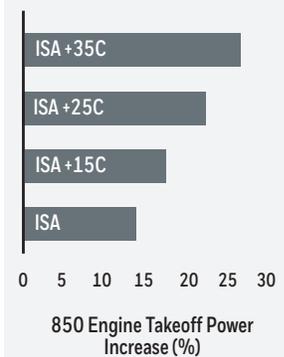
The LTS101 engine is proven to deliver world-class reliability and performance - improving the climb rate of twin engine helicopters 40% to 10,000 feet. At typical operating weights, the single engine ceiling increased from 1,500 to more than 5,000 feet.

One minute One Engine Inoperative (OEI) power has increased by 22%, providing greater operational safety and more power with little to no difference in fuel consumption.

## More Capabilities

Honeywell has delivered over 2,000 LTS101 engines - which have accumulated over 10 million flight hours to date. The LTS101 engine was redesigned in 2001 with over \$30 million invested by Honeywell in engine upgrades. Refreshed with new technology, aerodynamics and material, past reliability issues have been designed out. The LTS101-850B-2 engine provides additional power in all flight regimes which increases helicopter capability, increases safety and complies with EASA regulations.

Hot Day Performance Increase Greater Than 35% with the 850B-2 Engine Upgrade (Compared to the LTS101-750 engine)



Min. Spec LTS-850 set by holding MGT to 792 °C / Min. Spec LTS-750 set by holding MGT to 733 °C (Max. Continuous Power AEO) Data Source: GHTI Right 9, 22 May 03



### More Savings

The LTS101 engine delivers increased value for operators. Improvements have transformed the engine, increasing operator value in the form of lower operating costs. This results in an extended component service life. In addition, continued improvements have increased operability and capability. This results in additional engine power with little to no increase in specific fuel consumption and a potential 19% increase in helicopter value compared to previous engine helicopter models.

### More Efficient

The new LTS101 engine delivers more savings. The LTS101-850B-2 engine delivers more savings for operators. As a result of new technology incorporated into the engine, the increased power does not result in any significant increase in specific fuel consumption. More power for the same fuel burn equals increased operator value.

**LTS101-850B-2  
BENEFITS  
VS. LTS101-750-  
POWERED  
BK-117 HELICOPTER**

POTENTIAL 18%  
INCREASE IN  
HELICOPTER VALUE

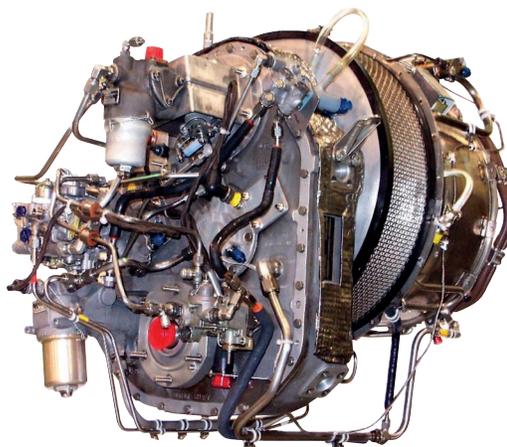
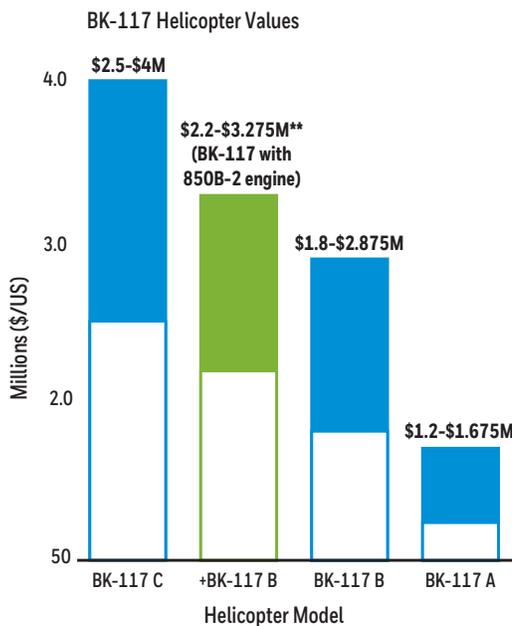
22% INCREASE IN OEI  
POWER MEETING EASA  
STANDARDS

INCREASED SHAFT  
HORSEPOWER

LITTLE TO NO  
CHANGE  
IN FUEL  
CONSUMPTION

EXTENDED LIFE /  
COOLED GAS  
PRODUCER (GP)  
ROTOR

EQUIVALENT DIRECT  
OPERATING COST



\*\* Honeywell Estimate | Data Source: 2007 He/iVa/ue\$ Inc.

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