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Safety Is Not Expensive, Its Priceless

BK 117-850 D2



BK 117 850 D2 is The Multipurpose Utility Machine

The BK 117 is a twin engine medium utility and transport helicopter jointly developed between MBB of Germany and Kawasaki of Japan.

With the new LTS 101-850D2 engines fitted and the BK 117's high maneuverability, the BK 117-850D2 brings a high performance twin that compares favourably with the benchmark Bell 212. The BK 117-850 D2 can carry up to 9 passengers in safety and comfort at a 35% faster speed while burning almost 25% less fuel which is the perfect choice for utility work across multiple missions of:

- Onshore / Offshore Oil and Gas Support
- Fire Fighting
- Power line work
- Lifting
- EMS
- SAR
- Passengers transport
- VIP transport
- Seismic

BK 117 850 D2 is all about Safety,

BK 117-850 D2 dramatically increases the maximum OEI hover weight of the BK 117 D2. The BK-117 850 D2 has been designated with the requirements of operational safety in mind. Whether flying over congested areas, landing at elevated heliports/hospitals, or just having the extra operational margin from a true Category A/Class 1 compliant machine, the BK 117-850 D2 delivers this with proven performance, reliability and efficiency. Under Cat A / Class 1 performance, at maximum all up weight should the aircraft lose power in one engine the pilot has the choice of landing, climbing or flying straight and level.

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Economy and Value

With remarkable performance improvements in hot and high conditions the BK 117-850 D2 is flexible and powerful. The BK 117-850D2 allows operators to carry more payloads to more places. The innovative BK 117-850D2 delivers superior safety and performance at a cost-effective process, adds up to an economic light twin engine helicopter punching above its weight.

Don't forget it is fast and will get the job done quickly. It has comparatively low direct operating costs that will come down further thanks to the 850 engine that has longer component life as well as extended hot section inspections (1,800 hours being extended to 2,400 hour trial underway). The BK 117 burns 25% less fuel than a D212 and 40% less than a B412 whilst carrying 30% more load per hour.

Engine Performance & Power

With the Honeywell LTS 101-850D2, Honeywell has delivered over 2,100 LTS engines which have accumulated over 10 million flight hours to date. In 2014 the unscheduled removal rate for the LTS 101 series was 0.18 per 1,000 flight hours.

850 D2 engine design improvements have transformed the LTS 101 engine which has already proven to deliver world class reliability and performance. In 2014 the unscheduled removal rate for the LTS 101-850D2 was 0.066 per 1,000 flight hours.

Twin Engine climb rate improved 40% to 10,000 feet. At typical operating weights, single engine ceiling increased from 1,500 to greater than 5,000 feet. One minute One Engine Inoperative (OEI) power increased 22% providing greater operational safety. More power with little to no difference in Specific Fuel Consumption (SFC). The 850B-2 engine provides additional power in all flight regimes which increases helicopter capability, increased safety and complies with EASA and DGCA regulations.

Technical Data & Performance

Engine	: Honeywell LTS 101-850D2	Max Internal Fuel	: 710 Liter
MTOW	: 3,350 Kg (3,500 kg external)	Range	: 292 nm
Empty weight	: 1,950 kg	Endurance	: 2 hours + reserve
Usable load	: 1,400 Kg (1,550 kg external)	Rate of Climb	: 2,165 ft / minute
Length	: 13 m	Hover Max Height	: 11,700 ft
Width	: 2.7 m	Service ceiling	: 15,000 ft
Height	: 3.36 m	Seating	: 1 – 2 crew, up to 9 pax
Rotor Diameter	: 11 m	Operation type	: VFR
Cruise Speed	: 130 knots		
Fuel burn-off	: 300 liter/hour		

BK 117-850D2 Point of Difference

- Fully compliant with EASA/TC/FAA/DGCA standards
- Optimised Safety Suite
- Category ‘A’ Class 1 OE1 performance at max all up weight
- Improved high temperature operation
- Improved high altitude performance
- Improved useable payload
- Significantly reduced operating costs
- Proven performance – 40 deliveries

Current BK 117 Operations Worldwide

- Bristow Helicopters
- Apache Energy
- Airbus Helicopters
- Rio Tinto – West Africa
- BHP Billiton
- Heli Niugini
- Exxon Mobil
- Talisman
- Oil Search
- SAE
- TEP/IOL
- Skyplus / Helinka
- Great Slave Helicopters
- ADAC – German EMS Operator
- DRF – German EMS Operator
- Air Methods – USA
- South African Air Force (SAAF)
- Raytheon / Royal Australian Navy
- CRCC

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