

PRESSPRESENTATION2006

990
adventure

KTM

THE NEW KTM 990 ADVENTURE 2006 »

PRODUCT CHARACTERISTICS

- » Exclusive, high-quality character
- » Best on- and offroad features
- » Very good performance
- » Very suitable for everyday riding
- » Highest level of reliability
- » Very low emission levels
- » High quality components
- » Comprehensive accessories programme
- » Unrivalled for its light weight





LC8 ENGINE»

ENGINE

LC8 engine with 999 cc and electronic fuel injection.
Compared to the 950 Adventure, this bike features

- » bigger bore
- » longer stroke
- » optimized cams
- » new engine management
- » significantly improved torque with the same level of performance.

TECHNICAL DATA

- » V2, 75°
- » 999 cc
- » Bore / Stroke: 101 / 62.4 mm
- » 72 kW / 98 Hp at 8,500/rpm
- » 95 Nm at 6,500/rpm
- » DOHC
- » Electronic Fuel Injection (EFI)
- » Dry Sump Lubrication
- » 6-gear Transmission





ENGINE DETAILS »



Engine Concept: Multifunctional shaft for balancing of mass, housing ventilation, water pump and timing chains and e-starter idler. Dry sump lubrication. Short stroke engine layout.
» With 58 kg still the lightest and most compact 2-cylinder of its class.



Cylinder: New cylinders with bore of 101 mm. Additionally strengthened for increased torque.
» More displacement for better torque.



Piston: Extremely light weight designed pistons (395 gram) for minimal oscillating mass.
» Minimum vibrations and spontaneous response.



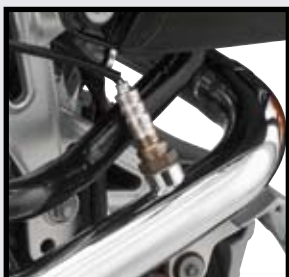
Cylinder Head: DOHC cylinder head adapted to 48 mm throttle bodies. New camshafts for optimal gas exchange.
» More dynamic engine characteristic with improved torque.



Crankshaft: Forged, one-piece crankshaft. 125 mm forged con rod. Stroke 62.4 mm, adapted to the bigger displacement of the 999cc engine.
» Short stroke is one element for the compactness and the sporty engine characteristics.



Engine Management: Sequential fuel injection made by Keihin, calibrated by KTM. 48 mm throttle bodies with two throttles each. Automatic cold start, idle regulation and altitude compensation. Low octane fuel mapping easy to activate.
» The Keihin EMS ensures linear power band.



Lambda sensors: One Lambda sensor per cylinder feeds back information on the emissions to ECU.
» Three-way catalytic converters and secondary air system for low emissions below EURO III.

990 ADVENTURE CHASSIS »





TECHNICAL DATA

- » Tubular space frame, chrome-moly-steel (11 kg)
- » WP Suspension chassis
- » Brembo brakes
- » Bosch ABS (990 Adventure)
- » Three-way catalytic converters
- » Weight 199 kg dry
- » Vmax + 200 km/h

CHASSIS DETAILS»



Frame: Tubular space frame (chrome-molybdenum), with increased steering angle.
» 11 kg, the lightest construction on the market.



Subframe: Made of light weight aluminium, prepared to hold the KTM luggage rack system, including top case. Max. permissible load 430 kg. A new storage area in the rear fender. Big compartment below the seat houses the ABS unit.
» Light weight and robust, optimal position of ABS unit.



WP-Upside-Down Fork: 48 mm, fully adjustable: variable spring preload, adjustable rebound- and compression damping. Travel 245 mm (990 Adventure S) or 210 mm (990 Adventure).
» Incomparable stability and suspension characteristics on any surface.



WP-PDS Shock Absorber with adjustable rebound- and compression damping. Long suspension travel of 245 mm (990 Adventure S) and 210 mm (990 Adventure). Hydraulic adjustment of spring preload.
» Guarantees excellent riding qualities both off- and onroad.



Handlebar: High quality Renthal handlebar made of tapered aluminium.
» Highest level of rigidity with minimum weight.



Silencer: Two stainless steel silencers, each with three-way catalytic converter.
» Reduce emissions to EURO III levels.



Braking System: New floating brake discs and relocation of the front steelflex brake lines.
» Brembo brake system sets the standards when it comes to brakes.



ANTI BLOCKING SYSTEM »



FIRST KTM MOTORCYCLE WITH ABS

Joint development: **BOSCH – BREMBO – KTM**

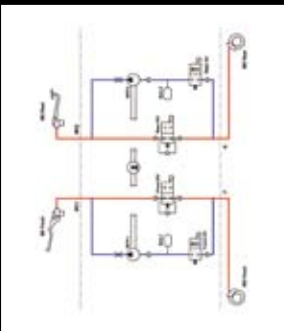
Development targets »

- » Max. brake performance
- » Max. controllability
- » Max. off-road ability
- » Min. package and weight
- » Max. safety against failure



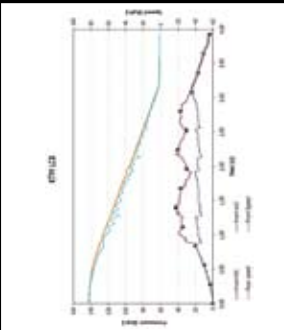
ABS MODULATOR I

- » Lightest and most compact 2-circuit ABS system on the market
- » Mass of modulator only 1.5 kg
- » ABS modulator is placed under seat
- » Best mechanical protection
- » Close-by the centre of gravity
- » ABS is an independent part of the electrical system
- » Minimum interfaces for maximum operating safety



ABS MODULATOR II

- » Front and rear brake are independent brake circuits
- » Direct brake hydraulic from lever to calliper



PERFORMANCE

- » Control frequency in millisecond range
- » Max. deceleration 8.5 - 9.5 m/s²
- » Excellent controllability of the brakes, also during ABS control
- » No changing of brake actuating force and controllability in case of ABS failure
- » Optimum control strategies
 - Incl. rollover detection
 - Incl. gravel and low μ indication



RIDING WITH ABS

- » Always perfect brake controllability
- » Independent lever for front and rear brake
- » ABS indicator light in cockpit
- » Ambitious off-road riders can easily disable the ABS, excellent controllability of brake system is further granted

CHASSIS DETAILS»



Wheels: 18/21" wheels ideal for off- and onroad use. The front wheel with an improved and more stable 2.15" rim. Large range of offroad tyres available. For offroad KTM recommends new Continental TKC 80 specially developed for KTM.
» Very good on- and offroad characteristics.



Front Fender: New designed front fender with more stable attachment to the fork offers. More space to the tyre.
» Better stability and improved offroad ride-ability.



Tanks: Two separated lateral tanks made from reliable nylon, new designed for the EFI, 22 litres. Left side with integrated fuel pump. Large sized plastic protectors efficiently shield the tanks in the event of an accident.
» Low centre of gravity, good protection.



Cockpit: Analogue tachometer and multifunctional instrument for speed, Total and daily kilometres, Cooling liquid temperature, Tank stop distance indicator and clock. "Tripmaster" optional. ABS light indicator informs about any faults in the system and allows the deactivation of the ABS.
» All information at one sight.



Seat: The S-model is fitted with a more offroad-oriented seat. Seat height 895 mm. The 990 Adventure with a lower seat and a stepped contour, seat height 860 mm.
» Much comfort for both rider and passenger.



Ground Clearance: Ground clearance of 296 mm (990 Adventure S) and 261 mm (990 Adventure) is possible through dry sump lubrication without oil pan.
» Excellent offroad capability.

CHASSIS DETAILS »



Battery: “Extended” battery pole allows the battery to be recharged without having to open the battery box.
» Easy battery access.





Blinkers: New blinkers with transparent plastic lenses and orange light bulbs.
» More modern design.



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