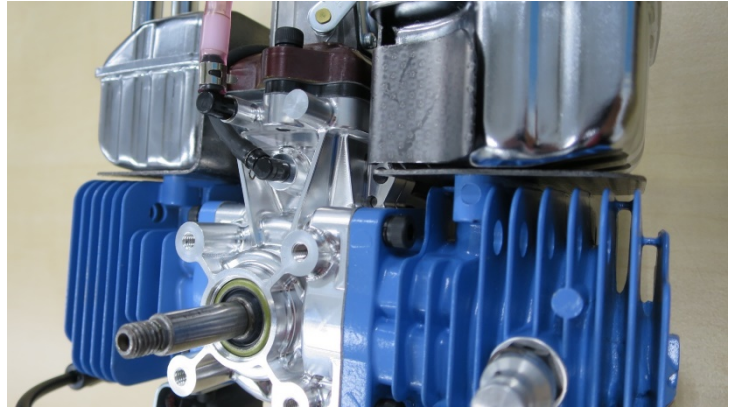


BT-86

Japan Made



LIGHT, ENDURANCE AND RELIABILITY

The BT-86 is 2cycles
horizontal face form
lead valve type, fueled
by lubricating oil
mixture gasoline,
developed for
Unmanned Aereal
Vehicles

● LIGHT WEIGHT AND ASEEMBLED CRANKSHAFT

The engine weighs only 2.56kgs and compose by assembled crank shaft having integral structure of crankpin and crank web. Since the crankpin and the crank web have an integral structure, even when the propeller touches the ground during takeoff and landing, the pressure point is reduced by $1/2$ and consequently achieve less risk of being twisted. compared with an assembled crankshaft press-fitted by the crankpin alone.

● High ENDURANCE



- Against maximum output 4.1kW with a muffler of standard specification, replacing by the tuned muffler, it reaches the maximum output of 5.5kW or more. However, due to high durability of the engine, it is possible to operate normally as it is. 400時間航続可能

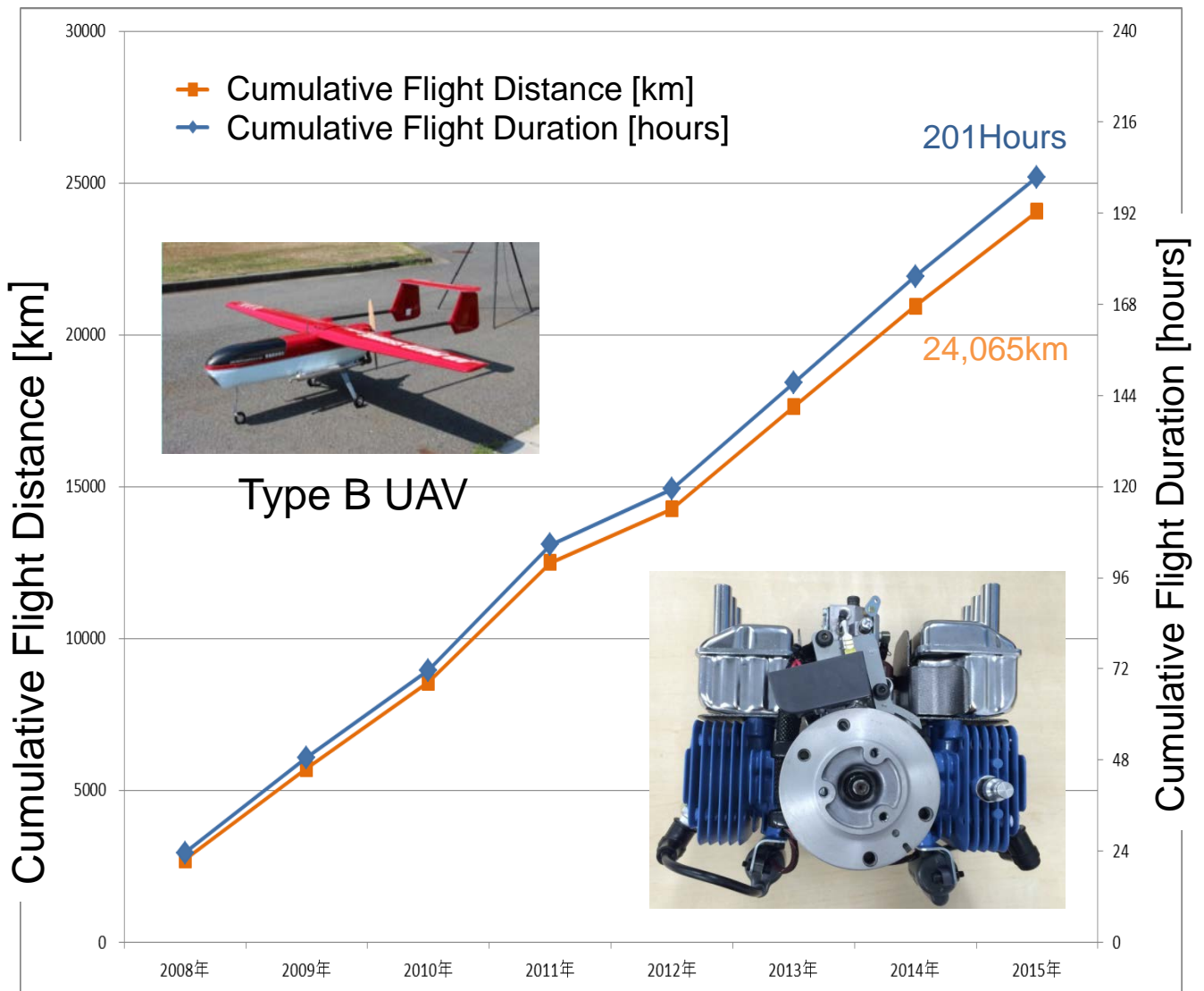
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● RELIABILITY

The UAV B-3 equipped with the BT-86 engine have a truck record of running 201 hours and totally 24,065km since started operation of UAV in 2008 and has been operating with no accident related with engine since then. Durability is much different from the engine for hobby-use model.



BT-86 is the most superior in reliability



BT-86 Engine Specification

Engine name	BT-86
Model	Air-cooling 2 cycles horizontal facing form lead valve type gasoline engine
Bore diameter x stroke	2-42.7mm × 30mm
Bore diameter x stroke	85.9ml
Max power	4.1kW (5.6PS)/9000min ⁻¹
Maximum torque	5.48N·m(0.56kgf·m)/5500min ⁻¹
Idling rotational speed	1800min ⁻¹
Rotatory direction	right rotation(viewed from the starting side)
Fuel	Lubricating oil mixture gasoline (Gasoline/Oil ratio 50:1)
Fuel consumption rate	599g/kW·h (440.5g/PS·h)
Carburetor	Walbro, HAD type
Ignition system	Flywheel magnet (CDI)
Spark plug	NGK BPMR7A
Dry weight	2.95kg
Main dimension	
Full length	160mm
Overall width	252mm
Overall height	205mm



Option parts

EFI

(Electrical Fuel Injection)

Other Products

BT-43 /

BT-24

www.kobasei.com/aircraft/unmanned