

CA42 Twin Engine Aircraft



CETC WUHU DIAMOND AIRCRAFT MANUFACTURE CO., LTD.

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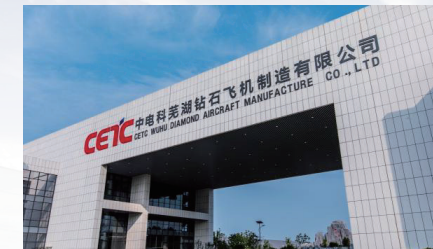
CA42 Twin Engine Aircraft



FLY AHEAD WHERE THE HEART LEADS

CA42 manufactured by CETC Aircraft

CA42 has been the best-selling piston twin-engine light aircraft so far. Equipped with the most advanced airframe design, avionics system and optimized AEC2.0L/AE300 jet fuel engine, CA42 is both powerful and economical at the same time.



- All carbon composite airframe
- New-generation jet fuel engine
- CR9 avionics system
- Satisfactory single engine operation
- Whole process self-manufacturing from raw materials to a complete aircraft



Fuel consumption at 60% in total:
39.4l/h (10.4 US gal/h)



Max. operating altitude:
5,486m (18,000 ft)



Max. cruising speed (16,000ft):
352km/h (190kts TAS)



Useful load:
589kg (1,299 lbs)



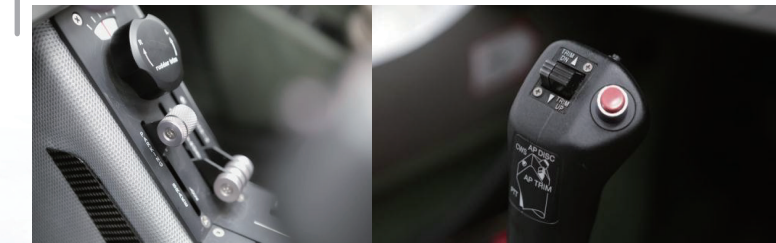
CA42 Twin Engine Aircraft Advanced Avionics System



EASY FLYING WITH ALL IN YOUR HANDS

CA42 is the undisputed leader in the general aircraft field in terms of safety, comfort, operation and efficiency.

Strong Operability



- Automatically adjust propeller pitch
- Integrated glass cockpit CR9 avionics system
- Automatically adjust mixture control

Economical Operation



- Manufacturing and operation base in Wuhu China provides more economical services
- All carbon airframe with unlimited life
- Fuel consumption of only 39.4 l/h at the normal cruising speed

Safety and Reliability



- Passive safety: safety protection for fuel system, overload safety test, pilot and passenger protection
- Active safety: single-lever control of the engine, EECU, engine cooling system
- Industry-leading flight safety record



Flight Training

- Equipped with CR9 integrated avionics system and retractable tricycle landing gears, CA42 can fulfill the daily training needs of the flight schools.
- Optimal choice for flight schools due to its superior flight control performance and outstanding safety performance.



Private & Business Flight

- CA42 can carry 1 pilot and 3 passengers. Comfortable access for all on board is assured through the forward swinging canopy, large rear door, handles and steps.
- New-generation autopilot system greatly reduces the pilot's workload and increases the flight safety.
- Customize your own CA42 with personalized coating to show yourself.



Tour and Sightseeing

- With a cruising speed of 352km/h and maximum operating altitude of 5486m, CA42 can take you enjoy the beautiful rivers and mountains of a country from the air.
- Equipped with two engines, CA42 can also maintain good flight performance with only one engine.



Air Taxi

- CA42 can carry 2-3 passengers to go anywhere at any time they want.
- Industry-leading safety record is due to its commitment to protecting you and your passengers through a series of active and passive safety features.
- Cost-effective jet fuel engine and all carbon airframe with unlimited service life greatly reduce the operation cost.

CA42 Twin Engine Aircraft Excellent After-sales Service



Senior Professional Maintenance Team, Ensure You Worry-Free

3 Major Maintenance Service

One-stop airworthiness maintenance/modification service

Provide one-stop maintenance service like technical consultation, aircraft maintenance, aircraft modification, technical support etc.

Reliable emergency assistance service

7X24 factory-based and 12-hour on site fast-response emergency assistance.

High-efficiency aviation materials support

Effective logistics support system and modern warehouse guarantee the supply of spare parts and accessories at any time. Long-term cooperation with the suppliers to guarantee timely and reliable spare part service.



Hotline and email feedback within 5 hours

Fully automatic warehouse prepares spare parts for 4-6 aircraft all the year round to satisfy the customers' need at any time.

With **12** Hours
Technical engineers give feedback

Within **24** Hours
Offer a solution

Within **48** Hours
Receive spare parts in urgent need

With **7** Days
Solve after-sales problems

Aircraft maintenance and training centers provide customized solutions and reliable, safe and fast-response service for all customers.

CA42 Twin Engine Aircraft Technical Specifications



POWER PLANT			
Engine	2xAEC2.0L turbocharged common-rail jet fuel engines, two-channel redundancy design for ECU and critical sensors		
Avionics	CR9 integrated glass cockpit avionics system		
Propeller	3-blade constant speed propeller		
Fuel grades	No. 3 Jet Fuel, Jet A-1, Jet A, RT, JP-8		
PERFORMANCE			
Max. cruising speed (16,000 ft)	352 km/h TAS	190 KTAS	
Cruising speed at 75% power	324 km/h TAS	175 KTAS	
Stall speed (flap up) 1,760 kg TOW	119 km/h CAS	64 KCAS	
Stall speed (landing configuration) 1,760 kg TOW	109 km/h CAS	59 KCAS	
Rate of climb (ISA SL) 1,760 kg TOW	6.73 m/s	1,325 fpm	
Rate of climb 1,760 kg TOW	5.59 m/s	1,100 fpm	
Range at 60% power	2,245 km	1,215 nm	
Consumption at 60% power in total	38.9 L/h	10.3 US gal/h	
Take-off ground roll / take-off distance MTOM	424 m/ 776 m	1,391 ft/ 2,546 ft	
Take-off ground roll / take-off distance 1,760 kg TOW	365 m/ 644 m	1,198 ft/ 2,114 ft	
Landing ground roll / landing distance MTOM	387 m/ 647 m	1,270 ft/ 2,123 ft	
Landing ground roll / landing distance 1,760 kg TOW	346 m/ 589 m	1,135 ft/ 1,932 ft	
Max. operating altitude	5,486 m	18,000 ft	
Max. demonstrated crosswind	46 km/h	25 kts	
DIMENSIONS / MASS / LOADING			
	Length	8.56 m	28 ft 1 in
	Height	2.49 m	8 ft 2 in
	Wingspan	13.55 m	44 ft 4 in
	Seats	4	4
	Empty weight	1,410 kg	3,109 lbs
	Max. take off mass	2,001 kg	4,411 lbs
	Useful load	591 kg	1,301 lbs
FUEL CAPACITY			
Long range fuel tank	289L	76.4 US gal	

* The above data are for reference and the manufacturer reserves the right to final interpretation. Any changes will be notified separately.

Business Distribution



• **118**
Overseas institutions

• **2.4 billion \$**
Overseas capital

• **59**
Nation distributions

• **2402**
Foreign employees

• **10+**
Overseas research & Innovation centers

• **498**
Chinese employees

CONSTANTLY CREATING VALUABLE FLYING FOR CUSTOMERS

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