

Y12F AIRCRAFT TECHNICAL DATA



AVIC HAIG

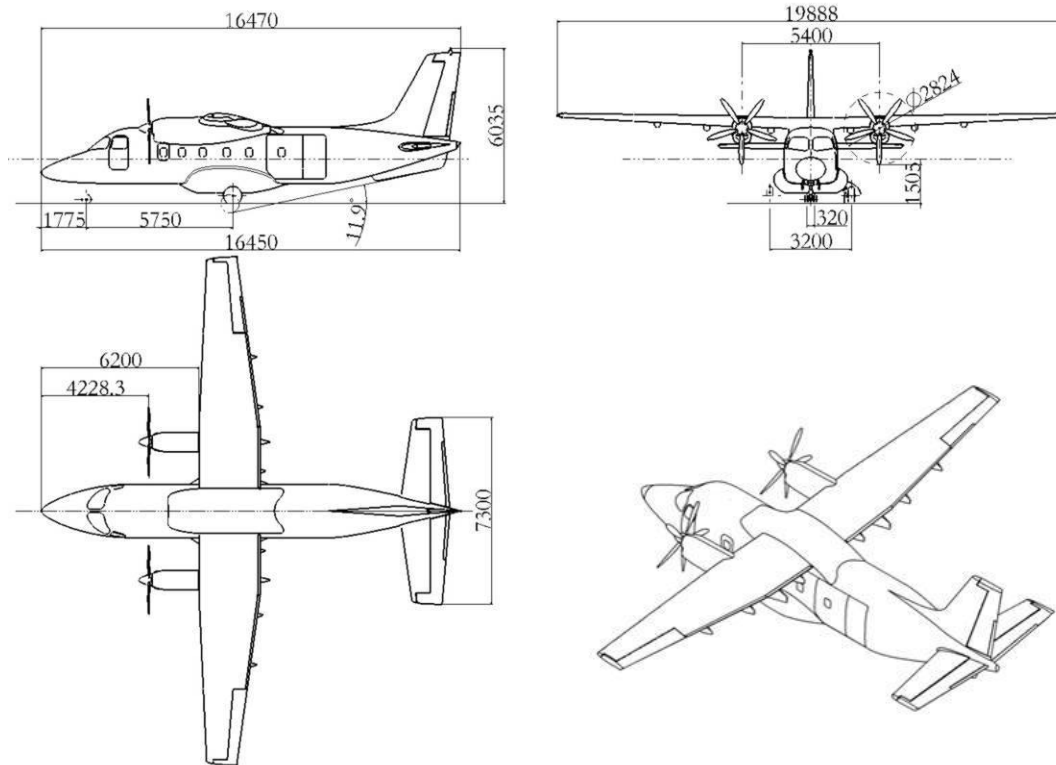
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Overview

Y12F is a new-generation multi-purpose turbo-prop transport aircraft designed and manufactured by AVIC HAIG. Based on the advantages of Y12 series aircraft, Y12F has been improved in the flight comfort, platform performance, reliability and maintainability. This model features high safety, high reliability and low cost. Y12F aircraft, a nonpressurized high-wing monoplane, adopts normal arrangement of single vertical tail and low horizontal tail, and retractable tricycle landing gears. This aircraft is designed with glass cockpit and double-pilot system. The maximum passenger capacity is 19; the maximum payload is 3 tons. Cargo bay can load 3 LD3 containers. By corresponding retrofit, Y12F model is capable of conducting a wide range of missions, such as VIP transport, maritime surveillance, and aerial photography operations.

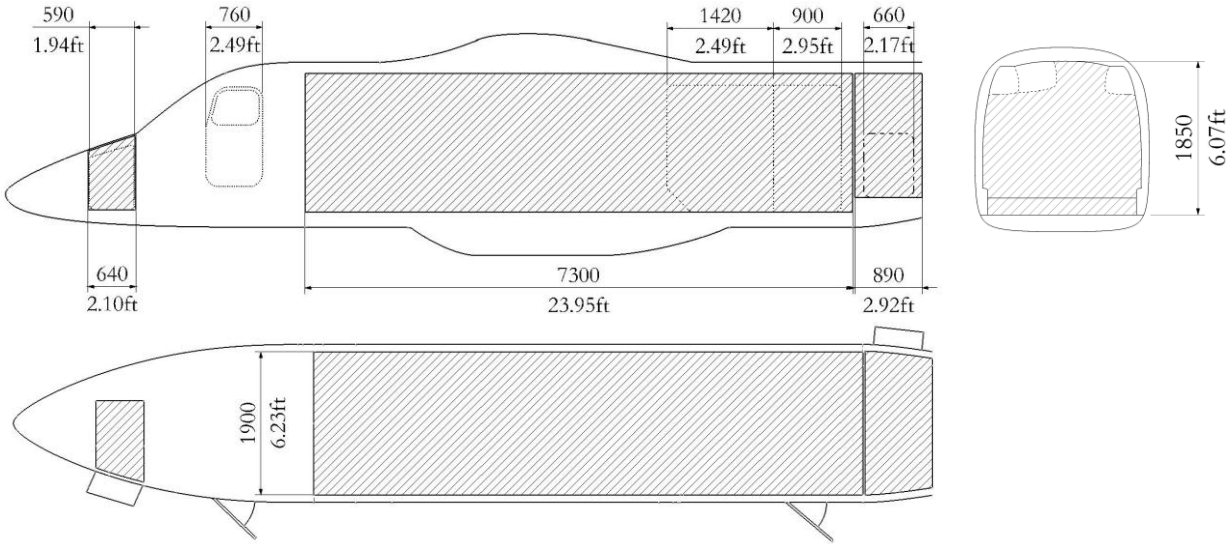
Y12F model has been granted CAAC type certificate in Dec. 2015 and FAA type certificate in Feb. 2016.

Dimensions



Overall Data	
Wing span	19.888 m
Airframe height	6.035 m
Airframe length	16.47 m
Wheel track	3.20 m
Wheel base	5.75m
Cabin	
Passenger cabin length	7.30 m
Passenger cabin width	1.90m
Passenger cabin length	1.85 m

Passenger cabin capacity	25m ³
Luggage compartment	
FWD luggage compartment length	0.64m
FWD luggage compartment capacity	0.44 m ³
AFT luggage compartment length	0.89 m
AFT luggage compartment capacity	2.68 m ³



Door	
Cockpit door (width × height)	0.76 m×1.32 m
Passenger cabin door (width × height)	0.90 m×1.74 m
Passenger /cargo door (width × height)	2.32 m×1.74 m
FWD luggage compartment door (width × height)	0.59 m×0.61 m
AFT luggage compartment door (width × height)	0.66 m×0.85 m

Performance data

Capacity

Passenger capacity	2 pilots + 19 passengers
Freight transport product	2 pilots + 3 LD3 containers/ pallet / bulk product
Weight	
Max. ramp weight	8450 kg
Max. take-off weight	8400 kg
Max. landing weight	8000 kg
Max. payload	3000 kg
Max. Zero fuel weight	7750 kg
Max. useable fuel	2454 kg
Flight performance	
Max. level flight speed	430 km/h
Economic cruise speed	380 km/h
Rate of climb, AEO	10.1 m/s
Rate of climb, OEI	2.25 m/s
Service ceiling, AEO	7000 m
Service ceiling, OEI	4600 m
Take-off running distance	720 m
Landing distance	843 m
Maximum range with fuel full (45 min fuel reserve)	2255 km
Maximum range with full load (45min fuel reserve)	357 km
Maximum range with passenger full (45 min fuel reserve + 200 nm fuel reserve)	994 km

Powerplant data	
Engine type	2 PT6A-65B turboprop engines, Pratt&Whitney, Canada
Power, single engine	1100shp
Operating limitation power	1000shp
Blade quantity	5
Operating limitation	
Maximum operating height	7000 m
Operating Temperature	-50 °C ~ +54 °C
Reliability	
TTFO, aircraft	12000FH/18000C
Service life of aircraft	40000FH/62000C

Note : The data above are used for presentation only; they may vary with different conditions.