

Y12E AIRCRAFT TECHNICAL DATA



AVIC HAIG
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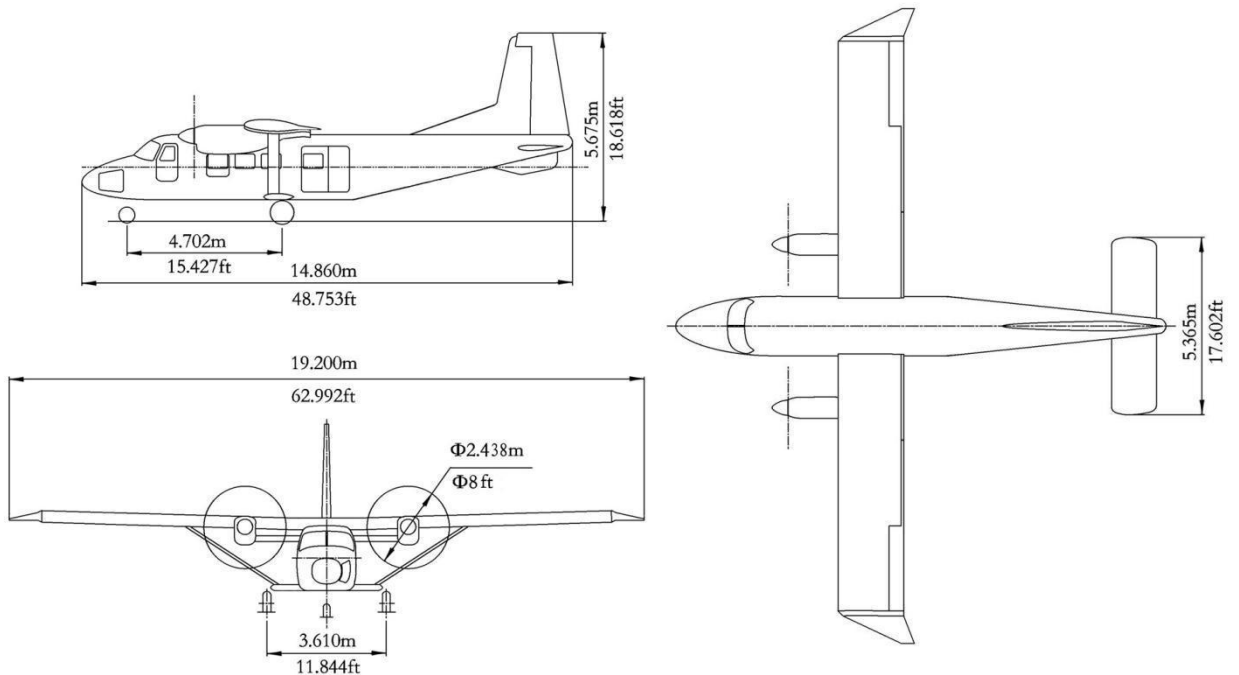
Overview

Y12E airplane is of a multi-purpose aircraft developed by AVIC HAIG. The aircraft features twin engine, high monoplane, shear wing-tip, single vertical tail, low horizontal tail and fixed tricycle landing gears.

Y12 E aircraft has been type-certified by CAAC in Dec. 2001, type-certified by FAA in Aug. 2006. In Aug. 2015, Y12E obtained Russia IAC AR VTC.

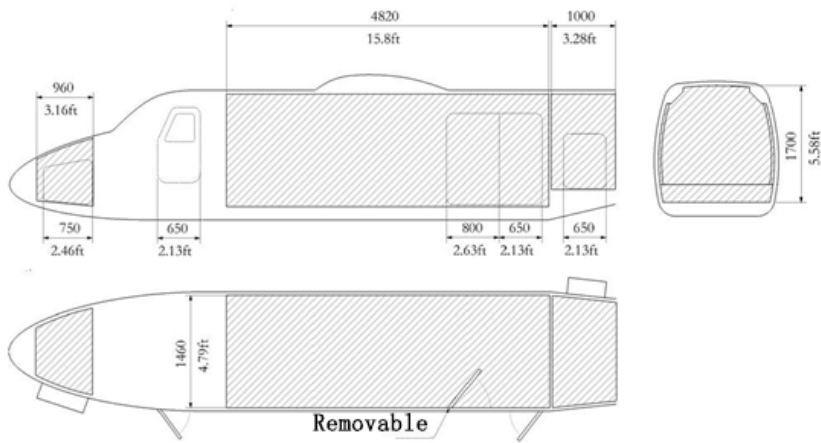
Easy to operate and high maneuverability, Y12E is able to take off and land on high and hot airfield as well as unpaved strip. It can be operated during day or night in VFR and IFR. The deicing unit equipped on the empennage enables the aircraft to be operated in icing conditions. It is applicable to passenger/cargo transportation, aerial photography, flight training, air drop and parachuting, EMS, maritime surveillance, agriculture and forestry, artificial precipitation, geological surveys, SAR, etc.

Dimensions



Overall Data	
Wing span	19.2 m
Airframe height	5.675 m
Airframe length	14.86 m
Wheel track	3.61 m
Wheel base	4.702 m
Cabin data	
Passenger cabin length	4.82 m
Passenger cabin width	1.6 m
Cabin length	1.70 m
Effective capacity	12.00 m ³

Luggage compartment data	
FWD luggage compartment length	0.96 m
FWD luggage compartment capacity	0.77 m ³
AFT luggage compartment length	1.00 m
AFT luggage compartment capacity	1.89 m ³



Cabin door data	
Cockpit door (width × height)	0.65 m × 1.12 m
Passenger cabin door (width × height)	0.65 m × 1.38 m
Passenger /cargo door (width × height)	1.45 m × 1.38 m
FWD luggage compartment door (width × height)	0.75 m × 0.60 m
AFT luggage compartment door (width × height)	0.65 m × 0.91 m

Performance data

Capacity	
Passenger transport	2 pilots + 18 passengers

Weight data	
Max. ramp weight	5700kg
Max. take-off weight	5670 kg
Max. landing weight	5400 kg
Max. payload	1984 kg
Max. Zero fuel weight	5188 kg
Max. useable fuel	1230 kg
Flight performance	
Max. level flight speed	344 km/h
Economic cruising speed	270 km/h
Rate of climb, AEO	7.8 m/s
Rate of climb, OEI	1.5 m/s
Service ceiling, AEO	7000 m
Service ceiling, OEI	4200m
Take-off running distance	465m
Landing distance	590 m
Maximum range (45min fuel reserve)	1340 km
Maximum range with full load (45min fuel reserve)	382 km
Powerplant data	
Engine type	2 PT6A-135A turboprop engines, Pratt&Whitney, Canada
Power, single engine	750 shp

Operating limitation power	620shp
Blade quantity	4
Operating limitation	
Maximum operating height	7000 m
Operating Temperature	-50 °C ~ +50 °C
Reliability	
TTFO, aircraft	4000FH/6000C
Service life of aircraft	36000FH/54000C

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