



Y12F

AVIC HARBIN GENERAL AIRCRAFT INDUSTRY CO., LTD.



Servicing our products in whole lifecycle

Creating values for all customers



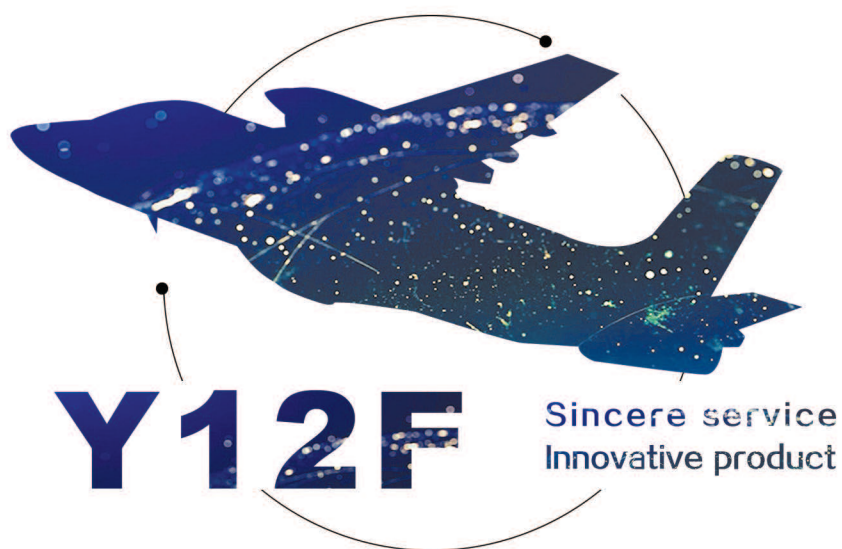
Add: No.15 Youxie St., Pingfang Dist., Harbin, China

Tel: 0451-51539009

Fax: 0451-51539000

E-mail: y12@avic.com

P.C.: 150066



Milestones

Founded in June 23rd 2016; a member of Aviation Industry of China (AVIC); the former fixed wing branch of AVIC Harbin Aircraft Industry Group Co., Ltd.

Employee: about 300

Key products: Y12E, Y12F

Y12 series aircraft:

It is a light twin-engine multi-purpose aircraft developed in 1980s and certified by 15 countries including China, U.S., U.K., and France. It was exported to over 30 countries and regions, and more than 230 shipsets have been delivered to the customers.

Y12F aircraft:

It is a new generation of twin-engine multi-purpose general aircraft developed since 2005. It has obtained the Type Certificates of CAAC, FAA and EASA, and the Production Certificate of CAAC.

2015

Y12F aircraft

2016

Company founded

1994

Y12IV model

2001

Y12E model

Y12II model

1985

Main Business

- ©Global sales of Y12E and Y12F aircraft;
- ©R&D (new model development, retrofit & improvement, customized modification), production, delivery; inspection and overhaul;
- ©Whole lifecycle service, including spare part support, technical support, maintenance support, conversion training and etc.

Basic features

Y12F is a twin-engine multi-purpose general aircraft that features of high-wing, single vertical tail, low horizontal tail and retractable tricycle landing gear. It is equipped with two PT6A-65B turboprop engines manufactured by Pratt & Whitney Canada, five-blade low-noise propeller manufactured by Hartzell, and the glass cockpit fitted with advanced integrated avionics system.

Y12F
Sincere service
Innovative product



Advantages



- ✓ Adequate power margin for flight safety;
- ✓ Aerodynamic shape with low air drag and high speed for a longer range;
- ✓ Big space and payload, great passenger & cargo transport efficiency;
- ✓ Integrated avionics, advanced and comfort cabin layout;
- ✓ Damage allowance design, easy for maintenance, cost effective for operation;
- ✓ Abundant choices of optional equipment, fast conversion capability;
- ✓ Quick spare part support, timely response and all-round service;
- ✓ Customized design, stable production, mature and reliable quality.

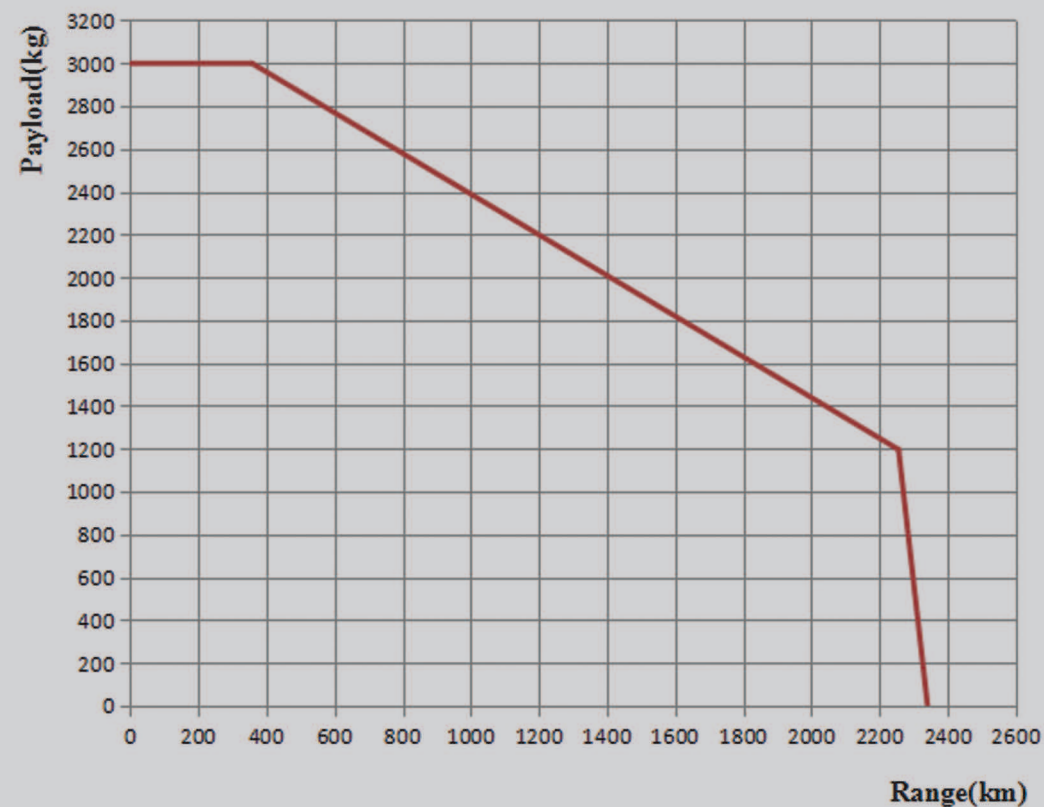
Optional system:

- ⊗ Autopilot
- ⊗ Anti-skid brake
- ⊗ Wing-tail pneumatic de-icing system
- ⊗ Standard/luxury interior
- ⊗ Standard/VIP seats
- ⊗ Heating system
- ⊗ Air-conditioning system
- ⊗ Portable/integrated oxygen supply
- ⊗ Cargo transport system
- ⊗ LD3 container transport system



Aircraft
performance

Y12F aircraft payload-range chart



Performance		Performance	
Max. level flight speed	430 km/h (230 kts)	Ceiling - AEO	7000 m (22965 ft)
Economic cruise speed	380 km/h (205 kts)	Rate of climb - OEI	2.25 m/s (440 ft/min)
Max. range (45 min fuel reserve)	2255 km (1220 nm)	Rate of climb - AEO	10.1 m/s (1990 ft/min)
Endurance	6.8 h	Take-off distance	821 m (2694 ft)
Ceiling - OEI	4600 m (15100 ft)	Landing distance	843 m (2766 ft)

Satisfied airworthiness
requirements

CCAR Part 23
CCAR Part 36
FAR Part 23
AEG

★★★★★

Satisfied operation
requirements

CCAR Part 91
CCAR Part 135

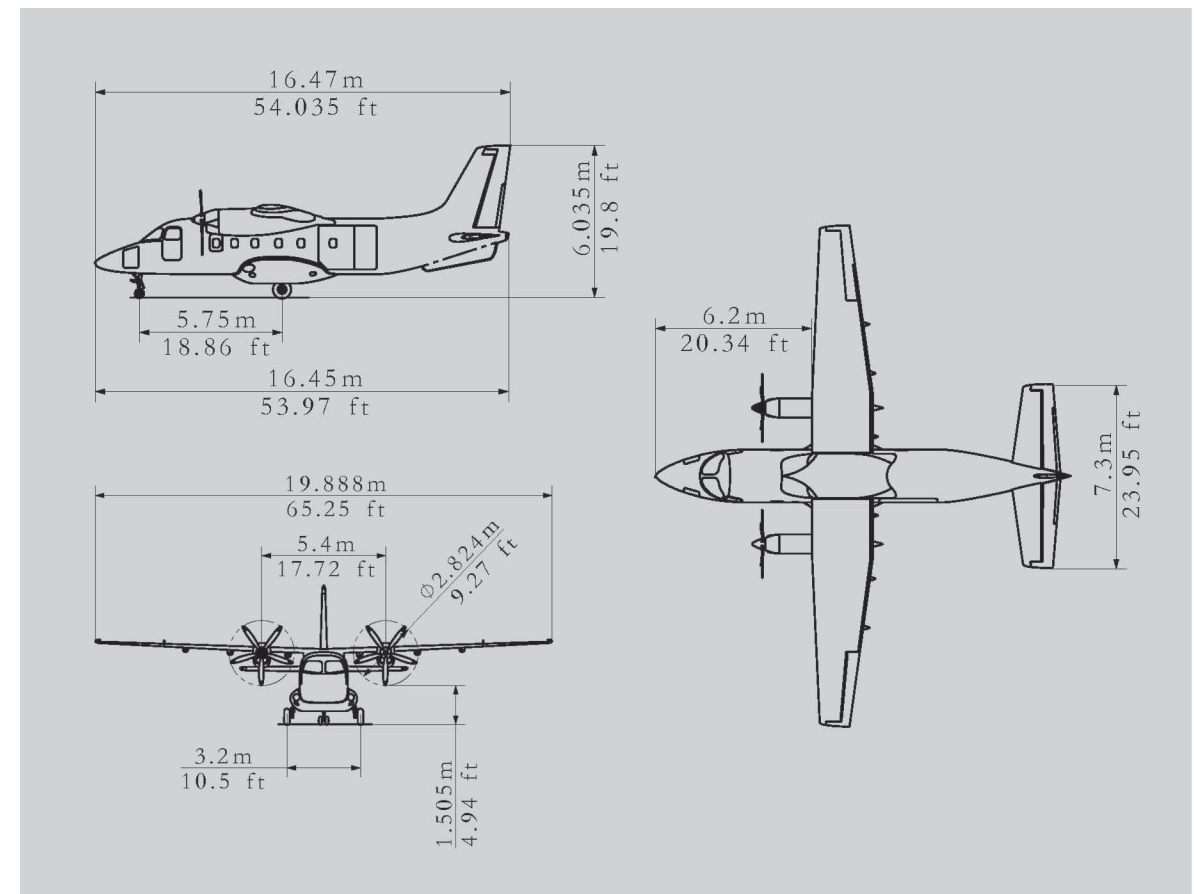
★★★★★

Typical operation

Passenger transport Air drop/parachuting
VIP transport Ambulance
Cargo transport (bulk) Aerial photography
Cargo transport (container) Geological survey
Maritime surveillance

★★★★★

>>> Weight and external dimensions



Dimensions		Weight	
Cockpit door (width×height)	0.90 m×1.74 m (295 ft×5.70 ft)	Max. ramp weight	8450 kg (18590 lb)
Cabin door (width×height)	232 m×1.74 m (7.60 ft×5.71 ft)	M.T.O.W	8400 kg (18480 lb)
Luggage compartment capacity	3.12 m³ (110.2 Cuft)	Max. landing weight	8000 kg (11904 lb)
Cabin - length	7.3 m (23.95 ft)	Max. zero fuel weight	7750 kg (17600 lb)
Cabin - width	1.9 m (6.23 ft)	Max. fuel quantity	2454 kg (5400 lb)
Cabin - height	1.85 m (6.07 ft)	Max. payload	3000 kg (6600 lb)

Service life

Airframe life	40000 FH / 62000 landings
Airframe	TBO 12000 FH / 18000 landings
MTBF	≥20h
MTTR	≤0.6h

Engine



Engine (P&W CANADA)

Model	PT6A-65B	TBO	6000 FH
Rated power	1100 SHP	HSI	2000 FH
Power Limited to	1000 SHP		

Propeller



Propeller (Hartzell, U.S.)

Type: constant speed, feathering, reverse, electrical de-icing

Blade model: M10876ANSK

Number of blades: 5

Propeller diameter: 2.824 m (111.2 in)

Hub model: HC-B5MP-3D

Propeller speed: 1700 rpm

TBO: 3000FH / 5Y

Avionics

Y12F aircraft adopts glass cockpit design, and fitted with Honeywell APEX integrated avionics system to provide flight information, navigation information, system operation information and warning information.

★★★★★

Honeywell APEX integrated avionics system

Communication & navigation equipment

HF communication

Audio control

S-mode transponder

ELT

Color weather radar

EGPWS

TCASII

Cockpit voice recorder

Flight data recorder

★★★★★





Ambulance

A set of medical oxygen supply system;
two sets of medical rescue unit,
each of them includes:

- ⊗Electrical aspirator
- ⊗Respirator
- ⊗Infusion pump
- ⊗CPR equipment
- ⊗AED
- ⊗NC stethoscope



VIP layout



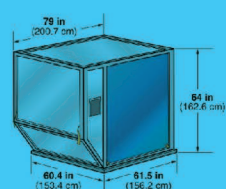
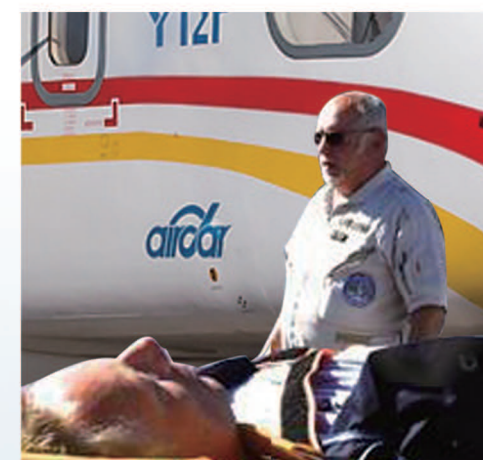
19 seats standard layout

Passenger transport

- ⊗1.85m cabin height
- ⊗Seat pitch - better than premium economic class
- ⊗Toilet
- ⊗Overhead bin

Cargo transport

- ⊗Big space
- ⊗Big cabin door
- ⊗Proper door-to-ground height for loading cargos
- ⊗Capacity: three LD3 containers or equivalent pallet
- ⊗Container transport system





Maritime rescue/surveillance

Maritime radio
Electro-optical pod system
Intelligent vessel monitoring system
Satellite communication terminal system
Video recorder
Aircraft web opening - photographing
LH/RH sliding window - photographing
Life vest & life raft



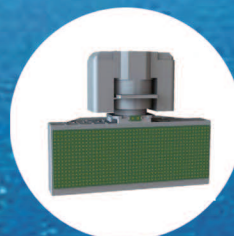
Electro-optical pod



Mission equipment



Photographing window



Maritime radio



Parachuting

1. Instructor's equipment
 - ☉ Safety belt
 - ☉ Headset
 - ☉ Airspeed indicator
 - ☉ Altimeter
 - ☉ Aviation clock
 - ☉ Three-color indication light
 - ☉ Alarm bell
 - ☉ Control system
2. Parachuting door (open inward)
3. Reinforced anti-skid floor
4. Foldable paratrooper seats (Qty: 22)
5. Tightening device - parachuting accessories





All life cycle and all-round operation support and service:

◉Policy interpretation: _____
provides interpretation and compliance analysis of the airworthiness and operation regulations.

◉Technical publications: _____
provides the continuous airworthiness publications and amendments.

◉Information management: _____
collects and collates the aircraft operation information, responses to the user's concerns.

◉Maintenance support: _____
provides the airframe & aircraft component repair, the spare parts and ground equipment, and the engineering support.

◉Training: _____
provides conversion and recurrent training to the pilot and maintenance engineer; the Flight Training Device is available.

◉Others: _____
provides customized modification, aircraft system upgrade/replacement, the flight route analysis and so on.