

Alpha Trainer



ALPHA TRAINER IS FOR YOU BECAUSE YOU ARE LOOKING FOR

A lightweight and simple solution for competitive training. The perfect compromise between good performance and low price.

The ideal basic personal aircraft for daily flight pleasures, using only 10 litres of unleaded fuel per hour.

Strong undercarriage and proven track record with thousands of hours flown in training operations.

DESCRIPTION

A simple, yet complete flying solution!

Alpha Trainer represents a special concept of economic training for pilots. Built on the solid pedigree of our extensive Sinus and Virus models product line-up, the Alpha Trainer combines quality with an affordable price. It offers convenient flying with no performance set-backs: it is an efficient two-seat composite aircraft, which combines Pipistrel's competitive advantages, high-tech manufacturing and ease of use. Powered by the Rotax 912 80 HP engine it burns less than 9.5 litres (2.5 US gal) of ordinary mogas fuel per hour in the training role performing circuits. It is suitable for beginners as well as for seniors, having an easy cockpit access. The cockpit is spacious, quiet and offers perfect communication between instructor and student. To tolerate student pilots we have built in a strong and durable undercarriage, capable of accepting hard landings with good absorption.

The Alpha Trainer is the perfect robust aircraft, easy to fly, repair and maintain without breaking the bank. At the moment more than 500 Alpha Trainers are used all over the World, resisting also in the harshest conditions and used by civil and military Flight Academies, often flying 5-8 hours every day. By selecting some optional equipment with exciting features the Alpha Trainer can offer significant upgrades to your flying activity.

The complete Alpha Trainer solution with its low operation cost, highly efficient performance and great value for money relation brings a top competitive product when considering new training aircraft offers.

It is important to highlight Alpha Trainer key **outstanding** characteristics:

- It is approved for stalls demonstration and has benign stall characteristics for the training market with no flying surprises
- It is capable of doing circuits all day long, in all conditions including excessive heat well above 100°F (37°C)
- It has good ventilation and heating when required
- It has approved strobes and lighting
- It has guaranteed access to reliable spare parts supply to keep the aircraft on the flight line
- It has reasonable range for cross-country flight training
- It is easy to refuel and service daily
- It has a ballistic parachute rescue system as standard equipment
- It has a durable finish for outdoor storage
- It has good brakes for the odd 'urgent occasion'
- It has dual flight controls, easy and quickly adjustable for different sized people
- It has a classic-looking instrument panel
- It has an expected long operating life
- It has tricycle landing gear configuration with a steerable nose wheel

TECHNICAL CHARACTERISTICS

TECHNICAL DATA PIPISTREL ALPHA TRAINER	
ENGINE ROTAX	ROTAX 912 UL
max power	80 hp at 5800 rpm
PROPELLER	
Fixed pitch wooden 63"/1620 mm diameter propeller with protected leading edge	
DIMENSIONS	
wing span	34,4 ft. (10,5 m)
length	21,33 ft. (6,5 m)
height	6,07 ft. (2,05 m)
wing area	96,6 sqft (9,51 m ²)
rudder area	11,8 sqft (1,1 m ²)
tail area	11,6 sqft (1,08 m ²)
aspect ratio	11,3
positive flaps	0°, 15°, 25°
center of gravity	20% – 38% MAC
WEIGHTS	
empty weight	615 lbs (279 kg)
max take off weight (MTOW)	1212 lbs (550 kg)
Payload with full fuel	507 lbs (230 kg)
fuel tanks capacity	13,2 US gal (50 l)
useful fuel	12,7 US gal (48 l)
PERFORMANCES	
DATA PUBLISHED FOR MTOW 1,212 lbs All speeds in Knots	
stall with flaps	37 kts
stall without flaps	43 kts
cruising speed (75% power)	108 kts
maximum horizontal speed at sea level	120 kts
VNE	135 kts
max speed with flaps down	70 kts
manoeuvring speed	86 kts
best climb speed	75 kts
max climb rate	1,220 fpm
best glide ratio speed	64 kts
best glide	15:1
take off run	459 feet
take off over 50' obstacle	738 feet
service ceiling	18,000 feet
45°-45° roll time	2,6 sec
fuel consumption at cruise speed	3,6 US gph (13,6 lph)
endurance (with 30 min reserve)	3,1 hours
cruise range distance	324 NM (600 km)
max load factor permitted @ 1,875	+4g -2g
design safety factors & tested	minimum 1,875
Note: Pipistrel reserves the right to revise this data sheet whenever occasioned by product improvement, government/authority regulations or other good cause.	