




AVIA
L I T E W I N G S
FLY. FULFIL. FROLIC

Transforming the Aerospace Market

**“No real change in history has
ever been achieved by discussion.”**

-Subhash Chandra Bose

**“Ultralight aircraft,
characterised by its light
weight and affordability,
opens up a world of
possibilities across
various sectors.”**

Own, Use and Create
efficiency with fun
and frolic in your daily lives.

-Jaydev Desai

What is Ultralight Aircraft?

- Ultralight aircraft is an aircraft with only one or two seats and whose maximum take-off weight is less than 600 kg.
- Ultralight aircraft can be a fixed wing aircraft or a rotary wing aircraft. In rotary wing ultralight category, there are two types of aircraft; Helicopter and Gyrocopter or Gyroplane.
- We at AviaTraining are focused only on rotary wing ultralight aircraft, i.e. Ultralight Helicopter and Gyroplanes.

“ Once you have tasted flight, you will forever walk the earth with your eyes turned skywards.”

- Leonardo Da Vinci





Why Ultralight Aircraft?

- **Ease of operation:**
Easy to fly and easy to maintain.
- **Affordable:**
Cheaper than high end luxurious cars.
- **A versatile flying machine:**
Has varied utility values for individuals, corporates and industries as well as governments.
- **Motivates job creators:**
It has potential to set up a start up in aviation sector with comparatively very low investment.
- **Encourages start up culture with R & D in aviation sector.**

**“Unless you spread your wings,
you have no idea how far you can fly.”**

What is a Gyroplane?

- It looks like helicopter but flies like a fixed wing aircraft.
- The simplest and least complex flying machine.
- Unlike helicopter, Gyroplane engine is not connected to rotor.
- Therefore, vertical take – off and landing is not possible.
- Gyroplane cannot spin or stall. Provides enough time to look out appropriate time and opportunity to land safely, even when engine fails. That makes it the safest flying machine.
- It needs 70 to 100 m of take – off run.
- For take – off, it needs only unprepared or grassy land.
- Powered by four stroke piston engines like cars. Uses high quality petrol as fuel.
- Ease of ground handling, minimum flight preparedness, ease of flying and maintenance.
- One who drives car with discipline can fly the gyroplane easily. of course, you do need Gyroplane Pilot license.

**“To most people, the sky is the limit.
To those who love aviation,
the sky is home.”**



Utilisation

“When everything seems to be going against you, remember that aircraft take – off against the wind not with it.”

- Henry Ford

Leisure, Joy Ride, Adventure

Training

Supervision and Control

Security, Surveillance & Policing

Air Services

Asset Management

Medical Services

Leisure

- Plan unique outing with family/ friends/ loved ones in your own aircraft.
- Gift an aircraft to your loved ones.
- Be a class above and sign off in style with aircraft in your back yard.

“In a world of trends, I prefer to be classic.”





Joy Ride

Have a sky view of the tourist and other places you visit.

**In life, you're along for the ride either way.
You might as well make it fun!**

- Travis Pastrana

Adventure

Be a member of Avia AeroSports Club, spend adventurous time in unique way with fun and frolic.

“You must do something in your life that is honourable and not cowardly if you are to live.”

- Larry Brown





Air Display Team

Coming Soon...

Avia Air Display Team of Gyroplanes and Helicopters exhibiting thrilling air manoeuvres, pilot skill and capability of these wonderful flying machines.

**“Strength of the team is each member, And
Strength of each member is the TEAM”**



Training

- AviaTraining conducts Pilot training for Gyroplanes and Helicopters both.
- For Gyroplane – Gyroplane pilot license
- For Helicopter – PPL (Helicopter) and CPL (Helicopter)
- **Licensing Requirements:**
 - Age above 16 years.
 - 10th pass with maths and science.
 - Computer number from DGCA.
 - Medical examination (Category – 2).
 - Student pilot license.
 - Five ground subjects to be cleared.
 - 40 hrs of instructional flying for GPL and PPL and 150 hours for CPL.

India has the largest number of women pilots in the world. So if you think, woman can't drive, well she can fly too. Why not you TOO.





Supervision and Control

Use of Gyroplanes and Ultralight Helicopters are very cost-effective and efficient way to carry out supervisory and control checks over a vast area like Forests, Highways, Railways, Dams and Canals etc.

First be effective, then be efficient.
Use novel ways to be effective and efficient.



Supervision of Forest

Ultralight aircraft is an efficient vehicle for forest department to carry out supervision run over the forest for identifying possible fire, location of troubled wild animal, activities of poachers and so on and reach at desired place faster.

“We need to protect our forests to protect all of life.”

- Samatha Lynch





Gyroplanes and Ultralight Helicopters for Highways/ Railways

- Inspection
- Monitoring
- Aid and recovery
- Rescue

**“America’s roads are not good because America is rich.
But America is rich because its roads are good.”**

- John F Kennedy

Patrolling and Border Management

- Border patrolling
- Air borne sniper
- Air borne special task force soldier

We need to make sure that we have secured borders.





Efficient Policing

- Anti-Narcotics operations
- Anti-terrorist operations
- Air borne command post for mega events like Kumbh Mela and Rath Yatra
- Area combing operations
- Anti – Riots operations
- Traffic management

“I want to foster a positive relationship between police force and community they protect.”

- Kenny Stills

Agro – Spray

- Agro spray with our ultralight aircraft provides following advantages
 - Wider area coverage
 - Less time consuming

Agriculture is a fundamental source of national prosperity.





Land Survey

Utilizing Helicopters/ Gyroplanes for aerial surveys provides a unique advantage due to their ability to hover, manoeuvre in tight spaces, and cover large areas quickly, ensuring high-quality data capture and flexibility in survey operations.

- **Types of Aerial Surveys:**

- Photographic survey
- Videographic survey
- Infrared surveys
- LiDAR survey

- **Advantages:**

- Accuracy
- Three-dimensional modelling
- Wide span of range
- Cost efficiency
- Time efficiency

Legal and accurate surveys are far between and find themselves in demand.

Services for Special Events

- Spraying rose petals
- Special entry/ exit of Bride/ Groom
- Joy rides for guests at a party (Children Party, Kitty Party)
- Adventurous experience during corporate events

Make special events more special





News Coverage – Media

- Timely with speed.
- Timely with effective reach.
- Timely with aerial view.

“News is only the first rough draft of history.”
- Alan Barth

Asset Management

- Gyroplane/ Ultralight Helicopters are arial vehicle for management of assets that are spread all over in a very large area.
- Optimum solution for man and material movement with time and cost optimisation.
- Reduces system down time and opportunity lost cost.
- Ideal for Railways, Oil and Gas companies, Power Distribution, TV Tower and other similar companies.

Keep calm, a maintenance man will fix it.





Medical Services

- Transfer of organs
- Urgent transfer of doctors and medicines
- Rescue

There is no difference between saving lives and extending lives, because in both cases we are giving people the chance of more life.

Our Gyroplanes: Avia – Brako

Tandem Seats

Usage: It is used for Sports and adventure activities

Make: Carpenterie Pagotto, Italy

Important Parameters

Seats type	Tandem	Empty Wt	285 Kg
No. of Occupants	2	Max Pay Load	240 Kg
Minimum Speed	60 kmph	Max T/O Wt	550 Kg
Cruise Speed	140 kmph	Power Plant	Rotax 914 UL
Max Speed	175 kmph	Configuration	4 Strokes 4 Cyl Piston
Vne	178 kmph	Power	115 HP
ROC	6 m/s	Starter	Electric
Glide Ratio	3	Intake	2 Carbs + Turbo
T/O (Take/ Off) Distance	100 m Max	Fuel Capacity	80 ltr
Distance Landing	5 m Min	Propeller	DUC
Operational Ceiling	4500 m	Diameter	1.75 m
Fuel Consumption	20 Ltr/ Hr	Rotor	Two-blade main rotor
Cockpit Dim	1.25 m	Diameter	8.4 m
Wheel Dia	0.35 m	Rotor Surface Area	55.40 m ²
Range	450 Km	Flight Endurance	3 Hours





Our Gyroplanes: Avia – Tercel

Side by Side Seats

Usage: It is used for sports, adventure and other missions flying

Make: Aviation Artur Trendak, Poland

Important Parameters

Seats Type	Side by Side	Wt Empty	326 Kg
No of Occupants	2	Max Pay Load	235 kg
Minimum Speed	60 kmph	Max T/O Wt	560 Kg
Cruise Speed	130 kmph	Power Plant	Rotax 914/ Rotax 915
Max Speed	182 kmph	Configuration	4 stroke 4 Cyl Piston
Vne	200 kmph	Power	122/141 HP
ROC	6.1	Starter	Electric
Glide Ratio	03:01	Intake	2 Carbs + Turbo
Distance T/O (Take/ Off)	100 m	Fuel Capacity	2 X 60 l - 120 ltr
Distance landing	5 m	Propeller	Kasper KA - 2/3
Operational Ceiling	4500 m	Propeller Diameter	1.72 m
Fuel Consumption	20 Ltr/ Hr	Rotor	Trendak and Son AI
Wheel Dia	0.35 m	Diameter	8.4/ 8.5/ 8.8 m
Range	800 Km	Rotor Surface Area	58.60 m ²
Flight Endurance	5 Hours		

Our Helicopter: Avia – Escape

Side by Side Seats

Make: Lamanna Helicopter, Italy

Important Parameters

Seats Type	Side by Side	Empty Wt	290 kg
No of Occupants	2	Max pay load	310 kg
Cruise Speed	160 km/h	Max T/O Wt	600 kg
Vne	240 km/h	Power Plant	Rotax 915 is
ROC	1500 ft/min	Configuration	4 stroke, 4 cylinder
Service Ceiling	23000 ft	Power	141 hp
Fuel Consumption	13 - 24 l/h	Fuel capacity	65 L
Skid Track	5.13 ft	Rotor Dia	22.14 ft
Range	600 km	Flight Endurance	3.5 h



**“If birds can glide
for long periods
of time, then...
why can't I?”**

-Orville Wright



WG CDR JAYDEV DESAI
+91 9099927699
jd@aviatrainingssolutions.com

Avia Training Solutions Pvt. Ltd.
1204, One World West, Ambli Road,
Ahmedabad - 380058, Gujarat, INDIA.