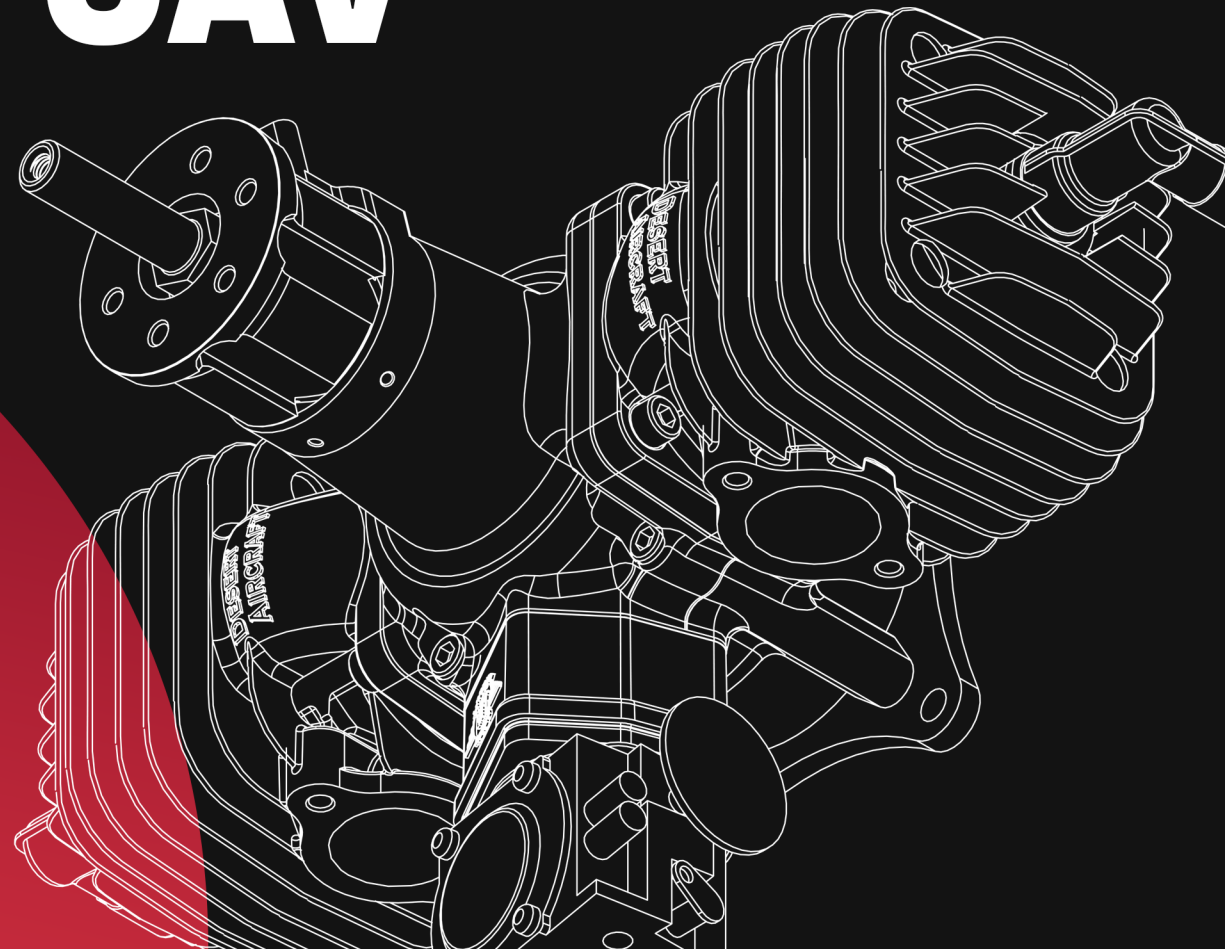


# Next Gen UAV *Services*



We are Next Gen UAV and we have been the leading engine supplier to some of the biggest defense companies in the middle east since 2020.

# Proof of Concept UAVS

NextGen UAV provides its wealth of experience and knowledge in composites, CAD design and Aero dynamic simulations to help you turn your ideas into reality using our simple 5 stage technique

## *1- Proof of Concept Realization*

Through our expert team of engineers, we will design your airframe structure based on your desired mission requirements. Once initial designs are approved, we will simultaneously run airframe analysis, airflow dynamics, and internal structure strength and functionality, which will provide us with all the necessary parameters and the correct airfoil and wing design that will be best suited for the task.



## *2- Mold Manufacturing*

Using our state of the art 3 axis CNC machine, we manufacture the the necessary molds and plugs with machine tolerances of less than 0.003mm in precision. At this point our highly skilled and trained technicians will take on the process of finalizing and prepping all molds to for prototype lay-ups.

## *3- Prototype Production*

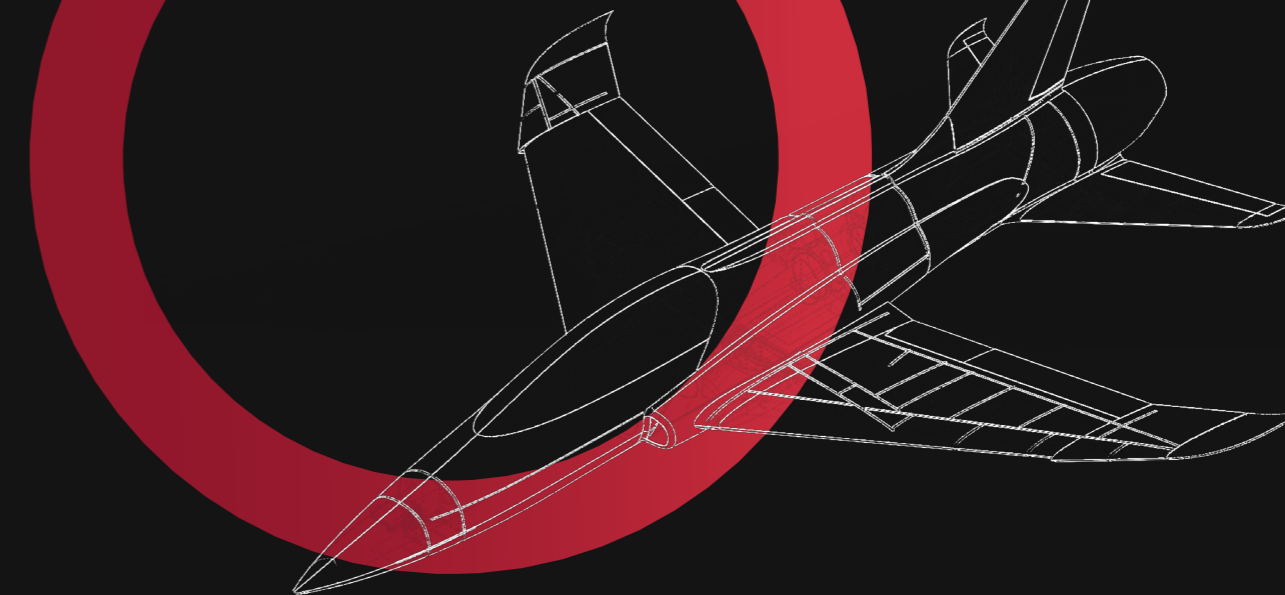
Production of the first prototype is made using our years of experience in composites resulting in superior structural strength at incredibly light weights. In parallel with production, we start the procurement process of all the required components so that once the airframe is ready we can move onto the next stage with minimal time loss.

#### 4- Final Assembly

Final assembly starts in which all components such as the engine, power distribution, servos, control link, autopilot, landing gear and various other sensors are carefully installed to provide an airworthy prototype that is fully ready for testing.

#### 5- Flight Testing

Flight testing is conducted through a series of flight tests that define the airframes flight envelopes and should be very close to the simulated parameters obtained in the initial realization stage. Depending on the installed equipment, further testing will be conducted on all sensors and installations to ensure that all equipment is functioning and performing as intended. Once all checks are completed to a satisfactory level, the POC prototype along with all the molds is boxed and prepped to ship to the customer.



#### Note:

- Timeline of the above stages greatly depends on the initial idea as design complexity plays a large part on the time required to complete each of the above mentioned stages.
- If after prototype approval, a full production run is required, NextGen UAV can take on a turn key project to provide RTF airframes.

**UAV made simple**



# Engine Services

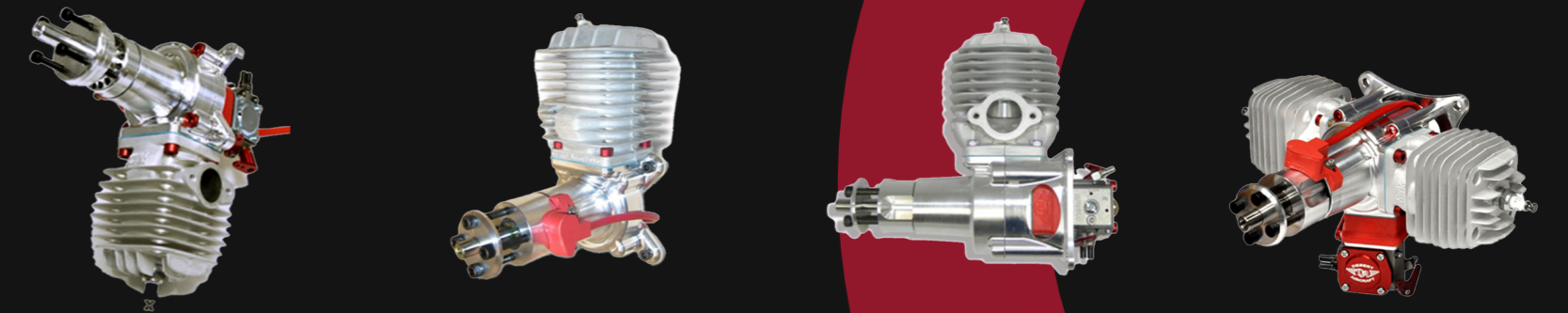
The heart of any flying machine is the engine, and for an engine to run reliably for prolonged periods of time it will require servicing. At Next Gen UAV we will put all your engine problems at bay as we have the expertise and experience to keep them running at their best.

Our team of engineers have undergone special training in the USA to be able to service both Carbureted and Electronic Fuel injected engines. We are proud to be the first to build a state of the art authorized service center in Dubai.

Our Expert team of engineers and engine technicians are here and on call to solve any issues that you might be faced with.

Through a simple questionnaire that has been developed and designed to expedite the trouble shooting process, our engineers will easily be able to pin point the area of concern.

With the latest hitech tools and equipment, we are able to service any size of engine from 35cc all the way to 215cc.





Contact Us

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