

GNAT  
SHOOT  
.co.uk



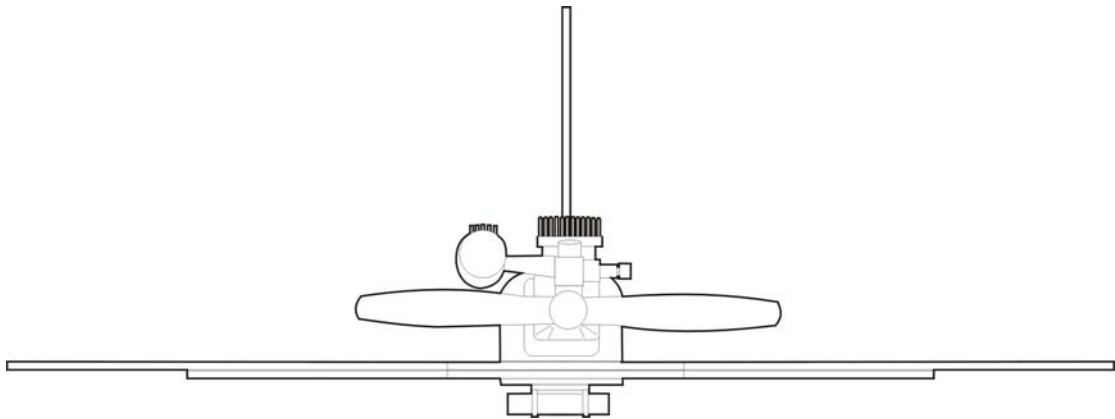
# GNAT SHOOT

## HUNTER OR HUNTED



# **ATS GNAT TARGET SYSTEM**

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# 1. WHAT IS GNAT SHOOTING

The ATS Gnat has been hugely popular in the UK for many years, and has featured in events such as high profile celebrity charity shoots held at most of Britain's most famous shooting grounds, to private parties at country estates.

The aircraft flies at speeds of up to 70 mph, with extremely rapid directional changes and fighter like agility. Controlled by very experienced "pilots", the shooters prey is probably one of the hardest targets they will ever encounter.

Should the competitors out-skill the Gnat pilots, and hit the aircraft, they are rewarded with a pyrotechnic explosion from one of the 10 "flash pods" attached to the wing. Should more than three pods be struck at the same time, the force can dramatically down the aircraft.

Extremely low cost, easy to fly, highly visible, wide speed range, any in the field component change possible within three minutes.

The Gnat is constructed from impact resistant fluted polypropylene and injection moulded nylon. All components are produced utilising CNC machinery.

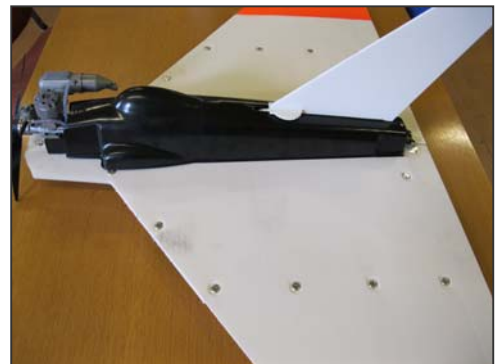
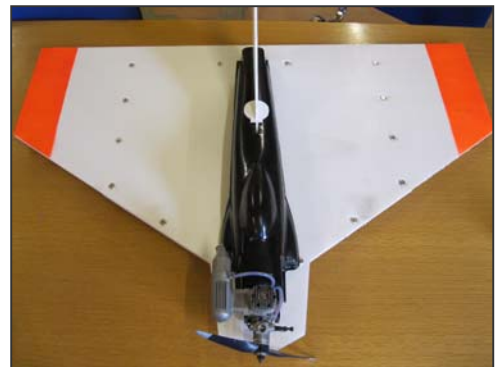
This is a picture of one of our Gnat systems based in the UK. The launcher is bolted to the top of the trailer making a completely mobile, self-contained unit. There is plenty of advertising space on the side of the trailer.



## 2. GNAT COMPONENT PARTS

### READY TO FLY GNAT TARGET

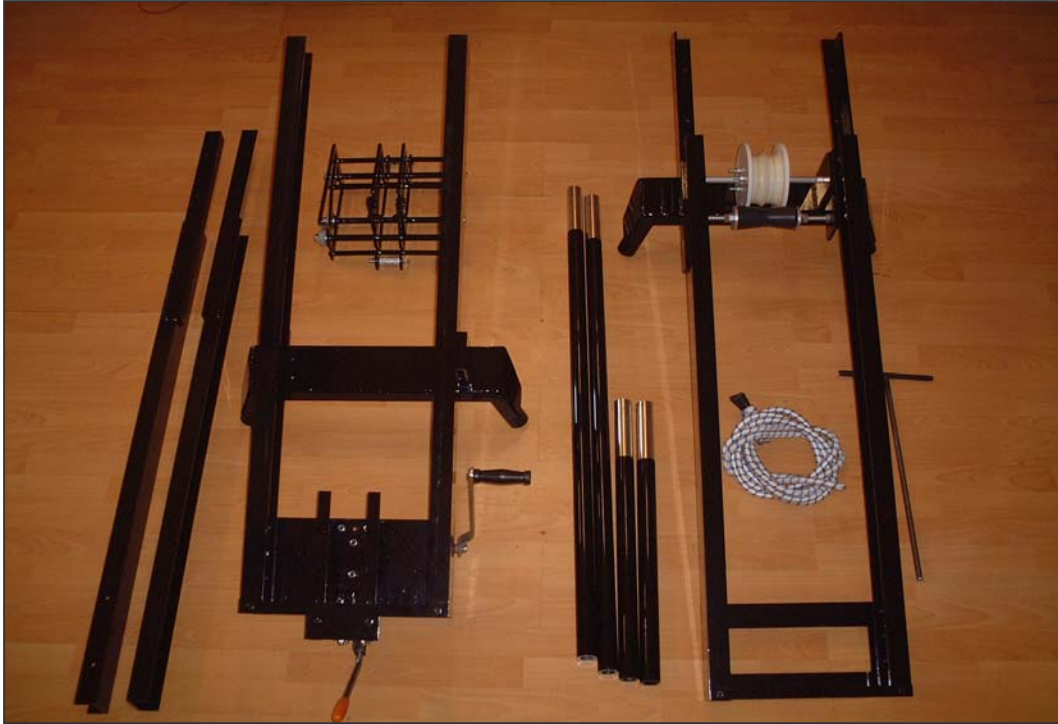
Top and bottom view of a 'Ready To Fly' Gnat target. Note the pods on the underside of the wing. The wings are designed to be disposable whilst the fuselage, engine and radio equipment are all reusable.



### GNAT LAUNCH SYSTEM

**Why do the Gnats need a launcher?**

**To be able to operate the Gnats on any kind of terrain and in restricted areas it is necessary to be able to get them up to flying speed as quickly as possible. The best way to do this is to use the Gnat Launcher. The launcher comes as a freestanding machine but can easily be bolted to a trailer.**



Gnat freestanding launcher broken into its component parts. It is a 10 minute operation to assemble the launcher.



Gnat freestanding launcher assembled.

# DISPOSABLE PARTS



## FLASH POD

The Flash Pod is a ready to go unit, which is transported under 1.4s. The pod is a friction sensitive device which goes off with a flash and a bang when hit. Grrreat!!!



## WING

The wings are cut on a CNC router and assembled here at ATS. Simply screw on the fuselage, control horns and Flash Pods and they are ready to go.



## FUSELAGE

The fuselages are injection moulded. They are durable and are designed as a 'semi-disposable' item.



## FUSELAGE TOP

The fuselage top is a vacuum formed fuselage canopy. This part is an aesthetic cover to the main fuselage and is designed to be replaced at the end of each shoot so your Gnat fleet always looks shiny and new on its next outing.



## FIN

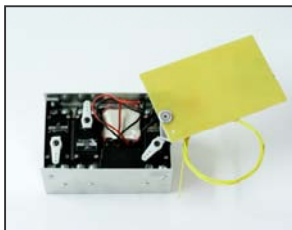
The tail fin is CNC cut here at ATS. We recommend they are replaced after every shoot to keep the Gnat looking smart.

## SEMI-DISPOSABLE PARTS



### ENGINE

The engines are surprisingly resilient to shot, most engine damage is due to a hard, nose in crash.



### AVIONICS UNIT

This is the heart of the Gnat. It is a completely self-contained unit housing the servos, battery and receiver. The casing is shot proof. Apart from the occasional need to change the servos or a battery the Avionics Unit will last for a very long time.



### LAUNCH SKID

The Launch Skid is bolted to the underside of the wing and locates the Gnat onto the launcher. It is injection moulded from the same material as the fuselage.



### PUSH ROD ASSEMBLY

The Push Rod Assembly links the servo output arms to the control surfaces on the wing. They last for a long time only really being damaged by a heavy crash.



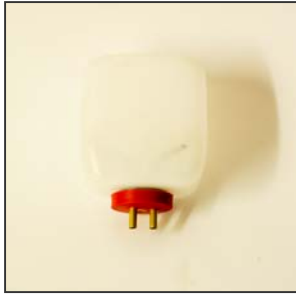
### CONTROL HORN

The Control Horns are CNC cut from aluminium and are designed to be completely shot proof. They are supplied with a composite underplate located on the underside of the control surface.



### FLASH POD HOLDER

The HOLDER is made from aluminium and contains a powerful magnet. The holders screw onto the wing and the pods simply snap into them making in field pod changes quick and easy.



### **FUEL TANK**

The Fuel Tanks are a standard nylon model tank but are assembled at ATS with a fixed clunk.

## **NON-DISPOSABLE PARTS**



### **FREE STANDING LAUNCHER**

As described earlier in the document the launcher is fabricated here at ATS. As long as the launcher is well maintained it will last indefinitely, the only part that will need replacing is the bungee.



### **2.4Ghz TRANSMITTER**

This item is supplied as part of a complete system. It is a standard 2.4Ghz model transmitter with model memory and electronic mixing capability.



### **12V STARTER**

This item is supplied as part of a complete system. It is a standard 12V electric starter.



### **12V CHARGER**

This item is supplied as part of a complete system. It is a standard 12V electric fast charger.



### **12V GLOW STARTER**

This item is supplied as part of a complete system. It is a standard 12V Glow Starter.

## **SUNDRY PARTS**

### **TOOL KIT**

**Comprises of all necessary hand tools needed to operate the Gnats in field.**

### **NUTS AND BOLTS**

**ATS supply all necessary nuts and bolts needed to operate the Gnats.**

### **GLOW PLUGS**

**Glow plugs do need to be replaced quite regularly. ATS can supply replacement plugs.**

### **3MM BALL JOINTS**

**These are usually supplied as part of the pushrod assembly but they can be supplied as a separate part by ATS.**

### **FUEL TUBING**

**Fuel tube needs to be replaced quite regularly, ATS supply fuel tube in any length.**

### **PROPELLERS**

**The Gnat uses a standard nylon propeller, which is impervious to shot. Most propeller damage is due to poor landing or crashing.**

## PRICE LIST

All prices are quoted in Sterling, US Dollar price will vary depending on the exchange rate. Prices inside the EU are subject to VAT.

Prices do not include shipping.

PRODUCT	GBP
Ready to Fly Gnat Target	395.00
Free Standing Gnat Launcher	2995.00
Flash Pod	1.00
Wing	15.75
Fuselage	27.00
Flash Pod Holder	5.00
Fin	2.00
Engine	59.50
Avionics Unit	175.00
Launch Skid	11.50
Push Rod Assembly (x2)	19.95
Control Horn (x2)	9.50
Engine Mount	N/A
Fuel Tank (assembled)	3.50
Transmitter	200.00
Starter	24.50
Field Charger (12V fast charger)	69.50
Glow Starter	12.95
Tool Kit	89.50
<b>SUNDRY PRODUCT</b>	
Nuts and Bolts, (Pack of 2 x wing bolts, 4 x horn)	3.95
Glow Plug	2.95
3mm Ball Joints (x2)	5.00
Fuel Tube (x1foot)	0.75
Propeller	2.45

# CONTACT DETAILS

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