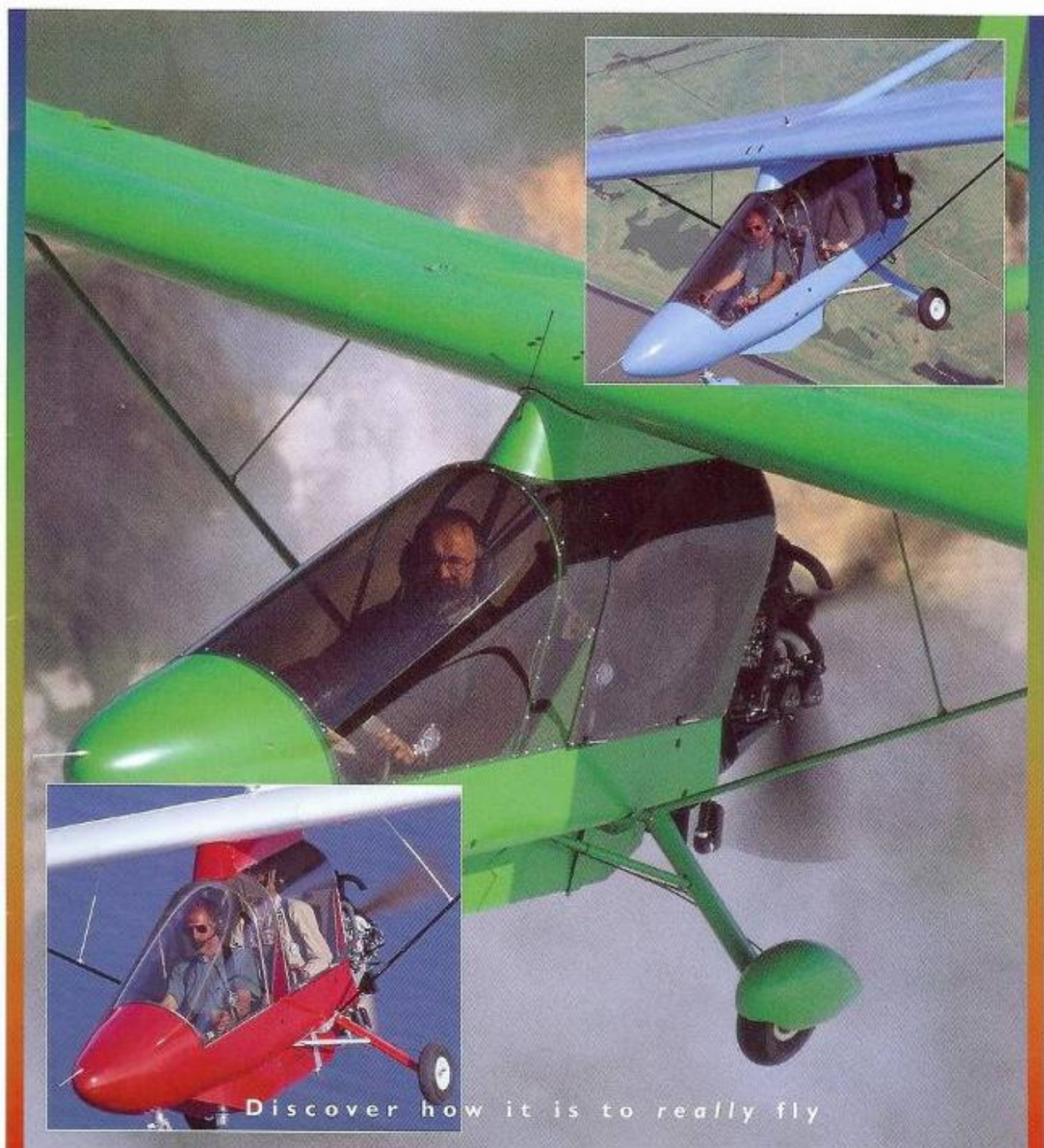


Fly

CFM  
AIRCRAFT

# SHADOW STREAK STAR STREAK



Discover how it is to really fly



## The Shadow Experience

The CFM Shadow is a two seat CAA Type Approved aircraft of outstanding performance, with a safety record second to none. The first Shadow flew in 1983 and today there are nearly 400 flying in 40 countries around the world.

Tandem seating produces an ideal training aircraft. Instructors and students enjoy how easy the Shadow is to fly, in wind conditions beyond the capability of most light aircraft. They relish the sporty performance, and relax knowing the Shadow has a stall so docile it's described as minimum flying speed. Nor does it spin. Full aileron control is maintained right down to minimum flying speed.

STOL performance and low speed manoeuvrability are virtues that also make the Shadow an ideal farm strip aircraft. A useful cruise of up to 102 knots (Star Streak), long range tanks, ergonomic cockpit design and reclined pilot seating make cross-country flying a joy. The electric pitch trim, operated by buttons on the moulded-grip side-stick, permit extended hands-off flight.

### SHADOW APPLICATIONS

Apart from the many leisure pilots who choose the Shadow for its fun, it has been successfully used in a wide range of

utility roles, including: crop spraying, LCAS (low cost air surveillance), APT (aviation for paraplegics and tetraplegics), and world record attempts. The Shadow, winner of a coveted Design Award and a winner at the World Air Games, has been taken to an altitude of over 27,000ft.

### SHADOW BUILD

Designed specifically for the amateur constructor, all three Shadow types can be built from kits at home without need for expertise or equipment beyond what's available to most DIY enthusiasts. For the non-builder, complete Shadow

and Streak microlights are supplied from the CFM Aircraft factory. (The Star Streak is a homebuilt in the UK, under PFA administration). The kit comes in 3 stages, with stage payments: 1. Fuselage, 2. Wings & Tail, 3. Engine, Propeller & Instruments.

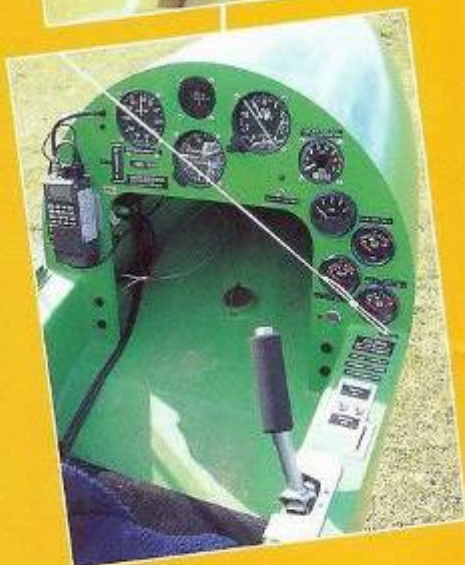
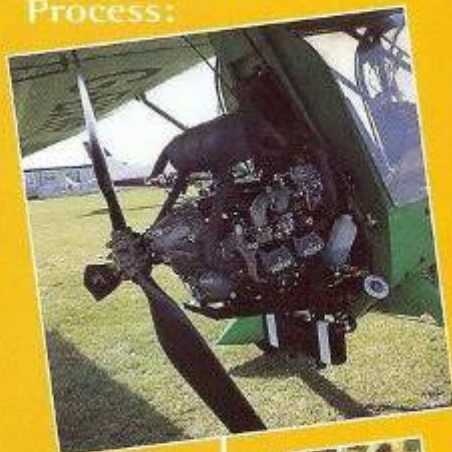
### SHADOW FACTORY

CFM Aircraft Limited is a CAA (Civil Aviation Authority) A1 Approved Organisation for design and manufacture. CFM first earned this privileged status in 1984. Microlights built at the CFM Aircraft factory are delivered with Type Approval granted by the CAA.

The Leiston factory employs 10 people full-time. It is divided into 4 dedicated production units, one of which is a fully equipped spray shop. Design and Development takes place on site and full use is made of the latest in CAD. In addition to kit component manufacture and aircraft production, the factory also undertakes maintenance and inspection work.

Advice is readily available to Shadow owners at the end of a phone line or by e-mail. There is an active Shadow Owners' Club and close links are maintained with Shadow specialist organisations and schools around the country.

### Stages in the Homebuilding Process:





### SHADOW

Classic D Series with electric start and long range tank



### STREAK

Combined benefits of microlight and light aircraft



### STAR STREAK

Ideal aircraft for the PPL(A) pilot who wants something different

## SPECIFICATIONS:

| PERFORMANCE                  | SHADOW                | STREAK             | STAR STREAK        |
|------------------------------|-----------------------|--------------------|--------------------|
|                              | All airspeeds are IAS |                    |                    |
| Vne (Never Exceed)           | 108 knots             | 122 knots          | 125 knots          |
| Maximum Straight & Level     | 88 knots              | 94 knots           | 102 knots          |
| Minimum Flying Speed         | 30 knots              | 33 knots           | 38 knots           |
| Cruise - 75%                 | 76 knots              | 84 knots           | 87 knots           |
| Cruise - 50%                 | 70 knots              | 78 knots           | 82 knots           |
| Rate of Climb - Solo         | 1,200 fpm             | 1,200 fpm          | 1,500 fpm          |
| Rate of Climb - Dual         | 820 fpm               | 800 fpm            | 1,050 fpm          |
| Ceiling                      | 25,000 feet           | 25,000 feet        | 25,000 feet        |
| Fuel Capacity                | 35 litres             | 70 litres          | 70 litres          |
| Range (at economical cruise) | 180 nautical miles    | 420 nautical miles | 435 nautical miles |

| DIMENSIONS/WEIGHT<br>POWERPLANT | SHADOW            | STREAK            | STAR STREAK       |
|---------------------------------|-------------------|-------------------|-------------------|
|                                 | Wing Span         | 10 metres         | 8.5 metres        |
| Overall Length                  | 6.4 metres        | 6.4 metres        | 6.15 metres       |
| Height (tail down)              | 1.75 metres       | 1.75 metres       | 1.75 metres       |
| Wing Area                       | 15.25 sq. metres  | 13 sq. metres     | 11 sq. metres     |
| Weight (empty)                  | 190 kgs           | 205 kgs           | 205 kgs           |
| Maximum Take-Off Weight         | 386 kgs (410 kgs) | 408 kgs           | 408 kgs           |
| POWERPLANT                      | Rotax 582         | Rotax 582         | Rotax 618         |
| Rated Horsepower                | 64 hp             | 64 hp             | 74 hp             |
| Engine/Propeller Reduction      | 2.58:1            | 2.58:1            | 2.62:1            |
| Propeller                       | 3 Blade 52" x 55" | 3 Blade 52" x 55" | 4 Blade 52" x 55" |

| OPTIONAL<br>POWERPLANTS      | STREAK +<br>ROTAX 618 | STREAK +<br>ROTAX 912 |
|------------------------------|-----------------------|-----------------------|
|                              | Vne (Never Exceed)    | 122 knots             |
| Maximum Straight & Level     | 98 knots              | 112 knots             |
| Minimum Flying Speed         | 33 knots              | 33 knots              |
| Cruise - 75%                 | 85 knots              | 90 knots              |
| Cruise - 50%                 | 80 knots              | 82 knots              |
| Rate of Climb - Solo         | 1,400 fpm             | 1,350 fpm             |
| Rate of Climb - Dual         | 960 fpm               | 930 fpm               |
| Ceiling                      | 25,000 feet           | 22,000 feet           |
| Fuel Capacity                | 70 litres             | 26 litres             |
| Range (at economical cruise) | 425 nautical miles    | 180 nautical miles    |
| ENGINE                       | 2 Cylinder/2-Stroke   | 4 Cylinder/4-Stroke   |
| Rated Horsepower             | 74 hp                 | 80 hp                 |
| Engine/Propeller Reduction   | 2.62:1                | 2.273:1               |
| Propeller                    | 4 Blade 52" x 55"     | 3 Blade 52" x 64"     |

All aircraft are supplied with dual controls unless otherwise specified. Standard equipment includes:

#### FLIGHT INSTRUMENTS:

- ASI (Front & Rear)
- Compass
- VSI
- Slip Indicator
- Altimeter

#### ENGINE INSTRUMENTS:

- Tachometer
- Pressure Gauge (R912)
- Temperature Gauges (EGT, CHT, Coolant)
- Fuel Contents

#### CONTROLS:

- Electric Trim - Pitch
- Heel Brakes (Front Cockpit)

#### OPTIONAL EQUIPMENT:

- Rear Cockpit Brakes
- Tinted Canopies
- Alloy Wheels
- Vista Vents
- Wheel Spats
- Strobes
- Seat Cushions
- Additional Instruments
- Folding Wing System
- Navigation Systems - GPS etc.
- Moulded Side-Stick
- Radio & Intercom
- Oil Injection (2-Stroke)
- Mobile Hangar/Trailer
- Alternative Engine

*"You can only appreciate a Streak by flying it. This is a true pilot's aeroplane but without the vices associated with performance aircraft".*  
Flyer

**CFM Aircraft Ltd**

Tel: 01728 832353

Fax: 01728 832944

cfmaircraft@compuserve.com

Website: www.cfm-aircraft.co.uk