

Exhibitor No: 310156

FOR IN FLIGHT: OR STATIC: DISPLAY

Show No 137

Attention: Requested information will be used by the official Airshow speakers

As well as providing information for the press office, this document will be used as a basis for the official commentaries. Exhibitors should therefore indicate the technical data and commercial information requested, as well as any other information they would like to transmit to the public during the flight program.

MANUFACTURER:	ISSOIRE AVIATION		
AIRCRAFT TYPE AND NAME:	APM 40 SIMBA		
CATEGORY:	Training and travel light aircraft		
COUNTRY:	France		
FIRST FLIGHT:	DISPLAY CREW:		
Date: 19/05/2009 Location: Issoire	Philippe Moniot		Gérald Ducoin
Crew: Philippe Moniot			
ENGINE(S):			
Number: 1	Type:	IO-240B	
Manufacturer:	Teledyne-Continental		
Take off rating (Dry): 125 shp	With reheat:		
Propeller(s):	MT propeller		
TECHNICAL DATA:	COMMERCIAL INFORMATION:		
Empty weight: 1 120 lb	Prototypes (or pre-prod):	1	
Max take off weight: 2 205 lb	Firm orders:		
Max cruise speed: 144 kts	Options:		
Max operating speed: 132 kts	Deliveries:		
Stall speed: 53 kts	Production rate:	6 a year, starting 2011	
Max endurance: 04:30	Number of clients:		
Max range: 683 NM	Contact during the show:	Philippe ou Isabelle Moniot	
ACCOMMODATION:	WEAPONS		
Accommodation: Four seater			
Max payload: 1 102 lb			
MISCELLANEOUS:			
<p>2005 : Philippe Moniot displayed the world's first certified carbon fibre aircraft : the APM20 Lion Cub two-seater. At that time, we said that the heaviest pilot was flying the lightest aircraft !</p> <p>2007 : Philippe Moniot displayed the three seater APM21 Lion, an evolution of the APM20.</p> <p>2009 : Philippe Moniot is proud to display a full composite home made four seater, first flight of which took place last month, just before the Paris Air Show.</p> <p>French light aviation could well be renewed by the Simba from Rex Composites, a company which is heavily involved in all French aerospace programmes. With this programme, Philippe Moniot is targeting the replacement market for 1500 touring aeroplanes as well as training planes for professional pilots, both civil and military. First test flights have confirmed the 130 kt cruising speed at 75% power. A true four seater, the Simba uses a sandwich structure, with a pre-preg carbon fibre skin with a nomex honeycomb for the fuselage. As with the previous models, the wing structure uses a monolithic carbon epoxy pre-preg. Wing ribs and fuselage frames are Nomex-glass-epoxy honey comb. This process permits the manufacture of a single piece fuselage from the fire-wall to the fin. With the Simba, Issoire Aviation has moved from analogue instruments to a glass cockpit using two screens developed by Aspen Avionics. The Simba will be assembled at Issoire in a new 16 000 ft2 factory, now under construction for Issoire Aviation.</p>			