## **Cierva C.30** (Avro Rota Mk.I) Swedish autogyros SE-AFI & SE-AEA 3 aircraft – 5 versions in 1/87 scale

Print on 5x7" (13x18 cm) paper for a nice large picture postcard size kit. Or print two pages per sheet on ordinary A4 or Letter size paper. Only the two last pages of each model need to be printed on photo paper (one A4 or Letter size sheet). View other pages on screen.





(Above:) SE-AEA above is shown at true size when built from this 1/87 scale kit. This paint scheme is not included in the kit – Roman Vasilyev (Kampfflieger) has modeled it, and many other autogyros, in a new updated 1/48 version of his British Avro Rota. An older, 1/72 free download of the Rota has been used as a base for this kit, with Roman's kind permission.

Profile source: Wings Palette
Kampfflieger models source: Ecardmodels-com

(Wherever it says "Source..." in the text, click on that area for the original source of photos and drawings.)

SE-AEA is modeled in three versions: 1. Blue & white trim, as it was imported by Swedish autogyro pioneer Rolf von Bahr and used by him for widely publicized ambulance flying. 2. Blue, with a large Swedish flag to mark it as a non-combattant during WWII when used for mine sweeping. 3. Silver & and blue trim, such as it now hangs from the roof of the Royal Technical Museum, Stockholm, Sweden.

Two other of von Bahr's imported Cierva autogyros are modeled, SE-AFI, as seen in the large photo at left, and SE-AZA, in a non-standard silver & blue paint scheme.

(Left:) SE-AFI on display at the Aviodrome, Lelystad Airport, Holland.

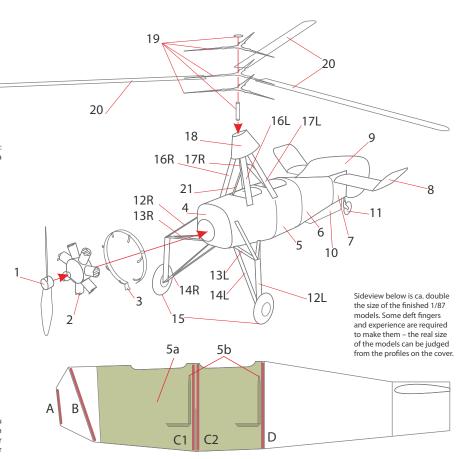
Photo courtesy: Fred Willemsen Airliners-net

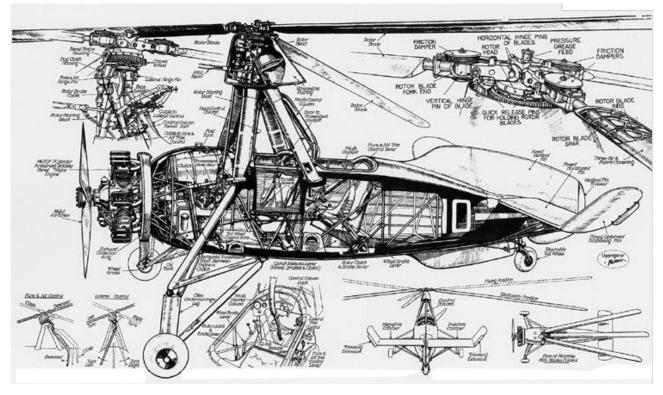
From a 1/72 original © Kampfflieger 2004 1/87 kit & recoloring by Leif Ohlsson Avro built 78 Cierva C.30, fitted with an Armstrong Siddeley Genet Major IA 7-cylinder radial engine of 140 hp (100 kW). The first production C.30A was delivered in July 1934. Eventually, 26 Cierva/Avro Rota autogyros were directly exported by Avro. They went both to private owners and to foreign air forces who wished to investigate the autogyro's potential.

Source: Wikipedia

The subject of this model is an Avro-built C.30 imported to Sweden by Rolf von Bahr, who collected 7000 hours of autogyro flying in his log book, 2500 of them artillery spotting and mine-sweeping during WWII, when the Swedish flag was painted large on the fuselage sides to mark it as a non-combattant aircraft. He also flew winter ambulance transports in mountain regions, and charter flights for ski tourists. He operated six out of the eight Swedish autogyros at the time, until the arrival of helicopters in the late 1940s. This meant the demise for autogyros as a type until the ultralight revival decades later.

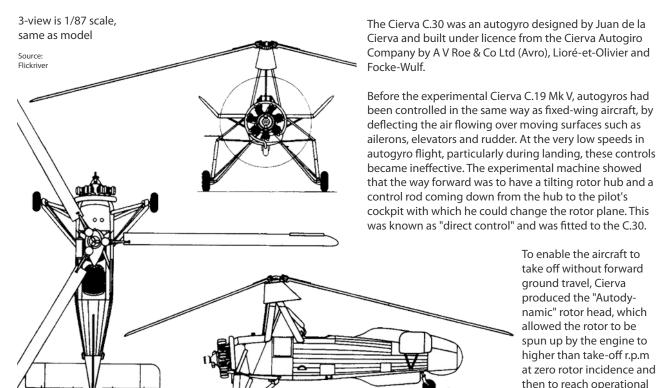
> Sources: Avrosys-nu & Rotary Wing Forum & 1949 Swedish newspaper interview with Rolf von Bahr





Autogyros were the first rotary wing aircraft to fly successfully with sufficient control. The design had inherent safety, better low-speed flight than airplanes, as well as the capability of vertical take-off and landing. Despite these advantages, autogyros were never really accepted.

Image source: Autogyro History and Theory by Jeff Lewis. Tons of similar images and much to read about autogyros on that page!



positive pitch suddenly enough to jump some 20 ft

(6 m) upwards.

The Cierva C.30A SE-AEA modeled here was flown by Rolf von Bahr. It is now on display at Tekniska Museet (Museum of Science and Technology) in Stockholm.

Rolf von Bahr got his license as a commercial pilot in the UK in 1933. He was employed at AB Autogiro, an company founded by the aviators Theodor and Henrik Dieden. In 1931 the two brothers saw Juan de la Cierva fly his C.19 design in Stockholm. They were impressed and decided to use the autogyro commercially in Sweden. The AB Autogiro had a short life and was wound up in 1935. The same year, von Bahr founded his own company, also named AB Autogiro, and continued to fly the SE-AEA. He was also appointed as Cierva's representative in Sweden.





Rolf von Bahr tested the autogiro as an artillery spotter for the Army and made reconnaissance flights for the Swedish Navy during WWII (left; note how the Swedish flag is hardly visible on the blue fuselage). Beside that he flew tourists at some fashionable winter-sports resorts (above), plus rescue, taxi and ambulance flights. The 7000 hours of autogyro flying hours collected in his log bok from the mid-30s to late -40s likely constitute a world record for autogyro flying.

Source: Lars Henriksson Avrosys-nu

Source photos: Nordic Rotors (left).

Swedish blog Klassiker-nu (above).

There is a short period filmclip (narrated in English) depicting Rolf von Bahr flying ambulance transports in the Swedish winter mountain resort areas.

Source: Swedish Museum of Technology, Stockholm. (YouTube: "Cierva C.30 Autogiro Ambulance")



(Left:) Rolf von Bahr with his Cierva, sometime late 30s or early 40s. Source: Rotary Wing Forum

(Below:) Rolf von Bahr on the ice of a lake near winter resort Storlien in Sweden, probably late 30s. He was a well-known figure, as witnessed by the publication of this photo as a picture postcard. Note the prewar color scheme, most probably factory blue with white markings.

Source: Swedish blog Klassiker-nu



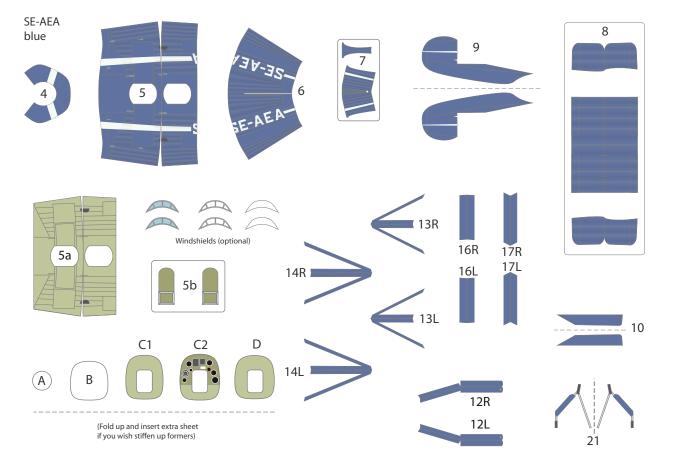


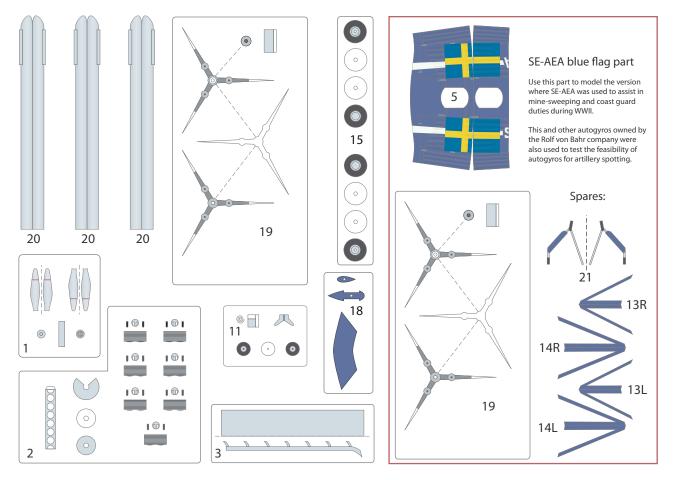
(Above:) The SE-AEA in 2010, lifted down from the ceiling of the Royal Technical Museum, Stockholm, for maintenance.

(Below:) A peak into the cockpit on the same occassion. Note the rotor control handle tied down, and the dusty compass on the floor.

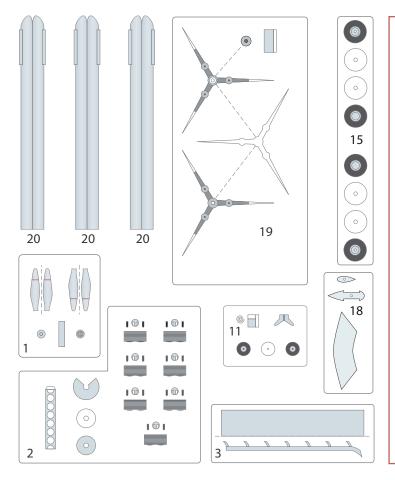
Source: Swedish Lae blog







SE-AZA 8 silver 5 **≡** 13R Windshields (optional) 16R 17̈́R 5a 17L 16L 14R <u></u> 5b ∃ 13L 10 C2 C1 14L E A 12R 12L (Fold up and insert extra sheet if you wish stiffen up formers)



## Rolf von Bahr and his Swedish autogyros



The low quality photo above is the best I've found of SE-AZA. The location may be one of the Swedish winter resorts Rolf von Bahr regularly provided autogyro services for. It is probably taken in the late 1940s, judging from the postwar silver & blue paint scheme.

Photo source: "Airforce Helicopters" (obscure Swedish article)

Rolf von Bahr is synonymous with Swedish autogyros in the 1930s and 40s. Three of them ended up in museums - SE-AZB at Hendon, London; SE-AFI (modeled) at Lelystad, Holland; and SE-AEA (modeled) in Stockholm. SE-AZA (modeled) was sold to Örebro in 1949, converted to an ice-yacht, and burned up in an accident.

Source: Rotorspot-nl & Flyghistoria-org (in Swedish)

SE-AEA 8 silver 9 -SE-AE 5 **■** 13R Windshields (optional) 16R 17̈́R 5a 17L 16L 14R <u></u> 5b ∃ 13L 10 C2 C1 14L E A 12R 12L (Fold up and insert extra sheet if you wish stiffen up formers)

