



# Arado Ar 198

🌐 5 languages ▾Article TalkRead Edit View history Tools ▾

From Wikipedia, the free encyclopedia

The **Arado Ar 198** was a prototype reconnaissance aircraft, developed by Arado Flugzeugwerke, with backing from the Luftwaffe, who initially preferred it over the Blohm & Voss BV 141 and the Focke-Wulf Fw 189.<sup>[1][2][3]</sup> However, when flight tests were carried out the aircraft performed poorly and did not impress the Luftwaffe. One aircraft was completed in 1938.

## Design and development

[ edit ]

In 1936, the RLM issued a specification for a new aircraft that would specialize in short-range reconnaissance, with special emphasis placed on ground vision. Arado, Blohm & Voss (Hamburger Flugzeugbau Division), Focke- Wulf, and Henschel all had experience with this specific type of aircraft and started work immediately.

The Ar 198 was to be built around a three-man crew, consisting of a pilot, gunner/radio operator, and observer. Both the pilot and gunner/radio operator positions were above the wing, while the observer's area was below the wing, in a well-laid-out fuselage that offered good communication between the crew members.

Built using a shoulder wing configuration, giving the pilot unrestricted forward visibility, the Ar 198 was of steel tube construction for the forward fuselage structure with all-metal monocoque construction of the tail boom.

An air-cooled radial BMW 132 engine was initially chosen, but due to availability concerns, the first prototype was fitted with the slightly lower-powered Bramo 323 A-1 of the Brandenburgische Motorenwerke.

## Operational history

[ edit ]

In early March 1938, the Ar 198 made its first flight from the factory airfield at Warnemünde. Following flights proved generally satisfactory, except for instability in all axes during low-speed flight. Automatic slats were fitted with noticeable improvement, but It was still a difficult craft to handle.

Basic poor performance and concerns about insufficient production capacity led the Technical Office to terminate the development of the Arado Ar 198 in the latter months of 1938.

## Specifications

[ edit ]

*Data from Warplanes of the Third Reich*<sup>[4]</sup>

### General characteristics

- Crew:** three
- Length:** 11.80 m (38 ft 9 in)
- Wingspan:** 14.90 m (48 ft 11 in)
- Height:** 4.51 m (14 ft 10 in)
- Wing area:** 35.20 m<sup>2</sup> (378.9 sq ft)
- Empty weight:** 2,400 kg (5,290 lb)
- Gross weight:** 3,031 kg (6,683 lb)
- Powerplant:** 1 × BMW-Bramo 323A nine-cylinder air-cooled radial engine, 670 kW (900 hp)

### Performance

- Maximum speed:** 359 km/h (223 mph, 194 kn) at 3,500 m (11,485 ft)
- Range:** 1,081 km (672 mi, 584 nmi)
- Service ceiling:** 8,000 m (26,250 ft)

### Armament

- Guns:** 1× fixed forward firing 7.92 mm MG 17 machine gun and 2× MG 15 machine guns flexibly mounted at dorsal and ventral positions
- Bombs:** 4 × 50 kg (110 lb) SC50 bombs on underwing racks

## References

[ edit ]

- ↑ "Arado Ar 198 Prototype reconnaissance" . Archived from the original  on 2011-07-18.
- ↑ warbirdsresourcegroup.org, Scott Rose. "Luftwaffe Resource Center - Reconnaissance Aircraft - A Warbirds Resource Group Site". *www.warbirdsresourcegroup.org*. Retrieved 19 April 2018.
- ↑ "Arado Ar 198" . Archived from the original  on 2010-06-25. Retrieved 2010-06-30.
- ↑ Green 1972, p. 45.

- Green, William. *Warplanes of the Third Reich*. New York:Doubleday, 1972. ISBN 0-385-05782-2.
- Wagner, Ray and Nowarra, Heinz. *German Combat Planes: A Comprehensive Survey and History of the Development of German Military Aircraft from 1914 to 1945*. New York: Doubleday, 1971.

**Ar 198**

Arado Ar 198 D-ODLG. (First prototype)

<b>Role</b>	Short range <span>reconnaissance</span>
<b>National origin</b>	<span>Germany</span>
<b>Manufacturer</b>	<span>Arado Flugzeugwerke</span>
<b>First flight</b>	March 1938
<b>Primary user</b>	<span>Luftwaffe</span>
<b>Number built</b>	1



Image showing excellent view of the ground from the observer position.



Wikimedia Commons has media related to ***Arado Ar 198***.

Categories: Arado aircraft | Aircraft with fixed conventional landing gear | 1930s German military reconnaissance aircraft | Single-engined tractor aircraft | High-wing aircraft | Aircraft first flown in 1938 | Single-engined piston aircraft

This page was last edited on 29 December 2024, at 04:02 (UTC).

Text is available under the  Creative Commons Attribution-ShareAlike 4.0 License; additional terms may apply. By using this site, you agree to the  Terms of Use and  Privacy Policy. Wikipedia® is a registered trademark of the  Wikimedia Foundation, Inc., a non-profit organization.

Privacy policy  About Wikipedia  Disclaimers  Contact Wikipedia  Code of Conduct  Developers  Statistics  Cookie statement  Mobile view

