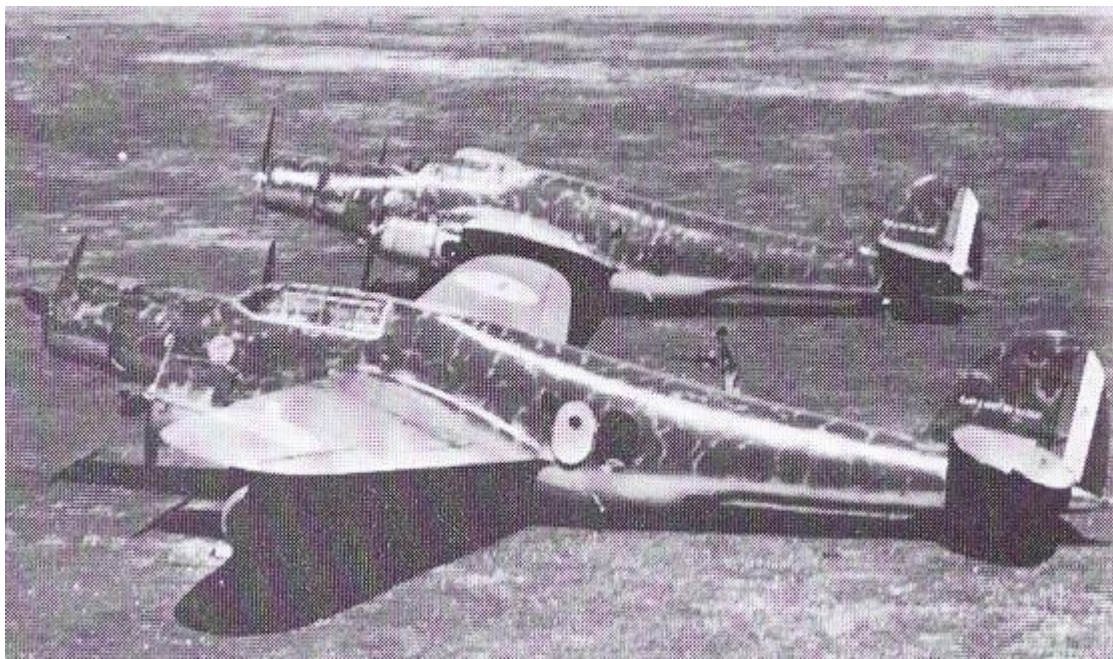


## CANT Z.1007 Alcione



[Cant Z.1007 Alcione de la Regia Aeronautica Italiana](#)

En 1935, la firme italienne CANT (Cantieri Riuniti dell'Adriatico) entreprit la conception d'un bombardier à aile médiane. Elle fut menée par l'ingénieur Filippo Zappata. Deux versions furent proposées à la Regia Aeronautica, le Z.1007 et le Z.1011, ce dernier disposant de deux moteurs Isotta-Fraschini Asso XI RC.15 de 840 ch. La puissance insuffisante des moteurs incita la Regia à choisir le Z.1007 qui disposait de trois moteurs, dans une configuration assez proche du Ju-52 et du Savoia Marchetti SM.79. Le premier prototype prit son envol en mars 1937. Il était fait de bois, sauf en ce qui concerne les équipements annexes et le revêtement des nacelles, en métal. Les premiers exemplaires sont dotés d'hélices bipales en bois, bientôt remplacées par des hélices tripales Alfa Roméo en métal. 34 appareils furent commandés, mais leur faible puissance leur nuit. La Regia commanda alors une version améliorée, le Z.1007 bis. Celle-ci reçut trois moteurs Piaggio B.XI bis RC.40 de 1000 ch. Des modifications furent aussi apportées à l'armement, aux capots moteurs et aux dimensions de l'appareil. La section transversale fut agrandie pour accroître la charge de bombes. Il y eut neuf versions de série : la I-III reçut un empennage vertical simple, la IV-IX un empennage double dans le but d'accroître la visée et le champ de tir de la mitrailleuse dorsale. 527 exemplaires furent produits par CANT et IMAM. Le Z.1007 ter fut la seule évolution, dotée de Piaggio P.XIX de 1150 ch. Elle fut construite à 35 exemplaires. En juin 1940, l'Italie disposait de 87 appareils des deux types Z.1007 et Z.1007 bis, dont 38 opérationnels. Ils avaient commencé à être livrés au printemps, aux 16e et 47e Stormi de Bombardamento Terrestre de Vicence et Ghedi. Ils furent engagés en septembre contre la Grande-Bretagne et en octobre contre la Grèce. Puis, on les retrouva au large de la crête et de l'Afrique du Nord, contre les navires alliés, au-dessus de Malte en bombardement diurne et nocturne à moyenne altitude. Les Z.1007 furent ensuite engagés par les 8e, 9e, 27e et 30e Stormi, ainsi que par deux squadriglie. Ils furent décimés par les Spitfire Mk Vc défendant Malte à partir de 1942, puis lors des attaques des convois Pedestal et Harpoon. Utilisés pour le torpillage, la reconnaissance et le bombardement, les Z.1007 subirent de lourdes pertes, du fait de leur armement insuffisant. Ils subirent aussi des détériorations à cause de leur structure de bois, notamment en Afrique du Nord.



The **CANT Z.1007 Alcione** (*Kingfisher*) was an Italian three-engined [medium bomber](#), with wooden structure. Designed by [Filippo Zappata](#), who also designed the [CANT Z.506](#)<sup>[1]</sup> it had "excellent flying characteristics and good stability"<sup>[2]</sup> and was regarded by some as "the best Italian bomber of World War II" although its wooden structure was easily damaged by the climate, as experienced in North Africa and in Russia.<sup>[1]</sup> It was used by the [Italian Regia Aeronautica](#), [Italian Co-Belligerent Air Force](#), [Aeronautica Nazionale Repubblicana](#) and [Luftwaffe](#) during [World War II](#).

## Design and development

### Background

In 1935, [Filippo Zappata](#), the chief designer of the [Cantieri Aeronautici e Navali Triestini](#) (CANT), designed two medium bombers, the twin-engined [CANT Z.1011](#) and the three-engined CANT Z.1007. Both were to be powered by 619 kW (830 hp) [Isotta-Fraschini Asso XI](#).RC inline engines and were of wooden construction. The Z.1007 design was preferred by both Zappata and the Italian Aviation Ministry, with an order for 18 aircraft being placed on 9 January 1936. A further order for 16 more aircraft followed on 23 February 1937.<sup>[3]</sup> The Cant Z.1007 was developed from the [CANT Z.506 seaplane](#), an aircraft that had established many world records in the late 1930s. It was a land-based version and incorporated many improvements, especially on the powerplant. The first [prototype](#) flew in March 1937, proving superior to the Z.1011, with its handling and manoeuvrability being praised. Its performance, however, was lower than predicted, and Zappata therefore started a major redesign of the Z.1007, production of the initial version being limited to the existing orders placed before the prototype flew.<sup>[3]</sup> The Z.1007 was a mid-winged [monoplane](#) with a retractable [tailwheel undercarriage](#). It had a crew of five, consisting of two pilots, a flight engineer, a radio operator and a [bombardier](#)/navigator. It could carry 800 kg (1,760 lb) of bombs, and was fitted with a defensive armament of a 12.7 mm (.5 in) [Breda-SAFAT machine gun](#) in an open dorsal position and a 7.7 mm machine gun in a ventral tunnel. After much experimentation with the prototype, the production aircraft were fitted with annular [radiators](#) so their profile was similar to [radial engines](#) that would be fitted to the improved later versions. Delivery of production Asso powered Z.1007s started in February 1939, with production ending in October that year.<sup>[4]</sup>

### Z.1007bis

Zappata had, meanwhile, continued the development of a considerably changed version, the **Z.1007bis**, to resolve the problems with the original aircraft. While the new version was of similar layout, it was a new design. Three [Piaggio P.XI](#) RC.40 radial engines (a derivative of the French [Gnome-Rhône 14K](#)) of 736 kW (986 hp) takeoff power replaced the less powerful and unreliable liquid cooled engines of the original version. The *bis* was longer with wings of greater span and area, while the aircraft was considerably heavier, weighing 580 kg (1,280 lb) more unladen, with a maximum takeoff weight 888 kg (1,960 lb) greater. It carried heavier offensive and defensive armament.<sup>[5]</sup> The prototype *bis* first flew in July 1939, with testing proving successful. The Z.1007bis was ordered into large scale production, deliveries of pre-production aircraft starting late that year.<sup>[6]</sup>





## Configuration and problems



Overhead view

The Z.1007 had a standard monoplane configuration, with a mid-set wing, single tail, retractable [undercarriage](#) and a crew of five or six. It had a wooden structure and a clean shape that was much more aerodynamic than the competing SM.79. The Z.1007 had three engines, with one engine in the nose and two in the wings. The trimotor design was a common feature of Italian aircraft of [World War II](#). The aircraft had a slim [fuselage](#) as the two pilots sat in tandem rather than side-by-side as in most bombers of the period. Visibility was good and the aircraft was almost a three-engine [fighter](#). This slimness reduced drag but also somewhat worsened the task of the two pilots. Both pilots' seats were offset to port to allow a passageway for the bombardier to enter his compartment below the pilot's feet (directly behind the central engine), by ducking through an opening under the starboard instrument panel. Both front and rear instrument panels contained flight and navigation instruments, while the engine monitoring gauges were located to starboard where the rear pilot could see them past the front pilot's shoulder. Although the rear pilot's view was limited, he was capable of landing or taking off if needed. However, his primary purpose was to allow the pilot to rest, and to add some "muscle" to the controls when needed, as well as acting as an extra set of eyes to notice problems and to monitor gauges while the other was occupied. There were five crew members: the pilot, the copilot, a bombardier/navigator/ventral gunner, a dorsal gunner/radio operator, and waist gunner/flight engineer. The radio equipment was located in the center section between the dorsal turret and the waist position. Like most tri-motor Italian aircraft of the period the Z.1007 suffered from poor defensive armament, although it was no worse than many other contemporary designs, many of which had no rotating dorsal turret, no waist guns, or no ventral gun, or various combinations of such. Other issues were poor engine reliability and a weak [power-to-weight ratio](#) due to low powered engines (the three 1,000 hp engines of the Z.1007bis were equivalent to twin engines of 1,500 hp each, but this was slightly offset by the added weight of the third engine). The Z.1007 also suffered longitudinal stability problems that were partly rectified later by the adoption of a twin tail arrangement.

The Z.1007's wooden structure suffered cracks, separations and surface delamination due to the difficult climatic conditions in [North Africa](#) and [Russia](#), but allowed the plane to float in case of ditching. The surface delamination and deformation greatly added to the aircraft's drag. A total of 660 *Alciones* were built.

### Armament

The Z.1007 had a defensive armament of four machine guns: two 12.7 mm (.5 in) and two 7.7 mm (.303 in). The main defensive weapon was a Caproni-Lanciani Delta manually powered [Isotta Fraschini](#) dorsal [turret](#) armed with a 12.7 mm (.5 in) Scotti or [Breda-SAFAT machine gun](#).<sup>[5]</sup> The turret had a good field of fire, although it had blind spot behind the tail (as did all turreted aircraft without rear gunners or twin vertical stabilizers).<sup>[7]</sup> The 12.7 mm (.5 in) Breda was a standard weapon for Italian bombers and the field of fire was improved by the twin-tail configuration on later models. An electrically powered Breda V turret carrying a similar armament was substituted in late production aircraft.<sup>[8]</sup> Another 12.7 mm (.5 in) was in the ventral position behind the bomb bay, with a field of fire restricted to the lower rear quadrant of the aircraft. There were also two waist position 7.7 mm (.303 in) Breda machine guns, with 500 rpg.<sup>[9]</sup> Only one of the waist guns could be used at a time since the gunner for this position manned both guns (a practice common with other aircraft, such as the [He 111](#), [B-25 Mitchell](#) and [G4M Betty](#)). Simultaneous attacks from both sides were generally rare, and waist guns are generally the least effective armament on an aircraft, mostly intended to improve morale and provide a deterrent effect. Allied reports stated that [armour](#) was better than usual for an Italian bomber, with the dorsal gunner receiving a large .76 m x 1.1 m (2 ft 6 in x 3 ft 6 in) armor plate, plus a small head protection plate of .36 m x .20 m (14 x 8 in), as well as an 8 mm (.31 in) thick curved plate which rotated with his turret. There was rear armor plate 5 mm (.20 in) thick for side gunners, with other 6 mm (.24 in) all around the machine guns, and 6 mm (.24 in) armor for ventral machine gun position, which meant that all defensive positions were reasonably protected against light enemy fire and fragments. The pilots were protected with 5 mm (.20 in) roof and lateral armor, 6 mm (.24 in) around the seats, 5 mm (.20 in) overhead, and a 6 mm (.24 in) armored bulkhead behind them. The Z.1007 had a long, shallow horizontal bomb bay which could carry 1,200 kg (2,650 lb) of ordnance. Many other Italian aircraft had bomb bays which carried the ordnance vertically, tip pointing up, which limited the size and variety of bombs which could be carried internally, a problem shared with the German [He 111](#) bomber. There were also a pair of under-wing hardpoints which could carry up to 1,000 kg (2,200 lb) of bombs, giving the Z.1007 a potential 2,200 kg (4,900 lb) payload and a maximum range of 640 km (400 mi), but the standard payload was 1,200 kg (2,645 lb) and 1,000 km (621 mi) range. The Z.1007's external hardpoints were a rarity in the bombers of the *Regia Aeronautica*. The Z.1007 could also carry two 454 mm (17.7 in), 800 kg (1,760 lb) [torpedoes](#) slung externally under the belly in an anti-shipping role, an option never used operationally. The bombardier's position was just below and ahead of the pilot, behind the central engine (he could look up at the rudder pedals and see the pilot's face). This improved the layout compared to the [SM.79](#), which located the bombardier in the ventral casemate under the rear fuselage, which meant that it was difficult to man the ventral gun while the bombardier was in position, since space was limited. The forward location of the bombardier's compartment gave him somewhat better forward visibility, but was still cramped, and very loud and full of vibration, being directly behind, and very close to the central engine.

### Operational history

The first Asso-powered Z.1007s were used to equip the 50° *Gruppo* of the 16° *Stormo* from May 1939. The Asso powered bombers were not considered suitable for operational use, however, owing to the unreliability of their engines and high maintenance requirements, while their defensive armament was considered inadequate. They were therefore used as trainers. In 1942, it was proposed to modify the remaining 16 Z.1007s for weather reconnaissance, re-engining them with [Isotta Fraschini Delta](#) engines, but only one aircraft was converted.<sup>[5]</sup> The Z.1007 participated in the bombing campaign over [Malta](#) and in the campaigns in [North Africa](#) and on the [Eastern Front](#). Although fast, these bombers were vulnerable when hit and prone to catch fire. The 47° *Stormo* was equipped with some of the first production aircraft at [Ghedi](#). Only four were in service at 10 June 1940. The production was slow with fifteen machines made every month at best. With time the aircraft was used by different *Stormi* like the 9° and substituted the SM.79 and BR.20.

CANT Z.1007 Asso replaced SM.81s in 16° *Stormo*, 47° *Stormo* had Z.1007Bis but operational readiness was only reached in August, when around thirty machines were sent to Sicily to attack Malta. *Stormi* 16°, 12°, 35°, and 47° operated over Greece with some losses. 175a *Squadriglia da ricognizione* (reconnaissance squadron), and later 176a, were used in Africa. The British [destroyer HMS Juno](#) was sunk by an explosion caused by a Z.1007 bombing in 1941. 35° *Stormo* was sent to Africa in the bombing role. These three-engine aeroplanes were used occasionally in Russia too.<sup>[10]</sup> In 1942, Z.1007s were used by four groups and two wings in the Mediterranean theatre, in anti-ship role and against Malta, often escorted by Italian and German fighters. In November 1942, there were 10 *Gruppi* equipped with 75 Z.1007s, with just 39 serviceable aircraft.<sup>[11]</sup> As part of Italian and German efforts to stop the British [Operation Pedestal](#) convoy to re-supply [Malta](#) in August 1942, a few Z.1007 *Alciones* of 51° *Gruppo Autonomo* based in [Alghero, Sardinia](#), flew reconnaissance missions on the convoy between bombing and raids. Only on 14 August, at the end of that "Mid-August Battle", did three Z.1007bis bomb the convoy from high altitude.<sup>[12]</sup> Another Z.1007bis took part in the battle, carrying out a first in the war special mission, later [copied by Allied air forces](#).<sup>[citation needed]</sup> The plan of [Generale Ferdinando Raffaelli](#) to use a CANT Z.1007 to radio-guide a "SIAI Marchetti [SM.79](#) ARP (*Aereo Radio Pilotato*, "Aircraft Radio Guided") bomber. The SM.79, without crew and armament, but packed with [explosives](#) and equipped with a [radio control](#) device, was to be used as a "Flying Bomb" against big naval targets.<sup>[11]</sup> As the Pedestal Convoy was off the [Algerian](#) coast on 12 August 1942, the SM.79 "Drone", the Z.1007bis guide aircraft and escort of five [FIAT G.50](#) fighters flew out to intercept the ships. Once the SM.79's pilot had set his aircraft on a course toward the [Allied](#) ships, he bailed out leaving the Z.1007bis crew to guide the flying bomb the rest of the way by radio. The radio, however, malfunctioned. With nothing to guide it, the SM.79-Drone cruised along until it ran out of fuel and crashed on [Mount Klenchela](#), on the Algerian mainland. The few **Z.1007ter** still flying after the [Allied invasion of Sicily](#) went on to fight with the [Italian Social Republic](#), [Italian Co-Belligerent Air Force](#) and the 'Luftwaffe.

## World War II

When Italy entered World War II on 10 June 1940, *Regia Aeronautica* had two *Stormi* equipped with the "Alcione". One was the 16°, with 31 aircraft, equipped with the Isotta Fraschini engine and so declared *non bellici* ('not suitable for war'). The 47° *Stormo* had just received four CANT Z.1007bis.<sup>[13]</sup>

## Malta



A CANT Z.1007 bis bomber of the Italian Regia Aeronautica getting ready for a bombing mission over Malta; the photograph was taken in Sicily in 1941.

The "Alcione" received its baptism of fire on 29 August 1940, when a formation of 10 CANT Z.1007bis *monoderiva* of 106° *Gruppo* bombed [Luqa](#) airfield. The 106°, based at [Trapani-Chinisia](#) in [Sicily](#), was soon joined by the whole 47° *Stormo Bombardamento Terrestre* with 33 aircraft. When the war with Greece broke out, the 47° was moved onto that front.



The CANT Z.1007s came back on Malta in 1941, with 9° *Stormo Bombardamento terrestre*, still based at [Trapani](#)-Chinisia, with 29° and 33° *Gruppo*, equipped with 25 "Alcione". The 9° was later joined by 50° *Gruppo*, based on [Siacca](#).<sup>[13]</sup> The Italian units were joined by the German *II Fliegerkorps*, but when the German aircraft were moved to North Africa, the CANT bombing missions on Malta were reduced. The Italian bombers had to face the strengthened defences of the island, which employed radar combined with [Bristol Beaufighter](#) night fighters. The "Alcione" started a third wave of night attacks on Malta between 10 and 20 October 1942. The 9° *Stormo* and the 8° *Gruppo* of 43° *Stormo* had on line 30 CANT Z.1007s but only 12 were operational.<sup>[13]</sup>

### Battle of Britain

The Z.1007 saw action during the later stages of the [Battle of Britain](#) from November 1940 to January 1941. The *Regia Aeronautica* sent six Z.1007Bis of the 172a *Squadriglia* to Belgium in the strategic [reconnaissance](#) role for the [Corpo Aereo Italiano](#). They were used in force only once, on 11 November 1940, when five were used as a decoy (without bombs or guns) to draw [RAF](#) fighters away from the main Italian attack on a convoy and the port facilities around [Harwich](#) by 10 [Fiat BR 20](#) bombers. No Z.1007s were lost over Britain, although one of the six originally sent was lost in September on the ferry flight to its base in Belgium.

### Greco-Italian War

The first large-scale use of the CANT Z.1007s took place with the outbreak of the [Italian invasion of Greece](#). During the invasion of Greece, the *Regia Aeronautica* deployed the largest number of CANT Z.1007s. On 28 October 1940, first day of invasion, 47° *Stormo Bombardamento Terrestre* (based on Grottaglie airfield) and 50° *Gruppo* of 50° *Stormo* (based on Brindisi airfield) had on line 44 *Alcione*. On 5 November, those units were joined by 41° *Gruppo* of 12° *Stormo*, with 16 aircraft.<sup>[14]</sup> The *Stormi* suffered few losses, among them two made by a [PZL P.24](#), manned by Second Lieutenant [Marinos Mitralexis](#), who managed to bring down one of the two CANT Z.1007s by ramming its tail. During January 1941, 41° *Gruppo* was replaced by 95° *Gruppo* of 35° *Stormo*. It was in this war theatre that the wooden structure of the CANT Z.1007s began to show its weaknesses. The heavy rains damaged it, forcing continuous repairs by the ground crews.<sup>[15]</sup>

### Yugoslavia

The CANT Z.1007s opened hostilities against [Yugoslavia](#), on 6 April 1941, bombing [Mostar](#) airfield. During that short invasion, *Regia Aeronautica* deployed 49 CANT Z.1007 bis, 26 of 47° *Stormo*, 15 of 95° *Gruppo* (of 35° *Stormo*) and eight of 50° *Gruppo* (of 16° *Stormo*).<sup>[12]</sup>

### After the Armistice

At the date of the [Armistice](#), seventy-two of the 147 bombers still in the hands of *Regia Aeronautica* were CANT Z.1007s. The largest groups were in [Perugia](#) (22 aircraft) and in the [Aegean sea](#) (19 aircraft).<sup>[16]</sup> Three days after the armistice, on 11 September, the CANT Z.1007s that were in Perugia, joined by eight more, took off for the base of [Alghero](#) in Sardinia, losing two of their number to German [flak](#). On 16 September these bombers attacked German vessels that were carrying troops and equipment from Sardinia to Corsica, and one more aircraft was lost to flak.<sup>[17]</sup> On 15 October, the CANT Z.1007s, then based in Sardinia, were grouped with those in Southern Italy to form the *Raggruppamento Bombardamento Trasporti* (Unit for bombing and transport), under the badge of the *Aeronautica Cobelligerante Italiana* (ACI or Air Force of the South, *Aeronautica del Sud*), [Italian Co-Belligerent Air Force](#) in English.<sup>[18]</sup> The worst day for the co-belligerent Z.1007s was 14 May 1944, when *Gruppo* 88 sent twelve Z.1007s to [Tito](#)'s forces to deliver supplies. The aircraft dropped 96 food containers on [Kolasin](#), [Montenegro](#), but on the way back nine bombers lost contact with the escort of [Macchi C.205s](#) and [Reggiane Re. 2001s](#) and were attacked over the Adriatic sea by [7/JG 27](#) Messerschmitt Bf 109s. Five *Alcioni* were shot down into the sea by the German pilots (who mistakenly claimed [Savoia-Marchetti SM.84](#)) and two more landed heavily damaged at the [Lecce-Galatina](#) air base in [Apulia](#). 26 Italian aviators were killed, and more injured. From that day on, the remaining CANT Z.1007s were used for military purposes only under cover of darkness.<sup>[19]</sup>

## Variants

A total of 560 CANT Z.1007s were built, 450 of them of version 1007bis that appeared in late 1939.<sup>[10]</sup>

### Z.1007bis

#### Z.1007ter

an improved version, that would have used [Alfa Romeo 135](#) engines of 1,040 kW (1,400 hp). This version was dropped because of the advent of the [Z.1018](#) and the unreliability of the engines. There was another -ter proposal with [P.XIX](#) engines (858 kW/1,150 hp), and production was started in 1942, with a total of around 150 made.<sup>[20]</sup> Test pilots were more impressed by this machine than the Z.1018, faster but with less power (because of the layout with only two P.XII engines), while the range was improved from 2,000 km (1,240 mi) to 2,250 km (1,400 mi) with 2,460 kg (5,420 lb) fuel and 900 kg (1,980 lb) bombs. So, while the Z.1018 had 2,013 kW (2,700 hp), already Z.1007Bis had 2,237 kW/3,000 hp (1,946 kW/2,610 hp at take off) and Z.1007ter 2,572 kW (3,450 hp). Performances were improved with a max speed of 490 km/h (300 mph) at 6,150 m (20,180 ft) instead of 456 at 4,600 m (15,100 ft). Climbing to 3,000 m (9,800 ft) in 6 min 28 sec, and 5,000 m (16,400 ft) in 10 min 44 sec (Z.1007 bis in 12 min 42 sec, Z.1007 Asso in 14 min 34 sec). Armament and armour were also improved. The dorsal turret was a Breda model, waist guns were replaced by 12.7 mm (.5 in) weapons. The ceiling was raised to 9,000 m (29,500 ft) from 8,400 m (27,600 ft). Z.1007s were used mainly as night bombers and reconnaissance; they were also used for long range reconnaissance, with excellent results. Some, at least twenty, were equipped with an auxiliary tank that gave 1,000 km (620 mi) extra endurance. Some were adapted for flare drops when day missions were too dangerous. One modification for photo missions had six robot machines in a ventral gondola plus another in the fuselage. The long range and the ceiling helped these aircraft to obtain good results until the [Spitfires](#) appeared in the Mediterranean theatre. They were also the first victims of [P-40](#) Tomahawks over Alexandria.

#### Z.1015

proposed as a record-breaking version of the Z.1007 in 1938 but not considered until 1942, when the [Alfa 135s](#) were substituted by [Piaggio P.XII](#) engines. It could reach a speed of 563 km/h (350 mph; 304 kn), thanks to a total of over 2,982 kW (4,000 hp) installed. It was tested successfully as a torpedo aircraft, but it was not used operationally and did not enter production.

## Specifications (Z.1007bis)

### General characteristics

- **Crew:** 5
- **Length:** 18.35 m (60 ft 2 in)
- **Wingspan:** 24.8 m (81 ft 4 in)
- **Height:** 5.22 m (17 ft 2 in)
- **Wing area:** 70 m<sup>2</sup> (750 sq ft)
- **Empty weight:** 9,396 kg (20,715 lb)
- **Max takeoff weight:** 13,621 kg (30,029 lb)
- **Powerplant:** 3 × [Piaggio P.XI R.C.40](#) 14-cylinder air-cooled radial piston engine, 745 kW (999 hp) each
- **Propellers:** 3-bladed variable-pitch propellers

### Performance

- **Maximum speed:** 458 km/h (285 mph, 247 kn)
- **Cruise speed:** 338 km/h (210 mph, 183 kn)
- **Range:** 1,795 km (1,115 mi, 969 nmi)
- **Service ceiling:** 7,500 m (24,600 ft)

## Armament

- **Guns:**
  - 2 × 12.7 mm (0.5 in) [Isotta-Fraschini Scotti](#) or [Breda-SAFAT machine guns](#)
  - 2 × 7.7 mm (0.303 in) [Breda-SAFAT machine guns](#)
- **Bombs:**
  - 1,200 kg (2,645 lb) of bombs internally. 1,000 kg (2,200 lb) externally on underwing hardpoints. Or a combined load of 2,200 kg (4,900 lb) of bombs internally and on external hardpoints.
  - 2 × 450 mm (17.7 in) 800 kg (1,800 lb), [torpedoes](#)



Cantieri Riuniti dell'Adriatico (C.R.D.A.) Z.1007bis  
Two aircraft from the 193<sup>a</sup> Squadriglia, 30<sup>a</sup> Stormo over the Aegean coastline 1942.



Source : [https://en.wikipedia.org/wiki/CANT\\_Z.1007\\_Alcione](https://en.wikipedia.org/wiki/CANT_Z.1007_Alcione)