

Heinkel He51C

Country: Germany

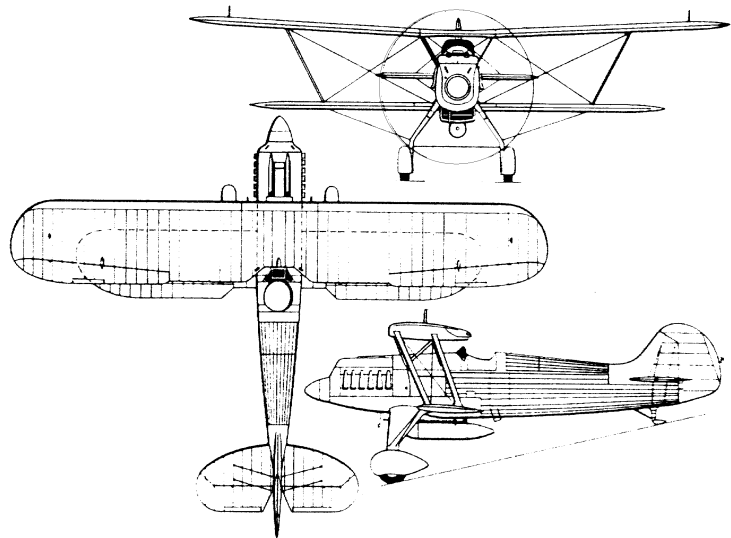
Service Entry Date: July 1936

A/C Type: Biplane Fighter
 Engine(s): 1x BMW VI 6,32 V-12 engine
 Eng. Pwr: 750-hp, liquid-cooled, Non-F.I.
 A/C Crew: Pilot

Maximum Speed: 206 mph @ Sea Level
 Maximum Ceiling: 25,600 ft
 Defense factor: 5 Size Modifier: +0
 Damage Factor: 6/9 Endurance: 115
 Cockpit View: Good Blind Area: Rear,Low
 Protection: Cockpit +0 Fuel +0 Engine +0

Climb Dece/ Dive Accel: 3.0 / 1.0
 Weight and Load Limit: 220 / 1-2

Wpn Stations	Weight	Allowed Loads
1, 2	110	1x SC50



Class: F

Victory Points: 3-5

AIRCRAFT PERFORMANCE CHART

Altitude		Minimum Speed	Maximum Speed	Maximum Dive Spd	Min TT(2)	Min HT(3)	Min BT(3)	Min ET(4)	Altitude		Average Rate of Climb
Levels	Bands								Levels	Bands	
43+	UH	--	--	--	--	--	--	--	43+	UH	--
37-42	EH	--	--	--	--	--	--	--	37-42	EH	--
31-36	VH	--	--	--	--	--	--	--	31-36	VH	--
25-30	HI	2.0	3.0	6.5	3.0	4.0	5.0	6.0	25-30	HI	200
19-24	MH	2.0	3.0	6.5	3.0	4.0	5.0	6.0	19-24	MH	700
13-18	ML	1.5	3.5	6.5	2.5	3.5	4.5	5.5	13-18	ML	1,300
7-12	LO	1.5	4.0	6.5	2.0	3.0	4.0	5.0	7-12	LO	1,900
1-6	VL	1.5	4.0	6.0	2.0	2.5	3.5	4.5	1-6	VL	2,400

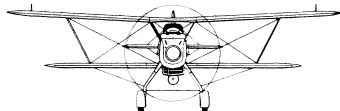
FIRE POWER CHART

Guns	Type Weapons	Ammo	Criticals
N1	1x 7.62mm MG17 mgs	7	4
N2	1x 7.62mm MG17 mgs	7	4

GUN ATTACK FACTORS

Range	N1	N2	Total
0	5.5	5.5	11
1	4	4	8
2	3	3	6
3	2	2	4
4	1	1	2
5	1	1	2
6	--	--	--
7	--	--	--

WEAPON STATION LOCATION



1

2

POWER VERSUS SPEED CHART

Levels	Bands	1.0 - 4.5	5.0 - 7.5	8.0 - 9.5	10.0+	Band
43+	UH	--	--	--	--	UH
37-42	EH	--	--	--	--	EH
31-36	VH	--	--	--	--	VH
25-30	HI	1	--	--	--	HI
19-24	MH	1	--	--	--	MH
13-18	ML	3	--	--	--	ML
7-12	LO	5	--	--	--	LO
1-6	VL	5	--	--	--	VL
Banking FPs		1	2	--	--	
Side Slip FPs		2	3	--	--	

NOTES AND VARIANTS

All Heinkel He51: Included for completeness. Open cockpit. Fixed gear.
 He51A: Available July 34. No stations. slightly weaker engine. End = 150; RoC -100. No stations. 150 built.
 He51B-1: Available Fall 1935. Main production version with larger fuel tank. No stations. 450 built.
 He51B-2 Floatplane: 50 built as floatplane fighters for the German Navy (?). -1 power, -200 roc.
 Heinkel He51C: Available July 36. Used in Spain. Replaced by Bf109; after 1937, used for ground support. Finally phased out of front line service after Poland. 75 built (51 for Luftwaffe, 28 for Kondor Legion).

Heinkel He100D-1

A/C Type: Day fighter
 Engine(s): One Daimler-Benz DB 601 Aa V12
 Eng. Pwr: 1175 hp, liquid-cooled
 A/C Crew: Pilot

Maximum Speed: 416 mph at 16,405 ft
 Maximum Ceiling: 36,100 ft

Defense factor: 5 Size Modifier: +0
 Damage Factor: 8/12 Endurance: 96
 Cockpit View: Good Blind Area: Rear

Protection: Cockpit +0 Fuel +0 Engine +0

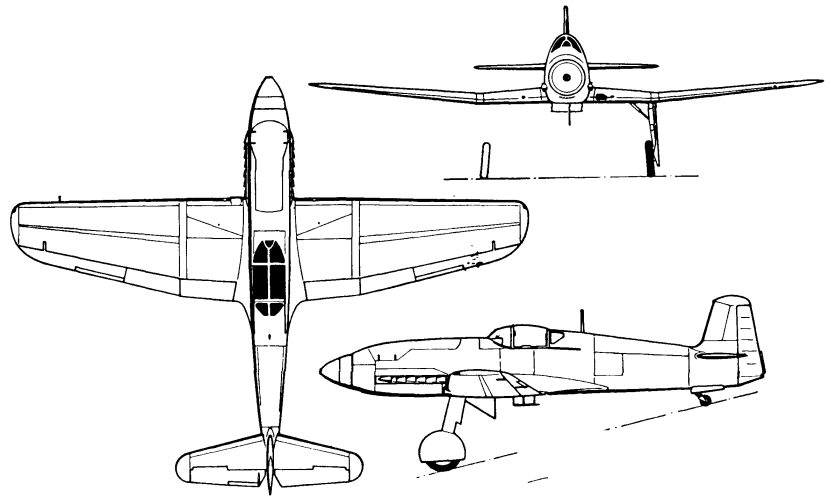
Climb Dece/ Dive Accel: 3.0 / 1.0

Weight and Load Limit: none

Wpn Stations Weight Allowed Loads

Country: Germany

Service Entry Date: January, 1940



Class: F

Victory Points: 4-8

AIRCRAFT PERFORMANCE CHART

Altitude		Minimum Speed	Maximum Speed	Maximum Dive Spd	Min TT(4)	Min HT(5)	Min BT(6)	Min ET(7)	Altitude		Average Rate of Climb
Levels	Bands								Levels	Bands	
43+	UH	--	--	--	--	--	--	--	43+	UH	--
37-42	EH	--	--	--	--	--	--	--	37-42	EH	--
31-36	VH	3.5	7.5	11.0	5.0	7.0	8.5	9.5	31-36	VH	800
25-30	HI	3.0	7.5	11.0	4.5	6.5	7.5	8.5	25-30	HI	1,200
19-24	MH	3.0	8.0	11.0	4.0	6.0	7.0	8.0	19-24	MH	1,900
13-18	ML	2.5	8.5	11.0	4.0	5.5	6.5	7.5	13-18	ML	2,500
7-12	LO	2.5	7.5	10.5	3.5	5.0	6.0	7.0	7-12	LO	2,900
1-6	VL	2.0	7.0	9.5	3.5	4.5	5.5	6.5	1-6	VL	3,200

FIRE POWER CHART

Guns	Type Weapons	Ammo	Criticals
N1	One 20mm MG-FFM	3	2
W1	One 7.92mm MG 17 mg	20	4
W2	One 7.92mm MG 17 mg	20	4

GUN ATTACK FACTORS

Range	N1	W1	W2	Total
0	18	6	6	30
1	13	4	4	21
2	9	3	3	15
3	6	2	2	10
4	4	1	1	6
5	3	1	1	5
6	2	--	--	2
7	--	--	--	--

WEAPON STATION LOCATION

1

2

POWER VERSUS SPEED CHART

Levels	Bands	1.0 - 4.5	5.0 - 7.5	8.0 - 9.5	10.0+	Band
43+	UH	--	--	--	--	UH
37-42	EH	--	--	--	--	EH
31-36	VH	1/2	1/-	--	--	VH
25-30	HI	3/4	1/-	--	--	HI
19-24	MH	5/6	2/3	1/-	--	MH
13-18	ML	7/8	4/5	1/2	--	ML
7-12	LO	7/8	4/5	--	--	LO
1-6	VL	7/8	4/5	--	--	VL
Banking FPs		2	3	5	7	
Side Slip FPs		3	4	6	8	

NOTES AND VARIANTS

Heinkel He100D-1: After the failure of the He112, Heinkel developed another fighter that was cheaper and easier to mass-produce than the Bf109, as well as possessing better maneuvering capability. Heinkel, in a state of superstition, gets its number changed from the He113 to the He100, although the 100 number was already assigned to Fiesler. Although used in a number of propaganda photographs, the He100 was never mass-produced. The 12 production models were assigned to a second-line squadron manned by Heinkel test pilots protecting the Heinkel factory in Rostock.

AXHei: 3 D-0s were shipped to Japan and assembled in May, 1940. A factory was begun in Chiba, but Heinkel was unable to ship the required jigs, so a license Version never appeared. Mass production probably would possibly entail Japanese weaponry. Mentioned for what-if purposes.

Heinkel He112B-1

A/C Type: Day fighter
 Engine(s): One Jumo 210G inline
 Eng. Pwr: 700 hp, liquid-cooled
 A/C Crew: Pilot

Maximum Speed: 317 mph at 15,420 ft
 Maximum Ceiling: 27,890 ft

Defense factor: 5 Size Modifier: +0
 Damage Factor: 7/11 Endurance: 120
 Cockpit View: Fair Blind Area: Rear

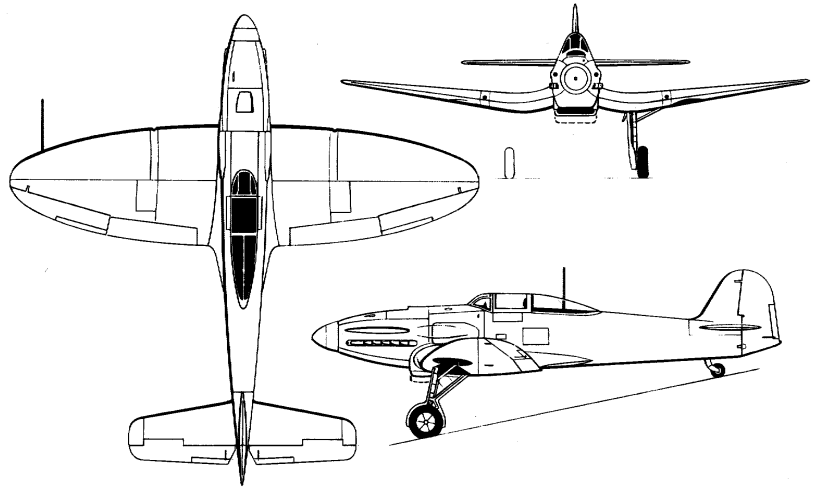
Protection: Cockpit +0 Fuel +0 Engine +0

Climb Dece/ Dive Accel: 3.0 / 1.0
 Weight and Load Limit: 132 / 2-3

Wpn Stations Weight Allowed Loads
 1, 2 (B-0 only) 66 3x 10 kg bombs

Country: Rumania

Service Entry Date: Oct. 1939



Class: F

Victory Points: 4-7

AIRCRAFT PERFORMANCE CHART

Altitude Levels	Bands	Minimum Speed	Maximum Speed	Maximum Dive Spd	Min TT(2)	Min HT(3)	Min BT(4)	Min ET(5)	Altitude Levels	Bands	Average Rate of Climb
43+	UH	--	--	--	--	--	--	--	43+	UH	--
37-42	EH	--	--	--	--	--	--	--	37-42	EH	--
31-36	VH	--	--	--	--	--	--	--	31-36	VH	--
25-30	HI	2.5	5.5	9.5	4.0	5.5	6.5	7.5	25-30	HI	600
19-24	MH	2.0	6.0	10.0	3.5	5.0	6.0	7.0	19-24	MH	1,200
13-18	ML	2.0	6.5	10.0	3.0	4.5	5.5	6.5	13-18	ML	1,700
7-12	LO	1.5	6.0	9.0	3.0	4.0	5.0	6.0	7-12	LO	2,200
1-6	VL	1.5	6.0	8.5	2.5	3.5	4.5	5.5	1-6	VL	2,700

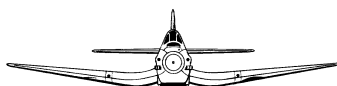
FIRE POWER CHART

Guns	Type Weapons	Ammo	Criticals
N1	Two 7.92mm MG17 mg	30	4
W1	One 20mm MG-FF	3	2
W2	One 20mm MG-FF	3	2

GUN ATTACK FACTORS

Range	N1	W1	W2	Total
0	11	11	10	33
1	8	9	9	26
2	6	6	6	18
3	4	4	4	12
4	3	3	3	9
5	2	2	2	6
6	--	--	--	--
7	--	--	--	--

WEAPON STATION LOCATION



1 2

POWER VERSUS SPEED CHART

Levels	Bands	1.0 - 4.5	5.0 - 7.5	8.0 - 9.5	10.0+	Band
43+	UH	--	--	--	--	UH
37-42	EH	--	--	--	--	EH
31-36	VH	--	--	--	--	VH
25-30	HI	2	1	--	--	HI
19-24	MH	3	1	--	--	MH
13-18	ML	4	1	--	--	ML
7-12	LO	5	2	--	--	LO
1-6	VL	5	2	--	--	VL
Banking FPs		2	2	4	6	
Side Slip FPs		2	3	5	7	

NOTES AND VARIANTS

Heinkel 112B: A serious rival to the Bf109 that lost out in the political arena. Pilots found it more maneuverable than the 109.

He112B-0: Available April 1938. 680 hp Jumo 210E engine (non-F.I.). 12 sold to Japan (as A7Hei Air Defense fighter) who were unimpressed by its high wingload, and did not use it as planned (against CAF Tupelov SB-2 bombers). 17 seized by Luftwaffe at the time of Sudetenland crisis; then sold to Nationalist Spain, where they were flown by German civilian nationals with Spanish Nat AF's Group 5-G-5; 15 survived the Civil War and seved through WW2. 13 sold to Rumania (see also B-1).

He112B-1: Available October, 1939. 17 sold to Rumania. Used against Russians over Bessarabia. Later used over Russia during Barbarossa.