

Bf 109E-1 "Emil"

A/C Type: Short Range Day Fighter
 Engine(s): One Daimler-Benz DB 601A
 Eng. Pwr: 860–1100 HP, Liquid Cooled
 A/C Crew: Pilot

Max Speed: 347 MPH at 16,400 Feet
 Max Ceiling: 33,700 / 27,700 / 19,900 Feet

Defense Factor: 5 Size Modifier: +0
 Damage Factor: 7 / 10 Endurance: 80

Cockpit View: Poor Blind Area: Rear

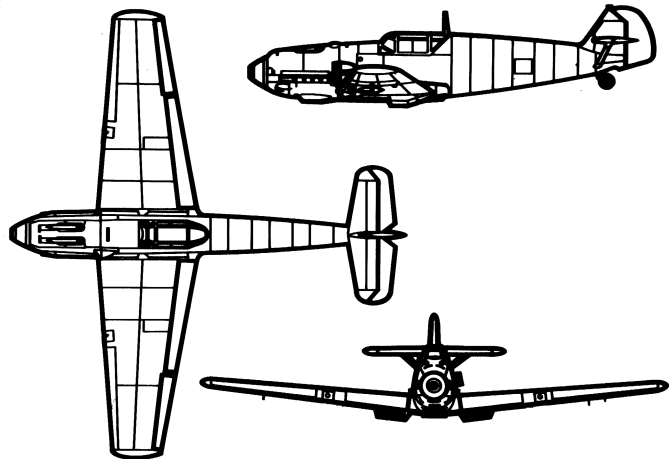
Protection: Cockpit +0 Fuel +0 Engine +0

Climb Decel / Dive Accel: 3.0 / 1.0
 Weight and Load Limit: 550 / 2 - 5

Wpn. Stations	Weight	Allowed Loads
1 (E-1/B)	550	Bombs

Country: Germany

Service Entry Date: February 1939



Class: F

Victory Points: 4 - 7

AIRCRAFT PERFORMANCE CHART

Altitude Levels	Band	Minimum Speed	Maximum Speed	Maximum Dive Spd.	Min. TT (3)	Min. HT (4)	Min. BT (5)	Min. ET (6)	Altitude Band	Levels	Average Rate Of Climb
43+	UH	—	—	—	—	—	—	—	UH	43+	—
37 - 42	EH	—	—	—	—	—	—	—	EH	37 - 42	—
31 - 36	VH	3.0	6.0	10.0	4.5	6.5	7.5	—	VH	31 - 36	300
25 - 30	HI	3.0	6.5	10.5	4.0	5.5	6.5	—	HI	25 - 30	500
19 - 24	MH	2.5	6.5	10.5	3.5	5.0	6.0	7.0	MH	19 - 24	1,100
13 - 18	ML	2.5	7.0	11.0	3.0	4.5	5.5	6.5	ML	13 - 18	2,100
7 - 12	LO	2.0	6.5	10.5	3.0	4.0	5.0	6.0	LO	7 - 12	2,600
1 - 6	VL	2.0	6.0	9.5	2.5	4.0	4.5	5.5	VL	1 - 6	3,100

FIRE POWER CHART

Guns	Type Weapons	Ammo	Criticals
N1	One 7.9mm MG-17	30	4
N2	One 7.9mm MG-17	30	4
W1-L	One 7.9mm MG-17	13	4
W2-R	One 7.9mm MG-17	13	4

GUN ATTACK FACTORS

Range	N1	N2	W1	W2	(Total)
0	6	6	6	6	24
1	4	4	5	5	18
2	3	3	3	3	12
3	2	2	2	2	8
4	1	1	1.5	1.5	5
5	1	1	1	1	4
6	—	—	—	—	—
7	—	—	—	—	—

WEAPON STATIONS



1

POWER VERSUS SPEED CHART

Levels	Band	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 / —	1 / —	—	—	VH
25 - 30	HI	3 / —	1 / —	—	—	HI
19 - 24	MH	5 / 6	2 / 3	—	—	MH
13 - 18	ML	6 / 7	3 / 4	—	—	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	5	6	8	

NOTES & VARIANTS

Bf 109E-1: Slatted wings. Difficult to land (+10 LH to landing attrition rolls). No weapon stations. Armor added starting June 1940 (D10 ≤ 3; -3 per month past June). If so, Cockpit & Fuel protection = +1. Bullet proof front canopy added Aug. 1940 (D10 ≤ 4 if armored; -2 per month past Aug). If so, Cockpit protection = +2.

Bf 109E-1/B: July 1940 "Jabo" variant. Station 1 added for one bomb (up to 550 lbs.) or ER-4 adapter with four 110 lb. bombs. When bombs carried, N ammo = 8, W guns not loaded. If load > 250 lbs., endurance reduced to 55 minutes (take off weight limits). Cockpit prot. = +2, Fuel prot. = +1. All else as E-1. V.P.s = 4 - 8.

Notes: E-1 produced in parallel with cannon armed E-3s until August 1940. Phased out of front line service by early 1941 after complaints about light armament. Over 550 remanufactured as E-4 or later models during major overhauls.

Bf 109E-5: May 1940 tactical recon variant (29 built) with Rb 21/18 vertical camera system in rear fuselage. All else as E-1. Used mainly by army support units.