

# Bf 109B "Berta"

A/C Type: Short Range Day Fighter  
 Engine(s): One Junkers Jumo 210D, No F.I.  
 Eng. Pwr: 565 – 640 HP, Liquid Cooled  
 A/C Crew: Pilot

Max Speed: 288 MPH at 8,900 Feet  
 Max Ceiling: 28,700 ( 26,900) / NA / NA Feet

Defense Factor: 5      Size Modifier: + 0  
 Damage Factor: 5 / 8      Endurance: 70  
 Cockpit View: Poor      Blind Area: Rear

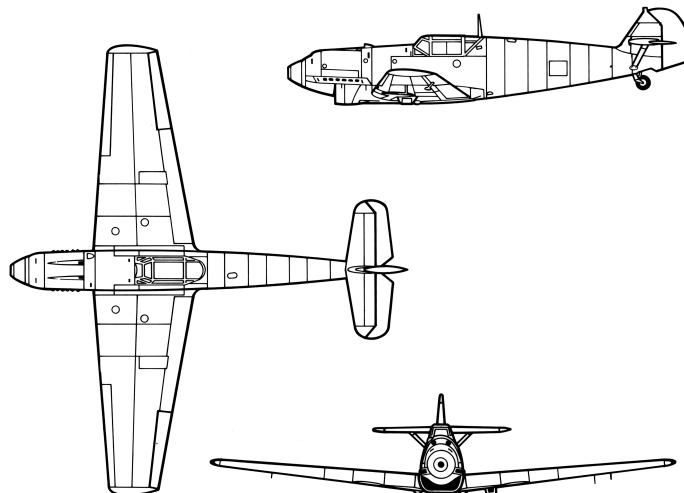
Protection: Cockpit +0      Fuel +0      Engine +0

Climb Decel / Dive Accel: 3.0 / 1.0  
 Weight and Load Limit: NA / NA

Wpn. Stations	Weight	Allowed Loads
None	NA	NA

Country: Germany

Service Entry Date: July 1937



Class: F

Victory Points: 3 - 5

## AIRCRAFT PERFORMANCE CHART

Altitude Levels	Band	Minimum Speed	Maximum Speed	Maximum Dive Spd.	Min. TT (2)	Min. HT (3)	Min. BT (3)	Min. ET (4)	Altitude Band	Levels	Average Rate Of Climb
43+	UH	—	—	—	—	—	—	—	UH	43+	—
37 - 42	EH	—	—	—	—	—	—	—	EH	37 - 42	—
31 - 36	VH	—	—	—	—	—	—	—	VH	31 - 36	—
25 - 30	HI	2.0	4.5	10.0	3.0	4.5	5.0	6.0	HI	25 - 30	1,000 ( 700)
19 - 24	MH	2.0	5.0 (4.5)	10.0	2.5	4.0	4.5	5.5	MH	19 - 24	1,800 (1,400)
13 - 18	ML	2.0	5.5 (5.0)	10.5	2.5	3.5	4.5	5.0	ML	13 - 18	2,400 (2,100)
7 - 12	LO	1.5	5.5	10.0	2.5	3.0	4.0	4.5	LO	7 - 12	2,800 (2,400)
1 - 6	VL	1.5	5.0	9.0	2.0	3.0	3.5	4.0	VL	1 - 6	3,000 (2,600)

## FIRE POWER CHART

Guns	Type Weapons	Ammo	Criticals
<b>N1</b>	One 7.9mm MG-17	15	4
<b>N2</b>	One 7.9mm MG-17	15	4
(N3*)	One 7.9mm MG-17	16	4

(\*See notes regarding N-3)

## GUN ATTACK FACTORS

Range	N1	N2	N3*	—	(Total)
0	6	6	6	—	12 / 18
1	4	4	5	—	8 / 13
2	3	3	3	—	6 / 9
3	2	2	2	—	4 / 6
4	1	1	1.5	—	2 / 3.5
5	1	1	1	—	2 / 3
6	—	—	—	—	—
7	—	—	—	—	—

## WEAPON STATIONS



None

## POWER VERSUS SPEED CHART

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

## NOTES & VARIANTS

**Bf 109B-1:** Initial June 1937 model with fixed pitch, propeller (30 built). Use ceiling, speed, & climb nos. in ( ). -1 to all power nos. (but not < 0.5). All else as B-2.

**Bf 109B-2:** Main production model. Over 300 built. Had variable pitch propeller offering improved performance. Slatted wings. Difficult to land (+05 LH to landing attrition rolls). Most equipped only with guns N1 and N2.

**Engine Mounted Gun (N3):** Jamming & overheat problems in prototypes caused gun to be deleted from production. In 1938 an effort was made to retrofit gun into existing planes. Few were converted and Jamming problem remained. Instead, the four-gun C & D models superceded the Bs. If N3 installed, use firepower totals after slash. Gun will jam if shot percentile roll for LH is > 60 (reduce by 5 for each shot after first). Reduce avg. ROC by 100 FPM due to extra weight of gun.

**Legion Condor:** B-2s first saw combat in Spain with the Legion Condor in July 1937 (35 sent). These were two-gun models and no radios were fitted.