# Henschel Hs126B-1

A/C Type: Tactical Recon aircraft
Engine(s): 1x Bramo 323A-1 radial
Eng. Pwr: 850-hp, air-cooled
A/C Crew: Pilot, Gunner

Maximum Speed: 221 mph at 9,840 ft. Maximum Ceiling: 27,230 / 22,000 ft.

Defense factor: 5 Size Modifier: +0
Damage Factor: 7/11 Endurance: 112
Cockpit View: Good Blind Area: 6-line low

Protection: Cockpit +0 Fuel +0 Engine +0

Climb Dece/ Dive Accel: 3.0 / 1.0 Weight and Load Limit: 110 lbs / 2

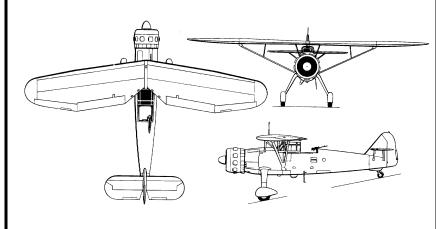
Wpn Stations Weight Allowed Loads
1 110 1x 50kg bomb or

5x 10kg bombs

4.0

Country: Germany

Service Entry Date: July, 1939



Class: L Victory Points: 3-5

6.0

#### AIRCRAFT PERFORMANCE CHART Altitude Maximum Maximum Min Min Altitude Minimum Min Min Average Bands Rate of Climb Levels Bands Dive Spd HT(3) BT(4) ET(5) Levels Speed Speed TT(2) 43+ UH 43+ UH 37-42 EΗ 37-42 EΗ 31-36 VΗ VΗ 31-36 25-30 ΗΙ 2.5 3.0 6.5 4.0 7.5 25-30 ΗΙ 400 5.5 6.5 19-24 2.0 19-24 MH 1,000 MH 3.5 6.5 3.5 5.0 6.0 7.0 ML 13-18 ML 1.5 4.0 7.0 3.0 6.0 13-18 1,500 4.0 5.0 7-12 LO 1.5 4.5 7.0 2.5 3.5 4.5 5.5 7-12 LO 1,800

2.5

3.0

# **FIRE POWER CHART**

1.5

VL

1-6

Guns	Type Weapons	Ammo	Criticals
W1	1x 7.62mm MG17 mg	7	4
W2	1x 7.62mm MG17 mg	7	4
DG	1x 7.62mm MG15 mg	5x3	4

#### **GUN ATTACK FACTORS**

Range	N1	N2	DG	Total
0	6	6	4	12
1	4	4	3	8
2	3	3	2	6
3	2	2	1	4
4	1	1	1	2
5	1	1	1	2
6				
7				

## WEAPON STATION LOCATION

# **POWER VERSUS SPEED CHART**

1-6

VL

1,900

5.0

4.0

Levels	Bands	1.0 - 4.5	5.0 - 7.5	8.0 - 9.5	10.0+	Band
Levels	Danus	1.0 - 4.5	5.0 - 7.5	6.0 - 9.5	10.0+	Danu
43+	UH					UH
37-42	EH					EH
31-36	VH					VH
25-30	HI	1				HI
19-24	MH	2				MH
13-18	ML	3				ML
7-12	LO	3				LO
1-6	VL	3				VL
Bankir	ng FPs	2	3	5	8	
Side S	lip FPs	2	4	6	9	

## **NOTES AND VARIANTS**

### **Defensive Gun Coverage**

DG: Rear +30, level to high, 6:00 = high only

Henschel Hs126: Parasol-wing recon and army cooperation aircraft.

**Hs126A-1**: Available August 1938. Some served in Spain (5 transferred to Spanish AF). 16 A-1s served Greece with the HAF 1939-1941. About 200 built..

**Hs126B-1**: Standard servcie aircraft 1939-1942. Served over Poland, France, Balkans, Greece, North Africa and Russia. By late 1942, it was replaced in frontline service by FW189 Uhu. By 1944, it was reduced to anti-partisan patrols and glider towing. Some pressed into service 1944 as night ground attack aircraft.

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# Blohm & Voss Bv 141B-1

A/C Type: Asymmetric Recon aircraft Engine(s): BMW 801A 14-cylinder radial

Eng. Pwr: 1560 hp, air-cooled A/C Crew: Pilot, Gunner, Observer

Maximum Speed: 272 mph at 16,400 ft.

Maximum Ceiling: 32,700 / 28,000 / 20,500 ft

Defense factor: 5 Size Modifier: +0

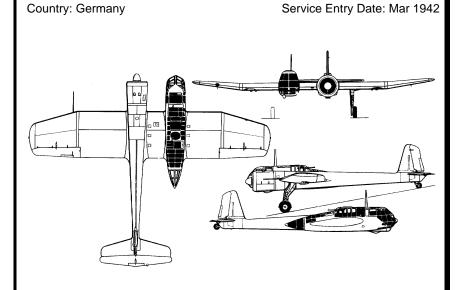
Damage Factor: 8/12 Endurance: 326

Cockpit View: Good Blind Area: None

Protection: Cockpit +0 Fuel +1 Engine +1

Climb Dece/ Dive Accel: 3.0 / 1.0 Weight and Load Limit: 450 / 1-3

Wpn Stations Weight Allowed Loads 1,2,3,4 110 1x 50Kg bombs



Class: L Victory Points: 4-6

<b>AIRCRAFT</b>	<b>PERFORMANCE</b>	CHART
AINCNAFI	FLAFORINATIOL	CHARL

	/ ·										
Altit	ude	Minimum	Maximum	Maximum	Min	Min	Min	Min	Altitu	de	Average
Levels	Bands	Speed	Speed	Dive Spd	TT(3)	HT(4)	BT(5)	ET(6)	Levels	Bands	Rate of Climb
43+	UH								43+	UH	
37-42	EH								37-42	EH	
31-36	VH	3.5	4.0	8.0	5.5	7.0	8.5		31-36	VH	300
25-30	HI	3.5	4.5	8.5	5.0	6.5	8.0	9.0	25-30	HI	600
19-24	MH	3.0	5.0	8.5	4.5	6.0	7.5	8.5	19-24	MH	800
13-18	ML	2.5	5.5	9.0	4.0	5.5	7.0	8.0	13-18	ML	1,000
7-12	LO	2.5	5.0	8.0	3.5	5.0	6.5	7.5	7-12	LO	1,200
1-6	VL	2.5	4.5	7.0	3.5	5.0	6.0	7.0	1-6	VL	1,200

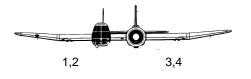
## **FIRE POWER CHART**

Guns	Type Weapons	Ammo	Criticals
W1	1x 7.62mm MG17 mg	7	4
W2	1x 7.62mm MG17 mg	7	4
DG	1x 7.62mm MG15 mg	5x3	4
TG	1x 7.62mm MG15 mg	5x3	4

#### **GUN ATTACK FACTORS**

Range	W1	W2	DG	TG	Total
0	6	6	4	4	12
1	4	4	3	3	8
2	3	3	2	2	6
3	2	2	1	1	4
4	1	1	1	1	2
5	1	1	1	1	2
6					
7					

# WEAPON STATION LOCATION



# **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				VH
25-30	HI	1				HI
19-24	MH	2				MH
13-18	ML	3				ML
7-12	LO	5				LO
1-6	VL	5				VL
Bankir	ng FPs	3	4	6	9	
Side S	lip FPs	4	5	7	10	

## **NOTES AND VARIANTS**

### **Defensive Gun Coverage**

DG: Rear, high

TG: Rear, level but no left level

**Blohm & Voss Bv141**: First successful asymmetric aircraft. While not a military success, it was an interesting research

breakthrough. Bv141 went through a lengthy process before production approval, but by then, most of B&V's factories were tied to different projects.

**Bv141A-0**: Avail Nov. 1939. First model was smaller and underpowered - but handled much better: 960 hp BMW 132 N 9-cyl radial. -.5 to min & max speeds; -200 roc; max speed 248 mph; Ceiling = 29, 500 ft. Turn decel = 2-3-4-5; -1 to all turn speeds; -1 for Bank and Slip requirement. End = 233. 8 built.

Bv141B-0: Available March, 1942. Few used on eastern front. 5 built.

# Focke-Wulf FW189A Uhu

A/C Type: Recon & ground support bomber

Engine(s): 2 Argus As410A-1radial Eng. Pwr: 2x 465-hp, air-cooled A/C Crew: Pilot, Observer, Gunner

Maximum Speed: 214 mph @ 8,200 ft

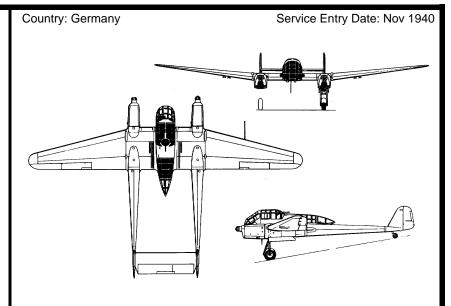
Maximum Ceiling: 22,966 ft

Defense factor: 5 Size Modifier: +0
Damage Factor: 9/13 Endurance: 178
Cockpit View: Good Blind Area: None

Protection: Cockpit +0 Fuel +1 Engine+1

Climb Dece/ Dive Accel: 3.0 / 1.0 Weight and Load Limit: 450 / 1-2

Wpn Stations Weight Allowed Loads
1.2 220 2x 50 kg bombs



Class: L Victory Points: 4-6

# AIRCRAFT PERFORMANCE CHART

Alti	tude	Minimum	Maximum	Maximum	Min	Min	Min	Min	Altitu	ide	Average
Levels	Bands	Speed	Speed	Dive Spd	TT(3)	HT(4)	BT(5)	ET(6)	Levels	Bands	Rate of Climb
43+	UH								43+	UH	
37-42	EH								37-42	EH	
31-36	VH								31-36	VH	
25-30	HI								25-30	HI	
19-24	MH	2.5	3.5	6.5	4.0	5.5	6.5	7.5	19-24	MH	600
13-18	ML	2.5	4.0	7.0	3.5	5.0	6.0	7.0	13-18	ML	800
7-12	LO	2.0	4.0	6.5	3.5	4.5	5.5	6.5	7-12	LO	1,000
1-6	VL	2.0	4.0	6.0	3.0	4.0	5.0	6.5	1-6	VL	1,000

### **FIRE POWER CHART**

Guns	Type Weapons	Ammo	Criticals
W1	1x 7.62mm MG17 mg	7	4
W2	1x 7.62mm MG17 mg	7	4
W3	1x 20mm MG-FF cannon	4	2
W4	1x 20mm MG-FF cannon	4	2
DG	1x 7.62mm MG15 mg	5x3	4
TG	1x 7.62mm MG15 mg	5x3	4

#### **GUN ATTACK FACTORS**

Rng	W1	W2	W3	W4	DG	TG	Total
0	6	6	11	11	4	4	12/22
1	4	4	9	9	3	3	8/18
2	3	3	6	6	2	2	6/12
3	2	2	4	4	1	1	4/8
4	1	1	3	3	1	1	2/6
5	1	1	2	2	1	1	2/4
6							
7							

## WEAPON STATION LOCATION

# **POWER VERSUS SPEED CHART**

(per engine)								
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					HI		
19-24	MH	1.0				MH		
13-18	ML	1.5				ML		
7-12	LO	2.0				LO		
1-6	VL	2.0				VL		
Bankir	ng FPs	3	4	6	8			
Side S	lip FPs	4	5	7	9			

## **NOTES AND VARIANTS**

**FW189** Uhu (Owl): Twin-boom, well-glazed, FW189 slowly replaced the Hs126 in front line service on Eastern front between late 1940 and 1942. As the Soviet fighters improved, its effectiveness shrank and it was reassigned to night ground attack, aerial ambulance and other such missions. A few served in North Africa in a mixed staffel with Bf110s. In 1942, 14 FW189A-1s given the Slovakian Air Force. 850 built (mostly A-1). A-1 had W1&W2 only.

**FW189A-2**: Available September, 1942. MG15s replaced by MG81Z mounts. In late 1942, about a dozen FW189 A-2s given to the Hungarian 3/1 Short Range Recon sqdn, which was deployed in Russia March 1943 near Kharkov.

**FW189A-4**: Available Jan 43. Ground support version. 20mm MG-FF cannon vice MG17s in wing roots (W3&W4, total right of slash); additional armor: Engines +1 Fuel +1. (few built; 9+ on a D10.)

1 2

# Heinkel He59B-2

A/C Type: Recon Seaplane

Engine(s): 2 BMW VI 6,32 V-12 engines

Eng. Pwr: 2x 660-hp, liquid-cool

A/C Crew: Pilot, Radio op/Gunner, 2 Gunners

Passenger space

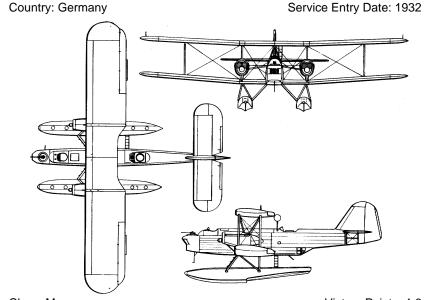
Maximum Speed: 150 mph @ Sea Level
Maximum Ceiling: 11,480 / 8,000 / 5,000 ft

Defense factor: 6 Size Modifier: +1
Damage Factor: 11/17 Endurance: 310
Cockpit View: Good Blind Area: None

Protection: Cockpit +0 Fuel +0 Engine +0

Climb Dece/ Dive Accel: 2.0 / 1.0 Weight and Load Limit: 2200 / 3-6

Wpn Stations Weight Allowed Loads
1 2200 Torpedo or mines



Class: M Victory Points: 4-6

<b>AIRCRAFT</b>	<b>PERFORMANCE</b>	CHART
AINCNALI	PERFURINGE	CHARL

7											
Altit	ude	Minimum	Maximum	Maximum	Min	Min	Min	Min	Altitu	de	Average
Levels	Bands	Speed	Speed	Dive Spd	TT(2)	HT(3)	BT(-)	ET(-)	Levels	Bands	Rate of Climb
43+	UH								43+	UH	
37-42	EH								37-42	EH	
31-36	VH								31-36	VH	
25-30	HI								25-30	HI	
19-24	MH								19-24	MH	
13-18	ML								13-18	ML	
7-12	LO	1.5	3.0	5.0	2.5	3.0			7-12	LO	700
1-6	VL	1.5	3.0	4.5	2.0	2.5			1-6	VL	700

## **FIRE POWER CHART**

Guns	Type Weapons	Ammo (	Criticals
FG	1x 7.62mm MG17 mg	5x3	4
TG	1x 7.62mm MG17 mg	5x3	4
VG	1x 7.62mm MG17 mg	5x3	4

#### **GUN ATTACK FACTORS**

	Range	FG	TG	VG	
,	0	4	4	3	
	1	3	3	2	
	2	2	2	1	
	3	1	1	1	
	4	1	1	1	
	5	1	1	1	
	6				
	7				

# WEAPON STATION LOCATION

# **POWER VERSUS SPEED CHART**

(per engine)								
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					HI		
19-24	MH					MH		
13-18	ML					ML		
7-12	LO	0.5				LO		
1-6	VL	0.5				VL		
Banking FPs		3	4					
Side S	lip FPs	4	5					

## **NOTES AND VARIANTS**

**All He59**: Large sea biplane. Slow and ungainly, it patrolled and bombed during the Spanish Civil War. It patrolled, performed SAR, and laid mines in the North and Baltic Seas. 10 He59s landed 60 men in the River Maas to capture Rotterdam bridge in May, 1940. Biplane. Fixed gear (floats). Open cockpit.

He59B-2: Main production version.

**He59B-3**: Long-range patrol version. Delete VG. End = 280.

He59C-2: Unarmed SAR aircraft. Delete all weapons. Add boarding ladder.