

Heinkel He111H-16

A/C Type: Medium Bomber
 Engine(s): Two Junkers Jumo 211F-2 in-line
 Eng. Pwr: 2120-2700 hp, liquid-cooled.
 A/C Crew: Pilot, Bombadier, RadioOp/Gunner
 2 Gunners

Maximum Speed: 270 mph at 19,685 ft.
 Maximum Ceiling: 27,890 / 25,300 / 21,980 ft.

Defense factor: 6 Size Mod: +1
 Damage Factor: 14/21 Endurance: 195
 Cockpit View: Fair Blind Area: None

Protection: Cockpit +1 Fuel +0 Engine +0

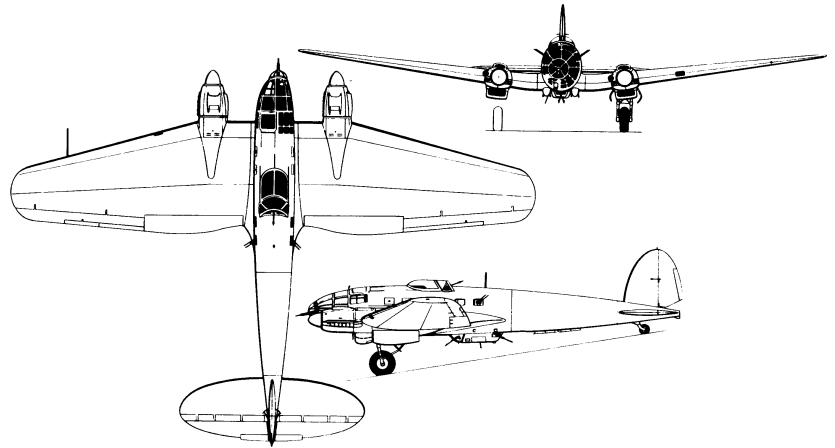
Climb Dece/ Dive Accel: 2.0 / 1.0

Weight and Load Limit: 5500 / 7-12

Wpn Stations Weight Allowed Loads
 1, 2 (bombbay) 2200 4-16 bombs or FT
 3, 4 (external) 4400 1 large bomb

Country: Germany

Service Entry Date: June 1943



Class: M

Victory Points: 7-14

AIRCRAFT PERFORMANCE CHART

Altitude		Minimum Speed	Maximum Speed	Maximum Dive Spd	Min TT(3)	Min HT(4)	Min BT(-)	Min ET(-)	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	3.0	5.0	9.0	4.0	5.5	--	--	25-30	HI	700
19-24	MH	2.5	5.5	9.0	3.5	5.0	--	--	19-24	MH	1,000
13-18	ML	2.0	5.5	9.0	3.5	5.0	--	--	13-18	ML	1,300
7-12	LO	2.0	5.0	8.5	3.0	4.5	--	--	7-12	LO	1,900
1-6	VL	2.0	4.5	8.0	3.0	4.0	--	--	1-6	VL	2,300

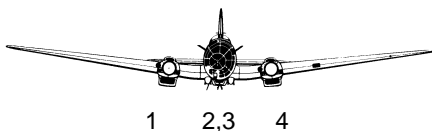
FIRE POWER CHART

Guns	Type Weapons	Ammo	Criticals
FG1	One 20mm MG-FF can	9	2
FG2	One 7.92mm MG17 mg	5x3	4
DG	One 13mm MG131 mg	10	3
VG	One 7.92mm MG81 mg	8	4
LG	One 7.92mm MG81Z mg	8	4
RG	One 7.92mm MG81Z mg	8	4

GUN ATTACK FACTORS

Rng	FG1	FG2	DG	VG	LG/RG
0	7	3	6	4	8
1	5	2	4	3	6
2	3	1	3	2	4
3	2	1	2	1	3
4	1	1	1	1	2
5	1	1	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	1.0/1.5	0.5	--	--	HI
19-24	MH	1.5/2.0	0.5/1.0	--	--	MH
13-18	ML	2.0/2.5	1.0/1.5	--	--	ML
7-12	LO	2.0/2.5	1.0/1.5	--	--	LO
1-6	VL	2.0/2.5	1.0/1.5	--	--	VL
Banking FPs		3	4	5	7	
Side Slip FPs		3	5	7	9	

NOTES AND VARIANTS

Defensive Gun Coverage

FG: Front, level
 VG: Rear, low
 DG: Rear, lv-hi; 6:00 hi only
 LG/RG: level, L/R+30

He111H-16: Last "standard" version of the Heinkel He111 produced. FGs mounted co-ax; can sight w/FG2. LG/RG fired by 1 man. Can exchange bombbay for FT (+60 end).

R1: Powered DT vice DG - 7/5/3/2/1/1/-/- for attack.

R2: Boomtype glider coupling.

R3: Cockpit +2, Engines +1 for Pathfinder model. Max Bombload = 4400 lbs.

Bombloads: 32xSC50 or 8x SC250 or (16xSC50 + 1xSC1000 external) or (1xSC2000 + 1xSC500 both external). See H-21 ADC for Aux FT data.

He111H-20: Multirole: R1: carried 16 paratroops vice bombload. R2: freighter and glider tug. R3 = Night bomber w/ FG,DG,VG all MG131s.

Heinkel He111H-21

Country: Germany

Service Entry Date: March 1944

A/C Type: Medium Night Bomber
 Engine(s): Two Junkers Jumo 213E-1 in-line
 Eng. Pwr: 2640-3500 hp, liquid-cooled.
 A/C Crew: Pilot, Bombadier, RadioOp/Gunner
 2 Gunners

Maximum Speed: 298 mph at 19,685 ft.
 Maximum Ceiling: 32,000 / 27,300 / 25,000 ft.

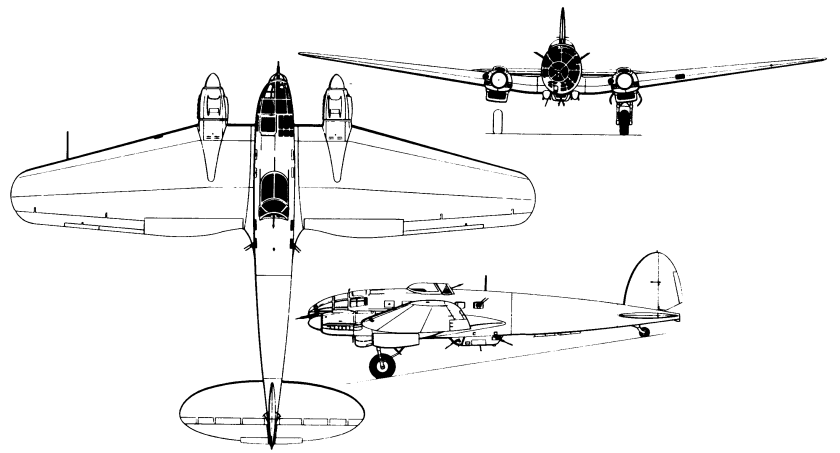
Defense factor: 6 Size Mod: +1
 Damage Factor: 14/21 Endurance: 165
 Cockpit View: Fair Blind Area: None

Protection: Cockpit +1 Fuel +0 Engine +0

Climb Dece/ Dive Accel: 2.0 / 1.0

Weight and Load Limit: 6615 / 7-12

Wpn Stations	Weight	Allowed Loads
1 (external)	1102	1 large bomb
2, 3 (bombbay)	2205	4-16 bombs or FT
4 (external)	4410	1 large bomb or missile



Class: F

Victory Points: 7-15

AIRCRAFT PERFORMANCE CHART

Altitude		Minimum Speed	Maximum Speed	Maximum Dive Spd	Min TT(3)	Min HT(4)	Min BT(-)	Min ET(-)	Altitude		Average Rate of Climb
Levels	Bands								Levels	Bands	
43+	UH	--	--	--	--	--	--	--	43+	UH	--
37-42	EH	--	--	--	--	--	--	--	37-42	EH	--
31-36	VH	3.0	5.0	8.5	4.0	5.5	--	--	31-36	VH	400
25-30	HI	3.0	5.5	9.0	4.0	5.5	--	--	25-30	HI	900
19-24	MH	2.5	6.0	9.0	3.5	5.0	--	--	19-24	MH	1,200
13-18	ML	2.0	5.5	9.0	3.5	5.0	--	--	13-18	ML	1,500
7-12	LO	2.0	5.0	8.5	3.0	4.5	--	--	7-12	LO	1,800
1-6	VL	2.0	4.5	8.0	3.0	4.0	--	--	1-6	VL	2,400

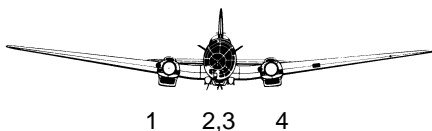
FIRE POWER CHART

Guns	Type Weapons	Ammo	Criticals
FG	One 13mm MG131 mg	10	3
DT	One 13mm MG131 mg	10	3
VG	One 13mm MG131 mg	10	3
LG	One 7.92mm MG81Z mg	8	4
RG	One 7.92mm MG81Z mg	8	4

GUN ATTACK FACTORS

Rng	FG	DG	VG	LG	RG
0	6	6	7	8	8
1	4	4	5	6	6
2	3	3	3	4	4
3	2	2	2	3	3
4	1	1	1	2	2
5	1	1	1	1	1
6	1	1	1	--	--
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	0.5/1.0	0.5/-	--	--	VH
25-30	HI	1.0/1.5	0.5/-	--	--	HI
19-24	MH	2.0/2.5	1.0/1.5	--	--	MH
13-18	ML	3.0/3.5	2.0/2.5	--	--	ML
7-12	LO	3.0/3.5	2.0/2.5	--	--	LO
1-6	VL	3.0/3.5	--	--	--	VL
Banking FPs		3	4	5	7	
Side Slip FPs		3	5	7	9	

NOTES AND VARIANTS

Defensive Gun Coverage

FG: Front, level
 VG: Rear, low
 DG: Rear, lvl-high; 6:00 hi only
 LG/RG: level, L/R+30

He111H-21: Available March '44. H-20/R3 w/ improved Jumo 211E-1 engine. Can exchange each bombbay for FT (+60 end) - see Aux FT below.

He111H-22: Available July-44. H-21s converted for use as Fi103 (V-1 Buzz Bomb) launchers. Carried 1 V-1 apiece. Dropped from 1500 feet. Used by III/KG3 operating out of Holland. 100+ built.

He111H-23: Available Sept-44. Last He111s produced. 8-agent carrier using 1600-1770hp Jumo 213A-1 engines. Converted back to H-21 bombers after few missions.

Aux FT: Wgt: 1500

Ld: 3.5/2.5

End: +60

Heinkel He111Z-1

A/C Type: Heavy glider tug
 Engine(s): Five Junkers Jumo 211F-1 inline
 Eng. Pwr: 5300-6750 hp, liquid-cooled
 A/C Crew: Pilot, Copilot, Navigator/bombadier
 RadioOp/Gunner, 3 Gunners

Maximum Speed: 272 mph @19,290 ft
 Maximum Ceiling: 31,350 ft.

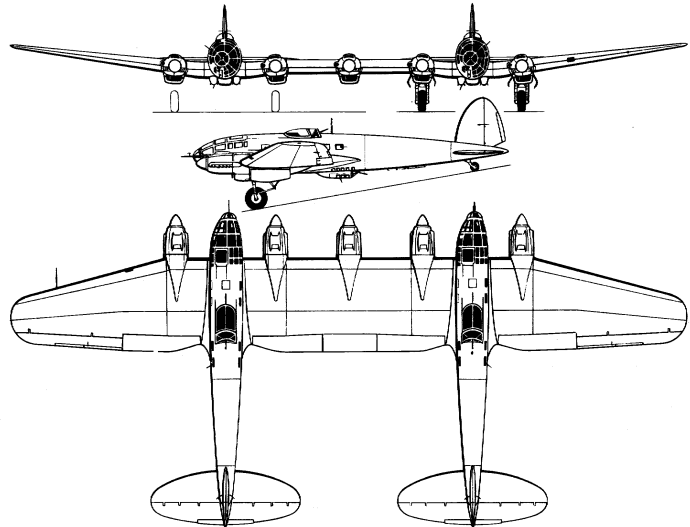
Defense factor: 7 Size Modifier: +2
 Damage Factor: 16/23 Endurance: 240
 Cockpit View: Good Blind Area: None

Protection: Cockpit +1 Fuel +0 Engine +0
 Climb Dece/ Dive Accel: 2.0 / 1.0
 Weight and Load Limit: 8000 / 10-20

Wpn Stations Weight Allowed Loads
 1-4 (Z-2 only) 2000 1x Hs293 missile

Country: Germany

Service Entry Date: Nov. 1941



Class: H

Victory Points: 6-12

AIRCRAFT PERFORMANCE CHART

Altitude Levels	Bands	Minimum Speed	Maximum Speed	Maximum Dive Spd	Min TT(4)	Min HT(5)	Min BT(-)	Min ET(-)	Altitude Levels	Bands	Average Rate of Climb
43+	UH	--	--	--	--	--	--	--	43+	UH	--
37-42	EH	--	--	--	--	--	--	--	37-42	EH	--
31-36	VH	3.5	4.5	8.0	4.5	6.0	--	--	31-36	VH	1,000
25-30	HI	3.0	5.0	8.5	4.0	5.5	--	--	25-30	HI	1,500
19-24	MH	3.0	5.0	8.5	3.5	5.0	--	--	19-24	MH	2,200
13-18	ML	2.0	5.5	8.5	3.0	4.5	--	--	13-18	ML	2,700
7-12	LO	2.0	5.0	7.5	2.5	4.0	--	--	7-12	LO	3,300
1-6	VL	2.0	4.5	6.5	2.5	3.5	--	--	1-6	VL	3,900

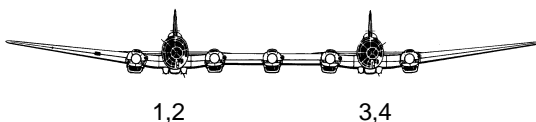
FIRE POWER CHART

Guns	Type Weapons	Ammo	Criticals
FG1/2	1x 7.92mm MG81	5	4
DG1/2	One 13mm MG131 mg	6	3
VG1/2	1x 7.92mm MG81	5	4
L/RG	1x 7.92mm MG81Z	5	4

GUN ATTACK FACTORS

Rng	FG1/2	DG1/2	VG1/2	LG/RG
0	3	6	4	8
1	2	4	3	6
2	1	3	2	4
3	1	2	1	3
4	1	1	1	2
5	1	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	.4	--	--	--	VH
25-30	HI	.5	.2	--	--	HI
19-24	MH	.6	.3	--	--	MH
13-18	ML	.9	.4	--	--	ML
7-12	LO	.9	.4	--	--	LO
1-6	VL	.9	--	--	--	VL
Banking FPs		3	5	8	--	
Side Slip FPs		4	6	10	--	

NOTES AND VARIANTS

Defensive Gun Coverage

FGs: Front, level

VGs: Rear, low

DGs: Rear, lvl-high; 6:00 hi only

LG/RG: level, L/R+30

He111Z Zwilling: built of two He111H hulls joined on a central wing to provide enough power to lift and tow the Me321 Gigant glider (instead of two Ju52s). Maximum speed while towing was 225 kph. 8 built.

He111Z-2: Planned (or at least considered) assault version, carrying 4 Hs293 missiles.