

PLANE TYPE: Ju-86D

Junkers Ju-86D

Medium Bomber

MOVEMENT CHARACTERISTICS CHART													
ALTITUDE (x1000)	SPEEDS				SPEED CHANGE		ALTITUDE CHANGE		MANEUVERS				
	STALL SPEED	MANEUVER SPEED	LEVEL SPEED	DIVE SPEED	POWER FACTORS	BRAKE FACTORS	CLIMB RATE	DIVE RATE	BANK	TURN	SLIP	HALF-LOOP	HALF-ROLL
0-4.9	0-1	2-3	4	5-6	1	3	.3	.9	4	3	4	-	-
5.0-9.9	0-1	2-3	4	5-6	1	2	.2	1.0	4	4	5	-	-
10.0-14.9	0-1	2	3-4	5-7	1	2	.2	1.0	5	4	5	-	-
15.0-19.4	0-1	-	2-3	4-7	1	2	.1	1.0	5	5	6	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-
LEVEL DIVE LOADED	-	-	-	-	P	-	+2	-	+1	+1	+1	P	P
	0	-1	-1	-1	-	-	-1	-2	+3	+3	+3	P	P
									+3	+4	+3	P	P

NOTES: Entered service in October 1936. First used in Spain in late 1937. Could carry up to 1760 pounds (1 bomb low level) of bombs loaded. Has sights for use as a level bomber. About 140 Ju-86Ds were produced.

POINT VALUE: 17

TARGET CHARACTERISTICS CHART							
W	7		Cn	-	Mg	-	
F	7		L	2			
C	2		C	-			
E	3	E	-	E	-	E	3
G							
			(5)				
"F"							

SILHOUETTE MODIFIER: +4
 FIRE MODIFIER: +0
 TYPE ENGINE(OP): 1
 BLIND SPOTS(OP):
 H: A,12(+2),2,4,6,8,10(+1)
 M: 12,2,10(+2),4,8(+2),6(+1),
 L: B(-2),12(+1),2,4,8,10(-1),6(-2)

"F" Gunnery Play (OP)
 H: A(1), 12(1), 2(1), 4(1), 6(1), 8(1), 10(1)
 M: 12(1), 2(1), 4(1), 6(1), 8(1), 10(1)
 L: B(1), 12(1), 2(1), 4(1), 6(1), 8(1), 10(1)

Producer: Third Reich
 Name: Jumo

PLANE TYPE: He-111B

Heinkel He-111B-2

Medium Bomber

MOVEMENT CHARACTERISTICS CHART													
ALTITUDE (x1000)	SPEEDS				SPEED CHANGE		ALTITUDE CHANGE		MANEUVERS				
	STALL SPEED	MANEUVER SPEED	LEVEL SPEED	DIVE SPEED	POWER FACTORS	BRAKE FACTORS	CLIMB RATE	DIVE RATE	BANK	TURN	SLIP	HALF-LOOP	HALF-ROLL
0-4.9	0-1	2-3	4	5-6	1	2	.3	.8	3	4	5	-	-
5.0-9.9	0-1	2-3	4	5-7	1	2	.2	.8	4	4	5	-	-
10.0-14.9	0-1	2-3	4-5	6-7	1	2	.2	.8	4	5	6	-	-
15.0-19.9	0-2	-	4-5	6-7	1	2	.2	.8	5	5	6	-	-
20.0-24.9	0-2	-	4	5-8	1	1	.1	.9	5	6	7	-	-
25.0-23.0 (-23.6)	0-3	-	4	5-8	1	1	.1/4	.9	6	6	7	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-
LEVEL DIVE LOADED	-	-	-	-	P	-	+1	-	+2	+2	+2	P	P
	0	-1	-1	-1	-	-	-1	-2	+3	+4	+3	P	P
									+3	+4	+3	P	P

NOTES: He-111B-2 production started in Autumn 1936. First used in Spain in Feb 1937. Could carry up to 3307 pounds of bombs (3 bombs low level) loaded. Has sights for level bombing. Altitude number in parenthesis applies to variant He-111E (20 pts) which entered production in Jan 1938, first used in Spain in March 1938. Can carry up to 4410 pounds of bombs (4 bombs low level) loaded. About 300 He-111Bs and 190 He-111Es were produced.

POINT VALUE: 19

TARGET CHARACTERISTICS CHART							
W	7		Cn	-	Mg	-	
F	5		L	3			
C	2		C	-			
E	3	E	-	E	-	E	3
G							
			(5)				
"F"							

SILHOUETTE MODIFIER: +4
 FIRE MODIFIER: 0
 ENGINE TYPE(OP): R
 BLIND SPOTS(OP):
 H:A(-1),12(+1), 2, 4, 6(-1), 8, 10
 M:12(+2), 2,10(+1), 4, 8(-1), 6(-3)
 L:B(-2).12(+1),2,4,8,10(-1),6(-3)

"F" Gunnery Play (OP)
 H: A(1), 12(1), 2(1), 4(1), 6(1), 8(1), 10(1)
 M: 12(1), 2(1), 4(1), 6(1), 8(1), 10(1)
 L: B(1), 12(1), 2(1), 4(1), 6(1), 8(1), 10(1)

Producer: Third Reich