

Ilyushin Il-28



The Ilyushin Il-28 was a conventional and nuclear tactical bomber and a long-range reconnaissance aircraft. The NATO reporting name for the aircraft is "Beagle".

It was powered by two Klimov VK-1 engines in underwing pods. This engine was a development on the Klimov RD-45, an unauthorized copy of the Rolls-Royce Nene engine, and was also used in the MiG-15bis.

Versions

Il-28

The Il-28 was a conventional tactical bomber. It was armed with two fixed 23 mm NR-23 cannons and two more in a defensive tail mount. It could carry up to 3,000 kg (6,600 lb) of bombs in its internal bomb bay, but a normal load was 1,000 kg (2,200 lb).

The Il-28 entered service with the Soviet VVS in 1950 and AV MF (Naval Aviation) in 1951 and with the PLAAF in 1952. They were exported to many other countries, including Afghanistan, Algeria, Bulgaria, Cambodia, Czechoslovakia, East Germany, Egypt, Finland, Hungary, Indonesia, Iraq, Morocco, Nigeria, North Korea, North Vietnam, Romania, Somalia, Syria, and Yemen. They were built under license in Czechoslovakia. China later built a modified version as the Harbin H-5.

Il-28T

The Il-28T was a torpedo bomber. Its bomb bay was lengthened to allow the internal carriage of torpedoes and its wing moved slightly to compensate for the resulting change in the center of gravity. It was equipped with two 350L wing-tip fuel tanks to compensate for the reduced capacity of the in fuselage fuel tanks.

The IL-28T entered service with the Soviet AV MF in 1951.

Il-28R

The Il-28R was a long-range photo-reconnaissance aircraft. Its bomb bay was given over to cameras, flares, and

additional fuel. It also was equipped with two 350L wing-tip fuel tanks. One of the forward-firing guns was replaced by reconnaissance equipment.

The IL-28R entered service with the VVS and AV MF in 1952.

Il-28N

The Il-28N was a nuclear tactical bomber. It could carry the RDS-4 nuclear bomb in its internal bomb bay. Like the Il-28R, it was equipped with two 350L wing-tip fuel tanks.

The IL-28N entered service with the VVS in about 1954.

Il-28REB

The Il-28REB was an electronic-countermeasures aircraft. Its primary role was to protect Il-28s on conventional and nuclear bombing missions. Like the Il-28R, it was equipped with two 350L wing-tip fuel tanks.

The IL-28REB entered service with the VVS in about 1954.

Armament and Stores

The Il-28 could carry up to 3,000 kg (6,600 lb) of bombs in its internal bay. Alternatively, the Il-28T could carry one Type 45 or two RAT-52 torpedoes. The Il-28N could carry a single RDS-4 nuclear bomb.

Combat

PLAAF Il-28s did not see combat in the Korean War, but were an implicit threat during the last year of the Korean War. They saw action in 1956 against Taiwan, bombing the Tachen Islands, and suffered losses to RoCAF F-84 and F-86s. They were also used in the 1959 Tibetan Uprising.

Egyptian Air Force Il-28s fought in the 1967 War, the War of Attrition, and the 1973 War.

Soviet VVS Il-28s saw combat in the Soviet-Afghan War.

ADCs

- Il-28
- Il-28T
- Il-28R
- Il-28N

Photo Credit

- Il-28: Bjoern Schwarz (CC BY 2.0)

Il-28					Crew: Pilot, Bombardier, and Gunner																																																			
					Maneuver DPs: LR/DR — VR —																																																			
Power APs/DPs: ○○ <table> <thead> <tr> <th></th><th>CL</th><th>1/2</th><th>DT</th><th>Fuel</th></tr> </thead> <tbody> <tr> <td>AB</td><td>—</td><td>—</td><td>—</td><td>—</td></tr> <tr> <td>M</td><td>1.0</td><td>1.0</td><td>0.5</td><td>2.0</td></tr> <tr> <td>N</td><td>0.0</td><td>0.0</td><td>0.0</td><td>1.0</td></tr> <tr> <td>I</td><td>1.0</td><td>1.0</td><td>1.0</td><td>0.0</td></tr> <tr> <td>SPBR</td><td>1.0</td><td>1.0</td><td>1.0</td><td>—</td></tr> </tbody> </table>						CL	1/2	DT	Fuel	AB	—	—	—	—	M	1.0	1.0	0.5	2.0	N	0.0	0.0	0.0	1.0	I	1.0	1.0	1.0	0.0	SPBR	1.0	1.0	1.0	—	Turn DPs: <table> <thead> <tr> <th></th><th>CL</th><th>1/2</th><th>DT</th></tr> </thead> <tbody> <tr> <td>TT</td><td>0.5</td><td>1.0</td><td>1.0</td></tr> <tr> <td>HT</td><td>1.0</td><td>1.5</td><td>1.5</td></tr> <tr> <td>BT</td><td>—</td><td>—</td><td>—</td></tr> <tr> <td>ET</td><td>—</td><td>—</td><td>—</td></tr> </tbody> </table>			CL	1/2	DT	TT	0.5	1.0	1.0	HT	1.0	1.5	1.5	BT	—	—	—	ET	—	—	—
	CL	1/2	DT	Fuel																																																				
AB	—	—	—	—																																																				
M	1.0	1.0	0.5	2.0																																																				
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HT	1.0	1.5	1.5																																																					
BT	—	—	—																																																					
ET	—	—	—																																																					
Cruise Spd. CL: 4.5 Restr. Arcs: - Climb Spd.: 3.5 Blind Arcs: - Visibility: 8 Internal Fuel: 565 Size: -1 AtA Refuel: No Vulnerability: -2 Ejection Seat: Early					No rolling maneuvers allowed.																																																			
Speeds and Ceilings					Climb Capabilities																																																			
Alt. Band	Conf. Ceil.	CL 40	1/2 36	DT 32	Dive Speed	CL AB Oth	1/2 AB Oth	DT AB Oth																																																
EH+	46+	—	—	—	—	— —	— —	— —	EH+																																															
VH	36–45	3.0 – 5.0	3.0 – 4.5	—	6.0	— 0.5	— 0.5	— —	VH																																															
HI	26–35	2.5 – 5.0	3.0 – 5.0	3.0 – 5.0	6.0	— 0.5	— 0.5	— 0.5	HI																																															
MH	17–25	2.5 – 5.5	2.5 – 5.5	3.0 – 5.0	6.0	— 0.5	— 0.5	— 0.5	MH																																															
ML	8–16	2.0 – 5.0	2.5 – 5.0	2.5 – 4.5	6.0	— 0.5	— 0.5	— 0.5	ML																																															
LO	0–7	2.0 – 4.5	2.0 – 4.5	2.0 – 4.5	6.0	— 1.0	— 1.0	— 0.5	LO																																															
Radar: PSB-N ECCM: 0 Arcs: 180+ Search: Gr. Nav. (90) Track: Gr. Attack (45) Lock-On: 6		ECM: IFF RWR: A DDS: — DJM: — AJM: — BJM: —		Weapon Stations Diagram:																																																				
Guns: Two 23 mm NR-23 To Hit: 3/2/1 Ammunition: 6.0 Gunsight: TT+1/HT+2 Ranging: — AtA/AtG: 4/3		Technology: None		Load Point Limits: CL : < 5 1/2: < 9 Weight Limit: 6,600 DT : ≥ 9																																																				
Bomb System: Manual				Station Limit Allowed Loads 1 6,600 BB																																																				
Notes: <ol style="list-style-type: none"> The Ilyushin Il-28 is a medium bomber. The NATO reporting name for the aircraft is Beagle. High transonic drag (HTD). Low roll rate (LRR). Bomb system is ballistic (-1) if doing level bombing from four or more altitude levels above the target. Articulated Guns. In addition to its fixed guns, the aircraft has a tail mount with two 23 mm NR-23 guns that can fire into the 60° arc. These guns may return fire twice per game turn in response to gun attacks or conduct one attack. The hit rolls are 3/2/1 and no modifiers apply except target size. The AtA damage rating is 4. The ammunition is 6.0. The tail gunner does not have an ejection seat and can only bail out. RWR from 1960. 																																																								
VPs: 12/8/4/2								v3 0000000 0000-00-00T00:00:00																																																

Il-28R					Crew: Pilot, Observer, and Gunner																														
					Maneuver DPs:																														
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	CL	1/2	DT	Fuel																															
AB	—	—	—	—																															
M	1.0	1.0	0.5	2.0																															
N	0.0	0.0	0.0	1.0																															
I	1.0	1.0	1.0	0.0																															
SPBR	1.0	1.0	1.0	—																															
					VR —	Turn DPs:																													
						CL	1/2	DT																											
					TT	0.5	1.0	1.0																											
					HT	1.0	1.5	1.5																											
					BT	—	—	—																											
					ET	—	—	—																											
					No rolling maneuvers allowed.																														
Speeds and Ceilings																																			
Alt. Band	Conf. Ceil.	CL 40	1/2 36	DT 32	Dive Speed	CL AB Oth	1/2 AB Oth	DT AB Oth																											
EH+	46+	—	—	—	—	— —	— —	— —	EH+																										
VH	36–45	3.0 – 5.0	3.0 – 4.5	—	6.0	— 0.5	— 0.5	— —	VH																										
HI	26–35	2.5 – 5.0	3.0 – 5.0	3.0 – 5.0	6.0	— 0.5	— 0.5	— 0.5	HI																										
MH	17–25	2.5 – 5.5	2.5 – 5.5	3.0 – 5.0	6.0	— 0.5	— 0.5	— 0.5	MH																										
ML	8–16	2.0 – 5.0	2.5 – 5.0	2.5 – 4.5	6.0	— 0.5	— 0.5	— 0.5	ML																										
LO	0–7	2.0 – 4.5	2.0 – 4.5	2.0 – 4.5	6.0	— 1.0	— 1.0	— 0.5	LO																										
Radar: PSB-N																																			
ECCM:	0	ECM:	IFF	Weapon Stations Diagram:																															
Arcts:	180+	RWR:	A																																
Search:	Gr. Nav. (90)	DDS:	—																																
Track:	Gr. Attack (45)	DJM:	—																																
Lock-On:	6	AJM:	—																																
BJM:	—																																		
Guns: One 23 mm NR-23					Technology:																														
To Hit:	3/2/1	None					Load Point Limits:																												
Ammunition:	6.0						CL : < 3																												
Gunsight:	TT+1/HT+2						1/2: < 7																												
Ranging:	—						Weight Limit:																												
AtA/AtG:	3/2						0	DT : ≥ 7																											
Bomb System: Manual					Station																														
					1	Limit	Allowed Loads																												
					1	0																													
Notes:																																			
1. The Ilyushin Il-28R is a photo-reconnaissance aircraft. It is a development of the Il-28 medium bomber. The NATO reporting name for the aircraft is Beagle.																																			
2. High transonic drag (HTD). Low roll rate (LRR).																																			
3. Articulated Guns. In addition to its fixed guns, the aircraft has a tail mount with two 23 mm NR-23 guns that can fire into the 60° arc. These guns may return fire twice per game turn in response to gun attacks or conduct one attack. The hit rolls are 3/2/1 and no modifiers apply except target size. The AtA damage rating is 4. The ammunition is 6.0.																																			
4. The tail gunner does not have an ejection seat and can only bail out.																																			
5. Overhead and left oblique cameras in the bomb bay																																			
6. RWR from 1960.																																			
VPs: 12/8/4/2								v3 0000000 0000-00-00T00:00:00																											

Il-28T									Crew: Pilot, Bombardier, and Gunner		
									Maneuver DPs:		
									LR/DR	—	
									VR	—	
Power APs/DPs:					OO				Turn DPs:		
	CL	1/2	DT	Fuel					CL	1/2	DT
AB	—	—	—	—					TT	0.5	1.0
M	1.0	1.0	0.5	2.0					HT	1.0	1.5
N	0.0	0.0	0.0	1.0					BT	—	—
I	1.0	1.0	1.0	0.0					ET	—	—
SPBR	1.0	1.0	1.0	—					No rolling maneuvers allowed.		
					Cruise Spd. CL: 4.5	Restr. Arcs:	-				
					Climb Spd.: 3.5	Blind Arcs:	-				
					Visibility: 8	Internal Fuel:	565				
					Size: -1	AtA Refuel:	No				
					Vulnerability: -2	Ejection Seat:	Early				

Speeds and Ceilings						Climb Capabilities							
Alt. Band	Conf. Ceil.	CL 40	1/2 36	DT 32	Dive Speed	CL AB	1/2 AB	DT AB		CL Oth	1/2 Oth	DT Oth	
EH+	46+	—	—	—	—	—	—	—	—	—	—	—	EH+
VH	36–45	3.0 – 5.0	3.0 – 4.5	—	6.0	—	0.5	—	0.5	—	—	—	VH
HI	26–35	2.5 – 5.0	3.0 – 5.0	3.0 – 5.0	6.0	—	0.5	—	0.5	—	—	0.5	HI
MH	17–25	2.5 – 5.5	2.5 – 5.5	3.0 – 5.0	6.0	—	0.5	—	0.5	—	—	0.5	MH
ML	8–16	2.0 – 5.0	2.5 – 5.0	2.5 – 4.5	6.0	—	0.5	—	0.5	—	—	0.5	ML
LO	0–7	2.0 – 4.5	2.0 – 4.5	2.0 – 4.5	6.0	—	1.0	—	1.0	—	—	0.5	LO

Il-28N					Crew: Pilot, Bombardier, and Gunner					
					Maneuver DPs:					
Power APs/DPs: ○○					LR/DR —					
AB CL 1/2 DT Fuel					VR —					
AB	—	—	—	—	Turn DPs:					
M	1.0	1.0	0.5	2.0	CL 1/2 DT					
N	0.0	0.0	0.0	1.0	TT	0.5	1.0	1.0		
I	1.0	1.0	1.0	0.0	HT	1.0	1.5	1.5		
SPBR	1.0	1.0	1.0	—	BT	—	—	—		
Cruise Spd. CL: 4.5 Restr. Arcs: -					ET	—	—	—		
Climb Spd.: 3.5 Blind Arcs: -					No rolling maneuvers allowed.					
Visibility: 8 Internal Fuel: 615										
Size: -1 AtA Refuel: No										
Vulnerability: -2 Ejection Seat: Early										
Speeds and Ceilings										
Alt. Band	Conf. Ceil.	CL 40	1/2 36	DT 32	Dive Speed	CL AB Oth	1/2 AB Oth	DT AB Oth		
EH+	46+	—	—	—	—	— —	— —	— —	EH+	
VH	36–45	3.0 – 5.0	3.0 – 4.5	—	6.0	— 0.5	— 0.5	— —	VH	
HI	26–35	2.5 – 5.0	3.0 – 5.0	3.0 – 5.0	6.0	— 0.5	— 0.5	— 0.5	HI	
MH	17–25	2.5 – 5.5	2.5 – 5.5	3.0 – 5.0	6.0	— 0.5	— 0.5	— 0.5	MH	
ML	8–16	2.0 – 5.0	2.5 – 5.0	2.5 – 4.5	6.0	— 0.5	— 0.5	— 0.5	ML	
LO	0–7	2.0 – 4.5	2.0 – 4.5	2.0 – 4.5	6.0	— 1.0	— 1.0	— 0.5	LO	
Radar: PSB-N				ECM: IFF	Weapon Stations Diagram:					
ECCM:	0	RWR:	A	DDS:						
Arcs:	180+	DJM:	—	AJM:						
Search:	Gr. Nav. (90)	BJM:	—							
Track:	Gr. Attack (45)									
Lock-On:	6									
Guns: Two 23 mm NR-23				Technology:	Load Point Limits: CL : < 5 1/2: < 9					
To Hit:	3/2/1						Weight Limit: 6,600 DT : ≥ 9			
Ammunition:	6.0									
Gunsight:	TT+1/HT+2						Station Limit Allowed Loads			
Ranging:	—						1	6,600		
AtA/AtG:	4/3									
Bomb System: Manual				Load Notes:						
Notes:				1. The Ilyushin Il-28N is a tactical nuclear bomber. It is a development of the Il-28 medium bomber. The NATO reporting name for the aircraft is Beagle. 2. High transonic drag (HTD). Low roll rate (LRR). 3. Bomb system is ballistic (-1) if doing level bombing from four or more altitude levels above the target. 4. Articulated Guns. In addition to its fixed guns, the aircraft has a tail mount with two 23 mm NR-23 guns that can fire into the 60° arc. These guns may return fire twice per game turn in response to gun attacks or conduct one attack. The hit rolls are 3/2/1 and no modifiers apply except target size. The AtA damage rating is 4. The ammunition is 6.0. 5. The tail gunner does not have an ejection seat and can only bail out. 6. RWR from 1960.					1. Station 1 is the internal bomb bay. It may only carry one RDS-4 nuclear bomb (weight 2650 and load 4.5). 2. Internal fuel includes two fixed 350L wing-tip fuel tanks. As an exception to the normal rules for load points, internal fuel above 565 fuel points contributes 1 load point for each 50 fuel points.	
VPs: 12/8/4/2								v3 0000000 0000-00-00T00:00:00		

Il-28REB					Crew: Pilot, EW Officer, and Gunner										
					Maneuver DPs:										
Power APs/DPs: ○○ CL 1/2 DT Fuel AB — — — — M 1.0 1.0 0.5 2.0 N 0.0 0.0 0.0 1.0 I 1.0 1.0 1.0 0.0 SPBR 1.0 1.0 1.0 —					LR/DR — VR —										
Cruise Spd. CL: 4.5 Restr. Arcs: - Climb Spd.: 3.5 Blind Arcs: - Visibility: 8 Internal Fuel: 565 Size: -1 AtA Refuel: No Vulnerability: -2 Ejection Seat: Early					Turn DPs: CL 1/2 DT TT 0.5 1.0 1.0 HT 1.0 1.5 1.5 BT — — — ET — — —										
					No rolling maneuvers allowed.										
Speeds and Ceilings					Climb Capabilities										
Alt. Band	Conf. Ceil.	CL 40	1/2 36	DT 32	Dive Speed	CL AB Oth	1/2 AB Oth	DT AB Oth							
EH+	46+	—	—	—	—	— —	— —	— —	EH+						
VH	36–45	3.0 – 5.0	3.0 – 4.5	—	6.0	— 0.5	— 0.5	— —	VH						
HI	26–35	2.5 – 5.0	3.0 – 5.0	3.0 – 5.0	6.0	— 0.5	— 0.5	— 0.5	HI						
MH	17–25	2.5 – 5.5	2.5 – 5.5	3.0 – 5.0	6.0	— 0.5	— 0.5	— 0.5	MH						
ML	8–16	2.0 – 5.0	2.5 – 5.0	2.5 – 4.5	6.0	— 0.5	— 0.5	— 0.5	ML						
LO	0–7	2.0 – 4.5	2.0 – 4.5	2.0 – 4.5	6.0	— 1.0	— 1.0	— 0.5	LO						
Radar: PSB-N		ECM: IFF	Weapon Stations Diagram:												
ECCM:	0	RWR: A													
Arcs:	180+	DDS: —													
Search:	Gr. Nav. (90)	DJM: —													
Track:	Gr. Attack (45)	AJM: A4													
Lock-On:	6	BJM: A2													
Guns: Two 23 mm NR-23		Technology: None		Load Point Limits: CL : < 5 1/2: < 9											
To Hit:	3/2/1			Weight Limit: 0 DT : ≥ 9											
Ammunition:	6.0			Station 1 Limit 0 Allowed Loads											
Gunsight:	TT+1/HT+2			Load Notes: <ol style="list-style-type: none"> 1. Station 1 is the internal bomb bay. It cannot be used to carry stores. 2. Internal fuel includes two fixed 350L wing-tip fuel tanks. As an exception to the normal rules for load points, internal fuel above 565 fuel points contributes 1 load point for each 50 fuel points. 											
Ranging:	—														
AtA/AtG:	4/3														
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VPs: 16/11/5/3								v3 0000000 0000-00-00T00:00:00							