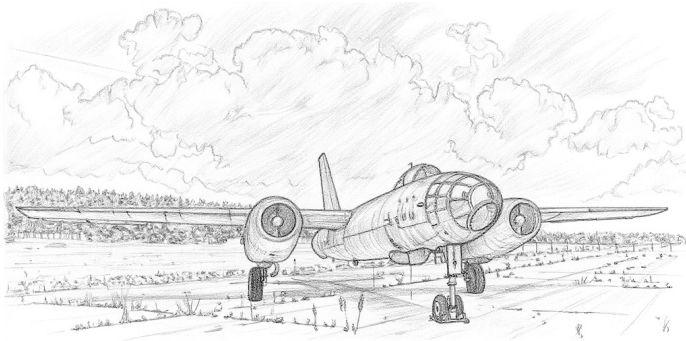


# Ilyushin Il-28



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)

<div>Il-28</div>										Crew: Pilot, Bombardier, and Gunner				
										Maneuver DPs:				
LR/DR —														
VR —														
Turn DPs:														
Power APs/DPs: ○○					CL 1/2 DT									
					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					Cruise Spd. CL: 4.5 Restr. Arcs: -									
SPBR 1.0 1.0 1.0 —					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					ECM: IFF					Weapon Stations Diagram:				
ECCM: 0					RWR: A									
Arcs: 180+					DDS: —									
Search: Gr. Nav. (90)					DJM: —									
Track: Gr. Attack (45)					AJM: —									
Lock-On: 6					BJM: —									
Guns: Two 23 mm NR-23					Technology:					Load Point Limits:				
To Hit: 3/2/1					None					CL : < 5				
Ammunition: 6.0										1/2: < 9				
Gunsight: TT+1/HT+2										Weight Limit: 6,600				
Ranging: —										DT : ≥ 9				
AtA/AtG: 4/3										Station Limit Allowed Loads				
Bomb System: Manual										1 6,600 BB				
Notes:										Load Notes:				
1. The Ilyushin Il-28 is a medium bomber. The NATO reporting name for the aircraft is Beagle.										1. Station 1 is the internal bomb bay. Load options are: (a) one FAB-3000 6,600 lb bomb, (b) one FAB-1000 2,200 lb bomb, (c) four FAB-500 1,100 lb bombs, (d) eight FAB-250 550 lb bombs, or (e) twelve FAB-100 225 lb bombs. All bombs carried must be low-drag.				
2. High transonic drag (HTD). Low roll rate (LRR).										2. As an exception to the normal rules for load points, internal loads contribute 1 load point for each 1,000 of weight.				
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.														
										VPs: 12/8/4/2				
										v3 0000000 0000-00-00T00:00:00				

IL-28R					<div>Crew: Pilot, Observer, and Gunner</div> <div>Maneuver DPs:</div> <div>LR/DR — VR —</div> <div>Turn DPs:</div> <div>CL1/2DT</div> <div>TT0.51.01.0</div> <div>HT1.01.51.5</div> <div>BT— — —</div> <div>ET— — —</div> <div>No rolling maneuvers allowed.</div>						
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	—							
					Cruise Spd. CL: 4.5    Restr. Arcs: -						
					Climb Spd.: 3.5    Blind Arcs: -						
					Visibility: 8    Internal Fuel: 765						
					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 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: —						
Lock-On: 6					BJM: —						
Guns: One 23 mm NR-23					Technology: None		Load Point Limits: CL : < 3				
To Hit: 3/2/1							1/2: < 7				
Ammunition: 6.0							Weight Limit: 0 DT : ≥ 7				
Gunsight: TT+1/HT+2							Station Limit Allowed Loads				
Ranging: —							1 0				
AtA/AtG: 3/2					Load Notes:						
Bomb System: Manual					1. Station 1 is the internal bomb bay. These guns may only carry twelve parachute illumination flares.						
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.					2. Internal fuel includes two fixed 350L wing-tip fuel tanks and larger fuselage 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-28T					<div>Crew: Pilot, Bombardier, and Gunner</div> <div>Maneuver DPs:</div> <div>LR/DR — VR —</div> <div>Turn DPs:</div> <div>CL1/2DT</div> <div>TT0.51.01.0</div> <div>HT1.01.51.5</div> <div>BT — — —</div> <div>ET — — —</div> <div>No rolling maneuvers allowed.</div>											
										<div>Power APs/DPs: ○○</div> <div>CL1/2DTFuel</div> <div>AB — — — —</div> <div>M1.01.00.52.0</div> <div>N0.00.00.01.0</div> <div>I1.01.01.00.0</div> <div>SPBR1.01.01.0 —</div>						
<div>Cruise Spd. CL: 4.5</div> <div>Restr. Arcs: -</div> <div>Climb Spd.: 3.5</div> <div>Blind Arcs: -</div> <div>Visibility: 8</div> <div>Internal Fuel: 565</div> <div>Size: -1</div> <div>AtA Refuel: No</div> <div>Vulnerability: -2</div> <div>Ejection Seat: Early</div>																
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:		—				
Lock-On:		6	BJM:		—				
Guns:		One 23 mm NR-23	Technology:			Load Point Limits:		CL : < 3	
To Hit:		3/2/1	None			Weight Limit:		1/2: < 7	
Ammunition:		6.0						DT : ≥ 7	
Gunsight:		TT+1/HT+2				Station		Limit	Allowed Loads
Ranging:		—				1		6,600	BB MN TT TR
AtA/AtG:		3/2				Load Notes:			
Bomb System:		Manual				1. Station 1 is the internal bomb bay. Load options are: (a) one FAB-3000 6,600 lb bomb, (b) one FAB-1000 2,200 lb bomb, (c) four FAB-500 1,100 lb bombs, (d) eight FAB-250 550 lb bombs, (e) twelve FAB-100 225 lb bombs, (f) naval mines, (g) one Type 45 torpedoes, or (h) two RAT-52 rocket torpedo. All bombs carried must be low-drag.			
Notes: 1. The Ilyushin IL-28T is a torpedo 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. 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. RWR from 1960.						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			

<i>IL-28N</i>										Crew: Pilot, Bombardier, and Gunner				
										Maneuver DPs: LR/DR — VR —				
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 —										Turn DPs:  CL 1/2 DT TT 0.5 1.0 1.0 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: 615				
										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	

<b>Radar:</b> PSB-N ECCM: 0 Arcs: 180+ Search: Gr. Nav. (90) Track: Gr. Attack (45) Lock-On: 6	<b>ECM:</b> IFF RWR: A DDS: — DJM: — AJM: — BJM: —	<b>Weapon Stations Diagram:</b>						
<b>Guns:</b> Two 23 mm NR-23 To Hit: 3/2/1 Ammunition: 6.0 Gunsight: TT+1/HT+2 Ranging: — AtA/AtG: 4/3	<b>Technology:</b> None	<b>Load Point Limits:</b> CL : < 5 1/2: < 9 <b>Weight Limit:</b> 6,600 DT : ≥ 9						
<b>Bomb System:</b> Manual	<table border="1"> <thead> <tr> <th>Station</th> <th>Limit</th> <th>Allowed Loads</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>6,600</td> <td></td> </tr> </tbody> </table> <p><b>Load Notes:</b></p> <ol style="list-style-type: none"> <li>Station 1 is the internal bomb bay. It may only carry one RDS-4 nuclear bomb (weight 2650 and load 4.5).</li> <li>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.</li> </ol>		Station	Limit	Allowed Loads	1	6,600	
Station	Limit	Allowed Loads						
1	6,600							
<p><b>Notes:</b></p> <ol style="list-style-type: none"> <li>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.</li> <li>High transonic drag (HTD). Low roll rate (LRR).</li> <li>Bomb system is ballistic (–1) if doing level bombing from four or more altitude levels above the target.</li> <li>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.</li> <li>The tail gunner does not have an ejection seat and can only bail out.</li> <li>RWR from 1960.</li> </ol>								
<b>VPs:</b> 12/8/4/2		v3 0000000 0000-00-00T00:00:00						

IL-28REB					<div>Crew: Pilot, EW Officer, and Gunner</div> <div>Maneuver DPs:</div> <div>LR/DR — VR —</div> <div>Turn DPs:</div> <div>CL1/2DT</div> <div>TT0.51.01.0</div> <div>HT1.01.51.5</div> <div>BT— — —</div> <div>ET— — —</div> <div>No rolling maneuvers allowed.</div>						
Power APs/DPs: ○○											
CL1/2DTFuel											
AB— — — —											
M1.01.00.52.0											
N0.00.00.01.0											
I1.01.01.00.0											
SPBR1.01.01.0—											
					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 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		Load Point Limits: CL : < 5 1/2: < 9				
Lock-On: 6					BJM: A2						
Guns: Two 23 mm NR-23					Technology:						
To Hit: 3/2/1					None						
Ammunition: 6.0							Weight Limit: 0    DT : ≥ 9				
Gunsight: TT+1/HT+2							Station Limit Allowed Loads				
Ranging: —							1 0				
AtA/AtG: 4/3							Load Notes:				
Bomb System: Manual							1. Station 1 is the internal bomb bay. It cannot be used to carry stores.				
Notes:							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: 16/11/5/3					v3 0000000 0000-00-00T00:00:00	