

Ilyushin Il-10



The Ilyushin Il-10 was a propeller-driven ground-attack aircraft developed during WWII as a replacement for the famous Il-2 Sturmovik.

Versions

Like its predecessor, the Il-10 featured extensive armor for the crew and engine and a dorsal defensive gun to protect from attacks from the rear.

The initial Il-10 had two 23 mm VYa-23 cannons and two 7.62 mm ShKAS machine guns in the wings, with 150 and 750 rounds each, respectively, plus a 12.7 mm UBT machine gun with 150 rounds protecting the tail. Later versions had four 23 mm NR-23 cannons in the wings and a 20 mm B-20 cannon in the dorsal mount.

The Il-10 was also manufactured under license by Avia in Czechoslovakia.

The Il-10 entered service with the Soviet VVS in 1944 and was retired in 1956. After the war, it served with the Bulgarian Air Force, the Chinese PLAAF (from 1950 to 1972), the Czechoslovak Air Force, the Hungarian Air Force, the Indonesian Air Force (former Polish aircraft), the North Korean KPAF, the Polish Air Force, the Romanian Air Force, and the Yemen Air Force.

Armament and Stores

In addition to its gun armament, a typical weapon load would be four 100 kg bombs, two in the bomb bays and two on the wing stations, or two 250 kg bombs on the wings. Alternatively, the wing stations could carry a total of eight RS-82 or four RS-132 rockets (although apparently these rockets were not used in the Korean War).

Combat

The Il-10 was used by the North Korean KPAF and saw extensive service in the first weeks of the Korean War, before suffering large losses against USAF fighters. It was also used in combat by the PLAAF in 1955 during the First Taiwan Strait Crisis.

ADCs

- Il-10
- Il-10 (Late)

Photo Credit

- Il-10: Flavio Mucia (CC BY 2.0)

| | | | | | | | | | | | | | | | | | |
|--------------------------------------|--|-------|--|-----------|--|--------------------|--|-----------|--|------------------------|--|--------|--|--------|--|-----|--|
| Il-10 | | | | | | | | | | Crew: Pilot and Gunner | | | | | | | |
| | | | | | | | | | | Maneuver DPs: | | | | | | | |
| LR/DR | | 2.5 | | | | | | | | | | | | | | | |
| VR | | 1.5 | | | | | | | | | | | | | | | |
| Power APs/DPs: ☹ | | | | | | | | | | Turn DPs: | | | | | | | |
| CL | | 1/2 | | DT | | Fuel | | CL | | 1/2 | | DT | | | | | |
| FT | | 1.0 | | 1.0 | | 0.5 | | TT | | 0.25 | | 0.25 | | | | | |
| HT | | 0.5 | | 0.5 | | 0.2 | | HT | | 0.25 | | 0.75 | | | | | |
| N | | 0.0 | | 0.0 | | 0.1 | | BT | | 0.75 | | 1.00 | | | | | |
| I | | 1.0 | | 1.0 | | 0.0 | | ET | | — | | — | | | | | |
| SPBR | | — | | — | | — | | | | | | | | | | | |
| If speed ≥ 2.5, reduce power by 0.5. | | | | | Cruise Spd. CL: 2.0 Restr. Arcs: — | | | | | | | | | | | | |
| | | | | | Climb Spd.: 1.5 Blind Arcs: 0L | | | | | | | | | | | | |
| | | | | | Visibility: 6 Internal Fuel: 58 | | | | | | | | | | | | |
| | | | | | Size: +0 AtA Refuel: No | | | | | | | | | | | | |
| | | | | | Vulnerability: +2 Ejection Seat: None | | | | | | | | | | | | |
| Speeds and Ceilings | | | | | | Climb Capabilities | | | | | | | | | | | |
| Alt. Conf. | | CL | | 1/2 | | DT | | Dive | | CL | | 1/2 | | DT | | | |
| Band Ceil. | | 24 | | 19 | | 14 | | Speed | | AB Oth | | AB Oth | | AB Oth | | | |
| EH+ | | 46+ | | — | | — | | — | | — | | — | | — | | EH+ | |
| VH | | 36–45 | | — | | — | | — | | — | | — | | — | | VH | |
| HI | | 26–35 | | — | | — | | — | | — | | — | | — | | HI | |
| MH | | 17–25 | | 1.0 – 2.5 | | 1.5 – 2.0 | | — | | 4.0 | | — 0.25 | | — 0.25 | | MH | |
| ML | | 8–16 | | 1.0 – 3.0 | | 1.5 – 2.5 | | 1.5 – 2.0 | | 4.0 | | — 0.25 | | — 0.25 | | ML | |
| LO | | 0–7 | | 1.0 – 3.0 | | 1.5 – 3.0 | | 1.5 – 2.5 | | 4.0 | | — 0.50 | | — 0.50 | | LO | |

| | | | | | | | | | | | |
|---|--|--|-------------|--|--|--|--|--|--|--|--|
| Radar: — | | | ECM: | | | Weapon Stations Diagram: | | | | | |
| ECCM: — | | | RWR: — | | | | | | | | |
| Arcs: — | | | DDS: — | | | | | | | | |
| Search: — | | | DJM: — | | | | | | | | |
| Track: — | | | AJM: — | | | | | | | | |
| Lock-On: — | | | BJM: — | | | | | | | | |
| Guns: Two 23 mm VYa-23 Two 7.62 mm ShKAS | | | Technology: | | | Load Point Limits: CL : < 2 | | | | | |
| To Hit: 4/2/0 | | | None | | | 1/2: < 4 | | | | | |
| Ammunition: 8.0 | | | | | | Weight Limit: 1,550 DT : ≥ 4 | | | | | |
| Gunsight: TT+0/HT+1/BT+2 | | | | | | Station Limit Allowed Loads | | | | | |
| Ranging: — | | | | | | 1 and 4 550 BB RK | | | | | |
| AtA/AtG: 5/4 | | | | | | 2 and 3 225 BB | | | | | |
| Bomb System: Manual | | | | | | Load Notes: | | | | | |
| | | | | | | 1. Stations 1 and 4 could each be fitted with rails for four RS-82 or two RS-132 rockets, but these were not used in the Korean War. | | | | | |
| | | | | | | 2. Stations 2 and 3 are internal bays in each wing root. | | | | | |
| Notes: | | | | | | | | | | | |
| 1. The Ilyushin Il-10 is a propeller-driven close-support aircraft. The NATO reporting name for the aircraft is Beast. | | | | | | | | | | | |
| 2. High transonic drag (HTD). Low bleed rate (LBR). | | | | | | | | | | | |
| 3. Articulated Gun. In addition to its fixed guns, the aircraft is equipped with one dorsal 12.7 mm UBT gun that can fire into the 60– arc. This gun may return fire twice per game turn in response to gun attacks or conduct one attack. The hit rolls are 2/1/1 and are modified only by the target size. The AtA damage rating is 1. The ammunition is 5.0. | | | | | | | | | | | |
| | | | | | | VPs: 6/4/2/1 | | | | | |
| | | | | | | v3 0000000 0000-00-00T00:00:00 | | | | | |

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|---|-------|-----------|-----------|-----------|---------------------|----|---------------------|--|------|------------------------|------|------|--|--|
| <div>Il-10</div> <div>(Late)</div> | | | | | | | | | | Crew: Pilot and Gunner | | | | |
| | | | | | | | | | | Maneuver DPs: | | | | |
| LR/DR | | 2.5 | | | | | | | | | | | | |
| VR | | 1.5 | | | | | | | | | | | | |
| Power APs/DPs: ☉ | | | | | | | | | | Turn DPs: | | | | |
| CL | 1/2 | DT | Fuel | | Cruise Spd. CL: 2.0 | | Restr. Arcs: — | | CL | 1/2 | DT | | | |
| FT | 1.0 | 1.0 | 1.0 | 0.5 | Climb Spd.: 1.5 | | Blind Arcs: 0L | | TT | 0.25 | 0.25 | 0.25 | | |
| HT | 0.5 | 0.5 | 0.5 | 0.2 | Visibility: 6 | | Internal Fuel: 58 | | HT | 0.25 | 0.75 | 1.00 | | |
| N | 0.0 | 0.0 | 0.0 | 0.1 | Size: +0 | | AtA Refuel: No | | BT | 0.75 | 1.00 | — | | |
| I | 1.0 | 1.0 | 1.0 | 0.0 | Vulnerability: +2 | | Ejection Seat: None | | ET | — | — | — | | |
| SPBR | — | — | — | — | | | | | | | | | | |
| If speed ≥ 2.5, reduce power by 0.5. | | | | | | | | | | | | | | |
| Speeds and Ceilings | | | | | | | Climb Capabilities | | | | | | | |
| Alt. | Conf. | CL | 1/2 | DT | Dive | CL | 1/2 | DT | | | | | | |
| Band | Ceil. | 24 | 19 | 14 | Speed | AB | Oth | AB | Oth | AB | Oth | | | |
| EH+ | 46+ | — | — | — | — | — | — | — | — | — | — | EH+ | | |
| VH | 36–45 | — | — | — | — | — | — | — | — | — | — | VH | | |
| HI | 26–35 | — | — | — | — | — | — | — | — | — | — | HI | | |
| MH | 17–25 | 1.0 – 2.5 | 1.5 – 2.0 | — | 4.0 | — | 0.25 | — | 0.25 | — | — | MH | | |
| ML | 8–16 | 1.0 – 3.0 | 1.5 – 2.5 | 1.5 – 2.0 | 4.0 | — | 0.25 | — | 0.25 | — | 0.25 | ML | | |
| LO | 0–7 | 1.0 – 3.0 | 1.5 – 3.0 | 1.5 – 2.5 | 4.0 | — | 0.50 | — | 0.50 | — | 0.25 | LO | | |
| Radar: — | | | | | ECM: | | | Weapon Stations Diagram: | | | | | | |
| ECCM: — | | | | | RWR: — | | | | | | | | | |
| Arcs: — | | | | | DDS: — | | | | | | | | | |
| Search: — | | | | | DJM: — | | | | | | | | | |
| Track: — | | | | | AJM: — | | | | | | | | | |
| Lock-On: — | | | | | BJM: — | | | | | | | | | |
| Guns: Four 23 mm NS-23 | | | | | Technology: | | | Load Point Limits: CL : < 2 | | | | | | |
| To Hit: 5/3/2 | | | | | None | | | 1/2: < 4 | | | | | | |
| Ammunition: 8.0 | | | | | | | | Weight Limit: 1,550 DT : ≥ 4 | | | | | | |
| Gunsight: TT+0/HT+1/BT+2 | | | | | | | | Station Limit Allowed Loads | | | | | | |
| Ranging: — | | | | | | | | 1 and 4 550 BB RK | | | | | | |
| AtA/AtG: 5/5 | | | | | | | | 2 and 3 225 BB | | | | | | |
| Bomb System: Manual | | | | | | | | Load Notes: | | | | | | |
| Notes: 1. The Ilyushin Il-10 is a propeller-driven close-support aircraft. This late variant has an improved gun armament of four 23 mm NS-23 cannons in the wings and one defensive dorsal 20 mm B-20 cannon. The NATO reporting name for the aircraft is Beast. 2. High transonic drag (HTD). Low bleed rate (LBR). 3. Articulated Gun. In addition to its fixed guns, the aircraft is equipped with one dorsal 20 mm B-20 gun that can fire into the 60– arc. This gun may return fire twice per game turn in response to gun attacks or conduct one attack. The hit rolls are 3/2/1 and are modified only by the target size. The AtA damage rating is 3. The ammunition is 6.0. | | | | | | | | 1. Stations 1 and 4 could each be fitted with rails for four RS-82 or two RS-132 rockets, but these were not used in the Korean War. | | | | | | |
| | | | | | | | | 2. Stations 2 and 3 are internal bays in each wing root. | | | | | | |
| | | | | | VPs: 6/4/2/1 | | | v3 0000000 0000-00-00T00:00:00 | | | | | | |