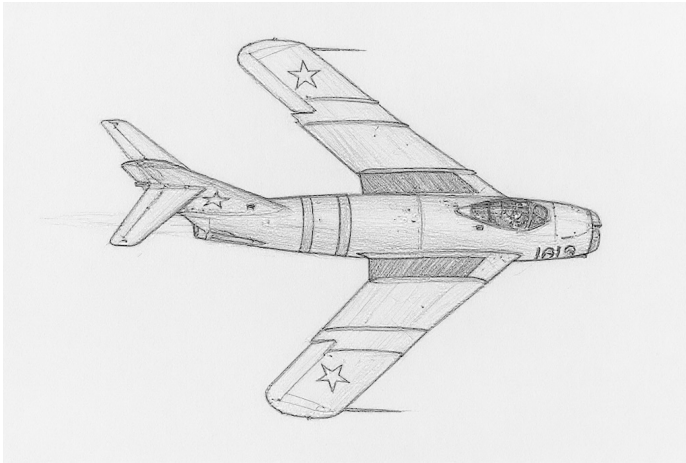


## Shenyang J-5 and F-5



The Shenyang J-5 was a day fighter, interceptor, and trainer. The initial versions were licensed copies of the MiG-17F and PF, but the JJ-5 trainer was a subsequent independent development.

A number of Soviet-built MiG-17s served in the PLAAF as the J.4, but this version was not manufactured in China.

### Versions

#### **J-5 and F-5**

The J-5 (also known as the Type 56 and the Dongfeng-101) was a licensed copy of the MiG-17F day fighter. It was produced from about 1956 until about 1969. The F-5 was the export version of the J-5. The NATO reporting name for both is Fresco-C.

The J-5 served with the PLAAF and PLAN, alongside the original MiG-17PF, from 1956 until about 1990. It was also exported to the air forces of Albania, Bangladesh, Cambodia, Indonesia, North Korea, Pakistan, Sri Lanka, Sudan, Vietnam, and Zambia.

#### **J-5A**

The J-5 was a licensed copy of the MiG-17PF interceptor. It was produced from about 1964 until about 1969. The J-5A was apparently not exported. The NATO reporting name for both is Fresco-D.

The J-5A served with the PLAAF, alongside the original MiG-17PF, from 1964 until about 1990.

#### **JJ-5 and FT-5**

The JJ-5 was a trainer developed by Shenyang and based on the J-5. It has a similar cockpit configuration to the MiG-15UTI, the non-afterburning Klimov VK-1A engine from the early MiG-17, and retained only the belly 23 mm cannon. The FT-5 was the export version of the JJ-5.

The J-5 served with the PLAAF and PLAN from 1968. It was also exported to the air forces of Albania, Bangladesh, North Korea, Pakistan, Sudan, Tanzania, Zambia, and Zimbabwe.

### Armament and Stores

Typical load for an air-to-air mission would be fuel tanks for endurance or, from 1961, two AA-2 IRMs. A typical load for air-to-ground missions was two 250 kg bombs.

### Combat

Chinese J-5s and J-5As saw combat against ROCAF aircraft in the late 1950s and early 1960s. Vietnamese F-5s (alongside original MiG-17Fs) were used by the VNAF during and after the Vietnam War.

### ADCs

- Shenyang J-5
- Shenyang F-5
- Shenyang J-5A
- Shenyang JJ-5
- Shenyang FT-5

### See Also

- Mikoyan-Gurevich MiG-17

### Photo Credit

- MiG-17: Balon Greyjoy (Public Domain)

Shenyang J-5										Crew: Pilot																			
										Maneuver HFPs/DPs:																			
LR/DR		1.0		1.5																									
VR				0.5																									
Power APs/DPs/FPs: ○										Turn DPs:																			
CL		1/2		DT		Fuel		CL		1/2		DT																	
AB		2.5		2.0		3.0		TT		0.0		1.0																	
M		1.5		1.0		1.0		HT		1.0		1.0																	
N		0.0		0.0		0.5		BT		2.0		3.0																	
I		0.5		1.0		0.0		ET		3.0		—																	
SPBR		0.5		1.0		—		No lag or displacement rolls if speed ≥ 5.0.																					
					Cruise Speed: 4.5					Restr. Arcs: 180L																			
					Climb Speed: 3.5					Blind Arcs: 30–																			
					Visibility: 4					Internal Fuel: 130																			
					Size: +1					AtA Refuel: No																			
					Vulnerability: +1					Ejection Seat: Early																			
Speeds and Ceilings										Climb Capabilities																			
Alt. Band		Conf. Ceil.		CL 54		1/2 50		DT 46		Dive Speed		CL AB Oth		1/2 AB Oth		DT AB Oth		Alt. Band											
EH+		46+		3.0 – 6.0		3.0 – 5.5		3.5 – 5.0		6.5		1.0 0.5		1.0 0.5		1.0 0.5		EH+											
VH		36–45		2.5 – 6.0		3.0 – 5.5		3.0 – 5.0		6.5		1.0 0.5		1.0 0.5		1.0 0.5		VH											
HI		26–35		2.0 – 6.0		2.5 – 6.0		2.5 – 5.5		7.0		1.5 0.5		1.0 0.5		1.0 0.5		HI											
MH		17–25		1.5 – 6.5		2.0 – 6.0		2.0 – 5.5		7.0		1.5 1.0		1.5 0.5		1.0 0.5		MH											
ML		8–16		1.0 – 7.0		1.5 – 6.5		1.5 – 5.5		7.5		2.0 1.0		1.5 1.0		1.5 0.5		ML											
LO		0–7		1.0 – 6.5		1.5 – 6.0		1.5 – 5.5		7.5		2.0 1.0		2.0 1.0		1.5 1.0		LO											
Radar:					—					ECM:					IFF					Weapon Stations Diagram:									
ECCM:					—					RWR:					—														
Arcs:					—					DDS:					—														
Search:					—					DJM:					—														
Track:					—					AJM:					—														
Lock-On:					—					BJM:					—														
Guns:					Two 23 mm NR-23 One 37 mm N-37					Technology:					None					Load Point Limits:					CL : 0–2				
To Hit:					4/2/1										Weight Limit:					2,500					DT : 5+				
Ammunition:					3.0										Station					Limit					Allowed Loads				
Gunsight:					TT+0/HT+2/BT+3										1 and 2					700					BB RK RP FT IRM				
Ranging:					—										Load Notes:														
AtA/AtG:					5/4																								
Bomb System:					Manual					Notes: 1. The Shenyang J-5 is a day fighter. It is licensed version of the MiG-17F. The NATO reporting name for the aircraft is Fresco-C. 2. High transonic drag (HTD). Low roll rate (LRR) if speed ≥ 4.0.					1. May use 250L, 300L, 400L, or 600L FTs. As an exception to the normal rules for load limits, 600L tanks can be carried, but the turn rate is limited to BT. 2. From 1961, may use AA-2 IRMs.														
VPs: 11/7/4/2										v1 0000000 0000-00-00T00:00:00																			

Shenyang F-5										Crew: Pilot																			
										Maneuver HFPs/DPs:																			
LR/DR		1.0		1.5																									
VR				0.5																									
Power APs/DPs/FPs: ○										Turn DPs:																			
CL		1/2		DT		Fuel		CL		1/2		DT																	
AB		2.5		2.0		3.0		TT		0.0		1.0																	
M		1.5		1.0		1.0		HT		1.0		1.0																	
N		0.0		0.0		0.5		BT		2.0		3.0																	
I		0.5		1.0		0.0		ET		3.0		—																	
SPBR		0.5		1.0		—		No lag or displacement rolls if speed ≥ 5.0.																					
					Cruise Speed: 4.5					Restr. Arcs: 180L																			
					Climb Speed: 3.5					Blind Arcs: 30–																			
					Visibility: 4					Internal Fuel: 130																			
					Size: +1					AtA Refuel: No																			
					Vulnerability: +1					Ejection Seat: Early																			
Speeds and Ceilings										Climb Capabilities																			
Alt. Band		Conf. Ceil.		CL 54		1/2 50		DT 46		Dive Speed		CL AB Oth		1/2 AB Oth		DT AB Oth		Alt. Band											
EH+		46+		3.0 – 6.0		3.0 – 5.5		3.5 – 5.0		6.5		1.0 0.5		1.0 0.5		1.0 0.5		EH+											
VH		36–45		2.5 – 6.0		3.0 – 5.5		3.0 – 5.0		6.5		1.0 0.5		1.0 0.5		1.0 0.5		VH											
HI		26–35		2.0 – 6.0		2.5 – 6.0		2.5 – 5.5		7.0		1.5 0.5		1.0 0.5		1.0 0.5		HI											
MH		17–25		1.5 – 6.5		2.0 – 6.0		2.0 – 5.5		7.0		1.5 1.0		1.5 0.5		1.0 0.5		MH											
ML		8–16		1.0 – 7.0		1.5 – 6.5		1.5 – 5.5		7.5		2.0 1.0		1.5 1.0		1.5 0.5		ML											
LO		0–7		1.0 – 6.5		1.5 – 6.0		1.5 – 5.5		7.5		2.0 1.0		2.0 1.0		1.5 1.0		LO											
Radar:					—					ECM:					IFF					Weapon Stations Diagram:									
ECCM:					—					RWR:					—														
Arcs:					—					DDS:					—														
Search:					—					DJM:					—														
Track:					—					AJM:					—														
Lock-On:					—					BJM:					—														
Guns:					Two 23 mm NR-23 One 37 mm N-37					Technology:					None					Load Point Limits:					CL : 0–2				
To Hit:					4/2/1										Weight Limit:					2,500					DT : 5+				
Ammunition:					3.0										Station					Limit					Allowed Loads				
Gunsight:					TT+0/HT+2/BT+3										1 and 2					700					BB RK RP FT IRM				
Ranging:					—										Load Notes:														
AtA/AtG:					5/4																								
Bomb System:					Manual					Notes: 1. The Shenyang F-5 is a day fighter. It is the export version of the Shenyang J-5 and is a licensed version of the MiG-17F. The NATO reporting name for the aircraft is Fresco-C. 2. High transonic drag (HTD). Low roll rate (LRR) if speed ≥ 4.0.					1. May use 250L, 300L, 400L, or 600L FTs. As an exception to the normal rules for load limits, 600L tanks can be carried, but the turn rate is limited to BT. 2. From 1961, may use AA-2 IRMs.														
VPs: 11/7/4/2										v1 0000000 0000-00-00T00:00:00																			

Shenyang J-5A										Crew: Pilot									
										Maneuver HFPs/DPs:									
LR/DR		1.0		1.5															
VR				0.5															
Power APs/DPs/FPs: ○										Turn DPs:									
CL		1/2		DT		Fuel		CL		1/2		DT							
AB		2.5		2.0		3.0		TT		0.0		1.0							
M		1.5		1.0		1.0		HT		1.0		1.0							
N		0.0		0.0		0.5		BT		2.0		3.0							
I		0.5		1.0		0.0		ET		3.0		—							
SPBR		0.5		1.0		—		No lag or displacement rolls if speed ≥ 5.0.											
Cruise Speed: 4.5					Restr. Arcs: 180L														
Climb Speed: 3.5					Blind Arcs: 30–														
Visibility: 4					Internal Fuel: 130														
Size: +1					AtA Refuel: No														
Vulnerability: +1					Ejection Seat: Early														
Speeds and Ceilings						Climb Capabilities													
Alt. Band		Conf. Ceil.		CL 54		1/2 50		DT 46		Dive Speed		CL AB Oth		1/2 AB Oth		DT AB Oth		Alt. Band	
EH+		46+		3.0 – 6.0		3.0 – 5.5		3.5 – 5.0		6.5		1.0 0.5		1.0 0.5		1.0 0.5		EH+	
VH		36–45		2.5 – 6.0		3.0 – 5.5		3.0 – 5.0		6.5		1.0 0.5		1.0 0.5		1.0 0.5		VH	
HI		26–35		2.0 – 6.0		2.5 – 6.0		2.5 – 5.5		7.0		1.5 0.5		1.0 0.5		1.0 0.5		HI	
MH		17–25		1.5 – 6.5		2.0 – 6.0		2.0 – 5.5		7.0		1.5 1.0		1.5 0.5		1.0 0.5		MH	
ML		8–16		1.0 – 7.0		1.5 – 6.5		1.5 – 5.5		7.5		2.0 1.0		1.5 1.0		1.5 0.5		ML	
LO		0–7		1.0 – 6.5		1.5 – 6.0		1.5 – 5.5		7.5		2.0 1.0		2.0 1.0		1.5 1.0		LO	
Radar: RP-1 Izumrud					ECM: IFF					Weapon Stations Diagram:									
ECCM: 0					RWR: —														
Arcs: Limited					DDS: —														
Search: 18–6					DJM: —														
Track: 6–6					AJM: —														
Lock-On: 6					BJM: —					Load Point Limits: CL : 0–2 1/2: 3–4 Weight Limit: 2,500 DT : 5+									
Guns: Three 23 mm NR-23					Technology:														
To Hit: 5/3/2					None														
Ammunition: 3.0																			
Gunsight: TT+0/HT+2/BT+3																			
Ranging: RE										Station Limit Allowed Loads									
AtA/AtG: 5/5										1 and 2 700 BB RK RP FT IRM									
Bomb System: Manual										Load Notes:									
Notes: 1. The Shenyang J-5A is an interceptor. It is a licensed version of the MiG-17PF. The NATO reporting name for the aircraft is Fresco-D and for the radar is Scan Odd. 2. High transonic drag (HTD). Low roll rate (LRR) if speed ≥ 4.0.										1. May use 250L, 300L, 400L, or 600L FTs. As an exception to the normal rules for load limits, 600L tanks can be carried, but the turn rate is limited to BT.									
										2. From 1961, may use AA-2 IRMs.									
										VPs: 12/8/4/2									
										v1 0000000 0000-00-00T00:00:00									

Shenyang JJ-5										Crew: Pilot and Observer											
										Maneuver HFPs/DPs:											
LR/DR		1.0		1.5																	
VR				0.5																	
Power APs/DPs/FPs: ○										Turn DPs:											
CL		1/2		DT		Fuel		CL		1/2		DT									
AB		—		—		—		TT		0.0		0.0		1.0							
M		1.5		1.5		1.0		HT		1.0		1.0		1.0							
N		0.0		0.0		0.0		BT		2.0		2.0		3.0							
I		0.5		0.5		1.0		ET		3.0		3.0		—							
SPBR		0.5		0.5		1.0															
					Cruise Speed: 4.5    Restr. Arcs: 180L					No lag or displacement rolls if speed ≥ 5.0.											
					Climb Speed: 3.5    Blind Arcs: 30–																
					Visibility: 4    Internal Fuel: 130																
					Size: +1    AtA Refuel: No																
					Vulnerability: +1    Ejection Seat: Early																
Speeds and Ceilings										Climb Capabilities											
Alt. Band		Conf. Ceil.		CL 54		1/2 50		DT 46		Dive Speed		CL AB Oth		1/2 AB Oth		DT AB Oth		Alt. Band			
EH+		46+		3.0 – 6.0		3.0 – 5.5		3.5 – 5.0		6.5		— 0.5		— 0.5		— 0.5		EH+			
VH		36–45		2.5 – 6.0		3.0 – 5.5		3.0 – 5.0		6.5		— 0.5		— 0.5		— 0.5		VH			
HI		26–35		2.0 – 6.0		2.5 – 6.0		2.5 – 5.5		7.0		— 0.5		— 0.5		— 0.5		HI			
MH		17–25		1.5 – 6.5		2.0 – 6.0		2.0 – 5.5		7.0		— 1.0		— 0.5		— 0.5		MH			
ML		8–16		1.0 – 7.0		1.5 – 6.5		1.5 – 5.5		7.5		— 1.0		— 1.0		— 0.5		ML			
LO		0–7		1.0 – 6.5		1.5 – 6.0		1.5 – 5.5		7.5		— 1.0		— 1.0		— 1.0		LO			
Radar:					—		ECM:			IFF		Weapon Stations Diagram:									
ECCM:					—		RWR:			—											
Arcs:					—		DDS:			—											
Search:					—		DJM:			—											
Track:					—		AJM:			—											
Lock-On:					—		BJM:			—											
Guns:					One 23 mm NR-23			Technology:			Load Point Limits: CL : 0–2										
To Hit:					4/2/1			None													Weight Limit: 2,500 DT : 5+
Ammunition:					3.0						Station Limit Allowed Loads 1 and 2 700 BB RK RP FT IRM										
Gunsight:					TT+0/HT+2/BT+3																
Ranging:					—																
AtA/AtG:					3/2																
Bomb System:					Manual						Load Notes: 1. May use 250L, 300L, 400L, or 600L FTs. As an exception to the normal rules for load limits, 600L tanks can be carried, but the turn rate is limited to BT. 2. From 1961, may use AA-2 IRMs.										
Notes:																					
1. The Shenyang JJ-5 is a trainer. It is a development of the J-5, with a similar cockpit configure to the MiG-15UTI, the non-afterburning Klimov VK-1A engine from the early MiG-17, and retained only the belly 23 mm cannon.																					
2. High transonic drag (HTD). Low roll rate (LRR) if speed ≥ 4.0.																					
VPs: 11/7/4/2										v1.0000000 0000-00-00T00:00:00											

Shenyang FT-5										Crew: Pilot and Observer									
										Maneuver HFPs/DPs:									
LR/DR		1.0		1.5															
VR				0.5															
Power APs/DPs/FPs: ○										Turn DPs:									
CL		1/2		DT		Fuel		CL		1/2		DT							
AB		—		—		—		TT		0.0		0.0		1.0					
M		1.5		1.5		1.0		HT		1.0		1.0		1.0					
N		0.0		0.0		0.0		BT		2.0		2.0		3.0					
I		0.5		0.5		1.0		ET		3.0		3.0		—					
SPBR		0.5		0.5		1.0													
					Cruise Speed: 4.5    Restr. Arcs: 180L					No lag or displacement rolls if speed ≥ 5.0.									
					Climb Speed: 3.5    Blind Arcs: 30–														
					Visibility: 4    Internal Fuel: 130														
					Size: +1    AtA Refuel: No														
					Vulnerability: +1    Ejection Seat: Early														
Speeds and Ceilings										Climb Capabilities									
Alt. Band		Conf. Ceil.		CL 54		1/2 50		DT 46		Dive Speed		CL AB Oth		1/2 AB Oth		DT AB Oth		Alt. Band	
EH+		46+		3.0 – 6.0		3.0 – 5.5		3.5 – 5.0		6.5		— 0.5		— 0.5		— 0.5		EH+	
VH		36–45		2.5 – 6.0		3.0 – 5.5		3.0 – 5.0		6.5		— 0.5		— 0.5		— 0.5		VH	
HI		26–35		2.0 – 6.0		2.5 – 6.0		2.5 – 5.5		7.0		— 0.5		— 0.5		— 0.5		HI	
MH		17–25		1.5 – 6.5		2.0 – 6.0		2.0 – 5.5		7.0		— 1.0		— 0.5		— 0.5		MH	
ML		8–16		1.0 – 7.0		1.5 – 6.5		1.5 – 5.5		7.5		— 1.0		— 1.0		— 0.5		ML	
LO		0–7		1.0 – 6.5		1.5 – 6.0		1.5 – 5.5		7.5		— 1.0		— 1.0		— 1.0		LO	
Radar: —					ECM: IFF					Weapon Stations Diagram:									
ECCM: —					RWR: —														
Arcs: —					DDS: —														
Search: —					DJM: —														
Track: —					AJM: —														
Lock-On: —					BJM: —														
Guns: One 23 mm NR-23					Technology:					Load Point Limits: CL : 0–2									
To Hit: 4/2/1					None					1/2: 3–4									
Ammunition: 3.0										Weight Limit: 2,500 DT : 5+									
Gunsight: TT+0/HT+2/BT+3										Station Limit Allowed Loads									
Ranging: —										1 and 2 700 BB RK RP FT IRM									
AtA/AtG: 3/2										Load Notes:									
Bomb System: Manual										1. May use 250L, 300L, 400L, or 600L FTs. As an exception to the normal rules for load limits, 600L tanks can be carried, but the turn rate is limited to BT.									
Notes: 1. The Shenyang FT-5 is a trainer. It is a development of the J-5, with a similar cockpit configure to the MiG-15UTI, the non-afterburning Klimov VK-1A engine from the early MiG-17, and retained only the belly 23 mm cannon. It is the export version of the JJ-5. 2. High transonic drag (HTD). Low roll rate (LRR) if speed ≥ 4.0.					2. From 1961, may use AA-2 IRMs.														
VPs: 11/7/4/2										v1 0000000 0000-00-00T00:00:00									