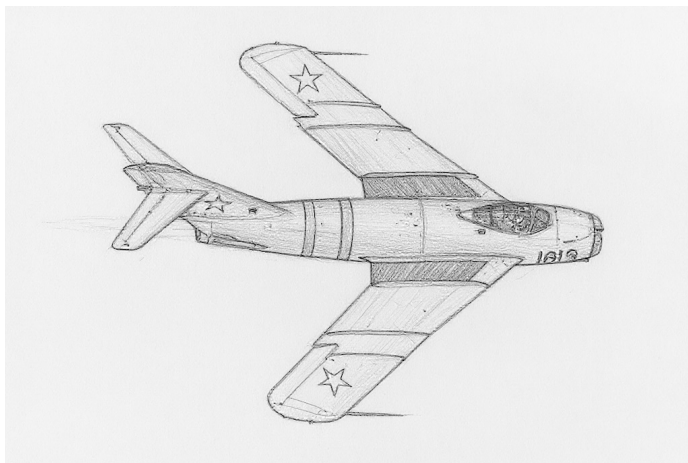


## Shenyang J-5 and F-5



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: ○										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		1.0		2.0		0.0		ET		3.0		—			
SPBR		1.0		2.0		—		No lag or displacement rolls if speed ≥ 5.0.							
Cruise Spd. CL: 4.5					Restr. Arcs: 180L										
Climb Spd.: 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. Conf.		CL		1/2		DT		Dive		CL		1/2		DT	
Band Ceil.		54		50		46		Speed		AB Oth		AB Oth		AB Oth	
EH+		46+		3.0 – 6.0		3.0 – 5.5		3.5 – 5.0		6.5		1.0 0.5		1.0 0.5	
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	
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	
MH		17–25		1.5 – 6.5		2.0 – 6.0		2.0 – 5.5		7.0		1.5 1.0		1.0 0.5	
ML		8–16		1.0 – 7.0		1.5 – 6.5		1.5 – 5.5		7.5		2.0 1.0		1.5 0.5	
LO		0–7		1.0 – 6.5		1.5 – 6.0		1.5 – 5.5		7.5		2.0 1.0		1.5 1.0	
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:			
To Hit:				4/2/1								CL : 0–2			
Ammunition:				3.0								1/2: 3–4			
Gunsight:				TT+0/HT+2/BT+3								Weight Limit: 2,500 DT : 5+			
Ranging:				—								Station Limit Allowed Loads			
AtA/AtG:				5/4								1 and 2 700 BB RK RP FT IRM			
Bomb System:				Manual								Load Notes:			
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.			

Shenyang F-5										Crew: Pilot					
										Maneuver HFPs/DPs:					
LR/DR		1.0		1.5											
VR				0.5											
Power APs/DPs: ○										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		1.0		2.0		0.0		ET		3.0		—			
SPBR		1.0		2.0		—		No lag or displacement rolls if speed ≥ 5.0.							
Cruise Spd. CL: 4.5					Restr. Arcs: 180L										
Climb Spd.: 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. Conf.		CL		1/2		DT		Dive		CL		1/2		DT	
Band Ceil.		54		50		46		Speed		AB Oth		AB Oth		AB Oth	
EH+		46+		3.0 – 6.0		3.0 – 5.5		3.5 – 5.0		6.5		1.0 0.5		1.0 0.5	
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	
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	
MH		17–25		1.5 – 6.5		2.0 – 6.0		2.0 – 5.5		7.0		1.5 1.0		1.0 0.5	
ML		8–16		1.0 – 7.0		1.5 – 6.5		1.5 – 5.5		7.5		2.0 1.0		1.5 0.5	
LO		0–7		1.0 – 6.5		1.5 – 6.0		1.5 – 5.5		7.5		2.0 1.0		1.5 1.0	
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:			
To Hit:				4/2/1								CL : 0–2			
Ammunition:				3.0								1/2: 3–4			
Gunsight:				TT+0/HT+2/BT+3								Weight Limit: 2,500			
Ranging:				—								DT : 5+			
AtA/AtG:				5/4								Station Limit Allowed Loads			
Bomb System:				Manual								1 and 2 700 BB RK RP FT IRM			
Notes:												Load 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.												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. 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			
												v2 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: ○										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		1.0		2.0		0.0		ET		3.0		—			
SPBR		1.0		2.0		—		No lag or displacement rolls if speed ≥ 5.0.							
Cruise Spd. CL: 4.5					Restr. Arcs: 180L										
Climb Spd.: 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. Conf.		CL		1/2		DT		Dive		CL		1/2		DT	
Band Ceil.		54		50		46		Speed		AB Oth		AB Oth		AB Oth	
EH+		46+		3.0 – 6.0		3.0 – 5.5		3.5 – 5.0		6.5		1.0 0.5		1.0 0.5	
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	
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	
MH		17–25		1.5 – 6.5		2.0 – 6.0		2.0 – 5.5		7.0		1.5 1.0		1.0 0.5	
ML		8–16		1.0 – 7.0		1.5 – 6.5		1.5 – 5.5		7.5		2.0 1.0		1.5 0.5	
LO		0–7		1.0 – 6.5		1.5 – 6.0		1.5 – 5.5		7.5		2.0 1.0		1.5 1.0	
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: —										
Guns: Three 23 mm NR-23					Technology:					Load Point Limits:					
To Hit: 5/3/2					None					CL : 0–2					
Ammunition: 3.0										1/2: 3–4					
Gunsight: TT+0/HT+2/BT+3										Weight Limit: 2,500 DT : 5+					
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					v2 0000000 0000-00-00T00:00:00					

<i>Shenyang JJ-5</i>										Crew: Pilot and Observer									
										Maneuver HFPs/DPs:									
LR/DR		1.0		1.5															
VR				0.5															
Power APs/DPs: ○										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		1.0		1.0		1.0		1.0					
N		0.0		0.0		0.0		0.5		HT		1.0		1.0					
I		1.0		1.0		2.0		0.0		BT		2.0		3.0					
SPBR		1.0		1.0		2.0		—		ET		3.0		3.0		—			
					Cruise Spd. CL: 4.5    Restr. Arcs: 180L					No lag or displacement rolls if speed ≥ 5.0.									
					Climb Spd.: 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.		Conf.		CL		1/2		DT		Dive		CL		1/2		DT			
Band		Ceil.		54		50		46		Speed		AB Oth		AB Oth		AB Oth			
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	

<b>Radar:</b>	—	<b>ECM:</b>	IFF	<b>Weapon Stations Diagram:</b>			
ECCM:	—	RWR:	—				
Arcs:	—	DDS:	—				
Search:	—	DJM:	—				
Track:	—	AJM:	—				
Lock-On:	—	BJM:	—				
<b>Guns:</b>	One 23 mm NR-23	<b>Technology:</b>  None		<b>Load Point Limits:</b>	CL : 0–2		
To Hit:	4/2/1			1/2: 3–4			
Ammunition:	3.0			<b>Weight Limit:</b>	2,500	DT : 5+	
Gunsight:	TT+0/HT+2/BT+3			<b>Station</b>	<b>Limit</b>	<b>Allowed Loads</b>	
Ranging:	—			1 and 2	700	BB RK RP FT IRM	
AtA/AtG:	3/2						
<b>Bomb System:</b>	Manual			<b>Load Notes:</b>			
<b>Notes:</b>  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.							
				<b>VPs:</b> 11/7/4/2	v2 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: ○										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		1.0		1.0		1.0		1.0									
N		0.0		0.0		0.0		0.5		BT		2.0		2.0		3.0							
I		1.0		1.0		2.0		0.0		ET		3.0		3.0		—							
SPBR		1.0		1.0		2.0		—		No lag or displacement rolls if speed ≥ 5.0.													
					Cruise Spd. CL: 4.5												Restr. Arcs: 180L						
					Climb Spd.: 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							
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.													
										2. From 1961, may use AA-2 IRMs.													
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.																							
VPs: 11/7/4/2																							
																						v2 0000000 0000-00-00T00:00:00	