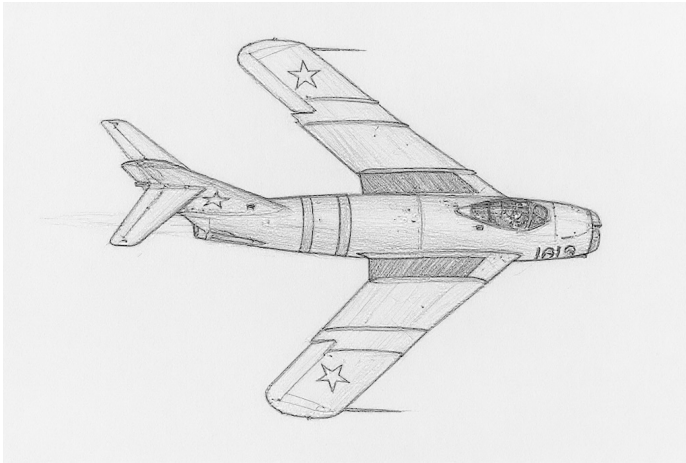


Shenyang J-5 and F-5



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 DPs: LR/DR 2.0 VR 1.0									
Turn DPs: CL 1/2 DT TT 0.5 0.5 1.0 HT 1.0 1.0 1.0 BT 1.5 1.5 2.0 ET 2.0 2.0 — No lag or displacement rolls if speed ≥ 5.0.																			
															Power APs/DPs: ○ CL 1/2 DT Fuel AB 2.5 2.0 2.0 3.0 M 1.5 1.5 1.0 1.0 N 0.0 0.0 0.0 0.5 I 1.0 1.0 2.0 0.0 SPBR 1.0 1.0 2.0 —				
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	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: —					Load Point Limits: CL : < 3 1/2: < 5 Weight Limit: 2,500 DT : ≥ 5									
Lock-On: —					BJM: —														
Guns: Two 23 mm NR-23 One 37 mm N-37					Technology: None														
To Hit: 4/2/1																			
Ammunition: 3.0										Station Limit Allowed Loads 1 and 2 700 BB RK RP FT IRM									
Gunsight: TT+0/HT+2/BT+3										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.									
Ranging: —																			
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.										VPs: 11/7/4/2									
										v3 0000000 0000-00-00T00:00:00									

Shenyang F-5										Crew: Pilot				
										Maneuver DPs: LR/DR 2.0 VR 1.0				
Turn DPs: CL 1/2 DT TT 0.5 0.5 1.0 HT 1.0 1.0 1.0 BT 1.5 1.5 2.0 ET 2.0 2.0 — No lag or displacement rolls if speed ≥ 5.0.														
										Power APs/DPs: ○ CL 1/2 DT Fuel AB 2.5 2.0 2.0 3.0 M 1.5 1.5 1.0 1.0 N 0.0 0.0 0.0 0.5 I 1.0 1.0 2.0 0.0 SPBR 1.0 1.0 2.0 —				
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	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: — ECCM: — Arcs: — Search: — Track: — Lock-On: —					ECM: IFF RWR: — DDS: — DJM: — AJM: — BJM: —					Weapon Stations Diagram:				
Guns: Two 23 mm NR-23 One 37 mm N-37 To Hit: 4/2/1 Ammunition: 3.0 Gunsight: TT+0/HT+2/BT+3 Ranging: — AtA/AtG: 5/4					Technology: None									
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.														
					Load Point Limits: CL : < 3 1/2: < 5 Weight Limit: 2,500 DT : ≥ 5									
					Station Limit Allowed Loads 1 and 2 700 BB RK RP FT IRM									
					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.									
					VPs: 11/7/4/2					v3 0000000 0000-00-00T00:00:00				

Shenyang J-5A										Crew: Pilot																	
										Maneuver DPs:																	
LR/DR		2.0																									
VR		1.0																									
Turn DPs:																											
Power APs/DPs: ○					CL		1/2		DT																		
					AB		2.5		2.0		2.0		3.0														
					M		1.5		1.5		1.0		1.0														
					N		0.0		0.0		0.0		0.5														
					I		1.0		1.0		2.0		0.0														
SPBR					1.0		1.0		2.0		—																
					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																
					No lag or displacement rolls if speed ≥ 5.0.																						
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		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:				—															
Guns:				Three 23 mm NR-23				Technology:								Load Point Limits:				CL : < 3							
To Hit:				5/3/2				None												1/2: < 5							
Ammunition:				3.0												Weight Limit:				2,500				DT : ≥ 5			
Gunsight:				TT+0/HT+2/BT+3												Station				Limit				Allowed Loads			
Ranging:				RE												1 and 2				700				BB RK RP FT IRM			
AtA/AtG:				5/5												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:																2. From 1961, may use AA-2 IRMs.											
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.																											
																VPs: 12/8/4/2				v3 0000000 0000-00-00T00:00:00							

Shenyang JJ-5									Crew: Pilot and Observer							
									Maneuver DPs:							
LR/DR		2.0														
VR		1.0														
Turn DPs:																
Power APs/DPs: ○					CL		1/2		DT							
AB	—	—	—	—	TT		0.5		0.5							
M	1.5	1.5	1.0	1.0	HT		1.0		1.0							
N	0.0	0.0	0.0	0.5	BT		1.5		1.5							
I	1.0	1.0	2.0	0.0	ET		2.0		2.0							
SPBR	1.0	1.0	2.0	—												
					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									
									No lag or displacement rolls if speed ≥ 5.0.							
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: — ECCM: — Arcs: — Search: — Track: — Lock-On: —	ECM: IFF RWR: — DDS: — DJM: — AJM: — BJM: —	Weapon Stations Diagram:	
Guns: One 23 mm NR-23 To Hit: 4/2/1 Ammunition: 3.0 Gunsight: TT+0/HT+2/BT+3 Ranging: — AtA/AtG: 3/2	Technology: None	Load Point Limits: CL : < 3 1/2: < 5 Weight Limit: 2,500 DT : ≥ 5	
Bomb System: Manual		Station Limit Allowed Loads 1 and 2 700 BB RK RP FT IRM	
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.		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.	
		VPs: 11/7/4/2	v3 0000000 0000-00-00T00:00:00

Shenyang FT-5										Crew: Pilot and Observer									
										Maneuver DPs:									
LR/DR		2.0																	
VR		1.0																	
Turn DPs:																			
					CL		1/2		DT										
					TT		0.5		0.5		1.0								
					HT		1.0		1.0		1.0								
					BT		1.5		1.5		2.0								
					ET		2.0		2.0		—								
					No lag or displacement rolls if speed ≥ 5.0.														
Power APs/DPs: ○					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 : < 3			
To Hit:				4/2/1		None										1/2: < 5			
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.																			