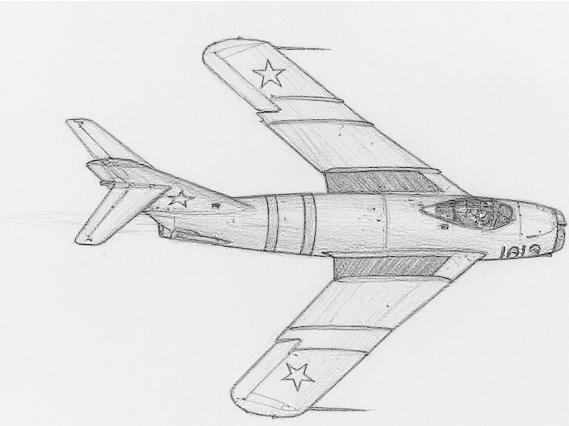


Shenyang J-5 and F-5



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 missile 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
AB	2.5	2.0	2.0	3.0				TT	0.0	0.0
M	1.5	1.5	1.0	1.0				HT	1.0	1.0
N	0.0	0.0	0.0	0.5				BT	2.0	2.0
I	1.0	1.0	2.0	0.0				ET	3.0	3.0
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.	Conf.	CL	1/2	DT	Dive Speed	CL	1/2	DT			
Band	Ceil.	54	50	46		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	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	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	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	1.5	0.5	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	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	2.0	1.0	1.5	1.0

Shenyang F-5										Crew: Pilot																	
										Maneuver HFPs/DPs:																	
Power APs/DPs: ○										LR/DR	1.0	1.5															
AB 2.5 2.0 2.0 3.0										VR	0.5																
M 1.5 1.5 1.0 1.0										Turn DPs:																	
N 0.0 0.0 0.0 0.5										CL	1/2	DT															
I 1.0 1.0 2.0 0.0										TT	0.0	0.0	1.0														
SPBR 1.0 1.0 2.0 —										HT	1.0	1.0	1.0														
										BT	2.0	2.0	3.0														
										ET	3.0	3.0	—														
										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: —		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					1/2: 3–4																						
Ammunition: 3.0					Weight Limit: 2,500						DT : 5+																
Gunsight: TT+0/HT+2/BT+3					Station 1 and 2						Limit 700	Allowed Loads BB RK RP FT IRM															
Ranging: —					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.																
AtA/AtG: 5/4					2. From 1961, may use AA-2 IRMs.																						
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.																											
VPs: 11/7/4/2										v2.0000000 0000-00-00T00:00:00																	

Shenyang J-5A										Crew: Pilot							
					Maneuver HFPs/DPs:												
Power APs/DPs: ○					LR/DR	1.0	1.5	VR	0.5								
AB	CL	1/2	DT	Fuel						Turn DPs:							
AB	2.5	2.0	2.0	3.0	CL	1/2	DT	TT	0.0	0.0	1.0						
M	1.5	1.5	1.0	1.0	HT	1.0	1.0	BT	2.0	2.0	3.0						
N	0.0	0.0	0.0	0.5	ET	3.0	3.0	—									
I	1.0	1.0	2.0	0.0	Cruise Spd. CL: 4.5 Restr. Arcs: 180L												
SPBR	1.0	1.0	2.0	—	Climb Spd.: 3.5	Blind Arcs: 30–	Visibility: 4	Internal Fuel: 130	No lag or displacement rolls if speed ≥ 5.0.								
					Size: +1	AtA Refuel: No	Vulnerability: +1	Ejection Seat: Early									
Speeds and Ceilings						Climb Capabilities											
Alt. Band	Conf. Ceil.	CL	1/2	DT	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:	—	DDS:	—												
Arcs:	Limited	DJM:	—	AJM:	—												
Search:	18–6	BJM:	—														
Track:	6–6																
Lock-On:	6																
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											
Ranging:	RE					DT : 5+											
AtA/AtG:	5/5					Station 1 and 2											
Bomb System: Manual						Limit 700	BB RK RP FT IRM										
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.																	
VPs: 12/8/4/2								v2.000000 0000-00-00T00:00:00									

Shenyang JJ-5										Crew: Pilot and Observer					
										Maneuver HFPs/DPs:					
Power APs/DPs: ○					LR/DR	1.0	1.5								
AB CL 1/2 DT Fuel					VR	0.5									
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 —						Turn DPs:						
— — — —	— — — —	— — — —	— — — —						CL 1/2 DT						
					TT 0.0 0.0 1.0										
					HT 1.0 1.0 1.0										
					BT 2.0 2.0 3.0										
					ET 3.0 3.0 —										
					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: —					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:					
To Hit:	4/2/1	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:	—	Station 1 and 2					Allowed Loads 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 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								v2.000000 0000-00-00T00:00:00							

Shenyang FT-5										Crew: Pilot and Observer								
										Maneuver HFPs/DPs:								
Power APs/DPs: ○					LR/DR	1.0	1.5											
AB CL 1/2 DT Fuel					VR	0.5												
M 1.5	1.5	1.0	1.0							Turn DPs:								
N 0.0	0.0	0.0	0.5		CL	1/2	DT											
I 1.0	1.0	2.0	0.0		TT	0.0	0.0	1.0										
SPBR 1.0	1.0	2.0	—		HT	1.0	1.0	1.0										
					BT	2.0	2.0	3.0										
Cruise Spd. CL: 4.5 Restr. Arcs: 180L					ET	3.0	3.0	—										
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: —		ECM: IFF	Weapon Stations Diagram:															
ECCM: —		RWR: —																
Arcs: —		DDS: —																
Search: —		DJM: —																
Track: —		AJM: —																
Lock-On: —		BJM: —																
Guns: One 23 mm NR-23		Technology: None			Load Point Limits:					CL : 0–2								
To Hit: 4/2/1					1/2: 3–4													
Ammunition: 3.0					Weight Limit: 2,500					DT : 5+								
Gunsight: TT+0/HT+2/BT+3					Station 1 and 2					Allowed Loads 700 BB RK RP FT IRM								
Ranging: —					Load Notes:													
AtA/AtG: 3/2					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.													
Bomb System: Manual																		
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								v2.000000 0000-00-00T00:00:00										