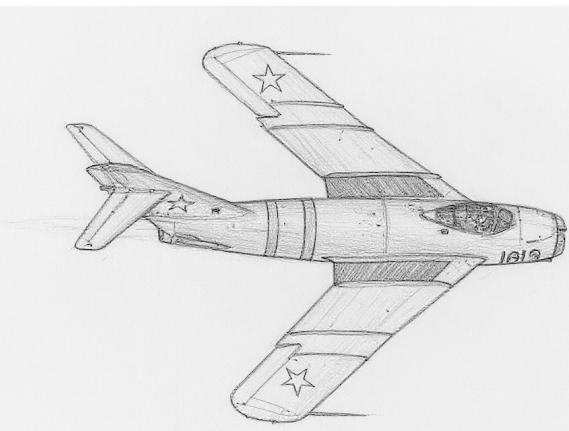


Shenyang J-5 and F-5



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:											
Power APs/DPs/FPs: ○										LR/DR	1.0	1.5									
CL 1/2 DT Fuel										VR	0.5										
AB	2.5	2.0	2.0	3.0						Turn DPs:											
M	1.5	1.5	1.0	1.0						CL	1/2	DT									
N	0.0	0.0	0.0	0.5						TT	0.0	0.0	1.0								
I	0.5	0.5	1.0	0.0						HT	1.0	1.0	1.0								
SPBR	0.5	0.5	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	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 1/2: 3–4																
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					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 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										v1.0000000 0000-00-00T00:00:00											

Shenyang F-5										Crew: Pilot						
										Maneuver HFPs/DPs:						
Power APs/DPs/FPs: ○										LR/DR	1.0	1.5				
CL 1/2 DT Fuel										VR	0.5					
AB	2.5	2.0	2.0	3.0						Turn DPs:						
M	1.5	1.5	1.0	1.0						CL	1/2	DT				
N	0.0	0.0	0.0	0.5						TT	0.0	0.0	1.0			
I	0.5	0.5	1.0	0.0						HT	1.0	1.0	1.0			
SPBR	0.5	0.5	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	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:											
To Hit:		4/2/1			CL : 0–2 1/2: 3–4											
Ammunition:		3.0			Weight Limit: 2,500											
Gunsight:		TT+0/HT+2/BT+3			Station 1 and 2											
Ranging:		—			Limit 700											
AtA/AtG:		5/4			Allowed Loads 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.											
										VPs: 11/7/4/2						
										v1.0000000 0000-00-00T00:00:00						

Shenyang J-5A								Crew: Pilot									
								Maneuver HFPs/DPs:									
Power APs/DPs/FPs: ○								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 0.5 0.5 1.0 0.0								TT	0.0	0.0	1.0						
SPBR 0.5 0.5 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	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: —															
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									
Bomb System: Manual								Limit	Allowed Loads								
								1 and 2	700	BB RK RP FT IRM							
Notes:				Load 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.								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: 12/8/4/2									
								v1.0000000 0000-00-00T00:00:00									

Shenyang JJ-5										Crew: Pilot and Observer		
Power APs/DPs/FPs: ○										Maneuver HFPs/DPs:		
AB CL 1/2 DT Fuel										LR/DR	1.0	1.5
M 1.5 1.5 1.0 1.0										VR		0.5
N 0.0 0.0 0.0 0.5										Turn DPs:		
I 0.5 0.5 1.0 0.0										CL	1/2	DT
SPBR 0.5 0.5 1.0 —										TT	0.0	0.0
										HT	1.0	1.0
										BT	2.0	2.0
										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	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: 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:										
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		VPs: 11/7/4/2									v1.0000000	0000-00-00T00:00:00
Notes:												
1. The Shenyang JJ-5 is a trainer. It is a development of the J-5, with 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. 2. High transonic drag (HTD). Low roll rate (LRR) if speed ≥ 4.0.												

Shenyang FT-5										Crew: Pilot and Observer										
					Maneuver HFPs/DPs:															
Power APs/DPs/FPs: ○					LR/DR	1.0	1.5	VR	0.5											
CL 1/2 DT Fuel										Turn DPs:										
AB	—	—	—	—	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	0.5	0.5	1.0	0.0	Cruise Speed: 4.5 Restr. Arcs: 180L					No lag or displacement rolls if speed ≥ 5.0.										
SPBR	0.5	0.5	1.0	—	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																				
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	Climb Capabilities										
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												
Ranging: —								DT : 5+												
AtA/AtG: 3/2								Station												
Bomb System: Manual								Limit	Allowed Loads											
								1 and 2	700 BB RK RP FT IRM											
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										v1.0000000 0000-00-00T00:00:00										