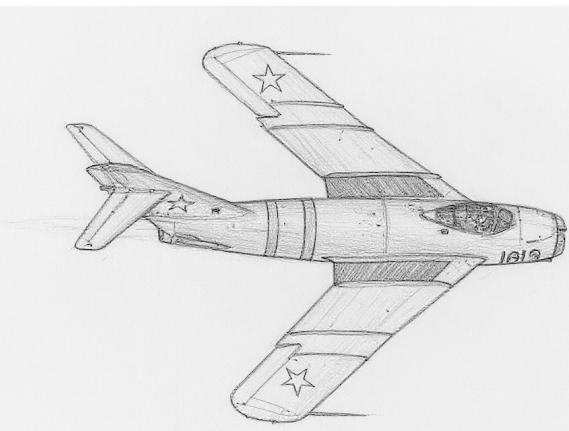


# Shenyang J-5 and F-5



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)

<b>Shenyang J-5</b>										<b>Crew:</b> Pilot				
										<b>Maneuver DPs:</b>				
<b>Power APs/DPs:</b> ○										LR/DR 2.0				
AB 2.5 2.0 2.0 3.0										VR 1.0				
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.				
<b>Speeds and Ceilings</b>										<b>Climb Capabilities</b>				
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				
<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> Two 23 mm NR-23 One 37 mm N-37		<b>Technology:</b> None			<b>Load Point Limits:</b> CL : < 3 1/2: < 5									
To Hit: 4/2/1					<b>Weight Limit:</b> 2,500 DT : ≥ 5									
Ammunition: 3.0					<b>Station</b> Limit Allowed Loads									
Gunsight: TT+0/HT+2/BT+3					1 and 2 700 BB RK RP FT IRM									
Ranging: —					<b>Load Notes:</b>									
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.									
<b>Bomb System:</b> Manual														
<b>Notes:</b>														
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.														
<b>VPs:</b> 11/7/4/2								v3 0000000 0000-00-00T00:00:00						

<b>Shenyang F-5</b>										<b>Crew:</b> Pilot									
										<b>Maneuver DPs:</b>									
					LR/DR	2.0				VR	1.0								
					<b>Turn DPs:</b>					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 $\geq$ 5.0.														
<b>Speeds and Ceilings</b>										<b>Climb Capabilities</b>									
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									
<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>		Two 23 mm NR-23 One 37 mm N-37	<b>Technology:</b> None		<b>Load Point Limits:</b> CL : < 3 1/2: < 5														
To Hit:		4/2/1								<b>Weight Limit:</b> 2,500 DT : $\geq$ 5									
Ammunition:		3.0			<b>Station</b>	<b>Limit</b>	<b>Allowed Loads</b>												
Gunsight:		TT+0/HT+2/BT+3			1 and 2	700	BB RK RP FT IRM												
Ranging:		—	<b>Load Notes:</b>																
AtA/AtG:		5/4																	
<b>Bomb System:</b>		Manual																	
<b>Notes:</b>																			
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 $\geq$ 4.0.																			

<b>Shenyang J-5A</b>										<b>Crew:</b> Pilot																																																																															
					<b>Maneuver DPs:</b>					LR/DR 2.0 VR 1.0																																																																															
<b>Power APs/DPs:</b> ○					<b>Turn DPs:</b>					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 —																																																																															
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.																																																																															
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<b>Radar:</b> RP-1 Izumrud ECCM: 0 Arcs: Limited Search: 18–6 Track: 6–6 Lock-On: 6			<b>ECM:</b> IFF RWR: — DDS: — DJM: — AJM: — BJM: —	<b>Weapon Stations Diagram:</b>																																																																																					
<b>Guns:</b> Three 23 mm NR-23 To Hit: 5/3/2 Ammunition: 3.0 Gunsight: TT+0/HT+2/BT+3 Ranging: RE AtA/AtG: 5/5			<b>Technology:</b> None	<p><b>Load Point Limits:</b> CL : &lt; 3 1/2: &lt; 5</p> <p><b>Weight Limit:</b> 2,500 DT : ≥ 5</p> <table border="1"> <thead> <tr> <th>Station</th> <th>Limit</th> <th>Allowed Loads</th> </tr> </thead> <tbody> <tr> <td>1 and 2</td> <td>700</td> <td>BB RK RP FT IRM</td> </tr> </tbody> </table> <p><b>Load Notes:</b></p> <ol style="list-style-type: none"> <li>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.</li> <li>From 1961, may use AA-2 IRMs.</li> </ol>						Station	Limit	Allowed Loads	1 and 2	700	BB RK RP FT IRM																																																																										
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<b>VPs:</b> 12/8/4/2								v3 0000000 0000-00-00T00:00:00																																																																																	

<b>Shenyang JJ-5</b>										<b>Crew:</b> Pilot and Observer																																																																															
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<b>Radar:</b> — ECCM: — Arcs: — Search: — Track: — Lock-On: —					<b>ECM:</b> IFF RWR: — DDS: — DJM: — AJM: — BJM: —	<b>Weapon Stations Diagram:</b>																																																																																			
<b>Guns:</b> 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					<b>Technology:</b> None	<b>Load Point Limits:</b> CL : < 3 1/2: < 5 <b>Weight Limit:</b> 2,500 DT : ≥ 5																																																																																			
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<b>Shenyang FT-5</b>										<b>Crew:</b> Pilot and Observer																																																																															
					<b>Maneuver DPs:</b>					LR/DR 2.0 VR 1.0																																																																															
<b>Power APs/DPs:</b> ○					<b>Turn DPs:</b>					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 —																																																																															
AB CL 1/2 DT Fuel					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.																																																																															
<table border="1"> <thead> <tr> <th colspan="5"><b>Speeds and Ceilings</b></th> <th colspan="5"><b>Climb Capabilities</b></th> </tr> <tr> <th>Alt. Band</th> <th>Conf. Ceil.</th> <th>CL 54</th> <th>1/2 50</th> <th>DT 46</th> <th>Dive Speed</th> <th>CL AB Oth</th> <th>1/2 AB Oth</th> <th>DT AB Oth</th> <th></th> </tr> </thead> <tbody> <tr> <td>EH+</td><td>46+</td><td>3.0 – 6.0</td><td>3.0 – 5.5</td><td>3.5 – 5.0</td><td>6.5</td><td>— 0.5</td><td>— 0.5</td><td>— 0.5</td><td>EH+</td></tr> <tr> <td>VH</td><td>36–45</td><td>2.5 – 6.0</td><td>3.0 – 5.5</td><td>3.0 – 5.0</td><td>6.5</td><td>— 0.5</td><td>— 0.5</td><td>— 0.5</td><td>VH</td></tr> <tr> <td>HI</td><td>26–35</td><td>2.0 – 6.0</td><td>2.5 – 6.0</td><td>2.5 – 5.5</td><td>7.0</td><td>— 0.5</td><td>— 0.5</td><td>— 0.5</td><td>HI</td></tr> <tr> <td>MH</td><td>17–25</td><td>1.5 – 6.5</td><td>2.0 – 6.0</td><td>2.0 – 5.5</td><td>7.0</td><td>— 1.0</td><td>— 0.5</td><td>— 0.5</td><td>MH</td></tr> <tr> <td>ML</td><td>8–16</td><td>1.0 – 7.0</td><td>1.5 – 6.5</td><td>1.5 – 5.5</td><td>7.5</td><td>— 1.0</td><td>— 1.0</td><td>— 0.5</td><td>ML</td></tr> <tr> <td>LO</td><td>0–7</td><td>1.0 – 6.5</td><td>1.5 – 6.0</td><td>1.5 – 5.5</td><td>7.5</td><td>— 1.0</td><td>— 1.0</td><td>— 1.0</td><td>LO</td></tr> </tbody> </table>	<b>Speeds and Ceilings</b>									<b>Climb Capabilities</b>					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					
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<b>Guns:</b> 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					<b>Technology:</b> None	<b>Load Point Limits:</b> CL : < 3 1/2: < 5 <b>Weight Limit:</b> 2,500 DT : ≥ 5																																																																																			
<b>Bomb System:</b> Manual					<b>Station</b> Limit Allowed Loads 1 and 2 700 BB RK RP FT IRM	<b>Load Notes:</b> 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.																																																																																			
<b>Notes:</b> 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.	<b>VPs:</b> 11/7/4/2					v3 0000000 0000-00-00T00:00:00																																																																																			