

تقسیم بندی هواپیماها

نظامی
(Military)

جنگنده
(Fighter)

بمب افکن
(Bomber)

آموزشی
(Trainer)

باربری
(Cargo)

شناسایی، دیدبانی ...
(AEW&C, Reco.)

تانکر
(Tanker)

پنهانکار
(Stealth)

تجاری
(Commercial)

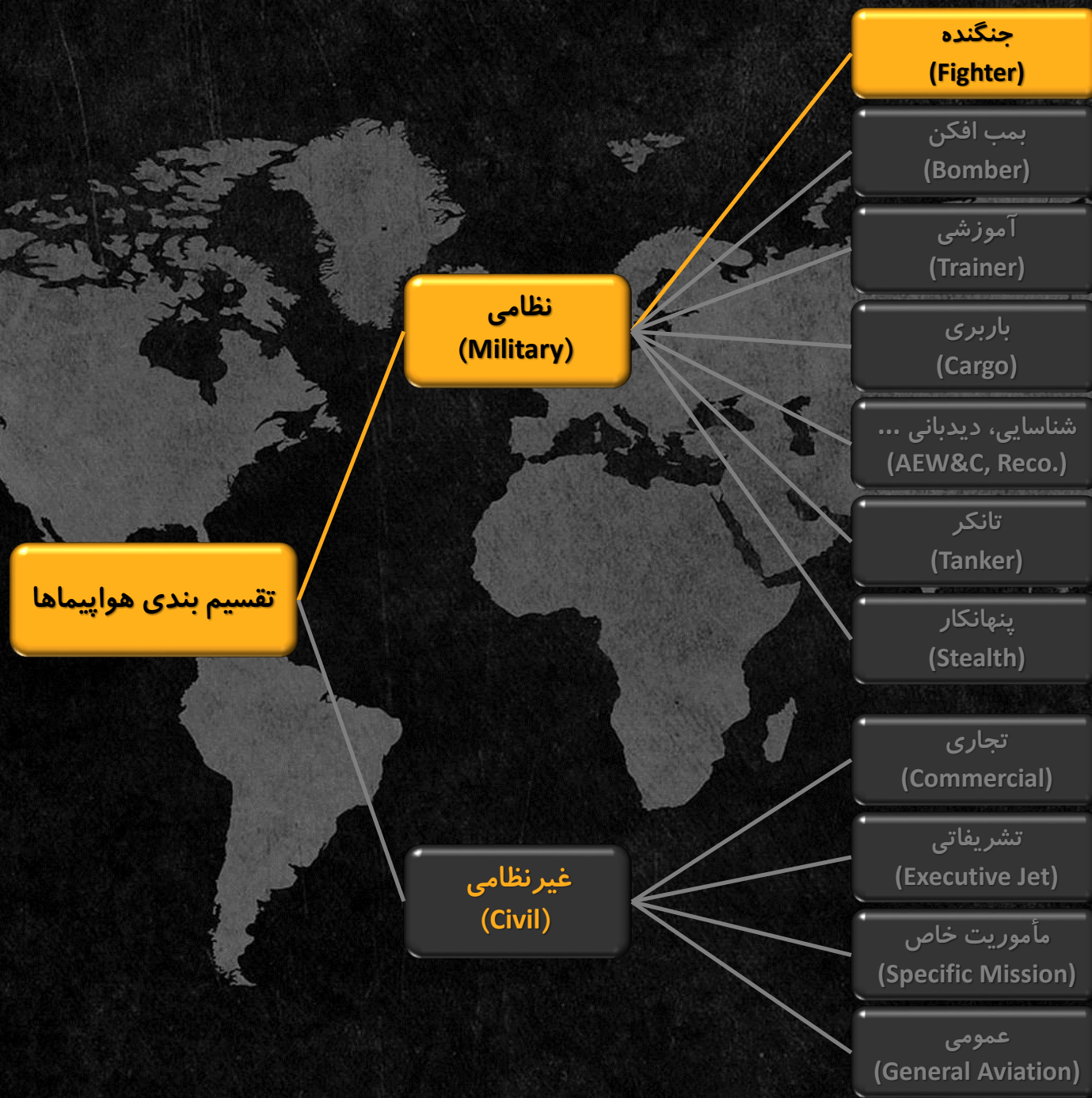
تشریفاتی
(Executive Jet)

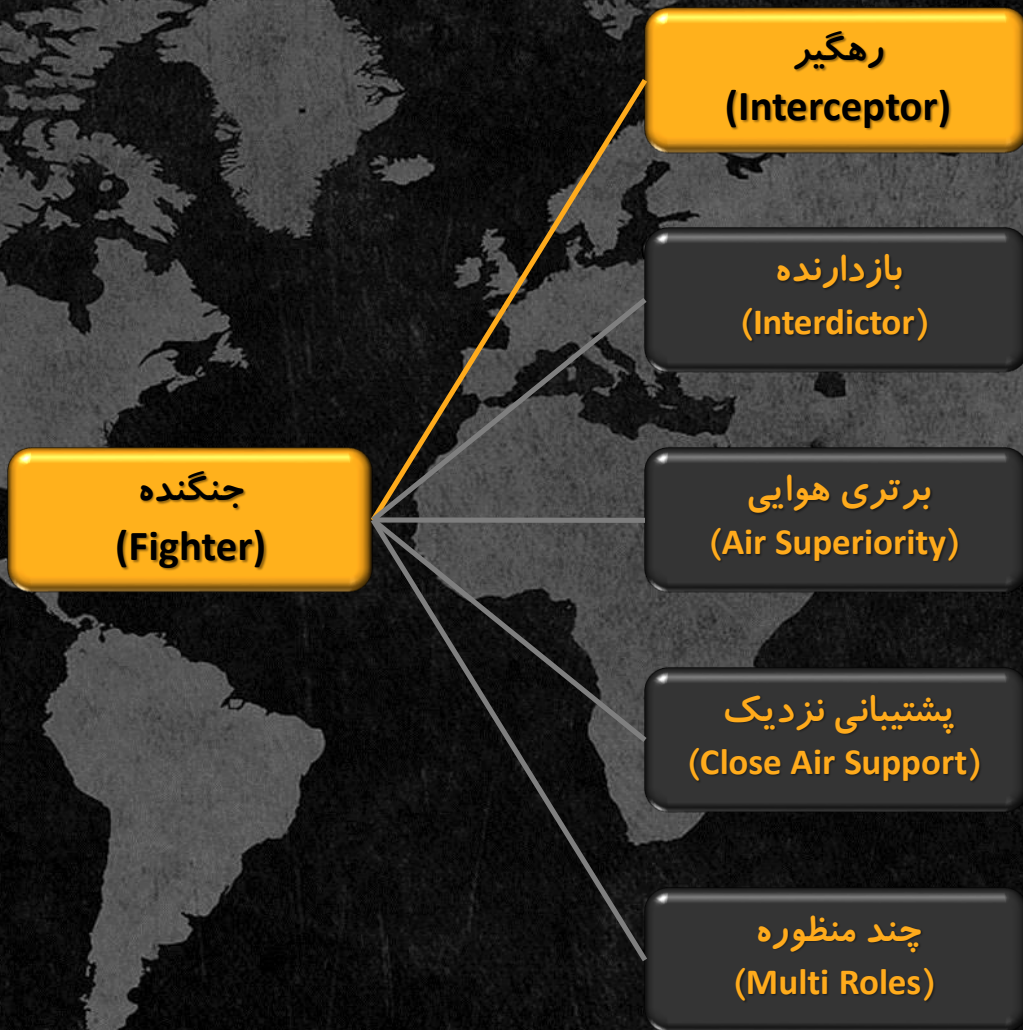
مأموریت خاص
(Specific Mission)

عمومی
(General Aviation)

غیر نظامی
(Civil)







جنگنده رهگیر (Interceptor)

مأموریت: جلوگیری از موفقیت جنگنده‌های دشمن اعم از بمب افکن‌ها و هواپیماهای شناسایی
ویژگی‌ها: عملکرد بالا، رادار و تجهیزات رهگیری پیشرفته و موشک‌های هوا به هوا پیشرفته، قیمت و
هزینه‌های عملیاتی بالا در دو نوع سبک و سنگین، مدت زمان طراحی طولانی، کم‌رنگ شدن نقش این جنگنده
با توجه به تغییر تهدیدات از بمب افکن‌های استراتژیک به موشک‌های قاره پیمای



جنگنده رهگیر سبک

وزن و هزینه کم، عملکرد بالا و قابلیت مانور بالا

Sukhoi Su-15 (Flagon)



Shenyang J-8, F-8 (Finback)



MiG-19 (Farmer)



Convair F-106 Delta Dart



Panavia Tornado ADV

By: H. Alisadeghi

جنگنده رهگیر سنگین

وزن و هزینه بالا، قابلیت پرواز در شب، شرایط آب و هوایی بد، برد، ارتفاع و مداومت پروازی بالا

GRUMMAN F-14 TOMCAT



Mikoyan Gurevich Mig-31 Foxhound



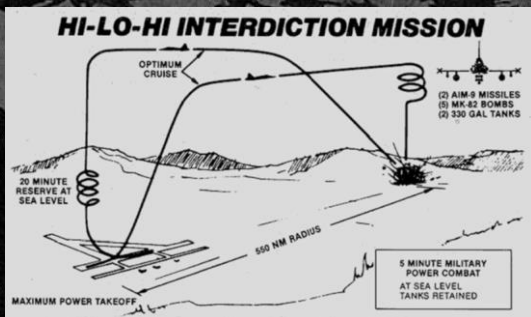
F-14 Price: 38 m \$(1998)

AIM-54 Phoenix Price: 478 k \$(1998)



جنگنده بازدارنده (Interdictor- Attack - Strike)

مأموریت: شکاری بمب افکن، جنگنده ضربتی نفوذکننده به پشت خط دشمن، برای انهدام اهداف لجستیکی، این جنگنده منجر به جلوگیری یا به تأخیر انداختن عملیات دشمن می گردد.



General Dynamics F-111



Panavia Tornado ADV



جنگنده بازدارنده (Interdictor- Attack - Strike)

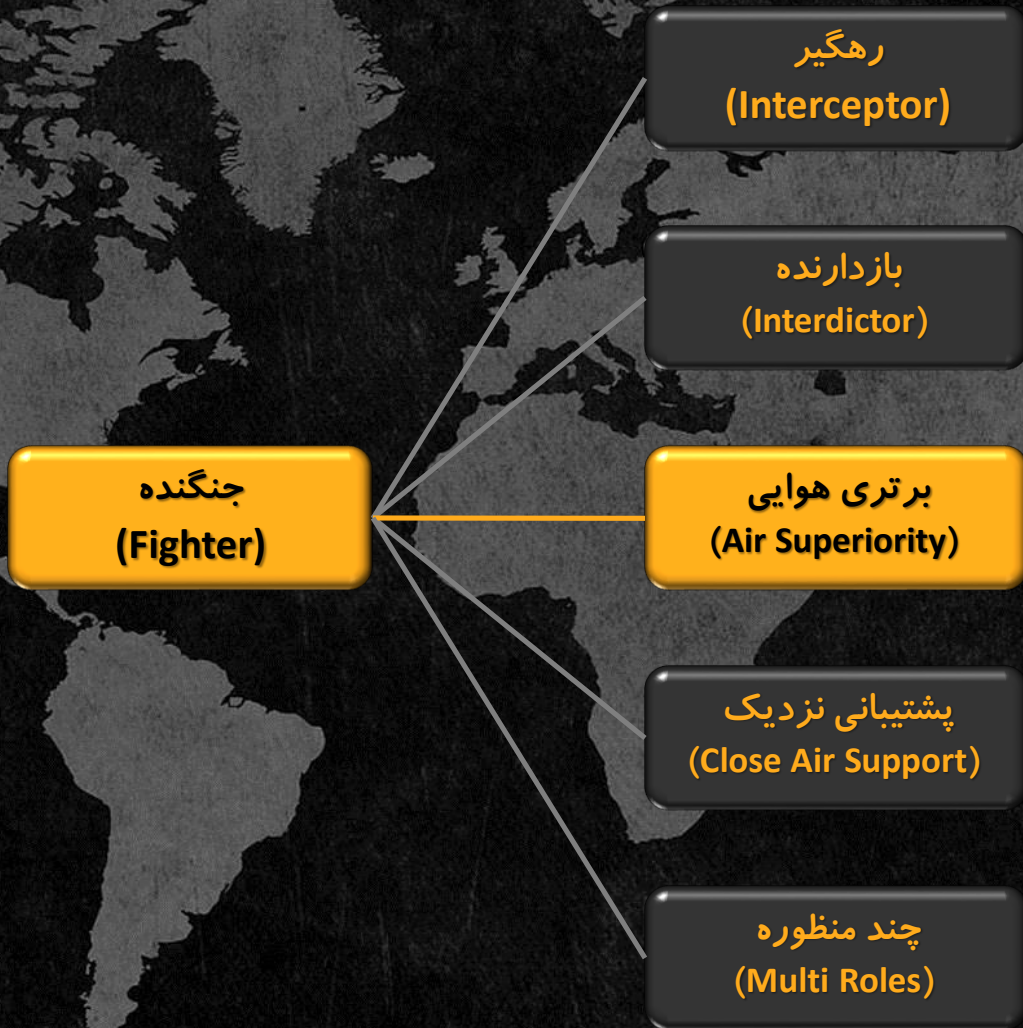
ویژگی‌ها: برد بالا، محموله زیاد، قابلیت دفاع از خود، از نظر حمله به اهداف زمینی مانند جنگنده‌های ضربتی است و از نظر نبرد هوایی، مشابه جنگنده‌های چند منظوره

Sukhoi Su-34



Sukhoi Su-24





جنگنده برتری هوایی (Air Superiority)

مأموریت: ورود و تسخیر آسمان دشمن و غلبه بر نیروی هوایی و پدافند دشمن
مأموریت اولیه: غلبه بر جنگنده‌های دشمن و پدافند هوایی
مأموریت ثانویه: حمله به اهداف زمینی



Boeing -MD F/A-18 E/F Super HORNET



F/A-18 E/F Super Hornet Price: 67 m \$

MCDONNELL DOUGLAS F-15 EAGLE



F-15E Price: 36 m \$

جنگنده برتری هوایی (Air Superiority)

ویژگی‌ها: عملکرد بالا، برد و مداومت بالا، سیستم‌های راداری و جنگ الکترونیک پیشرفته برای از کار انداختن سیستم‌های پدافند هوایی دشمن، قیمت بالا و تعداد کم، قابلیت دفاع از خود و حمله به اهداف زمینی، هماهنگی کامل با هواپیماهای هشدار نزدیک و کنترل میدان نبرد (AEW&C) شکل‌گیری این رده با توسعه سیستم‌های موشکی هوا به هوا بلند (نبرد در خارج از دید BVR)

LOCKHEED MARTIN F-22 RAPTOR



F-22 Price: 138 m \$(1998)

Sukhoi Su-27 Flanker (& Su-30,33,35)



Su-27 Price: 30 m \$(1998)

Sukhoi Su-57 PAK FA



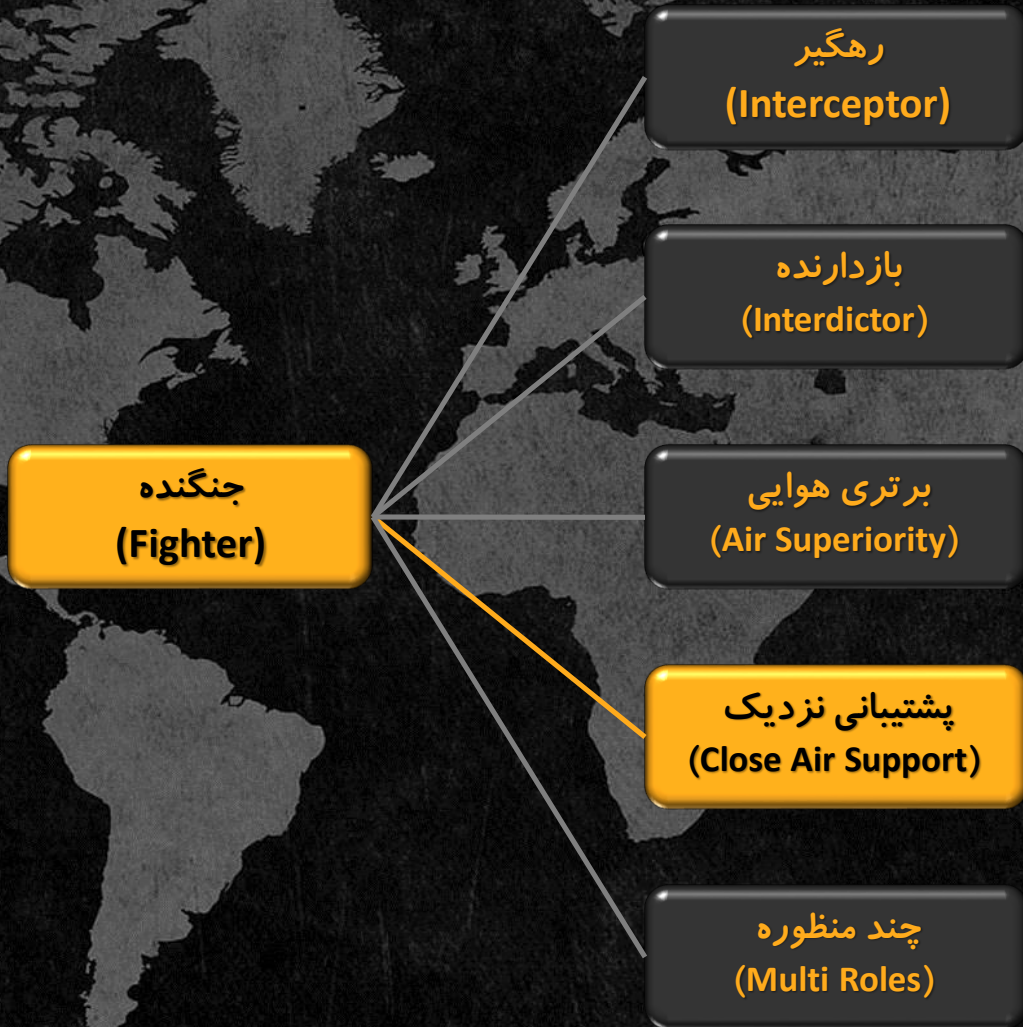
Chengdu Aerospace Corporation J20



Chengdu Aerospace Corporation J20

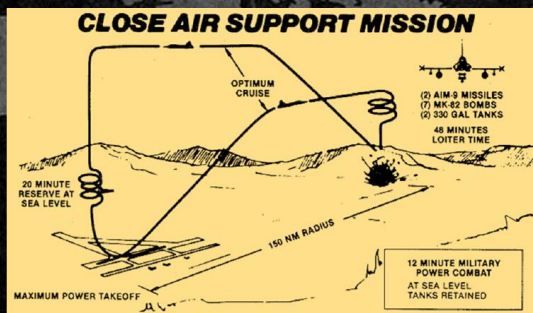
Country	Manufacturer	Aircraft	Introduced
United States	McDonnell Douglas	F-15 Eagle	1976
Soviet Union/Russia	Mikoyan	MiG-29	1982
Soviet Union/Russia	Sukhoi	Su-27	1985
Russia/India	Sukhoi	Su-30MKI	2002
European Union	Eurofighter	Typhoon	2003
United States	Lockheed Martin	F-22 Raptor	2005
Russia	Sukhoi	Su-35S	2014
China	Chengdu Aerospace	J-20	2017





جنگنده پشتیبانی نزدیک (Close Air Support)

مأموریت: پشتیبانی از خطوط زمینی با حمله به نیروهای دشمن در مجاورت نیروی خودی، آتش و حرکت با نیروهای خودی



FAIRCHILD REPUBLIC A-10 THUNDERBOLT II



A-10 Price: 10 m \$(1998)

MIKOYAN-GUREVICH MIG-23



جنگنده پشتیبانی نزدیک (Close Air Support)

ویژگی‌ها: حمل مهمات زیاد، دارای سیستم‌های افزونه، مسافت برخاست کم، قابلیت بلند شدن از باندهای نامناسب، پرواز در منطقه عملیاتی و نزدیک به زمین، بدنه مجهز به زره ضد گلوله، دارای سیستم‌های راداری هشدار موشک (Radar Warning System)

Sukhoi Su-25



Sukhoi Su-25



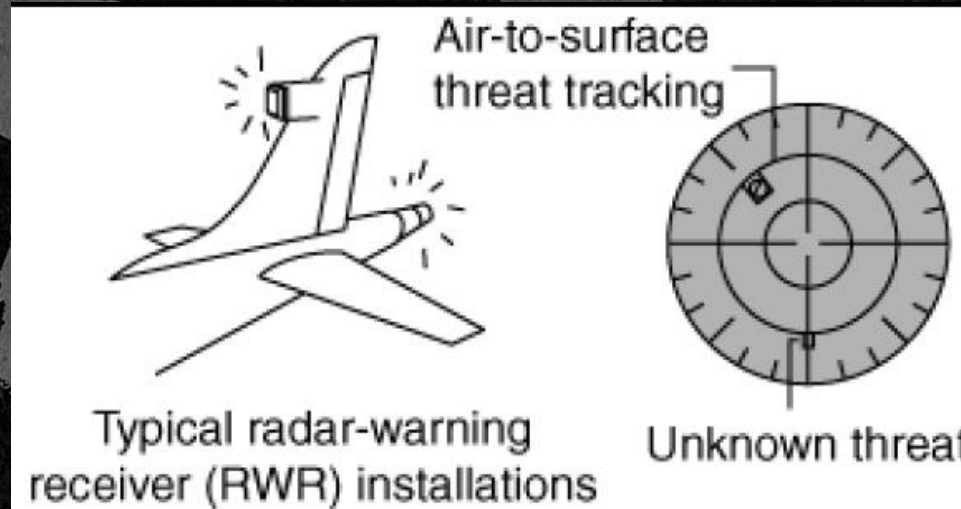
Su-25 Price: 11 m \$(1998)

General Electric GAU-8/A Avenger 30 mm



RWR OR RWS

(Radar Warning Receiver) OR (Radar Warning System)



RWR IN A-10



RWR IN SU-25



RWR IN SU-27



Flare & Chaff



Flare & Chaff





جنگنده چند منظوره (Multi Roles)

مأموریت: انجام مأموریت‌های مختلف اعم از پشتیبانی نزدیک، نفوذی ضربتی، شکاری، و نبرد هوایی

GENERAL DYNAMICS F-16 FIGHTING FALCON



F-16 Price: 47m \$(1998)

MIKOYAN MIG-29 – MIG 35



Mig-29 Price: 29 m \$(2009)

جنگنده چند منظوره (Multi Roles)

ویژگی‌ها: مانورپذیری بالا، توان حمل سلاح‌های مختلف، انجام ترکیبی از مأموریت‌های مختلف، توازن قابلیت‌های عملکردی در مأموریت‌های نبرد هوایی و زمینی
شکل‌گیری این رده به منظور کاهش هزینه‌ها و کاهش زمان تعمیر و نگهداری بوده است

Dassault Mirage 2000



Mirage 2000 Price: 23 m \$

Eurofighter Typhoon



Typhoon Price: 120 m \$

Dassault Rafale



Rafale Price: 65 m \$

جنگنده چند منظوره (Multi Roles)

JF 17 Thunder



HAL Tejas



AIDC F-CK-1 Ching-kuo



Mitsubishi F-2



Chengdu J10



IAI Lavi Prototype



Sukhoi Su-30 Flanker



Sukhoi Su - 35



Mirage 4000



F-16 Falcon	F/A-18 Hornet	F-15 Strike Eagle	F-35 Lightning II
General Dynamics	McDonnell-Douglas	McDonnell-Douglas	Lockheed-Martin
1978	1983	1988	2015



Mirage 2000	Rafale	Tornado	Typhoon
Dassault	Dassault	Panavia	Eurofighter
1982	2001	1979	2003



MiG-29	MiG-35	Su-27	Su-30MKK	Su-35
Mikoyan	Mikoyan	Sukhoi	Sukhoi	Sukhoi
1983	2019	1985	2000	2014



J-10	J-11B	J-15	J-16
Chengdu	Shenyang	Shenyang	Shenyang
2003	2008	2012	2013



LOCKHEED MARTIN F-35 LIGHTNING II



LOCKHEED MARTIN F-35 LIGHTNING II



LOCKHEED MARTIN F-35 LIGHTNING II

AIR FORCE

In-Flight Refueling Door (Boom)

Internal 25mm 4-Barrel Gattling Gun

MARINES

Probe and Drogue Refueling (Basket)

Lift Fan

NAVY

Probe and Drogue Refueling (Basket)

Strengthened Landing Gear

Larger Wing and Horizontal Tail Area

Centerline Gun Pod w/ 25mm Gun

Wingfold and Ailerons Added

3-Bearing Swivel Nozzle

Roll Posts

F-35A Price: 124.8 m \$

F-35B Price: 156.8 m \$

F-35C Price: 142.6 m \$

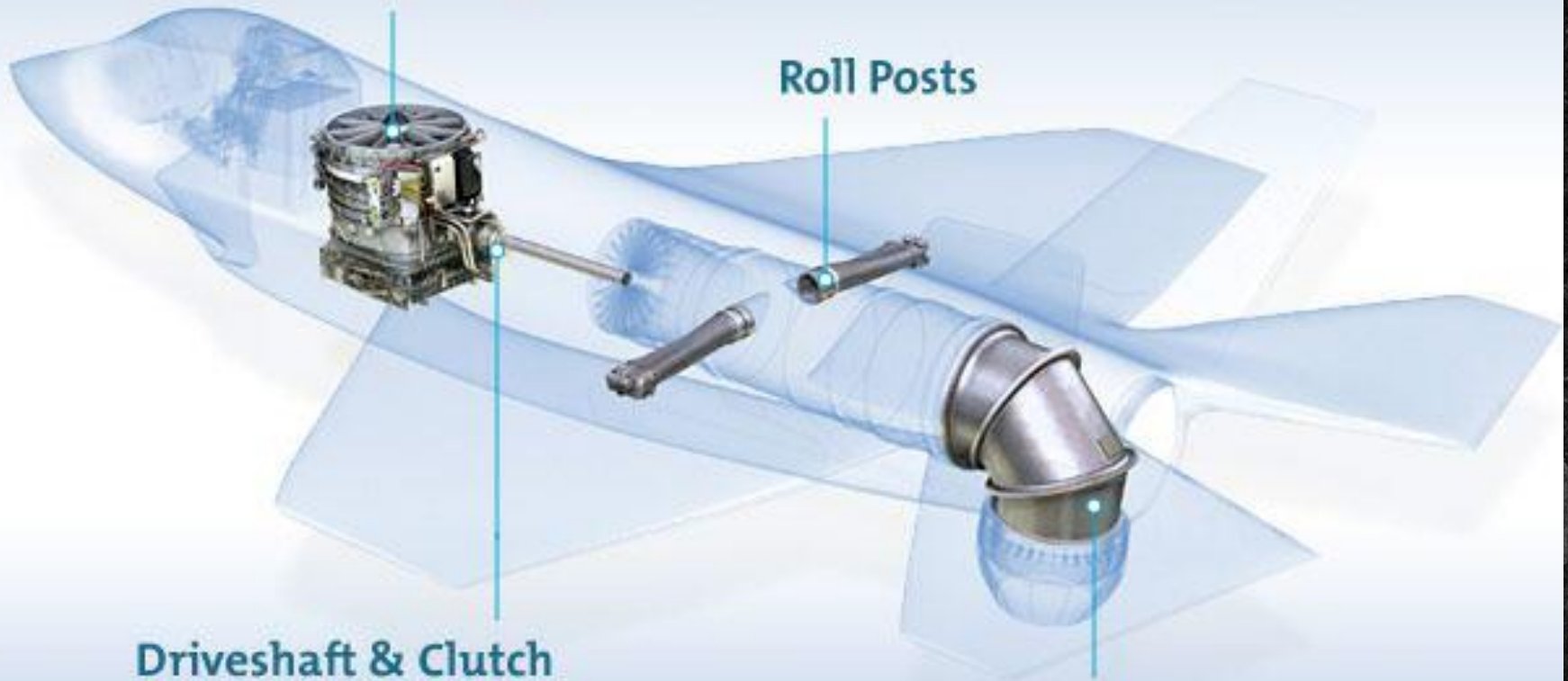
LOCKHEED MARTIN F-35 LIGHTNING II

Rolls-Royce LiftFan

Roll Posts

Driveshaft & Clutch

3BSM



LOCKHEED MARTIN F-35 LIGHTNING II



	F-35A	F-35B	F-35C
Length (ft.)	50.5	50.5	50.8
Wingspan (ft.)	35	35	43
Weight (lb.)	26,500	30,697	30,618

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LOCKHEED MARTIN F-35 LIGHTNING II



Boeing X-32



Shenyang Aircraft Corporation J-31



A dark, textured world map with a grainy, almost charcoal-like appearance. The continents are rendered in a lighter, greyish tone against a dark background. The title "By Numbers" is centered over the map in a bold, yellow, italicized font.

By Numbers

2015

WORLDWIDE ACTIVE FLEET PER REGION

NORTH AMERICA

Combat aircraft	2,861
Special mission	775
Tanker	597
Transport	1,439
Combat helicopter	6,001
Training aircraft/helicopters	2,949

NORTH AMERICA

-2%

Year-on-year fleet change

EUROPE

Combat aircraft	2,145
Special mission	244
Tanker	50
Transport	687
Combat helicopter	3,411
Training aircraft/helicopters	2,049

EUROPE

-4%

Year-on-year fleet change

LATIN AMERICA

Combat aircraft	580
Special mission	145
Tanker	9
Transport	479
Combat helicopter	1,212
Training aircraft/helicopters	769

LATIN AMERICA

-5%

Year-on-year fleet change

RUSSIA & CIS

6%

Year-on-year fleet change

RUSSIA & CIS

Combat aircraft	1,854
Special mission	121
Tanker	19
Transport	438
Combat helicopter	1,439
Training aircraft/helicopters	419

MIDDLE EAST

Combat aircraft	1,248
Special mission	79
Tanker	41
Transport	273
Combat helicopter	1,302
Training aircraft/helicopters	950

MIDDLE EAST

1%

Year-on-year fleet change

AFRICA

Combat aircraft	970
Special mission	57
Tanker	7
Transport	410
Combat helicopter	1,353
Training aircraft/helicopters	949

ASIA-PACIFIC

1%

Year-on-year fleet change

ASIA-PACIFIC

Combat aircraft	4,926
Special mission	445
Tanker	36
Transport	945
Combat helicopter	4,771
Training aircraft/helicopters	2,531

AFRICA

-1%

Year-on-year fleet change

NOTE: CIS countries include Armenia, Azerbaijan, Belarus, Kazakhstan, Kyrgyzstan, Moldova, Russia, Tajikistan and Uzbekistan
SOURCE: Ascend Fleet and MiCAS from Flightglobal

2016

WORLDWIDE ACTIVE FLEET PER REGION

NORTH AMERICA

Combat aircraft	2,849
Special mission	777
Tanker	592
Transport	1,099
Combat helicopter	5,916
Training aircraft/helicopters	2,910

NORTH AMERICA

-1%

Year-on-year fleet change

EUROPE

Combat aircraft	2,096
Special mission	316
Tanker	50
Transport	679
Combat helicopter	3,380
Training aircraft/helicopters	2,084

EUROPE

0%

Year-on-year fleet change

LATIN AMERICA

Combat aircraft	532
Special mission	144
Tanker	8
Transport	491
Combat helicopter	1,224
Training aircraft/helicopters	806

LATIN AMERICA

0%

Year-on-year fleet change

RUSSIA & CIS

3%

Year-on-year fleet change

MIDDLE EAST

3%

Year-on-year fleet change

AFRICA

2%

Year-on-year fleet change

ASIA-PACIFIC

2%

Year-on-year fleet change

RUSSIA & CIS

Combat aircraft	1,860
Special mission	137
Tanker	19
Transport	400
Combat helicopter	1,571
Training aircraft/helicopters	447

MIDDLE EAST

Combat aircraft	1,268
Special mission	97
Tanker	43
Transport	271
Combat helicopter	1,349
Training aircraft/helicopters	999

AFRICA

Combat aircraft	1,003
Special mission	64
Tanker	6
Transport	412
Combat helicopter	1,373
Training aircraft/helicopters	968

ASIA-PACIFIC

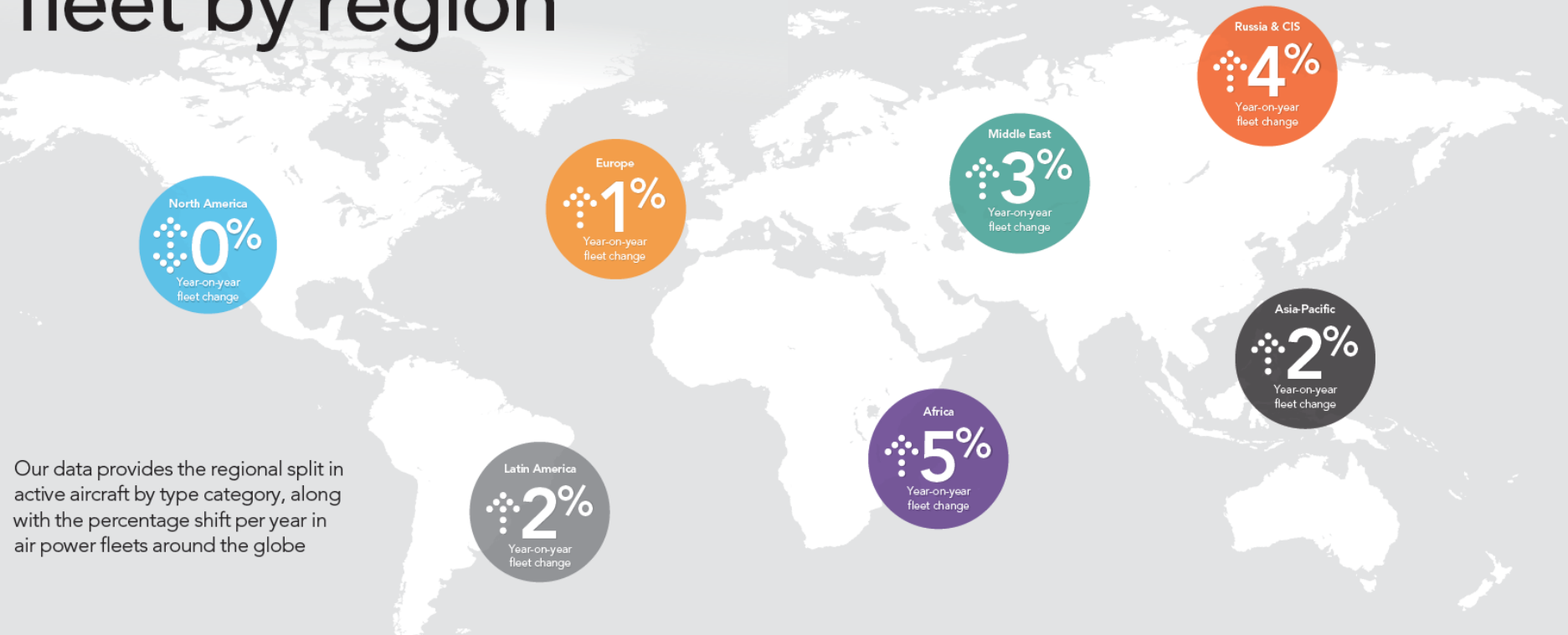
Combat aircraft	4,944
Special mission	512
Tanker	36
Transport	932
Combat helicopter	4,837
Training aircraft/helicopters	2,606

NOTE: CIS countries include Armenia, Azerbaijan, Belarus, Kazakhstan, Kyrgyzstan, Moldova, Russia, Tajikistan and Uzbekistan
SOURCE: FlightGlobal's Fleets Analyzer database

By: H. Alisadeghi

2017

Worldwide active fleet by region



Our data provides the regional split in active aircraft by type category, along with the percentage shift per year in air power fleets around the globe

North America

Combat aircraft	2,831
Special mission	780
Tanker	596
Transport	1,096
Combat helicopter	5,903
Training aircraft/helicopters	2,972

Europe

Combat aircraft	2,132
Special mission	298
Tanker	49
Transport	655
Combat helicopter	3,440
Training aircraft/helicopters	2,104

Latin America

Combat aircraft	538
Special mission	141
Tanker	11
Transport	479
Combat helicopter	1,235
Training aircraft/helicopters	864

Russia & CIS

Combat aircraft	1,907
Special mission	128
Tanker	19
Transport	413
Combat helicopter	1,703
Training aircraft/helicopters	462

Middle East

Combat aircraft	1,288
Special mission	100
Tanker	44
Transport	280
Combat helicopter	1,386
Training aircraft/helicopters	1,037

Africa

Combat aircraft	992
Special mission	62
Tanker	5
Transport	416
Combat helicopter	1,466
Training aircraft/helicopters	1,063

Asia-Pacific

Combat aircraft	4,951
Special mission	507
Tanker	37
Transport	936
Combat helicopter	5,029
Training aircraft/helicopters	2,687

Note: CIS countries include Armenia, Azerbaijan, Belarus, Kazakhstan, Kyrgyzstan, Moldova, Russia, Tajikistan and Uzbekistan
Source: Flight Fleets Analyzer

Worldwide top 10 active aircraft types

GLOBAL MILITARY FLEET			
	Country	Active fleet	Share
1	USA	13,902	27%
2	Russia	3,429	7%
3	China	2,860	6%
4	India	1,905	4%
5	Japan	1,612	3%
6	South Korea	1,412	3%
7	France	1,264	2%
8	Egypt	1,107	2%
9	Turkey	1,020	2%
10	North Korea	940	2%
	Other	22,234	43%
TOTAL		51,685	100%

2015

COMBAT AIRCRAFT			
	Type	Active fleet	Share
1	F-16	2,242	15%
2	F-18	1,046	7%
3	Su-27/30/33/35	874	6%
4	F-15	854	6%
5	MiG-29	793	5%
6	MiG-21	668	5%
7	Su-25	506	3%
8	F-5	468	3%
9	F-7	460	3%
10	J-7	418	3%
	Other	6,255	43%
TOTAL		14,584	100%

TRANSPORT			
	Type	Active fleet	Share
1	C-130/L-100	951	22%
2	King Air	295	7%
3	C-17	263	6%
4	C295/CN235	253	6%
5	An-24/26	238	5%
6	Il-76	176	4%
7	An-30/32	139	3%
8	Cessna 208	125	3%
9	C160	120	3%
10	C212	94	2%
	Other	1,717	39%
TOTAL		4,371	100%

COMBAT HELICOPTERS			
	Type	Active fleet	Share
1	S-70/SH/UH-60	3,600	18%
2	Mi-8/17/171/172	2,441	13%
3	UH-1	1,452	7%
4	AH-64	1,083	6%
5	Mi-24/25/35	897	5%
6	CH-47	876	4%
7	OH-58	712	4%
8	Bell 212/412	687	4%
9	MD500	675	3%
10	AH-1	550	3%
	Other	6,516	33%
TOTAL		19,489	100%

Worldwide top 10 active aircraft types

GLOBAL MILITARY FLEET

	Country	Active fleet	Share
1	USA	13,717	26%
2	Russia	3,547	7%
3	China	2,942	6%
4	India	2,086	4%
5	Japan	1,590	3%
6	South Korea	1,429	3%
7	France	1,282	2%
8	Egypt	1,133	2%
9	Turkey	1,007	2%
10	North Korea	944	2%
	Other	22,430	43%
TOTAL		52,107	100%

2016

COMBAT AIRCRAFT

	Type	Active fleet	Share
1	F-16	2,264	16%
2	F-18	1,047	7%
3	Su-27/30	943	6%
4	F-15	858	6%
5	MiG-29	819	6%
6	MiG-21	551	4%
7	Su-25	503	3%
8	F-5	482	3%
9	F-7	459	3%
10	J-7	418	3%
	Other	6,208	43%
TOTAL		14,552	100%

TRANSPORT

	Type	Active fleet	Share
1	C-130/L-100	947	22%
2	King Air	302	7%
3	C-17	269	6%
4	C295/CN235	261	6%
5	An-24/26	240	6%
6	Il-76	167	4%
7	An-30/32	140	3%
8	Cessna 208	128	3%
9	C160	119	3%
10	C212	94	2%
	Other	1,617	38%
TOTAL		4,284	100%

COMBAT HELICOPTERS

	Type	Active fleet	Share
1	S-70/SH/UH-60	3,582	18%
2	Mi-8/17	2,555	13%
3	UH-1	1,404	7%
4	AH-64	1,116	6%
5	Mi-24/35	918	5%
6	CH-47	898	5%
7	MD500/530	675	3%
8	OH-58	582	3%
9	AH-1	566	3%
10	SA341/342	501	3%
	Other	6,853	34%
TOTAL		19,650	100%

Worldwide top 10 active aircraft types

Global military fleet

	Country	Active fleet	Share
1	USA	13,764	26%
2	Russia	3,792	7%
3	China	2,955	6%
4	India	2,104	4%
5	Japan	1,594	3%
6	South Korea	1,477	3%
7	France	1,305	2%
8	Egypt	1,137	2%
9	Turkey	1,018	2%
10	Pakistan	951	2%
	Other	22,945	43%
	Total	53,042	100%

2017

Combat aircraft

	Type	Active fleet	Share
1	F-16	2,312	16%
2	F-18	1,071	7%
3	Su-27/30	940	6%
4	F-15	874	6%
5	MiG-29	829	6%
6	MiG-21	547	4%
7	Su-25	511	3%
8	F-7	450	3%
9	J-7	418	3%
10	F-5	416	3%
	Other	6,271	43%
	Total	14,639	100%

Transport

	Type	Active fleet	Share
1	C-130/L-100	915	21%
2	King Air	300	7%
3	C-17	282	7%
4	C295/CN325	276	6%
5	An-24/26	239	6%
6	Il-76	175	4%
7	An-30/32	143	3%
8	Cessna 208	134	3%
9	C160	109	3%
10	C212	91	2%
	Other	1,611	38%
	Total	4,275	100%

Combat helicopters

	Type	Active fleet	Share
1	S-70/SH/UH-60	3,794	19%
2	Mi-8/17	2,815	14%
3	UH-1	1,401	7%
4	AH-64	1,110	6%
5	Mi-24/35	918	5%
6	CH-47	896	4%
7	MD500/530	688	3%
8	AH-1	556	3%
9	OH-58	502	2%
10	SA341/342	496	2%
	Other	6,986	35%
	Total	20,162	100%

Fleet size For leading countries by role

2015

COMBAT AIRCRAFT			
	Country	Active fleet	Share
1	USA	2,797	19%
2	China	1,454	10%
3	Russia	1,439	10%
4	India	762	5%
5	North Korea	572	4%
6	Egypt	413	3%
7	South Korea	399	3%
8	Pakistan	387	3%
9	Japan	288	2%
10	Taiwan	288	2%
	Other	5,785	40%
TOTAL		14,584	100%

SPECIAL MISSION			
	Country	Active fleet	Share
1	USA	757	41%
2	Japan	132	7%
3	Russia	121	6%
4	China	65	3%
5	India	59	3%
6	Brazil	48	3%
7	Indonesia	42	2%
8	France	41	2%
9	Spain	37	2%
10	Israel	34	2%
	Other	530	28%
TOTAL		1,866	100%

TANKER			
	Country	Active fleet	Share
1	USA	591	78%
2	Russia	19	3%
3	Saudi Arabia	17	2%
4	France	14	2%
5	Israel	12	2%
6	Singapore	9	1%
7	UK	8	1%
8	Spain	7	1%
9	Turkey	7	1%
10	India	7	1%
	Other	68	9%
TOTAL		759	100%

TRANSPORT			
	Country	Active fleet	Share
1	USA	1,094	25%
2	Russia	403	9%
3	India	230	5%
4	China	182	4%
5	Brazil	137	3%
6	France	134	3%
7	Japan	98	2%
8	Iran	88	2%
9	Turkey	80	2%
10	Thailand	70	2%
	Other	1,855	42%
TOTAL		4,371	100%

COMBAT HELICOPTERS			
	Country	Active fleet	Share
1	USA	5,854	30%
2	Russia	1,101	6%
3	China	806	4%
4	South Korea	668	3%
5	Japan	657	3%
6	India	584	3%
7	France	529	3%
8	Turkey	421	2%
9	UK	353	2%
10	Italy	348	2%
	Other	8,168	42%
TOTAL		19,489	100%

TRAINING AIRCRAFT/HELICOPTERS			
	Country	Active fleet	Share
1	USA	2,809	26%
2	Japan	432	4%
3	Egypt	388	4%
4	China	352	3%
5	Russia	346	3%
6	UK	343	3%
7	South Korea	277	3%
8	Turkey	276	3%
9	India	263	2%
10	France	263	2%
	Other	4,867	46%
TOTAL		10,616	100%

Fleet size For leading countries by role

2016

COMBAT AIRCRAFT			
	Country	Active fleet	Share
1	USA	2,785	19%
2	China	1,528	11%
3	Russia	1,438	10%
4	India	809	6%
5	North Korea	572	4%
6	Egypt	427	3%
7	South Korea	426	3%
8	Pakistan	394	3%
9	Taiwan	287	2%
10	Japan	287	2%
	Other	5,599	37%
TOTAL		14,552	100%

SPECIAL MISSION			
	Country	Active fleet	Share
1	USA	754	37%
2	Japan	159	8%
3	Russia	137	7%
4	China	78	4%
5	India	76	4%
6	Brazil	50	2%
7	France	42	2%
7	Indonesia	42	2%
9	Israel	41	2%
9	Spain	41	2%
	Other	627	30%
TOTAL		2,047	100%

TANKER			
	Country	Active fleet	Share
1	USA	586	78%
2	Russia	19	3%
3	Saudi Arabia	18	2%
4	France	14	2%
5	Israel	13	2%
6	Singapore	9	1%
6	UK	9	1%
8	India	7	1%
8	Italy	7	1%
8	Turkey	7	1%
	Other	65	8%
TOTAL		754	100%

TRANSPORT			
	Country	Active fleet	Share
1	USA	1,059	25%
2	Russia	365	9%
3	India	230	5%
4	China	181	4%
5	France	136	3%
6	Brazil	130	3%
7	Iran	87	2%
8	Turkey	83	2%
9	Japan	70	2%
10	Colombia	69	2%
	Other	1,874	43%
TOTAL		4,284	100%

COMBAT HELICOPTERS			
	Country	Active fleet	Share
1	USA	5,762	29%
2	Russia	1,218	6%
3	China	801	4%
4	South Korea	679	3%
5	India	646	3%
6	Japan	625	3%
7	France	538	3%
8	Turkey	423	2%
9	Italy	373	2%
10	Germany	345	2%
	Other	8,240	43%
TOTAL		19,650	100%

TRAINING AIRCRAFT/HELICOPTERS			
	Country	Active fleet	Share
1	USA	2,771	26%
2	Japan	444	4%
3	Egypt	387	4%
4	Russia	370	3%
5	China	352	3%
6	UK	330	3%
7	India	318	3%
8	Turkey	276	3%
9	France	268	2%
10	South Korea	256	2%
	Other	5,048	47%
TOTAL		10,820	100%

Fleet size For leading countries by role

2017

Combat aircraft

	Country	Active fleet	Share
1	USA	2,771	19%
2	China	1,523	10%
2	Russia	1,523	10%
4	India	806	6%
5	North Korea	572	4%
6	Egypt	426	3%
6	South Korea	426	3%
8	Pakistan	391	3%
9	France	296	2%
10	Japan	288	2%
	Other	5,617	38%
	Total	14,639	100%

Special mission

	Country	Active fleet	Share
1	USA	757	38%
2	Russia	153	8%
3	Japan	128	6%
4	China	84	4%
5	India	82	4%
6	France	44	2%
7	Indonesia	42	2%
8	UK	40	2%
9	Brazil	38	2%
9	Germany	38	2%
	Other	610	30%
	Total	2,016	100%

Tanker

	Country	Active fleet	Share
1	USA	590	78%
2	Saudi Arabia	20	3%
3	Russia	19	2%
4	France	14	2%
5	Israel	13	2%
6	Singapore	9	1%
6	UK	9	1%
8	India	7	1%
8	Italy	7	1%
8	Turkey	7	1%
	Other	66	8%
	Total	761	100%

Transport

	Country	Active fleet	Share
1	USA	1,058	25%
2	Russia	375	9%
3	India	232	5%
4	China	184	4%
5	France	131	3%
6	Brazil	128	3%
7	Iran	88	2%
8	Turkey	83	2%
9	Colombia	71	2%
9	Germany	71	2%
	Other	1,854	43%
	Total	4,275	100%

Combat helicopter

	Country	Active fleet	Share
1	USA	5,757	29%
2	Russia	1,360	7%
3	China	809	4%
4	South Korea	709	4%
5	India	652	3%
6	Japan	637	3%
7	France	537	2%
8	Turkey	430	2%
9	Italy	382	2%
10	Germany	359	2%
	Other	8,530	42%
	Total	20,162	100%

Training aircraft/helicopters

	Country	Active fleet	Share
1	USA	2,831	25%
2	Japan	447	4%
3	Russia	387	4%
4	Egypt	384	4%
5	China	352	3%
6	India	325	3%
6	UK	325	3%
8	France	283	2%
9	Turkey	276	2%
10	South Korea	273	2%
	Other	5,306	48%
	Total	11,189	100%

USAF ~1990

USN

USAF ~2020

USN

"Hi"



F-15



F-14



F/A-22



F/A-18E/F

"Lo"



F-16



F/A-18



F-35A



F-35C

T-50 PAK FA

J-20

F-22A

F-15

F-16



scale 1/100

(m) 0

22m

21,10m

18,92m

19,40m

15,03m



(m) 0

15,96m

15,67m

14,87m

14,36m

14,17m



(m) 0



Eurofighter Typhoon

F-35A

KFX C200

KFX C100

ATD-X

Comparative features of T-50 and similar foreign aircraft



T-50
RUSSIA



F-22
UNITED STATES



J-20
CHINA

Max. takeoff weight	35480 kg	38000 kg	36000 kg
Combat load	10000 kg	10370 kg	n/a
Maximum speed	2600 km/h	2410 km/h	2000 km/h
Maximum range	5500 km	3400 km	5500 km
Service ceiling	20000 m	22000 m	20000 m
Maximum target detection range	up to 400 km	up to 210 km	n/a
Number built	3	181	2