

4. IRAN

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Major Changes

- Iran continues its nuclear weapon project in spite of massive international pressure not to do so.
 - The Iranian military industry continues to develop more and more advanced systems. Among these are long range coastal anti ship missiles, Submarine launched and airborne versions of anti ship missiles, long range ballistic missiles (principally the two stage solid-fuelled Sejil missile, and the satellite launch vehicle Safir and Simorgh), midget submarines (Ghader and Nahang), missile boats (Sina and Mowj class) and patrol boats. Serial production of combat aircraft like the Azarakhsh and Saegheh, and UAVs.
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General Data

Official Name of the State: Islamic Republic of Iran

Supreme Religious and Political National Leader

(Rahbar): Ayatollah Ali Hoseini Khamenei

Head of State (formally subordinate to National Leader):

President Mahmud Ahmadinejad

Minister of Defense: Ahmed Vahidi

General Commander of the Armed Forces: Major General Ataollah Salehi

Head of the Armed Forces General Command Headquarters: Major

General Hasan Firuzabadi

Chief of the Joint Staff of the Armed Forces: Brigadier General Abdolrahim Mousavi

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Commander of the Ground Forces: Brigadier General Ahmad-Reza

Pourdastan

Commander of the Air Force: Brigadier General Hassan Shahsafi

Commander of the Air-Defense Forces: Brigadier General Farzad Esmayeeli

Commander of the Navy: Rear Admiral Habibollah Sayyari

Commander-in-Chief of the Islamic

Revolutionary Guards Corps (IRGC): Major General Mohammed Ali Jaafari

Chief of the Joint Staff of the IRGC: Brigadier General Mohammed Hejazi

Commander of the IRGC Ground Forces: Brigadier General Mohammad

Pakpour

Commander of the IRGC Air Wing: Brigadier General Amir Ali Hajizadeh

Commander of the IRGC Naval Wing: Rear Admiral Ali Fadavi

Commander of the IRGC Resistance Force (Basij): Brigadier General

Mohammed Reza Naqbi

Area: 1,647,240 sq. km. (not including Abu Musa Island and two Tunb islands;
control disputed)

Population: 75,200,000 est.

Demography

Ethnic groups		
• Persians	38,352,000	51.0%
• Azeris	18,048,000	24.0%
• Gilaki and Mazandarani	6,016,000	8.0%
• Kurds	5,264,000	7.0%
• Arabs	2,256,000	3.0%
• Balouchis	1,504,000	2.0%
• Turkmen	1,504,000	2.0%
• Lurs	1,504,000	2.0%
• Others	752,000	1.0%
Religious groups		
• Shi'ite Muslims	66,928,000	89.0%
• Sunni Muslims	7,520,000	10.0%
• Christians, Zoroastrians, Jews, Bahais and others	752,000	1.0%

Iran

Economic Data

		2007	2008	2009	2010	2011
• GDP (current prices)	\$ bn	307.3	350.6	360.6	419.1	482.4
• GDP per capita	\$	4,312	4,857	4,926	5,638	6,420
• Real GDP growth	%	6.4	0.6	3.9	5.9	2.0
• Consumer price index	%	18.4	25.4	10.8	12.4	21.5
• External debt	\$ bn	21.5	15.7	18.3	20.0	19.1
• Current account balance	\$ bn	32.6	22.8	9.5	25.3	60.1
Government expenditure						
• Government expenditure/ GDP	%	21.6	24.7	22.6	21.1	25.0
• Defense expenditure	\$ bn	11.1	7.5	NA	NA	NA
• Real change in defense expenditure	%	-10.4	-17.5	NA	NA	NA
• Defense expenditure / GDP	%	2.5	1.8			
Population	m	71.3	72.2	73.2	74.4	75.2
Official exchange rate	IR: \$1	9,281	9,428	9,864	10,254	10,616

Sources: EIU Quarterly Report, EIU Country Profile, IMF International Financial Statistical Yearbook, SIPRI Yearbook

Foreign Military Cooperation

Type	Details
• Forces deployed abroad	150 IRGC troops in Lebanon; 1,000 intelligence officers and military personnel in Syria (2009)
• Joint maneuvers	India (2003), Italy (2001), Oman (2011), Pakistan (naval maneuvers - 2008)
• Security agreements	Azerbaijan (2005), India (2003), Iraq (2005), Lebanon (2008), Pakistan (2003), Sudan (2007), Syria (2007), Tajikistan (2005), Ukraine (2007), Venezuela (2009)

Arms Trade

Arms Procurement and Security Assistance Received

Country	Type	Details
Eritrea	• Facilities	Use of Naval base at Assab (2009)
North Korea	• Arms transfers	PBs (2007), BM-25 SSMs (2010), Yono mini-submarines (2007)
	• Assistance	North Korean technicians assisting Irani nuclear program (2011)
PRC	• Arms transfers	J-10 aircraft (2007)
	• Cooperation in R&D and arms production	C-802, TL-6 and TL-10 ASCMs (2009)
Russia	• Arms transfers	S-300 PMU SAMs (cancelled - 2010), L222 Avtobaza ESM (2011)
	• Assistance	Nuclear technicians in Bushehr (2009)

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UK	• Arms transfers	Challenger PBs (2010)
Ukraine	• Arms transfers	An-140 transport aircraft (2008), AN-148 transport aircraft (2011)
USA	• Arms transfers	Spare parts for American-made aircraft (unauthorized by government)

Arms Sales and Security Assistance Extended

Country	Type	Details
Afghanistan	• Arms transfers	122mm Arash MRLs (2011)
Bangladesh	• Cooperation in arms production	Upgrading of Type 59 MBTs (2010)
Iraq	• Arms transfers	240mm MRLs (2008), 107mm MRLs (2008), WQ-1 SAMs (2008)
Lebanon	• Arms transfers	Hizbullah militia: artillery, MRLs (2008) , ATGMs, SA-7/14 SAMs, Muhajer UAV (2008)
	• Assistance	\$100 million annual grant to Hizbullah militia
	• Military training	Training Hizbullah fighters in Iran (2008)
North Korea	• Assistance	Founding for SSM projects
Palestinians	• Arms transfers	Igla/ Misagh SAMs for Hamas (2009), 107/122mm MRLs (2010), Nasr-1 SSMs (2010)
	• Assistance	\$20 million annually for Hamas
Sudan	• Arms transfers	Ababil UAVs (2011)
Syria	• Assistance	IRGC and al-Quds Force personnel involved in fighting against Syrian opposition (2012).
	• Cooperation in arms production, R&D	Joint development of Scud D and M600 (Fateh-110) SSMs (2009)
Venezuela	• Arms transfers	Mohajer UAVs (2012)

Defense Production

	M	P	A
Weapons of mass destruction			
• Assembly and production of Scud C, Shehab-2, Shehab 3, Qiam and Kosar SSMs (with China, North Korea, Russia and possibly also Pakistan)	✓		✓
• Fateh-110 and Tondar-69 Solid-fuel SSM	✓		
• Chemical agents (Mustard, Sarin, Soman, Tabun, VX)	✓		
Army equipment			
• Production of Russian T-72S tanks		✓	
• Zulfikar and Towsan tanks	✓		✓
• Upgrading of T-55 tanks to Iranian model Type 72Z	✓		

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	M	P	A
• Upgrading of T-54 tanks to Iranian model Safir-74	✓		
• Boragh, Cobra, Howiezeh ,Sayyad, Rakhsh APCs	✓		
• Upgraded Chieftain MBTs	✓		
• Upgraded BTR-60 APCs	✓		
• Fajer, Falaq, Nazeat, Shahin and Zelzal rockets	✓		
• 122, 160, and 240mm MRLs	✓		
• 122mm Thunder-1(HM51) and 155mm Thunder-2 (HM44) SP guns	✓	✓	
• 122mm (HM40) and 155mm (HM41) towed guns			
• 81, 120, 130 and 320mm mortars and artillery ammunition	✓		
• Dehlaviyeh (AT-14), Raad (AT-3), Thunder , Towsan (AT-5), Toophan (TOW) and Saeghe (Dragon) ATGMs	✓		
• Basir/ Krasnopol-M laser-guided projectile		✓	
• Badr-400 and Timaz AFV transporters	✓		
• RPG-7, Nafez and Saegheh ATRLs	✓	✓	
• ERA protection for various tanks	✓		
• Gas masks	✓		
• Spare parts, trucks	✓		
Air Force equipment			
• Shafagh, Saegheh attack aircraft	✓		
• Azarakhsh and Owaz fighter aircraft	✓		
• Tazarve, Kosar training aircraft	✓		
• An-140 and An-74 transport aircraft		✓	✓
• 2061 and 2091 attack helicopters	✓	✓	
• Panha , Shhbaviz 275, Shahed 274, Shahed 278, Shahriar helicopters	✓	✓	
• OH-78, Shahed 478, Shahed 285 light attack helicopters	✓		
• Fajr F-3 (Cirrus), S-68 (PC-7), and Parasto training aircraft	✓	✓	
• Ababil, Nazir, Muhajer, Saeqeh, Shaparak, and Tallash UAVs	✓		
• Karrar , Shahad 129 attack UAV	✓		
• Upgrading of F-4, F-5 and F-14 aircraft	✓		
• Upgrading of Simorgh, Sadaf AEW aircraft	✓		
• Fatteh (Conversion of HAWK to AAM)	✓		
• IR-seeking AAMs		✓	
• ZU-23mm anti-aircraft guns		✓	
• Bavar 373, Misagh-1/2 (QW-1) , Mersad, Qaem, Raad (SA-17), Sayyad, Shahin (Hawk), Shalamcheh, Ya-Zahara (HQ-7) SAMs	✓		
• Reverse engineering of Crotale and Rapier SAMs	✓		
• Kosar (TL-10), Fajr-y-Darya (C-701), Noor (C-802) ASCMs	✓		
• 23mm ZSU/ Mesbah-1/ Sair AD gun		✓	
• Sattar, Qassed Laser-guided missiles	✓		
• ARM missiles	✓		
• Xh-55 ALCMs	✓	✓	
• Qadr, Zoobin TV-guided missiles	✓		

Iran

	M	P	A
• Tollou mini jet engines	✓		
• Spare parts for aircraft	✓		
Electronics			
• FCS for T-72 MBTs	✓		
• Radio transceivers (copy of US models)	✓		
• Training simulators for aircraft and MBTs	✓		
• Hasib, 110-S, 110-D ground radars	✓		
• Basir-110, Ghadir (MPQ-50), and phased-array AD radars	✓	✓	
• HMS-100/200/400/500 EO surveillance systems			
• Imaging camera for satellites	✓		
• Laser detector	✓		
• Night vision systems	✓		
Naval equipment			
• Mowj destroyers, Sina Frigates	✓		
• Ashura, Paykan, Tareq, Tir, Seraj and Zulfaqr patrol craft	✓		
• MIG-S-1800, MIG-S-1900 and MIG-S-2600 patrol crafts	✓		
• MIG-S-3700 LCU (Foque class)	✓		
• Younes-6 hovercraft	✓		
• Sabehat-15, Ghadir, Nahang, Qaem midget submarines	✓		
• Kosar (TL-10) , Nasr (C-704/ TL-6) , Noor/ Qader (C-802) , Raad (HY-2) , Sagheb (C-801), Tondar SSMs		✓	
• Upgrading of Standard missiles to naval SAMs	✓		
• Hendijan auxiliary vessels	✓		
Space			
• Fajr, Mesbah, Navid, Omid, Rasad, Tolou, satellites	✓		

Note: M – manufacture (indigenously developed)

P – production under license

A – assembly

Note: Some of the weapons systems may be copies of foreign types and not indigenously developed. In addition, some may be only prototypes, which were displayed for propaganda purposes and are not in production.

Iran

Strategic Assets

NBC Capabilities

Nuclear capability

One 5 Mw research reactor acquired from the US in the 1960s (in Tehran) and one small 30 kW miniature neutron source reactor (in Esfahan). One 1,000 Mw VVER power reactor under construction, under a contract with Russia, in Bushehr, Uranium enrichment facility in Natanz and heavy water production facility in Arak - connected to an alleged nuclear weapons program. Party to the NPT. Safeguards agreement with the IAEA in force.

Chemical weapons and protective equipment

In 1999 Iran admitted that in the past it had possessed chemical weapons.

Party to the CWC, but nevertheless suspected of still producing and stockpiling mustard, sarin, soman, tabun, VX and other chemical agents. Suspected delivery systems include aerial bombs, artillery shells and SSM warheads. PRC and Russian firms and individuals allegedly provide assistance in CW technology and precursors. Personal protective equipment and munitions decontamination vehicles.

Biological weapons

Suspected biological warfare program; no details available. Party to the BWC.

Ballistic Missiles

Model	Launchers	Missiles	Notes
• SS-1 (Scud B/ Scud C)	~20	300 Scud B, 100 Scud C	
• Shehab-2	+	+	Probably similar to the Syrian Scud-D
• Shehab-3 / 3B Ghadir	10	300	
• BM-25	+	18	Operational status unknown
• Tondar-69 (CSS- 8)	16		
• Qiam-1	+	+	Liquid fuel
• Fateh-110	+		
Total	~60		
Future procurement			
• Shehab 3B/ Ghadir			Includes new RV, believed to be in production
• Ashura / Sejjil			Solid propellant.

Iran

Space Assets

Name	Type	Notes
Satellites		
• Sina-1	Remote sensing	170 kg satellite with 50m resolution camera for earth observation.
• SMMS	Remote sensing	Civilian multi-mission satellite, launched in cooperation with China and Thailand.
Legacy satellites		
• Rasad	Research	15kg micro satellite. Returned to earth after three weeks in orbit.
• Omid	Research	20 kg micro satellite. Returned to earth after three months in orbit.
• Navid	Research	50kg micro satellite. Returned to earth after two months in orbit.
Ground station		
• Semnan		Ground command and communication station
• IRSC	Remote sensing	Multi spectral remote sensing
Satellite launcher		
• Kavoshgar		Sounding rocket
• Safir / Simorgh		SLV
Future procurement		
• Toloo	Reconnaissance	80 kg military reconnaissance satellite, to 400km orbit; 50m resolution.
• Besharat	Communication	Civilian communication satellite, in cooperation with the Organization of Islamic Countries.
• Fajr	Reconnaissance	50 kg reconnaissance satellite, probably destroyed during failed launch attempt
• Ya-Mahdi	Research	Test bed for indigenous camera equipment.
• Mesbah-2	Research	Indigenously build, 65 kg, store and forward satellite.
• Zohreh	Communication	Russian-built communication satellite.

Command and Control Assets

Name	Description
Air defense	
EW	National EW network which connects ground based radars with regional and national command centers.

Iran

Naval surveillance
Hodhod

Integrating data from infrared, CCD cameras, and radars into regional control centers.

Armed Forces

Order-of-Battle

Year	2008	2009	2010	2011	2012
General data					
• Personnel (regular)	520,000	520,000	520,000	520,000	520,000
• SSM launchers	60	60	60	60	60
Ground forces					
• Divisions	32	32	32	32	32
• Total number of brigades	87	87	87	87	87
• Tanks	~1,620	~1,620	~1,620	~1,620	~1,620
• APCs/AFVs	~1,400	~1,400	~1,400	~1,400	~1,400
• Artillery (including MRLs)	~2,700 (~3,000)	~2,700 (~3,000)	~2,700 (~3,000)	~2,700 (~3,000)	~2,700 (~3,000)
Air force					
• Combat aircraft	237 (343)	235 (341)	224 (320)*	224 (320)	224 (320)
• Transport aircraft	101 (125)	105 (129)	105 (129)	105 (129)	105 (129)
• Helicopters	340 (570)	340 (570)	340 (570)	340 (570)	340 (570)
Air defense forces					
• Heavy SAM batteries	30	30	30	30	30
• Medium SAM batteries	6	6	6	6	6
• Light SAM launchers	120	120	120	120	120
Navy					
• Submarines	8	8	11	14	18
• Combat vessels	90	90	106*	108	110
• Patrol craft	185	185	150	150	150

* Due to change in estimate.

Personnel

	Regular	Reserves	Total
Ground Forces	~350,000	350,000	~700,000
Air Force	18,000		18,000
Air Defense	12,000		12,000

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Navy	~18,000		~18,000
IRGC – Ground Forces	100,000		100,000
IRGC – Navy	20,000		20,000
Total	~520,000	350,000	870,000
Paramilitary			
• LEF	120,000		120,000
• Baseej		2,000,000	2,000,000

Ground Forces

Formations

	Corps / armies	Divisions	Independent brigades / groups	Brigades in divisions
All arms	4			
Armored		4	1	3 armd., 1 mech., 1 aty. each
Mechanized/ Infantry		6	1	4 inf., 1 aty. each
Airborne			1	
Special forces		2	5	3 commando each
Artillery			6	
Total	4	12	14	

IRGC Formations

	Divisions	Independent brigades / groups	Brigades in divisions
Armored	4		
Mechanized/ Infantry	16		
Special forces		3	
Artillery		6	
SSM		1-2	
Total	20	10-11	

Note: The IRGC has possibly reorganized as 26 divisions without independent brigades. IRGC divisions are smaller in size than army divisions, sometimes equivalent to the strength of one brigade.

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Tanks					
Model	Quantity	In service	Since	Notes	
MBTs					
High quality					
• T-72 S/M1	422	422	1990	Indigenously assembled tanks. Based on estimated production rate of 20 per year	
• Zulfikar	~100	~100	1996		
Subtotal	~520	~520			
Medium and low quality					
• Chieftain MK 3/ MK 5	~100	~100	1973	Type 69/Type 59/Type 72Z/Safir 74	
• T-62	50	50	1982		
• T-55 and derivatives	~550	~550	1985/1996		
• M60 A1	150	150	1972		
• M48/M47	150	150	1958		
Subtotal	~1,000	~1,000			
Light tanks					
• Scorpion	~80	~80	1977		
• Towsan	+	+	1998		
Subtotal	~100	~100			
Total	~1,620	~1,620			
Future procurement					
• Zulfikar				Being produced locally	

APCs/AFVs					
Model	Quantity	In service	Since	Notes	
APCs					
• M113	200	200	1968	Based on estimated production rate of 20 per year	
• Boragh	140	140	1996		
• BTR-50/60	300	300	1967		
• MT-LB	+	+			
Subtotal	~650	~650			
IFVs					
• BMP-1	300	300	1977	Indigenously assembled	
• BMP-2	413	413	1991		
Subtotal	713	713			

Iran

Reconnaissance

• Engesa EE-9 Cascavel	35	35	1982
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Total	~1,400	~1,400
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Artillery

Model	Quantity	In service	Since	Notes
Self-propelled guns and howitzers				
• 203mm M110	~30	~30	1976	
• 175mm/170mm Koksan M-1978	~20	~20	1994	
• 175mm M107	25	25	1975	
• 155mm M109	440	~150	1978	
• 155mm Thunder/ Raad 2	+	+	1998	Indigenously developed
• 122mm Thunder/ Raad 1	+	+	1998	Indigenously developed
• 122mm 2S1	60	~50	1993	
Subtotal	~600	~300		
Towed guns and howitzers				
• 203mm (8") M-115	30	~30	1974	
• 155mm G-5	30	30	1989	
• 155mm GHN-45	100	100	1988	
• 155mm M114	~100	~100	1970	
• 152mm (PRC)	30	30		
• 130mm M-46/ Type 59	~800	~800	1973	
• 122mm D-30	~500	~500	1982	
• 122mm Type 54/60	~100	~100	1990	
• 105mm M101	~200	~200	1966	
Subtotal	~1,900	~1,900		
Mortars, over 160mm				
• 320 mm	+	+		
Mortars, under 160mm				
• 120mm M-65	+	+	1980	
• 107mm (4.2") M-30	+	+	1981	
MRLs				
• 240mm Fadjr-3	+	+	1994	
• 230mm Oghab	+	+	1987	
• 122mm BM-21	~100	~100	1978	
• 122mm Hadid/ Azrash/Nur	50	50	1994	
• 107mm Type 63	100	100	1986	
Subtotal	~250	~250		

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Rockets

• 610mm Zelzal-2	+	+	1998
• 355mm Nazeat	+	+	1988
• 333mm Fadjr-5	+	+	1998
• 333mm Shahin 2	+	+	1989
Total	~ 3,000	~ 2,700	

Ground radars

110D, 110S

Logistic and Engineering Equipment

Pontoon bridges, light infantry assault boats, self-propelled pontoons, AFV transporters (several hundred)

Precision-Guided Munitions

AT-3 (Sagger), AT-4 (Spigot), AT-11 (Spandrel), BGM-71A TOW, Dehlaviyeh (AT-14), Krasnopol-M, Raad (AT-3), SS-11/SS-12, Towsan (AT-5), Toophan (TOW)

Air Force

Order-of-Battle

Category	Quantity	In service	Notes
Combat	320	224	
Transport	129	105	
Helicopters	570	340	

Note: all figures include aircraft with army and navy aviation.

Combat Aircraft

Model	Quantity	In service	Since	Notes
Interceptors				
• F-14A Tomcat	57	35	1972	Being upgraded
• MiG-29	34	24	1990	
Subtotal	91	59		
Multi-role				
• F-4 D/E	55	36	1968	6 of which are RF-4E
• Phantom				
• Mirage F1-E	21	10	1991	
Subtotal	76	46		
Ground attack				
• Su-24	22	22	1991	
• Su-25	13	13	1991	Upgraded

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Model	Quantity	In service	Since	Notes
• Saegheh	12	12	2006	Indigenously developed; low production rate
• Azarakhsh	6	6	2000	
Subtotal	53	53		
Obsolete				
• F-7	50	24	1987	
• F-5 A/B/E	50	42	1974	
Subtotal	100	66		
Total	320	224		
Future procurement				
• J-10	24			Negotiations with china
• Saegheh	25			Indigenously developed; low production rate
• Su-27				Negotiations with Russia

Transport Aircraft

Model	Quantity	In service	Since	Notes
• Iran-140	9	9	2000	Low production rate
• IL-76MD	12	12	1990	Some in service
• Y-7	14	14	2004	Being delivered
• Y-12	9	9	2000	7 employed in maritime surveillance role
• An-74	11	11	1999	
• C-130 E/H Hercules	43	19	1970	Some in electronic surveillance and maritime patrol
• Boeing 747	5	5	1976	
• Boeing 707 and KC-707 tanker	3	3	1973	Including Boeing 707s in electronic surveillance/

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Model	Quantity	In service	Since	Notes
• Aero Commander 690	3	3	1978	ECM/ECCM role
• Dornier Do-228	4	4		Employed in maritime surveillance role
• Fokker F-27 400M/ 600	14	14	1972	4 are employed in maritime patrol missions
• Mystère-Falcon 20	1	1	1991	
• Jetstar	1	1		
Total	129	105		
Future procurement				
• AN-148	50			
• Tu-204	100			
• Iran-140	45			

Training and Liaison Aircraft

Model	Quantity	In service	Since	Notes
Jet trainers				
• Tazarve	5	5	1999	Indigenously developed; low production rate
• T-33	9	9	1968	
Subtotal	14	14		
Piston/ Turbo-prop				
• Beechcraft Bonanza F-33	~25	~25	1974	
• Cessna 185/180/150	10	10	1978	
• Embraer EMB-312 (Tucano)	23	23	1989	
• Mushshak (PAC Mushshak)	25	25	1991	
• Socata TB 21/ TB 200 (Trinidad/ Tobago)	12	12	1996	
• Parastu	12	12	1997	
• Pilatus PC-7/ S-68	45	45	1983	
• Pilatus PC-6	15	15	1982	
Subtotal	167	167		
Total	181	181		

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Model	Quantity	In service	Since	Notes
Future procurement				
• Tazarve	25			Indigenously developed; low production rate

Helicopters

Model	Quantity	In service	Since	Notes
Attack helicopters				
• AH-1J Cobra/ Shabaviz 2091/ Toophan	90	65	1974	
• Shahed 285	10	10	2009	
Subtotal	100	75		
Naval combat				
• ASH-3D	9	6	1977	
• RH-53D/SH-53D	~25	6	1976	
• AB-212/Shaviz 2-75	9	6	1971	
Subtotal	~ 40	18		
Heavy transport				
• CH-47C Chinook	25	25	1973	
Medium transport				
• AB-214A	~200	~70	1974	
• AB-205	50	50	1969	
• Mi-171(Sh)	45	45	2000	Some are armed
• SA-330/IAR-330 Puma	+	+		
• AS-61	2	2	1978	
Subtotal	~300	~170		
Light transport				
• AB-206 Jetranger /Shabaviz 2061	90	40	1969	Possibly some armed
• IAR-316	12	12	1994	
• IAR-317	+	+		
Subtotal	~105	~55		
Total	570	340		

Miscellaneous Aircraft

Model	Quantity	In service	Since	Notes
Surveillance				
• RC-130	2	2	1970	
• RF-4E	6	6	1974	

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Model	Quantity	In service	Since	Notes
Electronic surveillance				
• Sadaf	+	+	2010	Type mentioned by the Iranian media – unknown type
Maritime surveillance				
• AN-140 MP Oghab	1	1	2012	
• Bavar-2	12	12	2010	Indigenously built ultra-light sea-plane
• Dornier DO-228	2	2		Also listed under Transport Aircraft
• P-3F Orion	2	2	1974	
• C-130H MP	5	5	1970	Also listed under Transport Aircraft
• Y-12 MP	7	7	2000	Also listed under Transport Aircraft
• Fokker F-27 400M/600 MP	2	2	1972	Also listed under Transport Aircraft
Tanker				
• KC-707	3	3	1974	Also listed under Transport Aircraft
• Boeing 747	5	5	1974	Also listed under Transport Aircraft
Target drones				
• Tallah I/II	+	+	1996	
• Saeqeh I/II	+	+	1996	
UAVs				
• Ababil-S	+	+	1999	
• Ababil-T	+	+	1999	
• Mohajer III (Dorne)	+	+	1997	
• Mohajer IV	+	+	2002	

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Model	Quantity	In service	Since	Notes
(Hodhod)				

Advanced Armament

Air-to-air-missiles

AA-10 (Alamo), AA-11 (Archer), AIM-54A Phoenix (280), AIM-9L Sidewinder (1,270), AIM-7 Sparrow (430), PL-2 (540), PL-7 (360), Fattar (Sidewinder), Sedjil (modified Hawk)

Air-to-ground-missiles

AGM-65 Maverick, AS-10 (Karen), AS-12, AS-15 (Kh-55), C-801K, Fajr e-Darya (C-701), Kosar (TL-10) , Noor (C-802) , Towsan, Toophan, , Zoobin

Guided bombs

Sattar, Qadr, Qassed-1/2/3

Future procurement

AA-11 (Archer AAM), AA-12

Note: Number in parentheses refers to quantity of missiles purchased, not current inventory levels.

Air Force Infrastructure

Aircraft shelters

In all operational airfields

Military airfields

13

Bandar Abbas, Birjand, Bushehr, Chah-Bahar, Ghaleh-Marghi, Isfahan, Kerman, Kharg Island, Mehrabad, Mashhad, Qeshm, Shiraz, Tabriz, Tehran, Zahedan

Iran

Air Defense Forces

Surface-to-Air Missiles

Model	Batteries	Launchers	Since	Notes
Heavy missiles				
• Mersad/ Shahin/ (MIM-23B Improved HAWK)	~15		1964/ 2010	Hawks upgraded by Iranian defense industry.
• SA-2 (S-125) / Sayyad	~10		1986	May be under control of IRGC
• SA-5 (S-200)	4		1995	Being upgraded
Total	~30			
Medium missiles				
• Raad (SA-17)	+		2010	Upgrading of SA-6 batteries with 9M317 missiles
• Tor-M1 (SA-15)	6	29	2006	
Total	6			
Light missiles				
• HQ-7/ FM-80 (Ya Zahra)		24	2000	Part of Skyguard ADS
• Rapier		30	1971	To be upgraded
• RBS-70		50	1984	
• Tigercat		15	1968	
Total		120		
Shoulder-launched missiles				
• Igla/ QW-1 (SA- 16)		700	2000	
• FIM-92A Stinger		+	1987	With IRGC
• Misagh-1/2		+	2002	Sometimes spelled as Mithaq-1/2
• SA-7 (Grail) /HN-5A /SA-14		+	1974	
Future procurement				
• Pantsyr		10		Alleged

Iran

Other Air Defense Systems

Model	Quantity	In service	Since	Notes
Air defense systems (missiles, radars and guns)				
• Skyguard ADS	24	24		Including 35mm guns and missiles
• Mesbah-1	+	+	2011	Including ZSU-23mm guns and radar
Short-range guns				
• 57mm ZSU 57x2 SP	100	100	1974	
• 57mm S-60	50	50	1966	
• 40mm L-70	95	95		
• 40mm M1	20	20	1968	
• 35mm GDF	100	100		Part of Skyguard
• 23mm ZSU 23x4	75	75	1974	Included in Mesbah-1
• 23mm ZU 23x2	500	500	1977	
Total	940	940		
Radars				
• Samen	+	+	2012	
• Indigenous VHF radar	+	+	2011	Similar to the Russian Nebo-SVU, possibly part of the Bavar 373 AD system
• Ghadir (MPQ-50)	+	+	2010	Part of the Mersad AD system
• Kasta 2E	+	+	2011	
• JY-14	+	+	1998	
• AR-3D	+	+		

Iran

Navy

Submarines

Type	Quantity	Length (m.)/ displacement (t.)	Notes / armament
• Tareq (Type 877 Kilo class)	3	73.8/3,076	Sagheb (C-801) SSMs 6x533 torpedoes 24 mines. Two of them overhauled by 2012
Midget submarines			
• Nahang	1	25m	Indigenously build
• Ghadir (Yono IS 120)	14	29/123	Quantities are unconfirmed; North Korean design 2x533 torpedoes
Total	18		
Future procurement			
• Ghadir (Yono)	3	29/123	

Combat Vessels

Type	Quantity	Length (m.)/ displacement (t.)	Notes / armament
Missile frigates			
• Jarman (Mowj) class	1	95/1,400	Iranian manufactured; Nour/C-802 SSM 324mm torpedoes AB-212 helicopter
• Alvand class (Vosper Mk 5)	3	94.5/1,100	4xC-802 SSM 1xMK-10 ASW mortar 6x324mm torpedoes 1x114mm gun 2x35mm guns 3x20mm guns
Subtotal	4		
MFPBs			
• Kaman class (Combattante II)	10	47.0/249	4xC-802/Harpoon SSMs Standard SAMs 1x76mm gun 1x40mm gun
• Sina (Combattante) class	3	47.0/249	Iranian manufactured; Based in the Caspian sea 4xC-802/Harpoon SSMs

Iran

• Thondor class (Houdong)	10	36.6/171	1x76mm gun 1x40mm gun 4xC-802 SSMs 2x30mm guns
• Mk 13	10	14m	2xFL-10 SSMs 2x324mm torpedoes
• Wellington (BH-7) hovercraft	4	23.9/53.6	Nour (C-802) SSM 107mm MRLs
• Thondar (SRN-6) hovercraft	2	14.8/10	Nour (C-802) SSM 107mm MRLs
• China cat (C-14) class	9	13.7/17.0	4xC-701/FL-10 SSMs 2x25mm guns
Subtotal	48		
Gun corvettes			
• Bayandor class (PF-103)	2	84/900	2x76mm guns 2x40mm guns 2x20mm guns
Light torpedo boats			
• Kajami (Taedong B)	3	21/30	Semi-submersible fast attack vessel
• Tir class	10	20.0/30	1xNoor (C-802) SSM 2x torpedoes
• Peykaap 2	25	17/13.8	2xFL-10/C-701 SSMs
• Peykaap 1	15	16.3/13.8	2x324mm torpedoes 1x12.7mm MG
• Gahjae (Taedong C)	3	15/7	Semi-submersible fast attack vessel
Subtotal	56		
Total	110		
Future procurement			
• Sina (Kaman) frigates	4		Under construction in Bandar Abbas
• Mowj corvettes	2	1400 t.	Under construction in Bandar Abbas

Patrol Craft

Type	Quantity	Length (m.)/ displacement (t.)	Notes / armament
• Parvin (PGM-71)	3	30.8/98	2xSSMs 1x40mm gun 2x20mm guns 2x12.7mm MGs
• Kaivan (Cape)	3	28.9/148	1x40mm gun 2x23mm guns 2x12.7mm MGs
• US Mk III	10	19.8/41.6	1x20mm gun 1x12.7mm MG

Iran

• Pashe (MIG-G-1900) Coastal Patrol Craft	10	19.5/30	2x23mm guns
• Ghaem (MIG-S-1800) Coastal Patrol Craft	20	18.7/60	1x20mm gun 1x12.7mm MG
• MIL 55 Inshore Patrol Craft	1	16.4/15.3	
• Kashdom 2 Inshore Patrol Craft	15	16/17.5	1x107mm MRL 1x23mm gun 1x12.7mm MG
• US Mk II	6	15.2/22.9	2x12.7mm MGs
• Boghammar	20	13 /6.4	1x107mm MRL 1x106mm RCL 3x12.7mm MGs RPG-7 ATRLs
• MIL 40 Inshore Patrol Craft	2	12.9/6	1x12.7mm MG
• Sewart Inshore Patrol Craft	3	12.2/9	1x12.7mm MG Based in the Caspian sea
• Tarlan	15	11.9/8.5	ATGMs
• Murce (MIG-G-0900) Inshore Patrol Craft	20	9.2/3.5	3x12.7mm MGs RPG-7 ATRLs 12x107mm MRL
• Ashoora (MIG-G- 0800) Inshore Patrol Craft	20	6.7/1.3	1x107mm MRL 1x12.7mm MG Boston Whaler type
• Various other small craft	+	5 - 7 m	Some with 12.7mm MGs
Total	~150		
Future procurement			
• Saraj	+		Indigenously developed
• Zulfaqar	+		Indigenously developed

Landing Craft

Type	Quantity	Length (m.)/ displacement (t.)	Notes / armament
• Wellington hovercraft (BH-7)	2	23.9/53.6	Additional 4 under MFPBs
• Hengam	4	93/2,540	Up to 9 tanks or 227 troops; 600 tons 4x40mm guns 8x23mm guns 2x12.7mm MGs
• Iran Hormuz 24 LST	3	73.1/2,014	9 tanks or 140 troops
• Iran Hormuz 21 LST	2	65/1,280	600 ton
• LCT	2	11.6/49	800 ton

Iran

• Karbala (MIG-S-3700) LSL	6	37/276	140 ton
Total	20		
Future procurement			
• Younes-6	+		

Auxiliary Vessels

Type	Quantity	Length (m.)/ displacement (t.)	Notes / armament
• Delvar support ship	6	64/890	765 dwt 2x23mm guns
• Bandar Abbas - Luhring Yard supply ship	2	108/4,673	3,250 dwt 1 AB 212 helicopter 3x20mm guns
• Kangan (Mazagon) water tanker	4	148/12,000	9,430 dwt 2x23mm guns
• Kharg (Swan Hunter) replenishment ship	1	207.2/33,014	9,367 dwt 3 Sea-king helicopters 1x76mm gun 2x23mm guns
• Hamzah support vessel	1	53.7/530	4xC-802 SSMs 1x20mm gun
• Hendijan (MIG-S- 4700)	12	50.8/460	40 ton on deck and 95m ³ liquid
• Kialas-C-Qasam	2	65 t.	Training vessels

Special Maritime Forces

Type	Quantity	Length (m.)/ displacement (t.)	Notes/armament
• Ya Mahdi	+		Alleged USVs
• Bradstone Challenger	+	15	Fast Attack crafts
• Sabehat 15/ SDV	8	8	Swimmer Delivery Vehicle, serviceability unknown

Coastal Defense

Type	Batteries	Missiles	Notes
Missiles			
• Nasr-1 (C-704)	+		
• Kosar (C-701)	+		
• HY-2 (Silkworm)	5	300	
• Qader (C-802)	15 - 25	~100	
• SS-N-22 (Sunburn)	1		Alleged; probably non-existent
Total	25-30	400	

Iran

Naval Infrastructure

Naval bases **10**

Babolsar, Bandar Abbas, Bandar Anzelli, Bandar Khomeini, Bandar Lengeh, Bushehr, Chah Bahar, Farsi Island, Jask, Kharg Island

IRGC naval bases **11**

Abadan oil terminal, Abu Musa Island, al-Fayisiyah Island, al-Salouyeh, Cyrus oilfield, Halul Island platform (unconfirmed), Larak Island, Qeshm Island, Rostam Island oilfield, Sir Abu Nuair, Sirri Island

Ship maintenance and repair facilities **1**

MAN Nordhaman 28,000-ton floating dock

Major Non-Governmental Paramilitary Forces

Pro-government organizations

Personnel

	Active
• Ismael Khan (Afghans)	1,000-2,000
• Kurdish Workers Party (PKK)	800
• Supreme Council for Islamic Revolution in Iraq (SCIRI)	15,000

Anti-government organizations

Personnel

	Active
• Jund Allah (Balouchis)	500
• Democratic Party of Iranian Kurdistan (DPIK)	10,000
