

Iranian Revolutionary Guard Corps Navy

A Small Craft Overview



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Fabio Buzzi RIB-33 high speed patrol boats ripple firing 107mm rockets.

The Islamic Republic of Iran has two navies; the Islamic Republic of Iran Navy or IRIN, and the Islamic Revolutionary Guard Corps Navy or IRGCN. The former, being a leftover from the Shah's rule, were viewed as unreliable and lacking in religious fervor. The latter was seen as being unprofessional and little more than an organized mob. Not surprising, they don't get a long even though they both serve to defend the Islamic Republic from naval threats.

Because of the difficulties in coordinating and working together, the Iranian leadership chose to separate the two navies and give them different areas of responsibility. The IRGCN was assigned the Persian Gulf and the IRIN was assigned the Gulf or Oman, Arabian Sea, the northern Indian Ocean and the southern Caspian Sea. Both the IRGCN and IRIN share responsibilities in defending the Strait of Hormuz.

Since this scenario takes place in the Persian Gulf, the opposition forces will be IRGCN assets. This overview will address the missile armed patrol boats and high-speed boats that could potentially interact with the LCS SAG. It is not an exhaustive discussion of all the boat classes available to the IRGCN.

The large majority of IRGCN patrol craft are armed with one or two 12.7mm machine guns and 122mm or 107mm unguided multiple rocket launchers. Some of the larger patrol boats have two or four anti-ship missiles based on Chinese designs. There is a brief technical synopsis of the three major anti-ship missiles in the IRGCN inventory at the end of this document.

Type 021 Houdong WPTG



Iranian Name: Thondor

Displacement: 205 tons

Max Speed: 35 knots

Radar: SR-47A SS/LAS, Furuno-1900 series Nav, Furuno-1700 series Nav

Armament: 4 x C802 or Noor ASCMs, 1 x Type 69 twin 30mm gun mount forward, 1 x twin 23mm ZU-23-2 mount aft

IPS-16 Peykaap III WPTG



Iranian Name: Zolfaghar

Displacement: 14 tons

Max Speed: 52 knots

Radar: MVR-88 (X-Band) SS

Armament: 2 x Nasr-1 (C704) ASCMs, 2 x Doshka 12.7mm machine guns

IPS-16 Peykaap II WPTG



Iranian Name: Bavar

Displacement: 14 tons

Max Speed: 52 knots

Radar: MVR-88 (X-Band) SS

Armament: 2 x Zafar (C701AR) ASCMs, 1 x Doshka 12.7mm machine gun aft

Cougar WPB



Iranian Name: Unknown

Displacement: 10 tons

Max Speed: 60 knots

Radar: Furuno-1600 series Nav

Armament: 1 x Doshka 12.7mm machine gun, 1 x 107mm MRL with 19 Fadjr-1 rockets

Bladerunner-35 WPB



Iranian Name: Seraj-1

Displacement: 2.5 tons

Max Speed: 46 knots

Radar: Furuno-1600 series Nav

Armament: 1 x Doshka 12.7mm machine gun, 1 x 107mm MRL with 11 Fadjr-1 rockets

Boghammar WPB



Iranian Name: Taregh

Displacement: 7 tons

Max Speed: 45 knots

Radar: Furuno-1600 series Nav

Armament: 1 x Doshka 12.7mm machine gun, 1 x 107mm MRL with 12 Fajr-1 rockets

Kuch WPB



Iranian Name: Kuch

Displacement: 1 ton

Max Speed: 40 knots

Radar: Some have Furuno-1600 series Nav

Armament: Varies - 1 x Doshka 12.7mm machine gun, 1 x 107mm MRL with 11 Fadjr-1 rockets

Zafar ASCM



SPECIFICATIONS

TYPE	ZAFAR
Minimum Effective Range (km):	8
Maximum Effective Range (km):	25
Speed (Mach):	0.8
Launching Angle in Pitch Direction:	12°
Offset Launching Angle in Yaw:	± 10°
Launching condition:	
Temperature (°C):	-25 to +55
Wind Speed (m/s):	≤ 15
Humidity:	< %93 ± 3 (IN 40°C)
Sea State:	4 Sea Force
Guidance System:	Fire & Forget
Control:	Self Control & Radar Seeker
Boat Speed (Knot):	30
Warhead (kg):	30 - SAP
Fuse:	Contact-Delay
Weight (kg):	120
Length (mm):	2685
Diameter (mm):	180
Wing Span (mm):	586
Propulsion:	Dual Chamber Solid Engine with Booster and Sustainer



Nasr-1 ASCM



SPECIFICATIONS

TYPE	NASR
Minimum Effective Range (km):	8
Maximum Effective Range (km):	35
Speed (Mach):	<0.8
Offset Launching Angle in Yaw:	± 30°
Launching Method:	Single and Salvo
Launching condition:	
Temperature (°C):	-25° to +55°
Wind Speed (m/s):	≤ 15
Humidity:	< %93 ± 3 At 40° C
Sea State:	Force 3
Control:	Self Control & 8 mm Homing Radar Seeker
Warhead (Kg):	130 - SAP
Weight (Kg):	360
Length (mm):	3284
Diameter (mm):	280
Propulsion:	Dual Chamber Solid Engine with Booster and Sustainer



Noor ASCM



SPECIFICATIONS

TYPE	NOOR
Minimum Effective Range (km):	10
Maximum Effective Range (km):	120
Speed (Mach):	0.8 - 0.9
Launching Sector:	$\pm 30^\circ$
Launching condition:	
Temperature (°C):	-25 to +50
Wind Speed (m/s):	≤ 15
Humidity:	$< \%98$ IN 250° C
Sea State:	≤ 5 Sea Force
Length (mm):	6383
Diameter (mm):	360
Wing Span (mm):	1220
Weight (kg):	715
Kind of Control:	Self Control & Homing Phase
Propulsion:	Consist of two Parts, Booster & Sustainer
Warhead (kg):	155 - SAP- HE
Fuse:	Contact - Delay



107mm MRL w/ Fadjir-1 Rockets



SPECIFICATIONS

TYPE	11 BARREL	19 BARREL
Calibre (mm):	107	107
Number of Barrels (pcs):	11	19
Max. Range (km):	8.5	8.5
Firing Rate:	11 shots / 12 - 14 sec	19 shots / 20- 24 sec
Elevation:	-5° to 45° (with precision of 3 mil-russian)	-5° to 45° (with precision of 3 mil-russian)
Elevation Speed:	25° / second	18°/second
Traverse:	-90° to +90°	-90° to +90° (in steps of 30°)
Fire Control:	Electronic fire control with joystick	Electronic fire control with joystick
Weight of Weapon (kg):	280	400
Weight of each Rocket (kg):	19	19
Dimensions (cm):	120 x 93 x 65	190 x 110 x 65