









SECTION ARMAMENT INDUSTRIES GROUP



ARMAMENT INDUSTRIES GROUP :

Armament industries group is one of the reliable and leading manufacturer of large and medium caliber guns, Automatic Naval gun, cannons, propelled & self- propelled guns, howitzers, various kinds of barrels, rocket and mortar launchers, 106 mm recoilless anti-tank, SPG 9 guns and The relative subsidiaries of Armament industries group in different cities of Iran, with their skilled and specialized personnel, valuable and extended experiences of many decades in designing, manufacturing, reconstruction and upgrading weapons, demanded by Armed Forces of the Islamic Republic of Iran, have the honour of not only taking part in developing construction plans of the country, but also cover many fields devoted to producing both defense and civil products. Utilizing the modern technology, sophisticated machinery, equipments and engineering services, these factories are able to offer its military and civil products with high quality and increasing variety.

Receiving international awards and certificates on high quality and performances such as ISO 9001_2008, ISO 17025_2005, ISO 10002_2004 & OHSAS 18001_2007, ISO 14001_2004 and military standards which have enabled D.I.O to enter the worldwide competition.

The other major activities of Armament Industries Group are listed below:

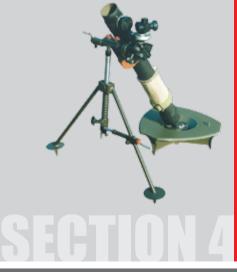
- Alloy steel products
- Heat treatment operations
- Heavy metal works
- -Coating Process
- -Metal Casting



PRODUCTS

ARMAMENT INDUSTRIES GROUP :

- 40 mm AUTOMATIC GRENADE LAUNCHER
- 40 mm ANTI TANK ROCKET LAUNCHER (RPG7)
- 40 mm TRAINING AID SUB-RIFLE (RPG7)
- 60 mm STANDARD MORTAR LAUNCHER HM 14
- 60 mm COMMANDO MORTAR LAUNCHER (HM 12) (HM 13)
- 60 mm LONG-RANGE MORTAR LAUNCHER HM 11F
- 73 mm SELF PROPELLED ANTI TANK GRENADE LAUNCHER (SPG9)
- 81 mm STANDARD MORTAR LAUNCHER HM 15
- 81 mm SHORT-BARREL MORTAR LAUNCHER HM 10H
- 106 mm ANTI TANK RECOILLESS GUN
- 107 mm MULTI ROCKET LAUNCHER
- 107 mm SINGLE & DOUBLE BARREL ROCKET LAUNCHER
- 120 mm STANDARD MORTAR LAUNCHER HM 16
- 122 mm ROCKET LAUNCHER (SINGLE -BARREL) HM 21
- 122 mm ROCKET LAUNCHER (8-BARREL) HM 27
- 122 mm ROCKET LAUNCHER (40-BARREL) HM 20
- 122 mm HOWITZER GUN D30 HM 51
- 122 mm CANNON HM 40
- 125 mm CANNON HM 50
- 155 mm HOWITZER GUN HM 41
- 155 mm CANNON HM 44
- Technical Specification Of Various Barrel
- Fath 40mm NAVAL ANTI-AIRCRAFT GUN
- FADJR-27 76 mm NAVAL GUN HM 60



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- 107 mm NAVAL 11 & 19 BARREL ROCKET LAUNCHER
- 122 mm NAVAL ROCKET LAUNCHER (16-BARREL) HM 23
- 240 mm NAVAL ROCKET LAUNCHER (8-BARREL) HM 28
- 100 mm ANTI AIRCRAFT GUN HM 71



PRODUCTS

ARMAMENT INDUSTRIES GROUP

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40 mm AUTOMATIC GRENADE LAUNCHER

General Specifications:

- Anti tank
- Anti personnel
- Anti equipment
- Installable on all military vehicles, firing boats, warships and logistic helicopters
- Suitable to use in land, air and marine forces
- High rate of firing



Technical Specifications:

Caliber		40 x 53 mm
Weight of v	veapon without magazine	36 kg
Weight of	tripod, magazine with ammunition	44 kg
Capacity o	of magazine	30 grenades
Max . rang	e	2200 m
Muzzle velo	ocity	240 m/s
Rate of firin	g	250 - 300 rds/min
Dimensions	3	1120 x 136 x 206 mm









40 mm ANTI TANK ROCKET LAUNCHER (RPG7)

General Specifications:

40 mm anti tank rocket launcher (RPG) is an effective weapon against tanks, moving targets including armored vehicles, fortifications and artilleries. This rocket launcher with high precision, light weight and with ability to use under all atmospheric conditions is proved to be a most applicable weapon.





Technical Specifications:

Caliber	40 mm
Effective range	330 m
Maximum range	1000 m
Penetration depth into armored surface	110 mm
Rate of fire	2 upto 4 rockets/min
Length of the rocket launcher	950 mm
Weight of the rocket launcher with the sight	6.2 kg
Weight of the rocket (projectile)	2.2 kg







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40 mm TRAINING AID SUB-RIFLE (RPG 7)

ADVANTAGES OF TRAINING By SUB - RIFLE :

- LOWER COST (SAVING REAL AMMUNITION)
- HIGHER SAFETY
- SIMILAR RESULTS AS IF REAL AMMUNITION IS USED
- UTILIZATION OF SMALLER FIRE-FIELD
- No wear-out of barrel of PRG7

Technical Specifications:

(CALIBER	7.62 mm
Ν	MAX. RANGE	400 m
L	ENGTH	910 mm
٦	DIAMETER	85 mm
E	EFFECTIVE RANGE	200 m
٧	NEIGHT	3.8 Kg

The Sectional cut for Training aid is also provided.





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60 mm STANDARD MORTAR LAUNCHER

HM 14

General Specifications:

This mortar launcher is a kind of smooth-bore and barrel-loading weapon and has a high elevation angle with a 360° firing field. It is usually operated by two crews, but it can be operated by one crew in emergency. Its sight device is simple and accurate and remains in a steady state during firing. This mortar launcher is able to fire with high accuracy.





Technical Specifications:

DESCRIPTION	DATA
Model	HM14
Caliber	60 mm
Length of barrel and breech	720 mm
Max. range with Mortar bomb model M 61	2550 m
Min. range with Mortar bomb model M 61	250 m
Elevation range	45°~85°
Rate of fire	25 in the first minute then 7 continuously
Weight in firing position	17.5 kg







60 mm COMMANDO MORTAR LAUNCHER

General Specifications:

60 mm commando mortar launchers are in two types, Fateh and Narollah. They are light weight, simple and can be classified in portable weapons group. They are able to produce a mass of fire accurately at the shortest time and with high rate of fire on any kinds of targets within its range. These mortar launchers can be used in infantry level, airborne commands, at any kind of battle fields and under all weather conditions. Their sight devices are simple and accurate and remain in a steady state during firing. In order to protect the operators' hands from burning while carrying the commando mortar launchers, the barrel is covered with a piece of canvass. To protect the barrel from dust, a cap is used on its top and there is a piece of cord, which connects in one end to breech, for carrying the weapon.



Technical Specifications:

DESCRIPTION	DATA	DATA
Model	HM 12 (Fateh)	HM 13 (Narollah)
Caliber	60 mm	60 mm
Length of barrel and breech	570.5 mm	570.5 mm
Max. range	1050 m	800 m
Min. range	100 m	200 m
Elevation range	45°~80°	45°~80°
Travers range	Curved & direct fire 360	Curved & direct fire 360
Rate of fire	20 in the first minute then 7 continuously	20 in the first minute and 7 continuously
Total Weight	6.25 kg	6.25 kg
Crew	1	1





60 mm LONG-RANGE MORTAR LAUNCHER

HM 11 F

General Specifications:

This mortar launcher is a smooth-bore, barrel-loading, simple, small, light weight, curve fire, longrange weapon and has a high elevation angle with a 360° firing field. It is able to produce a mass of fire accurately at the shortest time and with high rate of fire on any kinds of targets within its range. It is used in offensive positions for continuous, near back-up for infantries and in defensive positions for producing concentrated fire within battle field. Simple use, easy repair and maintenance, simple to make it ready to be in combat position, are its advantages.

Technical Specifications:

DESCRIPTION	DATA
Model	HM 11F
Caliber	60 mm
Length of barrel and breech	1379.5 mm
Max. range	6000 m
Elevation range	45°~80°
Travers range	360°
Total weight	21.5 kg
Crew	2











73 mm SELF PROPELLED ANTI - TANK GRENADE LAUNCHER \mid (SPG 9)

General Specifications:

The 73 mm SPG9 is a lightweight anti-tank and anti armoured gun, normally carried by two soldiers, and mounted on a tripod for firing. It can be towed using a small two-wheel carriage and can be mounted on vehicles. The optical sight is provided for direct fire. The projectile consists of the warhead and a tubular rocket motor which is ignited by a delay element shortly after ejection from the muzzle of the gun. The Weapon is also mountable on vehicle with special rotary stand (optional) with high maneuverability. The spare parts are completely compatible wirh eastern model. The sub-rifle (Training Aid) can also be provided.



Technical Specifications:

Caliber	73 mm
Max. range - anti tank rocket	1300 m
Effective range - anti tank rocket	800 m
Max. range - anti personnel rocket	4500 m
Firing rate	2 to 4 rockets/minute
Penetration depth in armors	30 to 40 cm
Elevation	$-3^{\circ} \sim +7^{\circ}$
Traversing	$-15^{\circ} \sim +15^{\circ}$
Weight of weapon with tripod	69 kg
Dimensions (L x W x H)	215 x 99 x 80 cm





81 mm STANDARD MORTAR LAUNCHER

HM 15

General Specifications:

This mortar launcher is a kind of smooth-bore and barrel-loading weapon with a 360° firing field. Due to its high elevation angle, it can be fired from behind the abstacles, against targets behind the obstacles, in reverse slopes and finally for supporting own forces. To make it easy for infantry to carry the weapon in difficult terrains ,it can be disassembled into small pieces. Its simple structure enables the erection and set up of the mortar by three crews. Because of its nearly small dimensions, it can be easily hidden in hole in the ground, which protects the mortar launcher as well as the crews.

Technical Specifications:

DESCRIPTION	DATA
Model	HM15
Caliber	81 mm
Length of barrel and breech	1530 mm
Max. range with mortar bomb model M 91	4900 m
Min. range with mortar bomb model M 91	200 m
Elevation range	45°~85°
Rate of fire	15 in the first minute and 5 continuously
Weight in firing position	53.2 kg
Crew	3



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81 mm SHORT-BARREL MORTAR LAUNCHER | HM 10H

General Specifications:

This mortar launcher is a barrel-loading, smooth-bore weapon which is able to produce a large volume of fire. It is used in offensive positions for continuous, close support for infantries and in defensive positions for producing concentrated fire in the battle field. Rapid displacement, easy use, high accuracy and large volumes of fire are its advantages.











Technical Specifications:

DESCRIPTION	DATA
Model	HM 10H
Caliber	81 mm
Length of barrel and breech	768.5 mm
Max. range	2100 m
Min. range	100 m
Elevation range	45°~80°
Traverse range	360°
Total Weight	37 kg
Crew	2



106 mm ANTI - TANK RECOILLESS GUN

General Specifications:

The 106 mm recoilless rifle is a high efficient anti-tank Gun & anti armoured weapon with high penetration depth. This rifle is equipped with an aiming rifle, optical sight and is supplied with the usual range of HEAT and anti-personnel ammunition. The standard mounting is the tripod ground mount, but it can also be mounted on any suitably modified light vehicle. The sub rifle (training aid) and sectional 106 mm gun for training purposes can also be provided. The spare parts are completely compatible with western model M40A2.

ADVANTAGES OF TRAINING BY 106 mm SUB - RIFLE:

- Lower cost (saving real 106 mm ammunition)
- Higher safety
- Coincidence of firing results as if real 106 mm ammunition is employed
- No wear out of barrel of 106 mm gun
- Utilization of smaller fire field
- Time saving

Technical Specifications:

Calibre	105 mm
Effective range	1100 m
Max. range	7500 m
Allowed normal firing rate	36 shots/hour
Penetration depth in armors	40-50 cm
Elevation on M-79 tripod	$-7^{\circ} \sim +56^{\circ}$
Traverse on M-79 tripod	270°
Weight of gun with all accessories	216.5 kg
Weight of bullet	16.3 kg
Dimensions (LxWxH)	340 x 152 x 112 cm







107 mm SINGLE & DOUBLE BARREL ROCKET LAUNCHER

General Specifications:

This weapon is capable to launch a 107 mm rocket to destroy and disturb enemy camps, airports , harbors, warehouses, transport lines and so on. The weapon in any number or barrels ,as customer request, can be provided. Sectional cut, as training aid, can be provided as well.



Technical Specifications:

"107 MM" Single-BARREL ROCKET LAUNCHER "107 MM" DOUBLE-BARREL ROCKET LAUNCHER

Calibre	107 mm	107 mm
Number of barrel	1 pcs	2 pcs
Length of barrel	80 cm	80 cm
Max. range	8500 m	8500 m
Elevation	0° to 45°	0° to 45°
Traverse	-11° ~ +11°	-11° ~ +11°
Net weight	21.5 kg	30 kg
Weight of each rocket	18.9 kg	18.9 kg
Dimensions (LxWxH)	150 x 83 x 81 cm	162 x 126 x 96 cm



107 mm MULTI ROCKET LAUNCHER

General Specifications:

107 mm rocket launcher is manufactured in two standard and mobile types. The standard two-wheel carrier can be moved by vehicle, animals or personnel. All of these launchers deploy unguided rockets. The launcher has three frames of four 107 mm barrels and the carrier is mounted on a rubber-tired split pole-type



carriage. In the firing position the wheels are normally removed and the launcher is supported by the two trails at the rear which are fitted with spades and carried on the top of the trails when travelling, two short legs in front of the carriage. It can also be fired with the two rubber tired road wheels still in position on their stub axles. The unguided rockets are spin stabilized and the full 12 rounds can be fired in 7 to 8 seconds. Reloading is performed manually by the launcher crew. The optical sight is fitted on the left side of the launcher. This weapon is used in battle fronts to destroy the enemy's positions both continuously and in short intervals. The weapon has considerable efficiency in short distances and is capable to cover a vast area under its fire power. This weapon is manufactured in two types as:

- 107 mm rocket launcher with standard carriage
- **D** 107 mm Rocket launcher with base plate installable on any kind of jeep.

Technical Specifications:

Calibre	107 mm
Number of barrels	12 pcs
Elevation	0°~ 60°
Traverse	$-15^{\circ} \sim +15^{\circ}$
Max. range	8500 m
Rate of fire	12 shots / 8-10 sec
Dimensions with carriage (LxWxH)	280 x 135 x 102 cm
Dimensions with base plate (LxWxH)	93 x 140 x 81 cm
Weight of Rifle with carriage	475 kg
Weight of Rifle without carriage	380 kg
Weight of Rifle with base plate (on vehicle)	430 kg









120 mm STANDARD MORTAR LAUNCHER

HM 16

General Specifications:

This mortar launcher is a kind of smooth-bore and barrel-loading weapon with a 360° firing field. Due to its high elevation angle, it can be fired from behind the shelter. To make it easy for infantry to carry the weapon in difficult terrains, it can be disassembled and taken into small pieces. Its simple structure enables the erection and rapid deployment by two or three crews. It must be noted that the barrel warms slowly, so it does not produce an effect on the rate of fire. Because of its relatively small dimensions, it can be easily fixed in a dug hole on the ground, which protects the mortar launcher as well as the crews.





Technical Specifications:

DESCRIPTION	DATA
Model	HM 16
Caliber	120 mm
Length of barrel and breech	1700 mm
Max. range with mortar bomb model M 48	6600 m
Min. range with mortar bomb model M 48	550 m
Elevation range	45°~85°
Rate of fire	10 in the first minute and 4 continuously
Weight in firing position without carriage	140 kg
Crew	4



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122 mm SINGLE -BARREL ROCKET LAUNCHER HM 21

General Specifications:

It is a weapon for launching free low-range rockets. It can be carried by 2 crews. Due to its light weight, it is of a rapid displacement. The firing mechanism is electrical and its elevation and traverse mechanisms are mechanical.



Technical Specifications:

DESCRIPTION	DATA
Model	HM 21
Caliber	122 mm
Length of barrel (at two sizes)	3000 mm & 1900 mm
Max. range	23000 m
Min. range	2000 m
Elevation range	$+5^{\circ} \sim +50^{\circ}$
Travers range	± 12°
Weight of launcher	90 kg









122 mm 8 BARRELS ROCKET LAUNCHER HM 27

General Specifications:

Due to its light weight, this launcher can be mounted on light vehicles and steady platforms and has a rapid displacement. Elevation and traverse mechanisms are of mechanical type; therefore, Their vulnerablity in comparison with similar systems is at the minimum level. Its trigger system is simple with high safety. Its training and use are very easy and fast.



Technical Specifications:

DESCRIPTION	DATA
Caliber	122 mm
Length of barrel	3000 mm
Max. range	21000 m
Elevation range	$0^{\circ} \sim +52^{\circ}$
Travers range at maximum elevation	± 30°
Travers range at elevation $< 4^{\circ}$	± 90°
Elevation & traverse mechanisms	Hydraulic
Weight of launcher and vehicle	3000 kg
Weight of launcher	730 kg









122 mm 40 BARRELS ROCKET LAUNCHER HM 20

General Specifications:

This weapon is a kind of launcher that is used to fire free low-range rockets. It is used in corps level of military and is mounted on Benz LAK 2624-6x6 and similar trucks. The truck high maneuver, rapid displacement, ability to drive on road and off (unpaved) road, firing from trenches and cabin and ability to drive through water with fording depth of maximum 1m expedite enemy's destruction. This launcher is equipped with



hydraulic stability jacks to remove vibrations caused by firing. It has a hydraulic winch with 10 tons pulling force.

Technical Specifications:

DESCRIPTION	DATA
Model	HM 20
Caliber	122.4 mm
Length of barrel	3000 mm
Max. range	20400 m
Travers range	Right: 72° Left: 102°
Elevation range	-1°~ +55°
Elevation & traverse mechanisms	hydraulic
Weight (launcher & truck)	13150 kg
Firing system	electronic









122 mm HOWITZER D30

HM 40

General Specifications:

This Howitzer is a semi-heavy artillery gun and is deployed at brigade level of army divisions. It is a breech-loading howitzer without lock, with a vertical wedge breech that is loaded by hand. Shell is extracted after each firing and the howitzer is cocked automatically. Ammunition is of varied and changeable kinds, and its firing system is of a pulling type. Its recoil mechanism (recoil and recuperator) is independent hydropneumatic, and the equilibrator is pneumatic. This howitzer is on three trails in firing position. It can fire the shell directly, in a curve way and at high elevation angle.



Technical Specifications:

DESCRIPTION	DATA
Caliber	122 mm
Max. range	15300 m
Rate of fire	6-8 rds/min
Traversing range:	360°
With elevation from $-5^{\circ} \sim 18^{\circ}$	500
Traversing range: With elevation from $+18^\circ \sim +70^\circ$	66°
(Breech end between movable trail)	
Elevation range	-7° ~70°
Number of rifling	36
Total Weight	3440 kg









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122 mm CANNON

HM 51

General Specifications:

Mounted on armored vehicles propeller, this Cannon enjoys the following advantages:

- Regarding its gas sleeve assembly, it's recoils less is similar to gun type, 122 mm howitzer gun D30.
- In view of its capabilities, assembling an automatic loading system on the cannon is clear and of great importance.

- It is lighter than its similar types in weight.
- Its firing mechanism is electrical and mechanical.
- Its elevation mechanism is electrical and mechanical.
- Its loading mechanism is automatic.

Technical Specifications:

DESCRIPTION	DATA
Model	HM 51
Caliber	122 mm
Length of barrel	3995 mm (32.7 calibers)
Max. range	15200 m
Rate of fire	4~5 rds/min.
Elevation range	-3°~ +70°
Total Weight	1440 kg





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125 mm CANNON

General Specifications:

This Cannon can be mounted on T72 MBT with the following adventages:

- The ammunition is of a half-connected type.
- The wedge is of a sliding and horizontal type.
- The firing system is electrical and mechanical.
- Recoil operates hydraulically.
- Traverse control system is electrical and mechanical (manual).
- Loading mechanism is automatic.

Technical Specifications:

DESCRIPTION	DATA
Model	HM 50
Caliber	125 mm
Length of barrel	6000 mm
Max. range	9400 m
Rate of fire (automatic)	8 rds/min.
Rate of fire (manually, mechanically)	2 rds/min.
Number of rifle (groove)	0
Weight	2500 kg
Max. recoil	310 mm







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HM 50

155 mm HOWITZER

General Specifications:

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This Howitzer is a semi-heavy artillery gun and has a long range. It is used for supporting infantries. It is able to fire new 155 mm ammunition. This Cannon is on three trails in firing position. It has a muzzle brake to reduce recoil force. Its breech is of a screwing shape, mechanical type with a constant slope. Firing lock is of a

continuous pulling and impact kind. Recoil mechanism is of a changeable and independent hydro-pneumatic type. Equilibrators are of nitrogen gas type, traverse and elevation mechanisms are mechanical and can be operated by rotating a handy wheel. Its brake system is pneumatic and operates manually. It

should be mounted on trucks with over 10 tons weight. Firing control tools and equipment are carried by 2 crews for both direct and indirect firing.







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Technical Specifications:

DATA
155 mm
6095 mm (39 Calibres)
30000 m
4 rds/minRight 25°& Left
23.5° Left and 25° Right
0°~ 66°
48
6890 kg
3500 kg/cm ²

HM 41





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155 mm CANNON

HM 44

General Specifications:

This gun can be mounted on armored vehicles propeller & it has a two-cavity muzzle with a screw breech type, so loading can be done semi-automatically or manually. The recuperator is hydropneumatic whereas the recoil brake is hydraulic.



DESCRIPTION	DATA
Caliber	155 mm
Barrel length	6045 mm (39 Calibers)
Max. range	18100 m
Elevating range	-3° ~ 75°
Rate of fire	4 rds/min



TECHNICAL SPECIFICATIONS OF VARIOUS BARREL

Technical Specifications:

Item	Model	Calibre (mm)	Weight kg	Length of barrel (mm)	Number of rifling	Rifling twist	Muzzle velocity (m/s)	Length of rifling (mm)	Length of Chamber (mm)
1	HM40L	122	605	3995	36	Progressive	690	3405	590
2	HM41L	155	1776	6095	48	1 turn in 20 caliber	826	5064	996
3	HM44L	155	1132	6045	48	1 turn in 20 caliber	684	5122	923
4	HM45L	130	1780	6850	40	1 turn in 30 caliber	930	5860	990
5	HM46L	130	1658	6840	40	1 turn in 30 caliber	930	5850	990
6	HM47L	155	1750	7046	48	1 turn in 20 caliber	898	5820	1180
7	HM48L	105	325	2360	36	1 turn in 20 caliber	472	1980	380
8	HM49L	105	760	5347	28	1 turn in 18 caliber	1174	4713	633.5
9	HM50L	125	1125	6000	No rifling	No rifling			840
10	HM51L	122	537	3995	36	progressive	690	3405	590



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40 mm MARINE ARTILLERY

General Specifications:

- Anti aircraft & helicopter
- Anti gun boat & warship
- Anti land missile
- Usable for aerial defense

Technical Specifications:

Calibre	40 mm
Effective range - air target	4000 m
Effective range - land target	6000 m
Max. range	12000 m
Firing rate	300 shots/min
Elevation	-10 ~+84
Traverse	no limit (360°)
Weight of weapon	3300 kg
Rotating rdius	3315 mm









FADJR -27 76 mm NAVAL GUN

HM 60

General Specifications:

It is a standard marine single-barrel, complex, fully automatic (electro hydraulic), controlled from a distance gun that is suitable for spot defense and fighting against targets like warships, aircrafts (fighters) and missiles. It has great reliability and good hit-the-target records. As a main weapon it can be mounted on small battleships of over 200 tons weight, warships, frigates and destroyers. This marine gun is controlled by a firing control system from a distance. It can be controlled by an optical director in emergency, as well. Its electrical connections and rotation are in harmony with each other and all assemblies except electrical assembly are located inside the gun. It is loaded by two crews and loading operation from rotary cartridge to the barrel and firing is fully automatic. When it is fully loaded, its rate of fire is 80 rds/min. with no need to reload. It can be operated even when the sea is turbulent or stormy. Due to high velocity the shells move in a ballistic-like arc. The gun can fire 50 shells against target flying at a speed of 300 m/s and 35 shells against target flying at speed of 600m/s.

Significant Specifications:

- Light weight and small dimensions
- High rate of fire
- Ability of maneuver against targets in the air and at turbulent sea
- Automatic
- Rapid response (4 seconds)
- High firing power (8.9 kg/s)
- Equipped with servo motors with low eccentric and high power
- Equipped with proximity switches instead of electro magnetic switches
- Loading through MDB
- Feeding, loading systems are inside
- Able to aim within 2 to 4 seconds
- Feeding and loading systems are hydraulic
- Inter-lock system, control and indicators are equipped with logical circuits
- Easy for repair and maintenance
- The documents and drawings required for repair and maintenance



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FADJR - 27 76 mm NAVAL GUN

HM 60

Technical Specifications:

DESCRIPTION	DATA
Model	HM 60
Caliber	76 mm
Length of barrel and breech	4700 mm (62 calibers)
Rifle Length	4012 mm
Chamber length	688 mm
Pressure at muzzle brake	540 bar
Max. pressure	3400 bar
Muzzle velocity	925 m/s
Max. range	16300 m
Max. Length of recoil with gun at 85°	360 mm
Max. Length of recoil with gun at 0°	330 mm
Recoil avrege force	7000 kg
Weight	7200 kg
Elevation Range	-15°~85°







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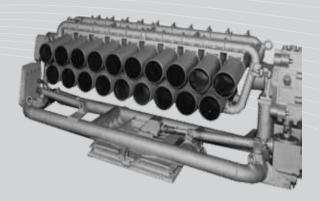
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107 mm NAVAL 11 & 19 BARREL ROCKET LAUNCHER

General Specifications:

The 11 barrel & 19 barrel naval rockets launchers are installed on top of cabin of assault or patrol fast gunboats. The boat must be a class 11 fast boat with well reinforced cabin framework, enable to tolerate 800 kg load with force 3. The motor power of gunboat must be 400 hp or more. These weapons operate in both electrically and mechanically in different degrees. Sectional cut of naval launchers as Training Aid can be also provided.





Technical Specifications:

Calibre	107 mm	107 mm
Number of barrels	11 pcs	19 pcs
Max. range	8.5 km	8.5 km
Firing rate	11shots/12 upto 14 sec	19 shots/20 upto 24 sec
Elevation	$\text{-}5^\circ \sim 45^\circ$ (with precision of 3 mil-russian)	$\text{-}5^\circ \sim 45^\circ$ (with precision of 3 mil-russian)
Elevation speed	25° / sec	18°/sec
Fire control	Electronic fire control with joystick	Electronic fire control with joystick
Weight of weapon	280 kg	400 kg
Weight oF each rocket	19 kg	19 kg
Dimensions (LxWxH))	120 x 93 x 65 cm	190 x 110 x 65 cm



122 mm 16 - BARREL NAVEL ROCKET LAUNCHER | HI

HM 26

General Specifications:

It is a weapon for launching free low-range rockets and is mounted on floats and boats. High maneuver and rapid displacement of boats, possibility of firing from cabin and being equipped with firing gate control system expedite the destruction of enemy's targets. It fires 122 mm rockets. The firing system is electrical. Elevation mechanism is mechanical and electro-hydraulic.



Technical Specifications:

DESCRIPTION	DATA
Model	HM 26
Caliber	122 mm
Number of barrel	16 PCs
Barrel length	1900 mm
Elevating range	-1° ~ +25°
Traversing range	360°
Rate of fire	Continuous at 0.7 second intervals
Weight	800 kg
Max Range	15000 m
Min Range	12000 m

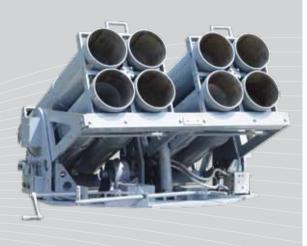




240 mm 8 BARREL NAVELE ROCKET LAUNCHER | HM 28

General Specifications:

Due to high maneuver ability of the boat and high speed of elevation mechanism that operates electro hydraulically the maneuver ability of the launcher increases. it can creates a rapid fire in two ways, both cyclic and single shot. An automatic and precise targetting is achieved through the launcher connection to a mileage indiocator (optional). It is regarded as an efficient weapon at marine of naval combats.



Technical Specifications:

DESCRIPTION	DATA
Model	HM28
Caliber	240 mm
Number of barrel	8 PCs
Launcher width	1797 mm
Launcher length	1453 mm
Launcher height	1567 mm
Launcher weight	576 kg
Consumption electricity	24 V DC
Mechanical elevation mechanism	Move able from inside and outside of the cabin
Hydroulic Elevation mechanism	Automatic and Simi-Automatic
Max. range at 45°	10112 m
Min. range	300 m
Elevation range	0° ~ 38°
Traverse range	No traversing









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100 mm ANTI - AIRCRAFT GUN

HM 71

General Specifications:

It is a medium caliber anti-aircraft gun that is controlled by a firing control center to fire against targets flying at height of 36000 feet (12000 m). Also it can be used for destructing low-to-medium height, marine and land targets. In each artillery, four guns are connected with cable and fire mechanically or electrically (semi-automatically). In mechanical firing position, 7 crews are used, while it is reduced to 3 crews in semi-automatic or automatic firing positions.

Technical Specifications:

DESCRIPTION	DATA
Model	HM 71
Caliber	100 mm
Muzzle velocity	900 m/s
Max. range	21000 m
Effective range	18000 m
Max. range (vertical)	13000 m
Effective range (vertical)	12000 m
Length of barrel	5358 mm
Weight in combat position	9350 kg
Weight in travel position	9600 kg
Total length of the gun	9170 mm
Total width of the gun	2390 mm
Height of the gun	2123 mm
Barrel life	Up to firring 800 rds



