

MSGNO 36 (MIIR) RSB *13/03/88* *21:30*
ZCZC 02:27:08Z (MI)

~~CONFIDENTIAL~~

88 8180489 MCR

TOR: 131053Z MAR 88

NC 8180489
RUMJKA 1986

RR RUEAIIA
DE RUMJKA 01986 0731047

ZNY ~~88888~~
R 131043Z MAR 88

FM (b)(3):10 USC 424

TO RUEKJCS/DIA WASHDC

(b)(3):50 USC 403-1(i)

RUMHQA/USCINCPAC HONOLULU HI/ (b)(3):50 USC 403-1(i)

(b)(3):50 USC 403-1(i)

RUEAIIA/CIA WASHDC

RUSNTCC/USEUCOM VAHINGEN GE/ (b)(3):50 USC 403-1(i)

(b)(3):10 USC 424, (b)(3):50 USC 403-1(i)

NOT MICROFILMED
VERIFICATION
For Data Entry

BT

EZ1:

~~CONFIDENTIAL~~ (b)(3):10 USC 424

SERIAL: (U) IIR (b)(3):10 USC 424

EZ2:

COUNTRY: (U) BANGLADESH (BG); SYRIA (SY); IRAN (IR);
CHINA (CH).

SUBJ: IIR (b)(3):10 USC 424 / C-801 AND HY-2A MISSILES TO IRAN
(U).

WARNING: (U) THIS IS AN INFORMATION REPORT, NOT
FINALLY EVALUATED INTELLIGENCE. REPORT
CLASSIFIED ~~CONFIDENTIAL~~.

DEPARTMENT OF DEFENSE

DOI: (U) 880303.

REQS: (U) (b)(3):10 USC 424

SOURCE: (c) / (b)(1), (b)(3):10 USC 424, 1.4 (c)

SUMMARY: ~~(c)~~ SYRIA IS NEGOTIATING THE PURCHASE OF C-801
ANTI-SHIP MISSILES AND HY-2/HY-2A SHORE-TO-SHIP MISSILES
FROM THE PRC. THE ULTIMATE DESTINATION IS, HOWEVER, IRAN.
ENCLOSURES.

TEXT: 1. ~~(c)~~ SYRIA IS NEGOTIATING THE PURCHASE OF C-801
MULTIPURPOSE ANTI-SHIP MISSILES (b)(3):10 USC 424
AND HY-2/HY-2A SHORE-TO-SHIP MISSILE FROM THE PRC. SYRIA
IS MERELY ACTING AS A MIDDLE MAN FOR IRAN, THE ULTIMATE
DESTINATION.

8800290443

0909

MSGNO 36 (MIIR) RSB *13/03/88* *21:30*

2. (C) ENCLOSURE ONE GIVES TECHNICAL DETAILS ON THE C-801. ENCLOSURES TWO, THREE, AND FOUR COVER THE HY-2 AND HY-2A. THE C-801 IS 5.814M LONG, 0.36M IN DIAMETER, HAS A WINGSPAN OF 1.18M, WEIGHS A TOTAL OF 815KG, AND HAS A WARHEAD WEIGHT OF 165KG. THE C-801 HAS AN EFFECTIVE RANGE (SHIP TO SHIP) OF 8 TO 40 KM, AND AN EFFECTIVE RANGE (AIR TO SHIP) OF 10 TO 50 KM, USING A LEVEL FLIGHT ALTITUDE OF 20 TO 30 METERS. LEVEL FLIGHT VELOCITY IS 0.9M (306 METERS PER SECOND). THE HY-2 HAS AN EFFECTIVE FIRE RANGE OF 20 TO 95 KM WITH A MISSILE SPEED OF 0.9M (306 METERS PER SECOND). THE HY-2 IS 7.48M IN LENGTH, 0.76M IN DIAMETER, HAS A WING SPAN OF 2.4M, HAS A WARHEAD WEIGHT OF 380KG AND FLIES AT A HEIGHT OF 100 TO 300 METERS. THE HY-2A MISSILE IS VERY SIMILAR TO THE HY-2, BUT HAS A TOTAL MISSILE WEIGHT OF 2,990KG, WITH A WARHEAD WEIGHT OF 513KG, AND USES A FLIGHT ALTITUDE OF 100 TO 200 METERS.

COMMENTS: (C) (b)(1),1.4 (c)

//IPSP: (U) (b)(3):10 USC 424

//COMSOBJ: (U)

PROJ:

COLL: (U) (b)(3):10 USC 424

INSTR: (U)

PREP: (U)

ENCL: FOUR ENCLOSURES (TO FOLLOW):

1. "C-801 MISSILE SYSTEM" (U), ONE COPY, UNDATED, TWO PAGES (U).

2. "HY-2 COAST-TO-SHIP MISSILE" (U), ONE COPY, UNDATED, TEN PAGES (U).

3. "HY-2 COAST-DEFENSE MISSILE" (U), ONE COPY, UNDATED, FOUR PAGES (U).

4. "HY-2A MISSILE" (U), ONE COPY, UNDATED, THREE PAGES (U).

ACQ: (U)

DISSEM: (U)

(b)(3):10 USC
424,(b)(3):50
USC 403-1(i)

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END OF MESSAGE

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NNDD

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DJCS INFORMATION
SERVICE CENTER

dup. of previous 2
pgs.

ROUTINE
R 131043Z MAR 88
FM USDAO DHAKA
TO DIA WASHDC

ZYUW RUMJKA 1986 0731047

INFO FICPAC PEARL HARBOR HI

COMINCPAC HONOLULU HI//JAL-5/PO-2/PO-3//

USCINCPAC HONOLULU HI//J235//

CJA WASHDC

CTMPCACT PEARL HARBOR HI

NAVOPINTEEN SULLAND MO

WISC WASHDC

USDAO HONG KONG

COM SEVENTHFLT

USMACV VAININGEN GL//ECJ2//

COMNAVINTCOM WASHDC

FOFIF WESTPAC KANISSEYA JA

USDAO BEIJING

USDAO DAMASCUS

CONFIDENTIAL DHAKA 01986

SERIAL: (U) IIR 6 925 0086 88

COUNTRY (U) BANGLADESH (BG), SYRIA (SY), IRAN (IR),
CHINA (CH)

SUBJ: IIR 6 925 0086 88 C-801 AND HY-2A MISSILES TO IRAN
(U)

WARNING: (U) THIS IS AN INFORMATION REPORT, NOT
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DEPARTMENT OF DEFENSE

DOI (U) 880303

REQS: (U) T-281-1100-02.

SOURCE: (E) //6 925 0040// A RETIRED HOST COUNTRY
MILITARY OFFICER WHO IS INVOLVED IN INTERNATIONAL ARMS
DEALING. HE HAS REPORTED RELIABLY IN THE PAST.

SUMMARY: (C) SYRIA IS NEGOTIATING THE PURCHASE OF C-801
ANTI-SHIP MISSILES AND HY-2A SHORE-TO-SHIP MISSILES
FROM THE PRC. THE ULTIMATE DESTINATION IS, HOWEVER, IRAN
ENCLOSURES.

TEXT 1 (C) SYRIA IS NEGOTIATING THE PURCHASE OF C-801
MULTIPURPOSE ANTI-SHIP MISSILES (CITE IIR 6 925 0036 88)
AND HY-2A SHORE-TO-SHIP MISSILE FROM THE PRC. SYRIA
IS MERELY ACTING AS A MIDDLE MAN FOR IRAN, THE ULTIMATE
DESTINATION.

2 (E) ENCLOSURE ONE GIVES TECHNICAL DETAILS ON THE

ACTION DIA(1)
INFO CJCS(5) DJS(1) NIDS(1) J2(2) SECDEF(1) SECDEF(5)
USDP(8) ASD PA&E(1) USDP JSA(1) USDP JCS(3)
USDP(3) ASD(4) D1(1) NMIC(1) R1S-28(1) WMS(1)
JST-SA(1) JST-28(1) JST-SA(1) OAH-3(2) OAH-6(2)
O10(1) DE-2(1) DE-4(1) DB 28(1) DB-2C(1) DB-2E(1)
DB-BC(1) DB-5(1) DB-28(1) DB 50(1) DB-202(1)
DB-3E(1) DB-6(1) DB 2(1) DB 3(1) DB 4(1) DB-3C(1)
DB-4A(1)
+DCSA WASHINGTON DC
+FMD WASHINGTON DC
+CSAF WASHINGTON DC//XO ETC//
+AFIS AFMS BOLLING AFB DC
+CSAF WASHINGTON DC//XO-CTC/ROK//
+CIA WASHINGTON DC
+SECSTATE WASHINGTON DC
+DNC CC WASHINGTON DC
+DIRNSA FT GEORGE G MEADE MD
+CNC WASHINGTON DC
+CDRATHPSYOP GP FT BRAGG NC//AFVS-POG-E-SSD//
+MPIC WASHINGTON DC//JEG//
+MPC FT GEORGE G MEADE MD
+SAFE

C-801, ENCLOSURES TWO, THREE, AND FOUR COVER THE HY-2 AND
HY-2A. THE C-801 IS 9.81M LONG, 0.26M IN DIAMETER, HAS
A WINGSPAN OF 1.1M, WEIGHS A TOTAL OF 815KG AND HAS A
WARHEAD WEIGHT OF 185KG. THE C-801 HAS AN EFFECTIVE RANGE
(SHIP TO SHIP) OF 8 TO 40 KM, AND AN EFFECTIVE RANGE (AIR
TO SHIP) OF 10 TO 50 KM, USING A LEVEL FLIGHT ALTITUDE OF
20 TO 30 METERS. LEVEL FLIGHT VELOCITY IS 0.9M (306 METERS
PER SECOND). THE HY-2 HAS AN EFFECTIVE FIRE RANGE OF 20 TO
95 KM WITH A MISSILE SPEED OF 0.9M (306 METERS PER SECOND).
THE HY-2 IS 7.48M IN LENGTH, 0.26M IN DIAMETER, HAS A
WING SPAN OF 2.4M, HAS A WARHEAD WEIGHT OF 380KG AND FLIES
AT A HEIGHT OF 100 TO 300 METERS. THE HY-2A MISSILE IS
VERY SIMILAR TO THE HY-2, BUT HAS A TOTAL MISSILE WEIGHT
OF 2,990KG, WITH A WARHEAD WEIGHT OF 513KG, AND USES A
FLIGHT ALTITUDE OF 100 TO 200 METERS.

COMMENTS: (C) THIS IIR PROVIDES ADDITIONAL INFORMATION
ON THE C-801. THE PRC IS APPARENTLY EMPHASIZING SALES OF
THE C-801 AND HY-2A TO MIDDLEEASTERN COUNTRIES.

//TSPD: (U) PG 1200; PG 1211//.

//COMSOB: (U) 162//.

PROJ:

COLL: (U) AB.

INSTR: (U) D.5. NO.

PRIP: (U) RUSSELL Y OLSON, JR, LTC, USA, DATT

ENCL: FOUR ENCLOSURES (TO FOLLOW)

1. "C-801 MISSILE SYSTEM" (U), ONE COPY, UNDATED. **LO**

PAGES (U)

2. "HY-2 COAST-TO-SHIP MISSILE" (U), ONE COPY, UNDATED,

SEVEN PAGES (U).

3. "HY-2 COAST-DEFENSE MISSILE" (U), ONE COPY, UNDATED,

FOUR PAGES (U).

4. "HY-2A MISSILE" (U) ONE COPY, UNDATED, THREE PAGES (U).

ACQ: (U) BANGLADESH, DHAKA (880303).

DISSEM: (U) FIELD W/O ENCL (COM, DEN, POR) SENT TO

DIA/RTS-28 (W/ENCL), FICPAC (W/ENCL).

WARNING: (U) REPORT CLASSIFIED CONFIDENTIAL

DECL-ORR BT

MCN=88073/01788 TDR=88073/1055Z TAD=88073/1055Z

COSN=M14809
PAGE 1 OF 1
131043Z MAR 88

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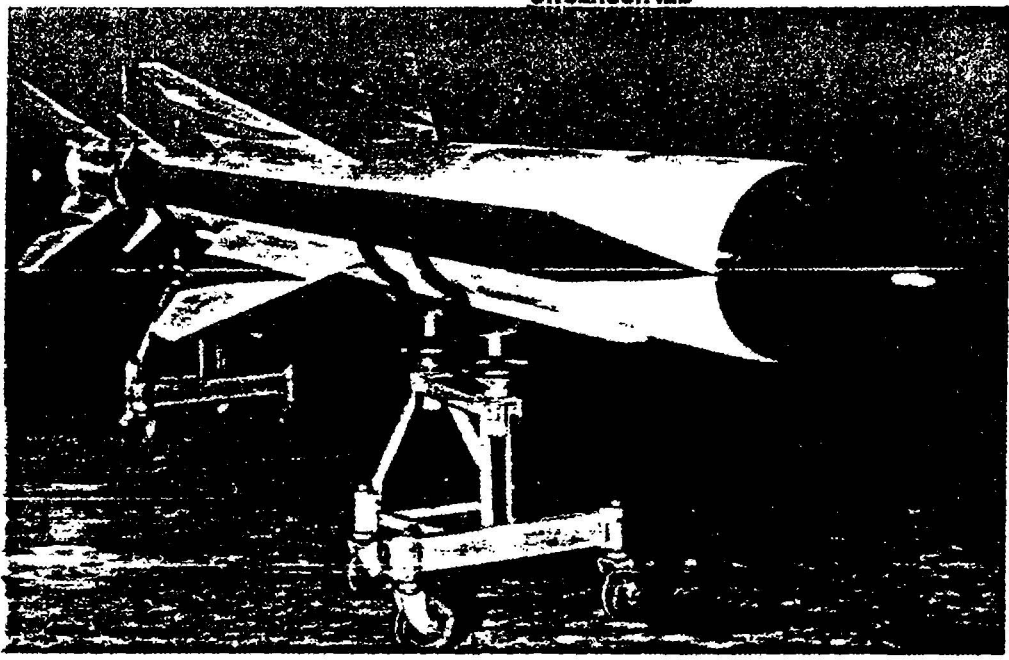
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admission
(b)(3):10 USC 424

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導彈全長	5.814m	Full-length of the missile	5.814m
導彈直徑	0.36m	Diameter of the missile	0.36m
翼展	1.18m	Wingspan	1.18m
導彈全重	815Kg	Total weight of the missile	815Kg
戰鬥部重	165Kg	Warhead weight	165Kg

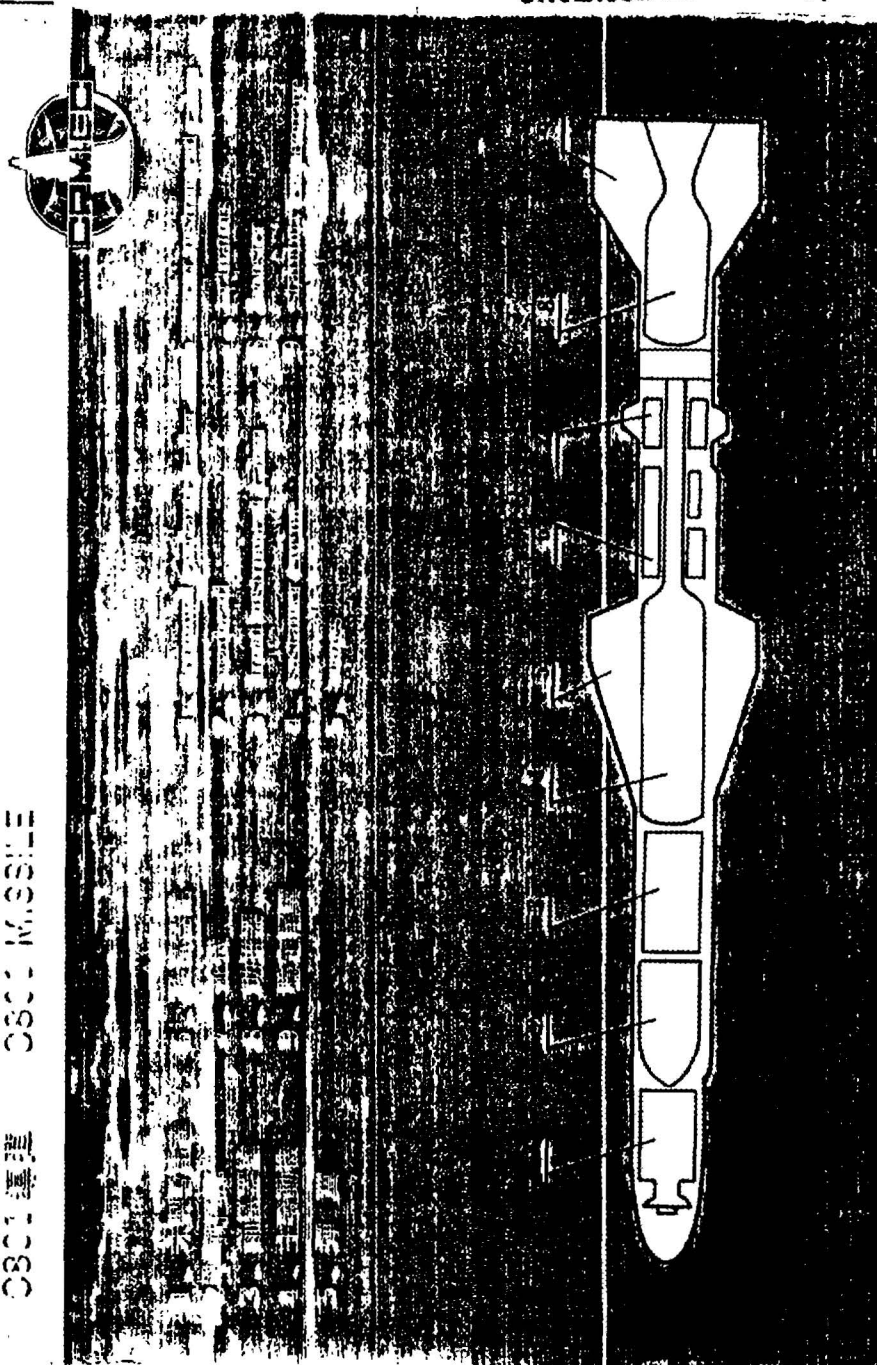
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USC
424

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C801 導彈 C801 MISSILE



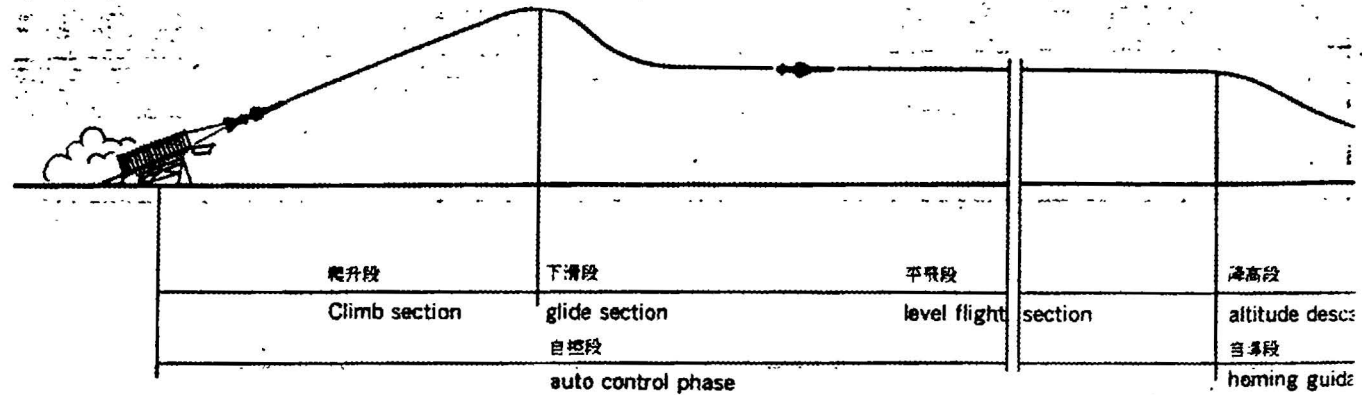
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α

C801導彈以超低空飛行,突防能力強。單脈
沖末製導雷達帶有抗干擾線路,命中率高。

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C801 missile is able to fly at a very low altitude and has high capability of breaking through the defence. C801 missile owns a monopulse terminal guidance radar with anti-interference circuits and is of high hit accuracy.



有效射程 艦—艦 8~40Km
空—艦 10~50Km
平飛高度 20m、30m
二次降高 5m、7m
平飛速度 0.9M
製導方式 自控+自導
發射方式 單發或齊射

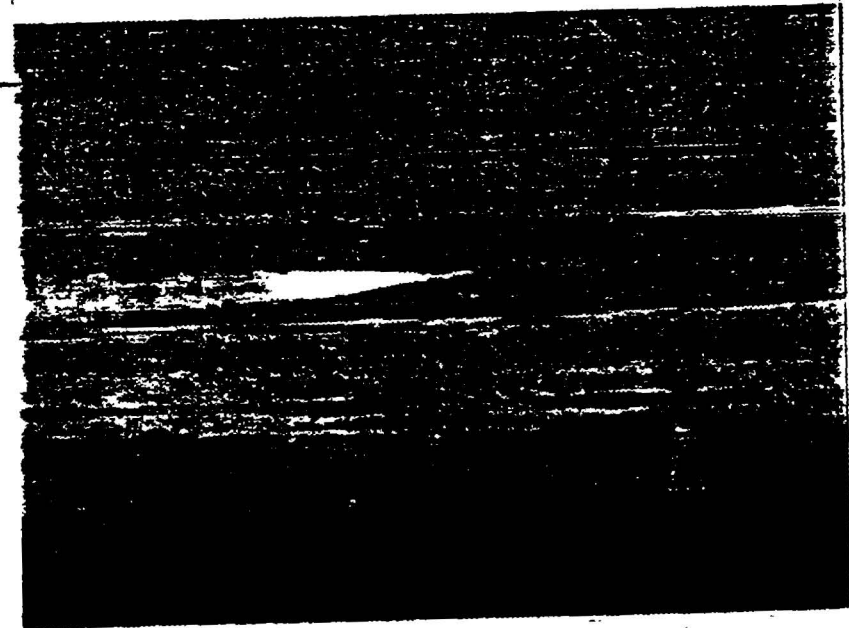
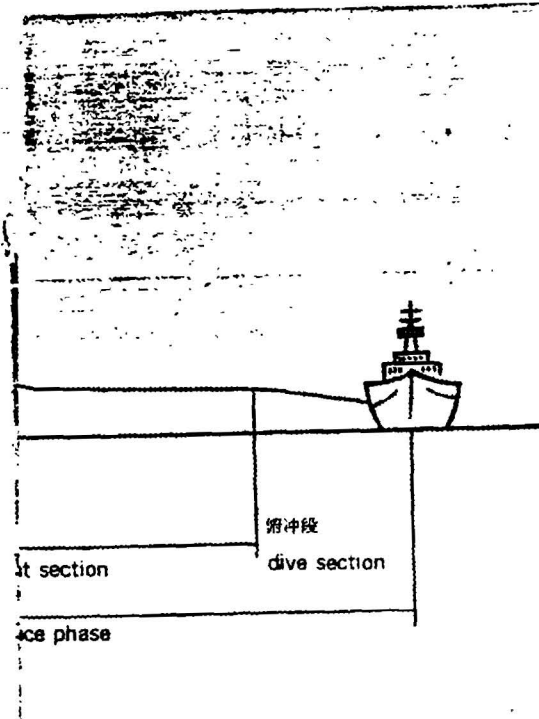
Effective range: ship to ship 8 to 40 Km
air to ship 10 to 50 Km
Level flight altitude: 20 and 30 metres
Second altitude descent: 5 and 7 metres
Level flight velocity: 0.9 M
Guidance mode: auto control plus homing guidance
Launching mode: single or salvo

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主要戰術指標

MAIN TACTICAL SPECIFICATIONS



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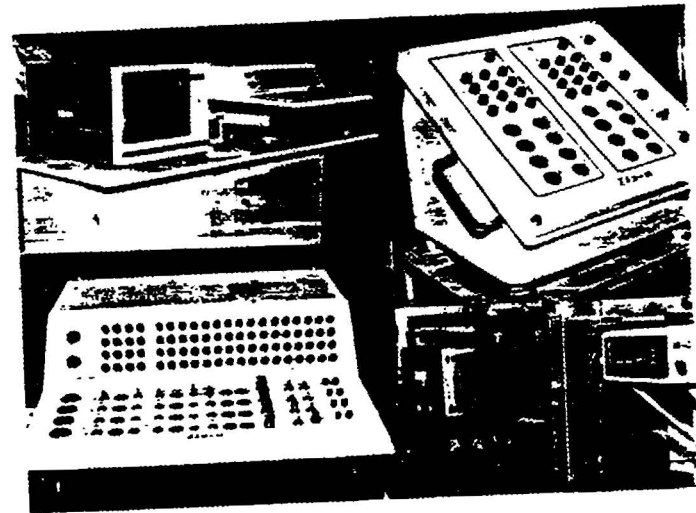
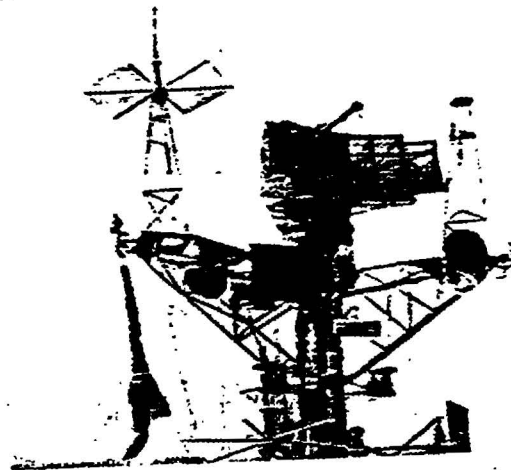
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C801導彈武器係統地面及艦載設備主要由跟踪雷達、射擊指揮儀、箱式發射裝置、公路運輸車、綜合測試設備等組成。

The ground and ship-based equipment for C801 missile weapon system consists chiefly of the tracking radar, fire director, container launching devices, highway transportation truck and the synthetical testing devices etc.

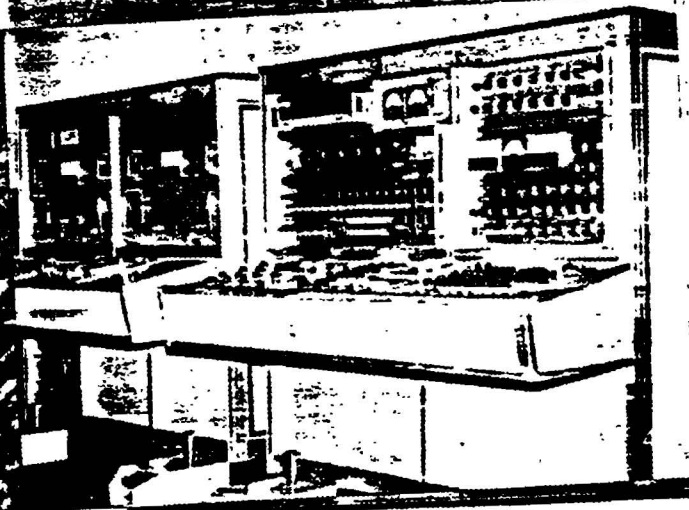
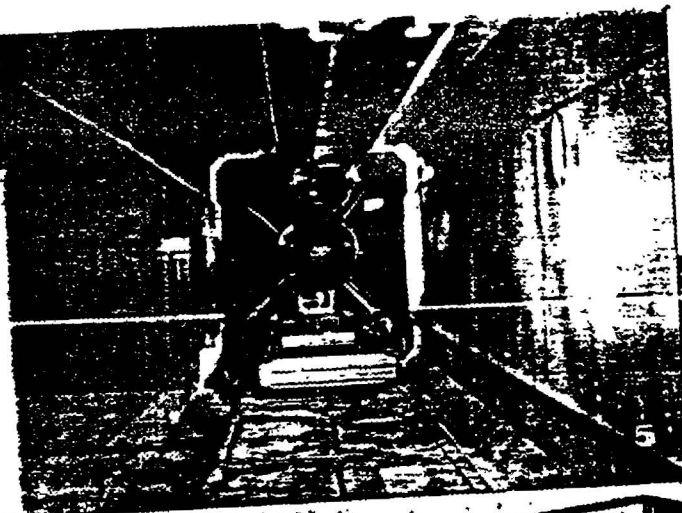


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- 1、跟踪雷达
- 2、射擊指揮儀
- 3、公路運輸車
- 4、綜合測試設備
- 5、箱式發射裝置

tracking radar
fire director
highway transportation truck
synthetic testing devices
container-launching devices

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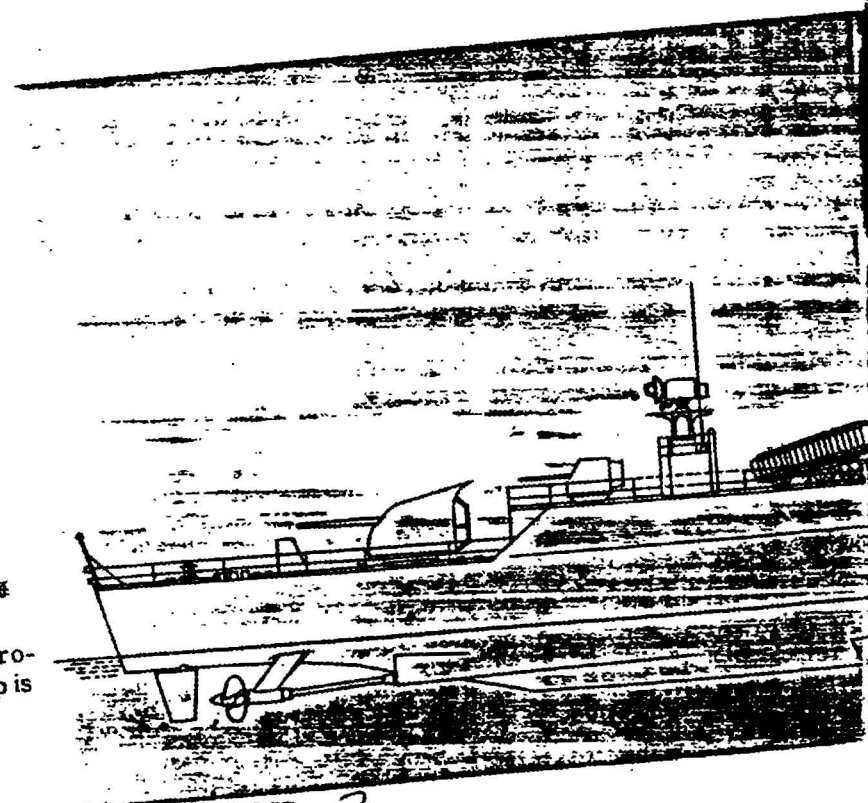
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C801導彈是多用途導彈，可以多聯裝載在驅逐艦、護衛艦、常規潛艇、大小型快艇上，也可以裝掛在轟炸機、強擊機上。



C801導彈裝載在驅逐艦、護衛艦上，每艦裝載八枚。

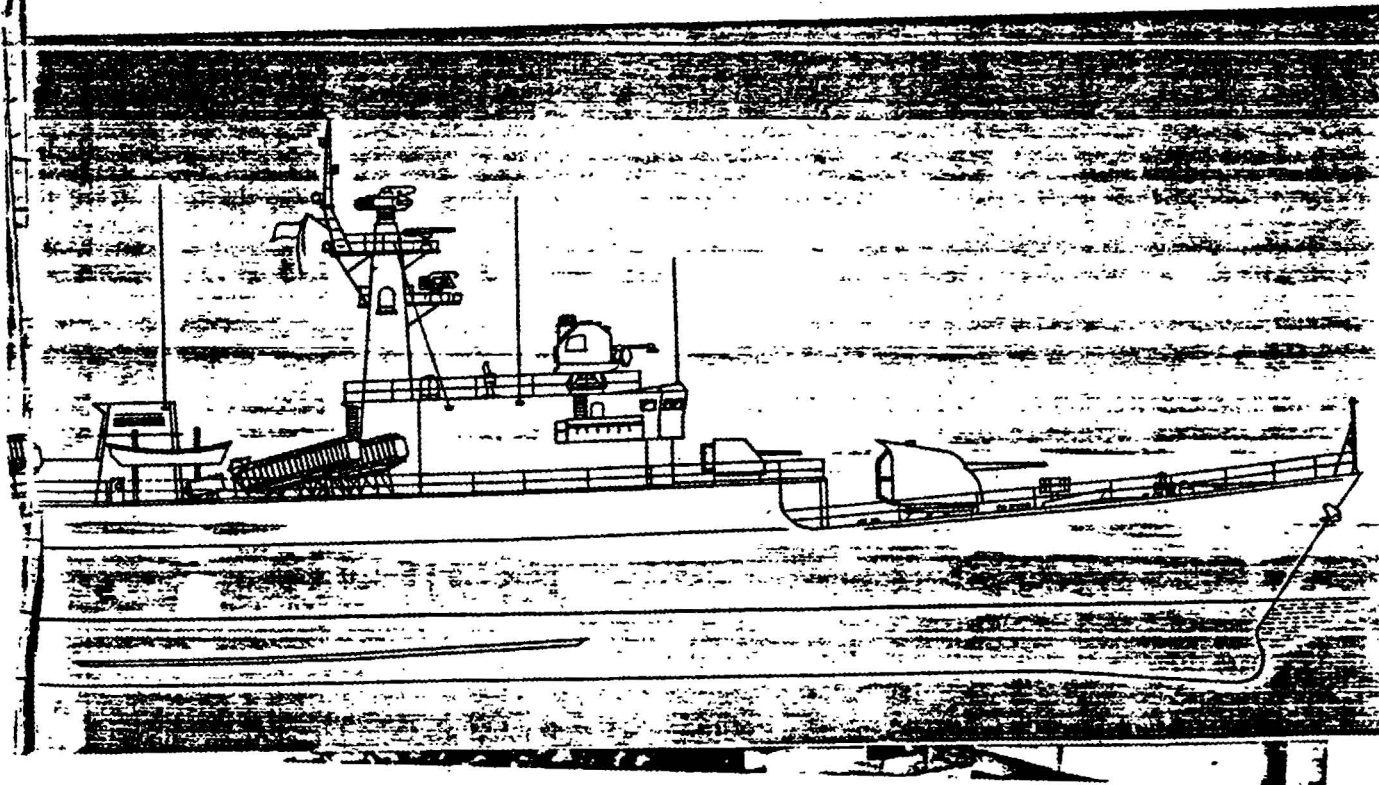
C801 missile is carried on a destroyer or an escort ship. Each ship is equipped with eight missiles.



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C801 missile is a multipurpose missile. It may be installed in multiple on a destroyer, an escort vessel, a conventional submarine and a large or small-size motorboat. It may also be hung under a bomber or an attack plane.

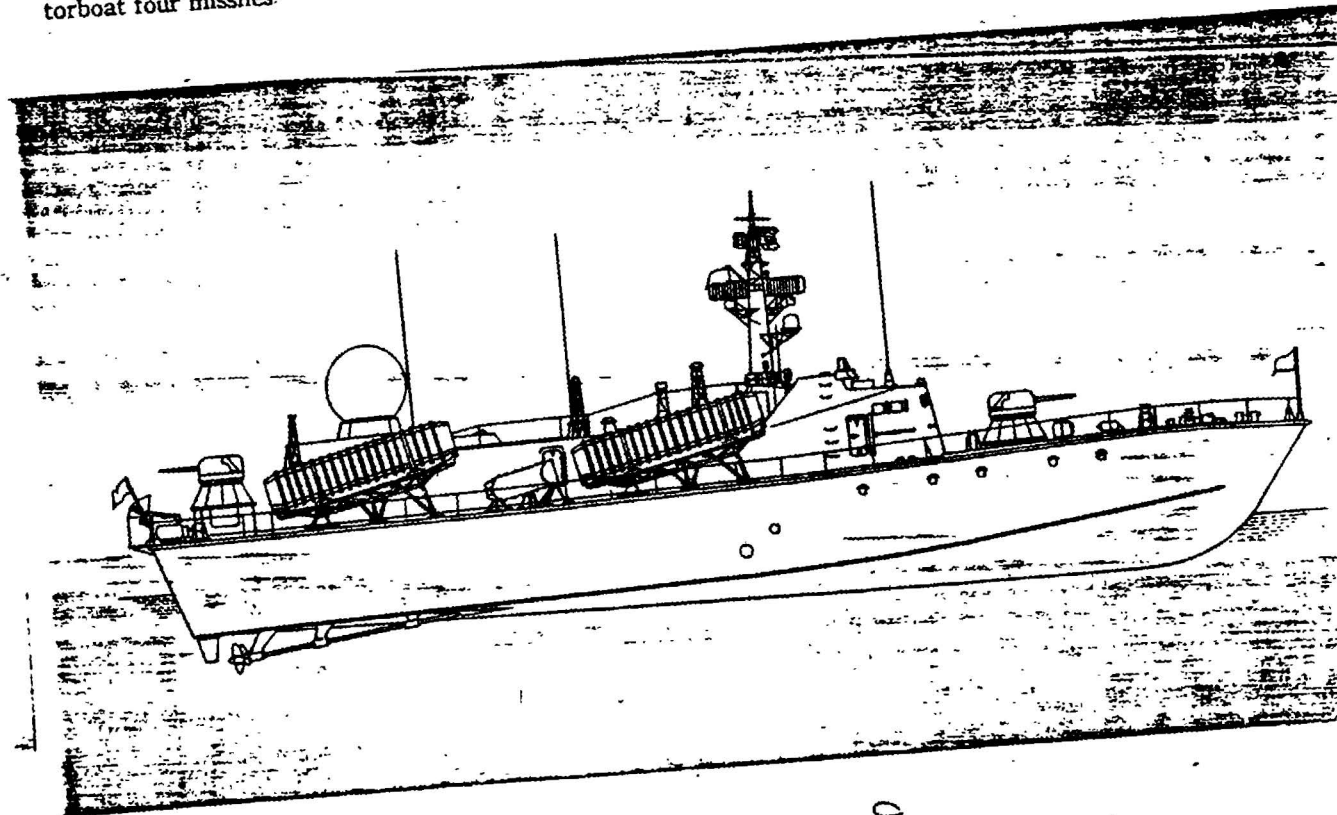


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C801導彈裝載在大型、小型快艇上。大型快艇裝載八枚，小型快艇裝載四枚。
C801 missile is installed on a large or small-size motorboat. Each Large-size motorboat is able to carry eight missiles and each small-size motorboat four missiles.



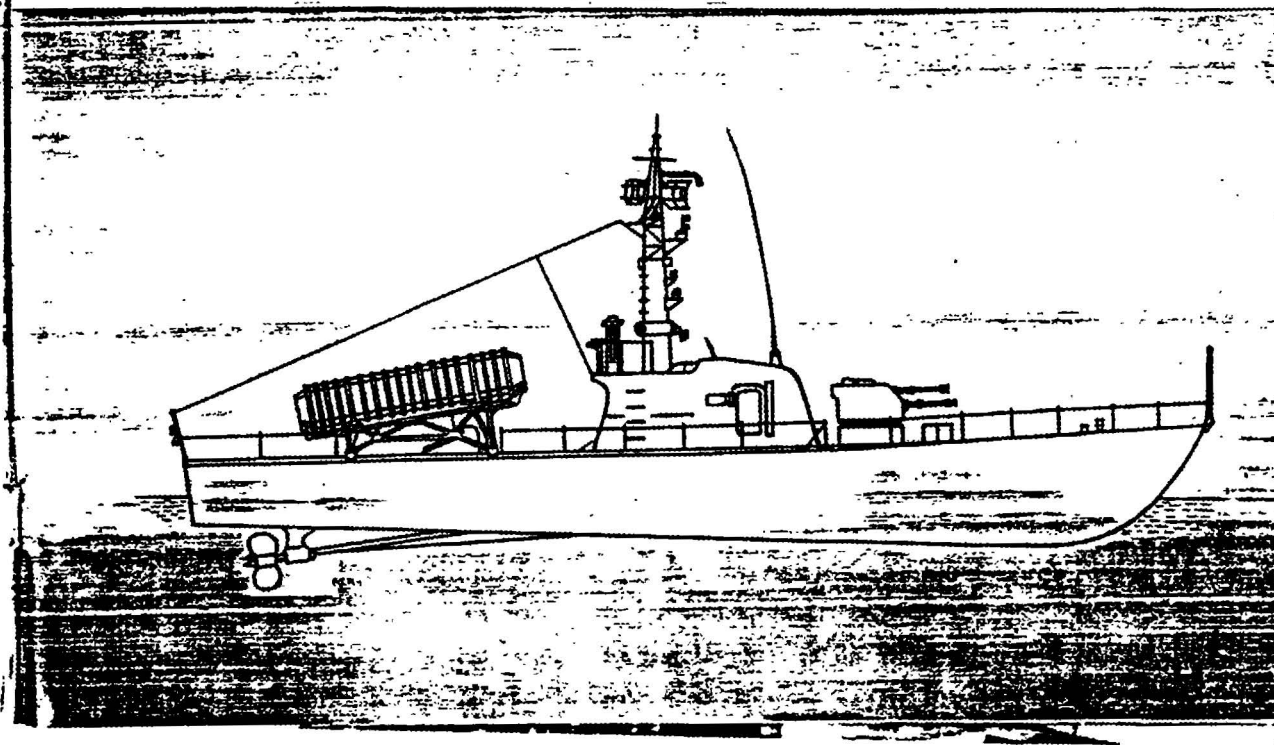
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C801導彈掛載在轟炸機、強擊機上，每架飛機可以掛載兩枚。

C801 missile is hung under a bomber or an attacker. Each aircraft is able to hang two missiles.



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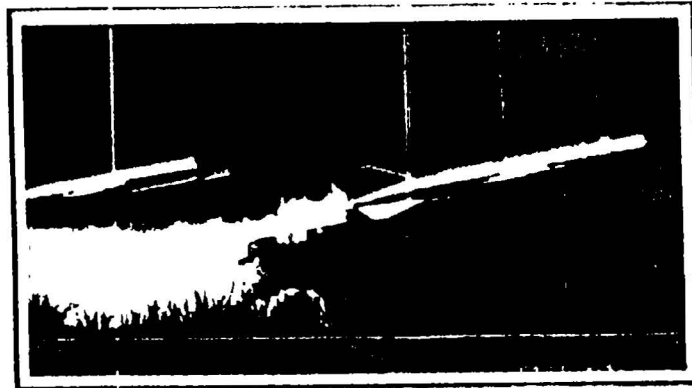
HY-2 COAST-TO-SHIP MISSILE WEAPON SYSTEM

HY-2 coast-to-ship missile weapon system is an advanced tactical defence weapon system. It is used to be fired from the launching site on the coast and destroys the large and medium surface vessel and effectively defends the harbour, islands, towns along the coast and passage ways.

File (2) to IR

(b)(3):10
USC 424

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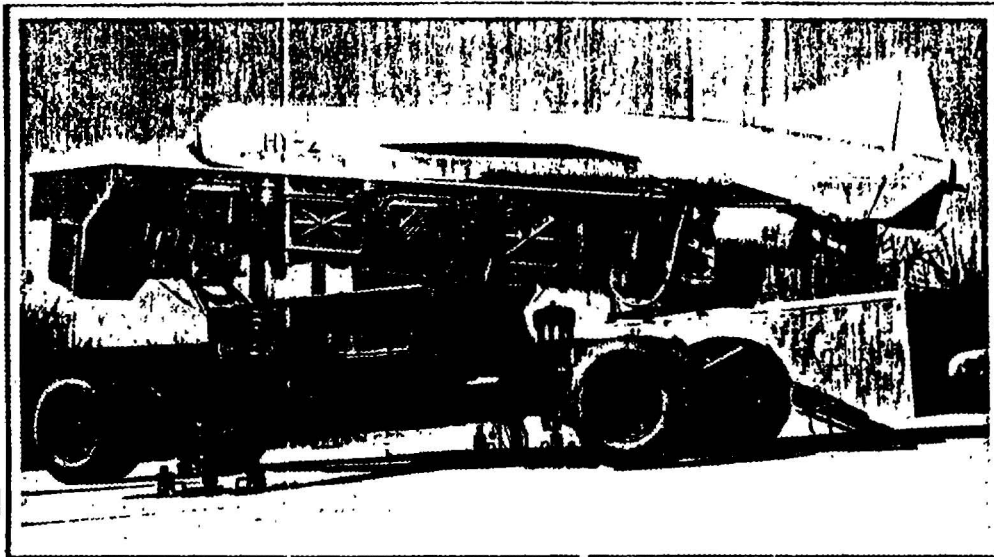
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QUALITY PAGE

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WEAPON SYSTEM



HY-2 is characterized by its long range, wide firing sea zone, high hit probability, strong explosion and mobility. It has advanced design and rational arrangement. Its control system is reliable in design and excellent in quality.

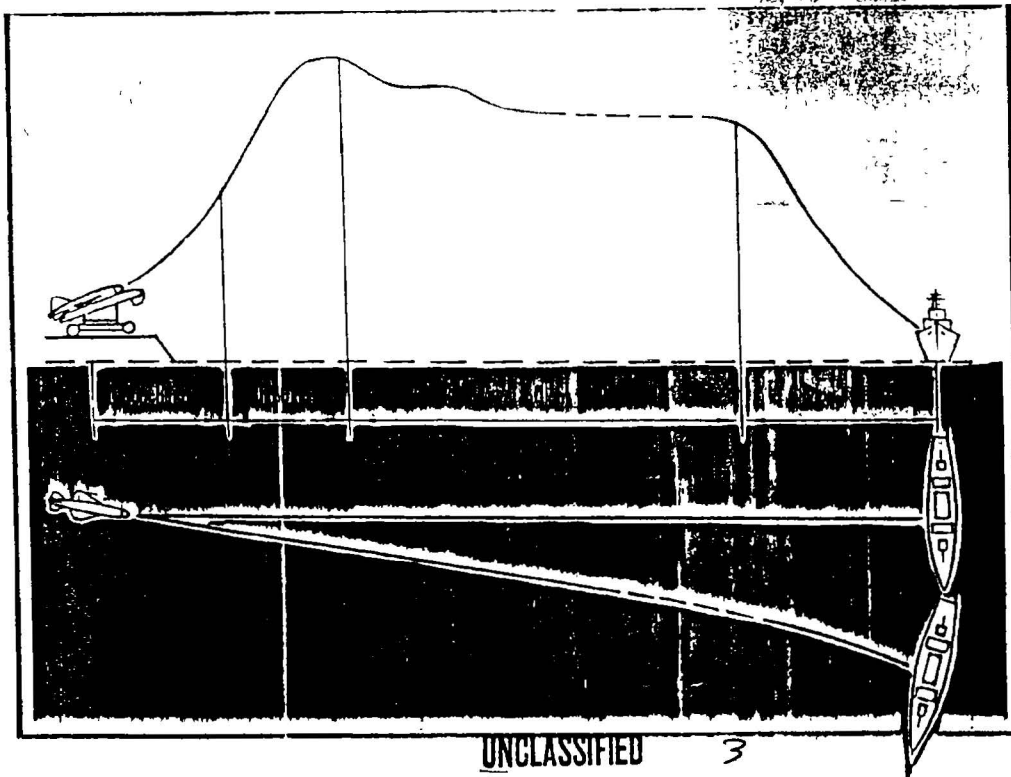
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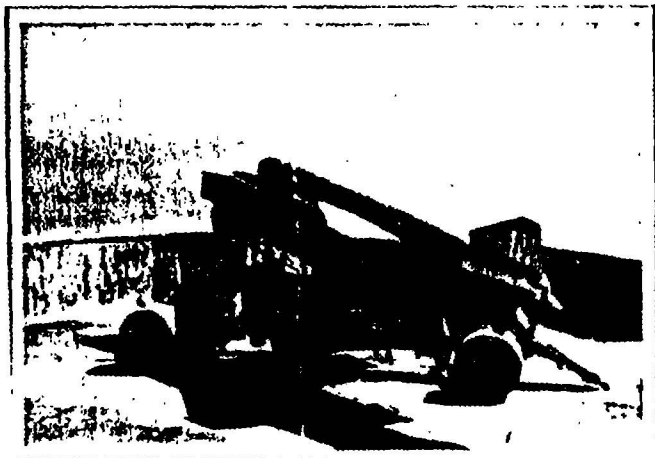
MAIN PERFORMANCE

Effective fire range:	20-95km
Single shot hit probability:	not less than 70%
Missile speed:	306m/s ($M=0.9$)
control mode:	self-control plus homing guidance
Target:	surface ships from one thousand to several hundred meters



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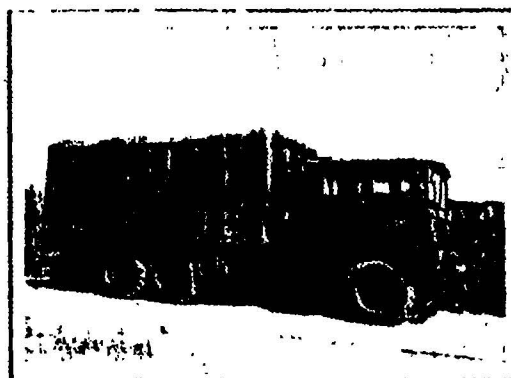
SYSTEM COMPOSITION



HY-2 coast-to-ship missile weapon system is composed of the winged missile and motorized ground equipment. The motorized ground equipment are deployed at launching site and technical site respectively.

Equipment at the launching site includes: ground tracking radar station, fire director device, launchers, transport/loading vehicle, etc.

Equipment at the technical site includes: integrated tester truck, air-source truck, oxidant charging truck, etc.



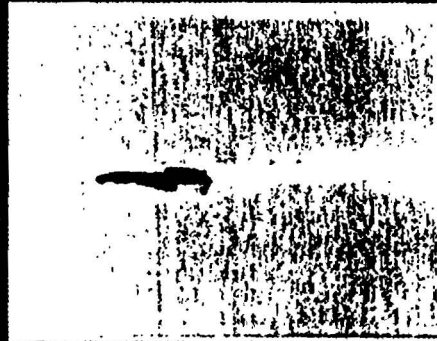
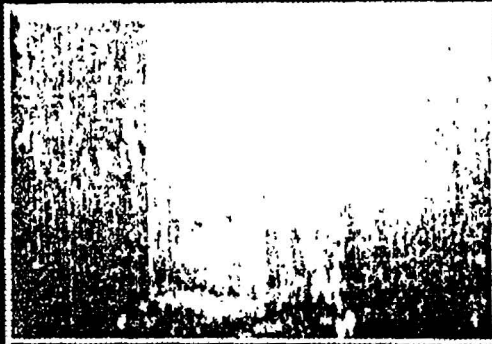
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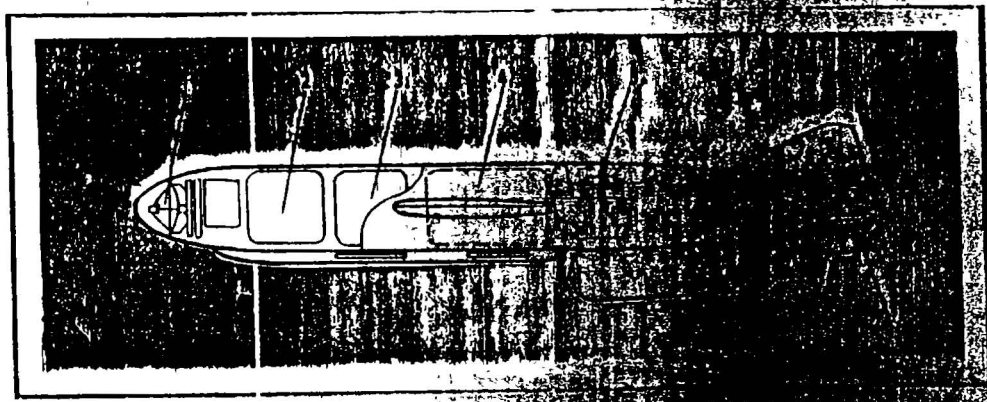
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MISSILE



1. homing radar antenna
2. fuel tank
3. warhead
4. oxidant tank
5. autopilot controller
6. booster
7. liquid rocket motor

... missile ...
dynamic ...
motor ...
liquid rocket motor ...
workmanship, high quality and ...

7

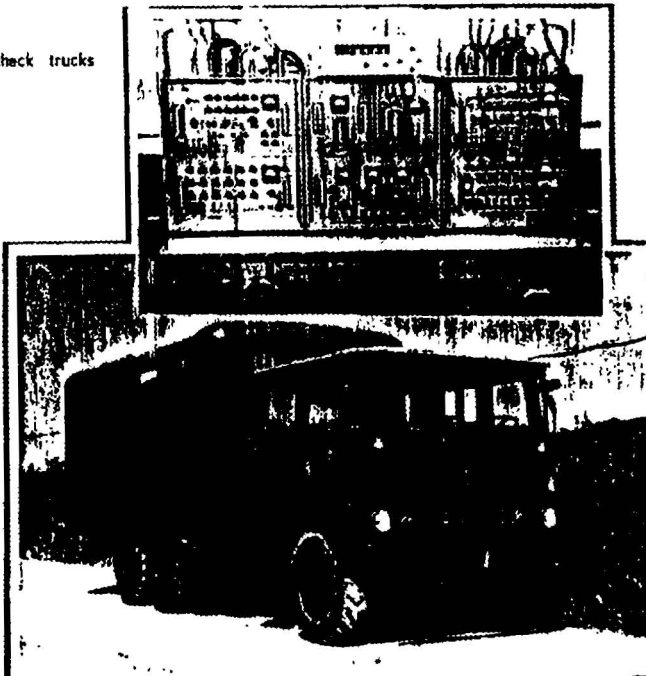
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LAUNCHING DEVICE

HY-2 launching device consists of pre-launch check trucks and launcher.

The pre-launch check truck is used both for rapid and automatic missile pre-launch check and for accomplishing the remote firing. It is provided with emergency safety firing circuit.



The launcher incorporates a highly-accurate follow-up tracking system. Its operational range: Elevation is $+10^\circ$ and azimuth $\pm 174^\circ$. The main firing direction can be set manually. The firing section is $0^\circ - \pm 85^\circ$.

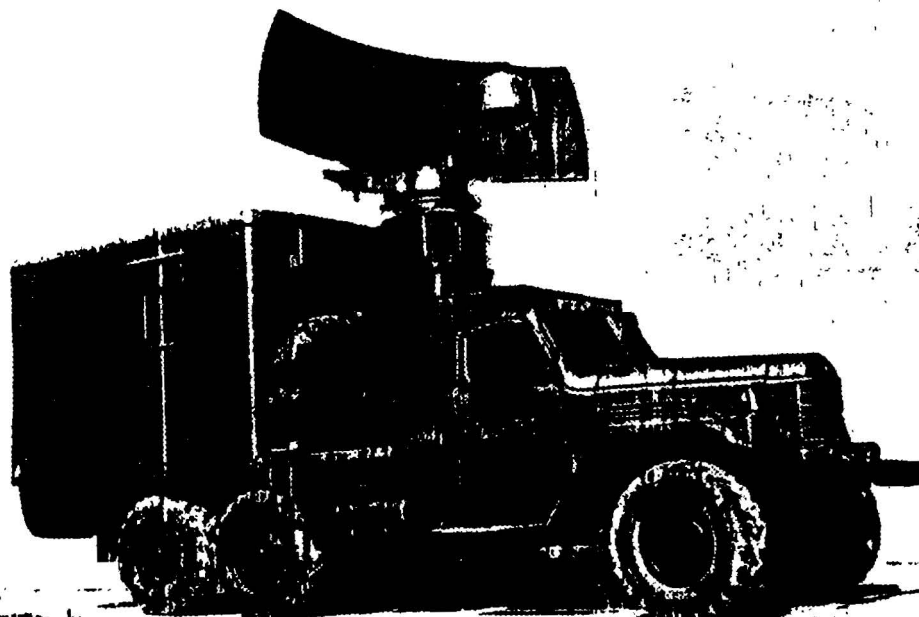
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RADAR STATION

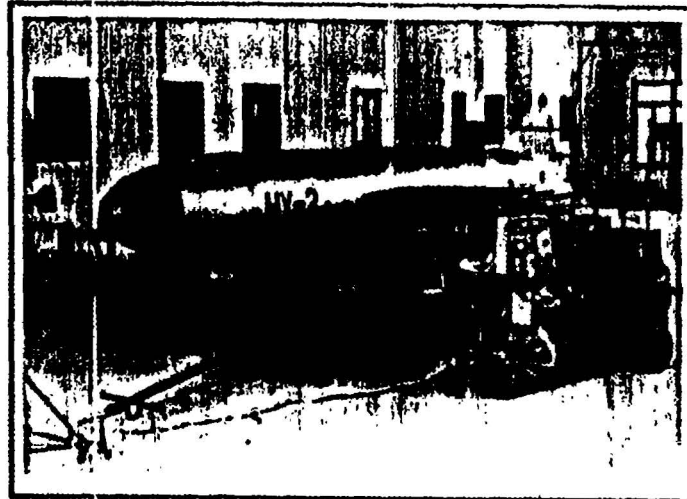
The ground tracking radar station of HY-2 missile system is capable of both searching the target and accurately tracking the target. The fire control system adopts special electronic digital computers of high-quality discrete components, attacks the lead point of target movement. It has multi-operational modes. It is characterized by excellent performance high accuracy and easy operation.



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All the technical preparations of missiles are carried out at the technical site. These include:

- Subassembly test (unit test),
- Integrated test,
- High-pressure air charging and air-tightness check,
- Oxidant charging,
- Fuel charging,
- Booster and warhead installation and check,
- Transfer and transportation, etc.

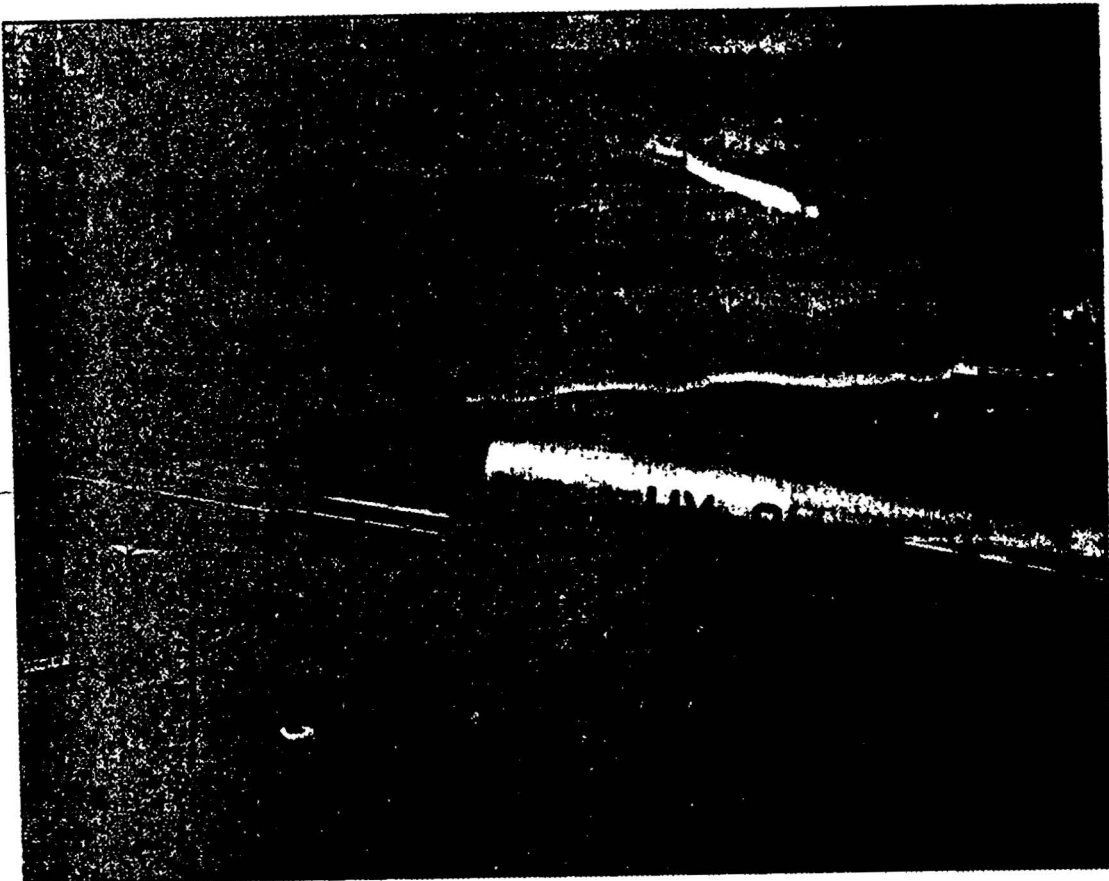
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HY-2 COAST-DEFENSE MISSILE

MISSILE DE DEFENSE COTIERE HY-2



- Great destructive capability
- High hit probability

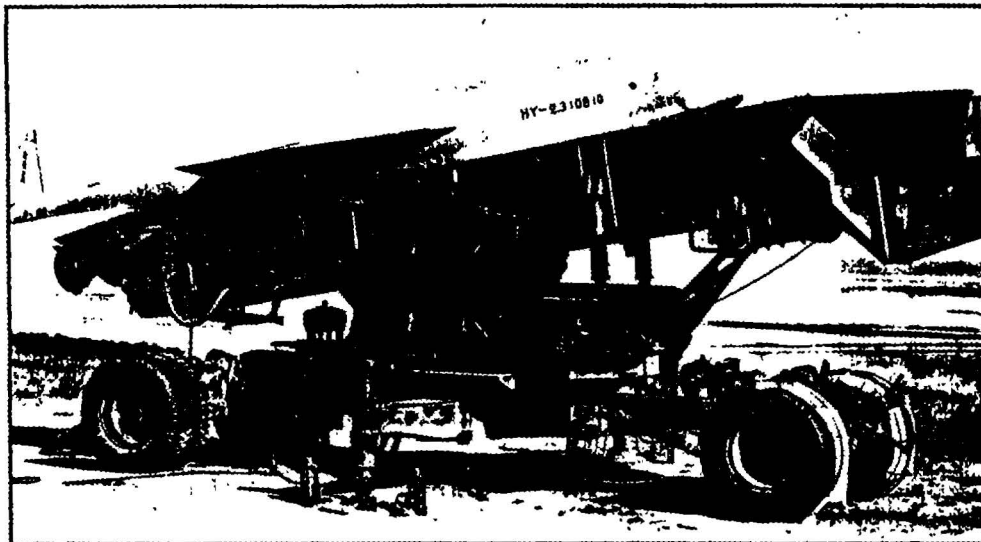
- Haut pouvoir de destruction
- Grande probabilité d'atteinte

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The HY-2 missile is a surface-to-surface, low altitude, near-sonic and self-control and self-guidance tactical anti-ship missile. It has a long firing range, a great destructive capability and a high hit probability. It is a powerful coast-defense weapon firing against the large or medium-sized fighting ships.

The HY-2 missile can be placed in the tunnel, and moved out when launching. It can also be divided into several sections which are separately installed on the motor vehicles. So it has a good concealment and flexibility to conduct sustained and mobile combats.

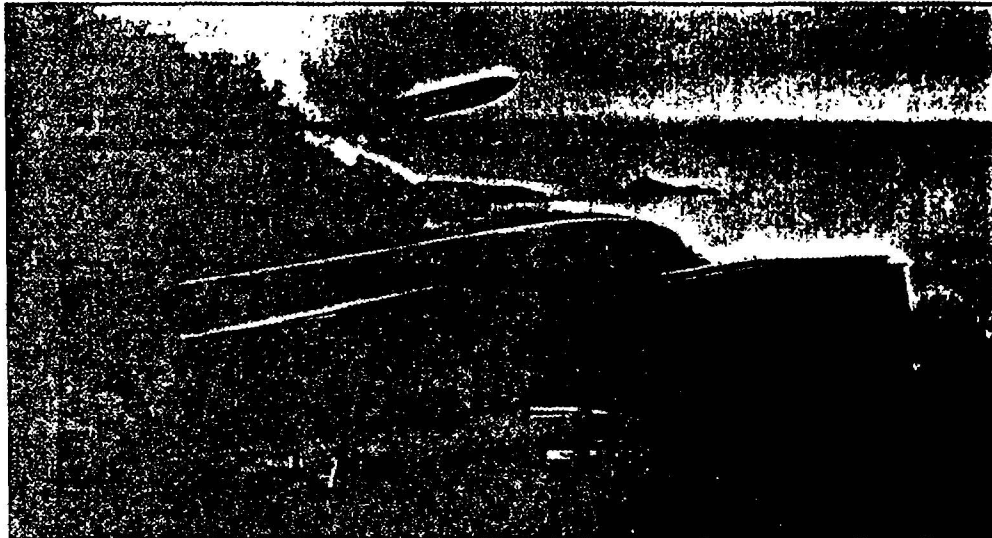
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La missile sol-navire HY-2 est un missile tactique autocommandé et autonome qui vole à basse altitude et à une vitesse grand angulaire. Ayant une longue portée, un haut pouvoir de destruction et une forte probabilité d'atteinte et possédant une certaine capacité de sélection d'objectifs, il est capable de détruire des bâtiments de grande ou moyenne dimension. Ce missile constitue une arme puissante pour la défense côtière.

Le missile HY-2 peut être installé dans un tunnel dont il sort en cas de tir ou être déployé en plusieurs parties et monté sur des véhicules, ce qui permet d'assurer la dissimulation et la capacité de mener un combat souterrain et mobile.



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Length	7.48 m
Diameter	0.78 m
Wing span	2.4 m
Weight of warhead filler	380 kgs
Powered range	105 km
Effective range	20~95 km
Minimum range	20 km
Flight speed	308 m/sec
Flight height	100~300 m
Mode of guidance	Self-control and self-guidance
Sustainer	Liquid rocket motor
Hit probability	More than 70%

Longueur	7.48 m
Diamètre	0.78 m
Envergure	2.4 m
Poids de la charge militaire	380 kg
Portée de vol propulsé	105 km
Portée utile	20~95 km
Portée mini.	20 km
Vitesse de vol	308 m/s
Hauteur de vol	100~300 m
Mode de guidage	autocommande et autoguidage
Type du moteur	moteur à combustible liquide
Probabilité d'atteinte	> 70%

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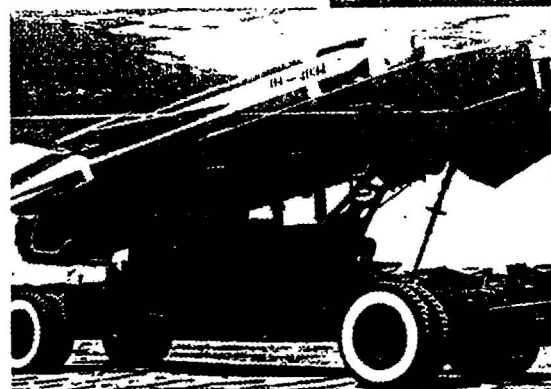
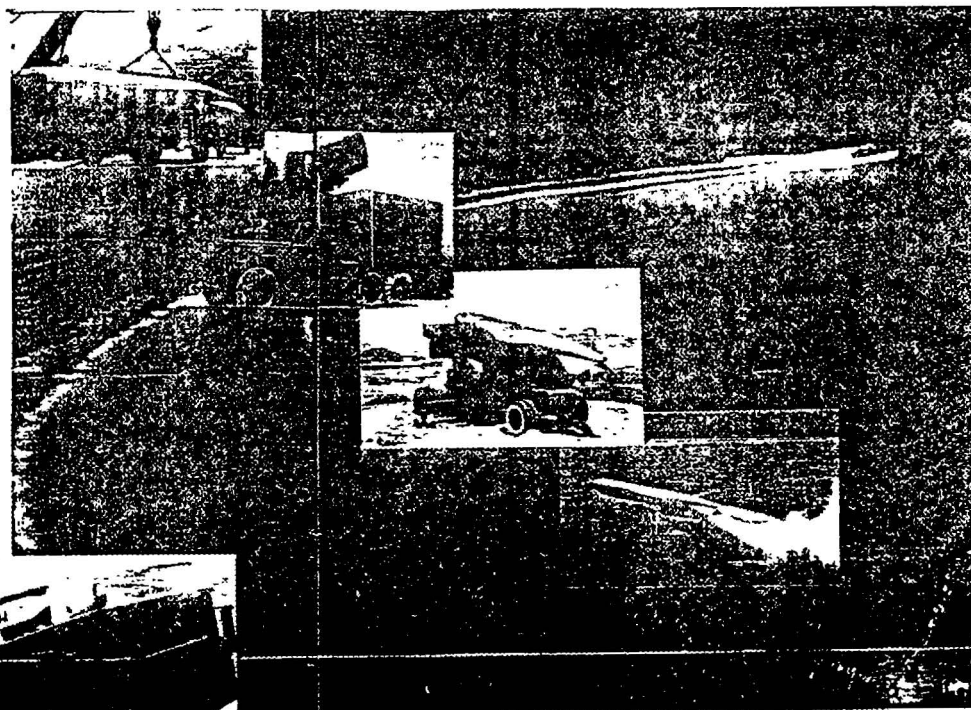
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HY-2A 是一种远程反舰导弹，采用红外寻的，命中精度高，抗干扰能力强。HY-2A 采用液体火箭发动机，推力大，射程远，命中精度高，命中后爆炸威力大，足以摧毁舰船，是海防的重要武器。

HY-2 missile is an shore to ship missile, an infrared seeker as the terminal guidance. Its infrared seeker works stably, its guidance precision is high, and it is capable of resisting several kinds of interferences. It is characterized by its long range, high hit probability and its powerful explosion. HY-2 missile is a necessary coastal defense weapon in defending harbors, cities along the shore and maritime trade passage ways.

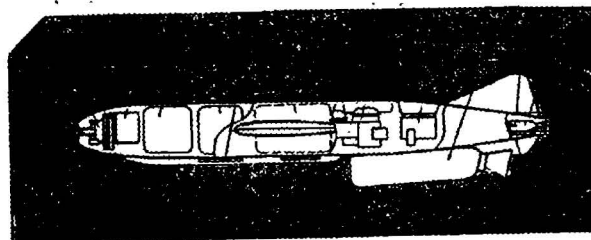


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|----------|------------|--------------------------|--|
| 1. 有效射程 | 20~95km | 1. Effective range | 20 to 95 km |
| 2. 命中概率 | 单发命中概率70% | 2. Hit probability | single shot hit probability 70% |
| 3. 平飞高度 | 100m, 200m | 3. Level flight altitude | 100 and 200 m |
| 4. 平飞速度 | 306m/sec | 4. Level flight velocity | 306m/sec |
| 5. 控制方式 | 自主控制+自动寻的 | 5. Control mode | self-control plus homing guidance |
| 6. 发射方式 | 单发 | 6. Launching mode | single shot |
| 7. 发射点高度 | 不大于海拔400m | 7. Launching point | height less than 400 m above sea level |

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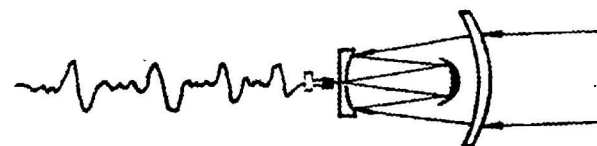
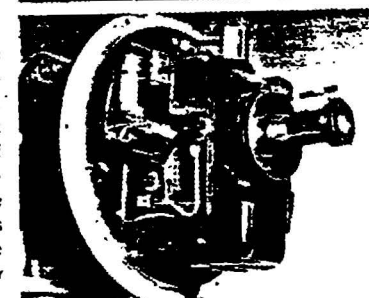
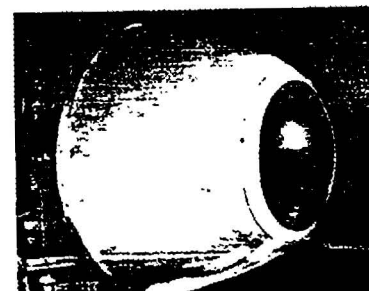
- | | |
|-------------|-------------------------------------|
| 1. 红外寻头器 | 1. infrared seeker |
| 2. 6. 压缩空气瓶 | 2. 6. compressed air bottle |
| 3. 红外末制导舱前模 | 3. front cabinet of infrared seeker |
| 4. 燃料箱 | 4. fuel tank |
| 5. 弹头 | 5. warhead |
| 7. 氧化剂箱 | 7. oxidant tank |
| 8. 自动驾驶仪控制模 | 8. autopilot controller |
| 9. 红外末制导舱后模 | 9. rear cabinet of infrared seeker |
| 10. 助推器 | 10. booster |
| 11. 液体火箭发动机 | 11. liquid rocket engine |



- | | |
|---------------------------------------|---|
| 1. 导弹全长 7.308m | 5. 导弹全重 2990kg |
| 2. 最大直径 0.76m | 6. 弹头重量 513kg |
| 3. 翼展 2.40m | 7. 助推器重 570kg |
| 4. 导弹高度 1.29m (不带助推器)
1.69m (带助推器) | |
| | 5. Total weight of the missile: 2,990kg |
| | 6. Warhead weight: 513kg |
| | 7. Booster weight: 570kg |

HY-2A导弹红外寻头器接收目标辐射的红外光波，利用光伏特性形成控制信号，引导导弹命中目标。它具有抗电子干扰、抗微波干扰、抗强辐射干扰的特点。被动式，工作隐蔽，不易被发现。

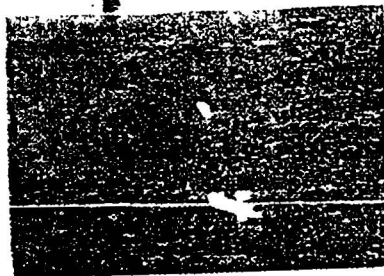
The infrared seeker for HY-2A missile receives the infrared light wave radiated by the target and makes use of the light-volt characteristic to form the control signal and guides the missile to hit the target. It is capable of resisting electronic counter-measures, resisting sea wave and passive interferences. Its passivity is able to make operations covert and not easy to be detected by the enemy.



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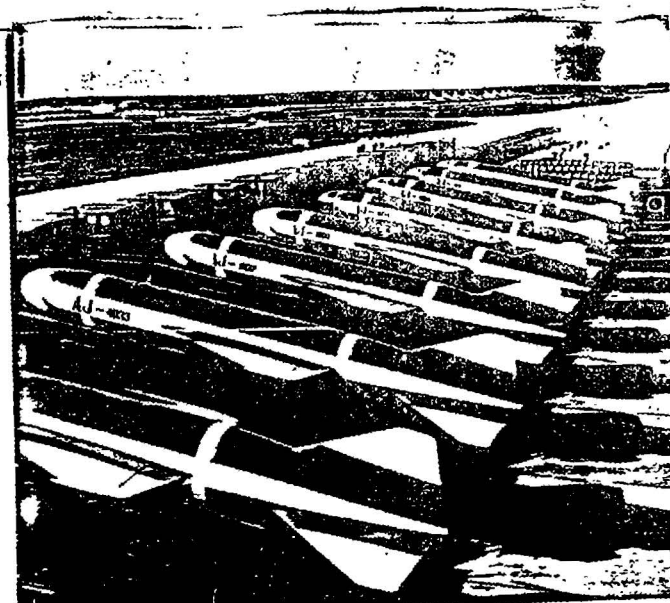
HY-2A型導彈採用先進的成形破甲彈頭，裝有目標時由引信起爆，可以擊穿目前已知的所有艦艇裝甲。



HY-2A missile uses the shaped charge armour-piercing warhead, which is detonated by the fuses to destroy the target when it is impacted. The powerful warhead is capable of breaking through any kind of warship armour known so far.

HY-2A型導彈武器系統的機械化地面設備由多種車輛組成。除GB-3紅外線試驗車外，其餘車輛均與HY-2武器系列地面設備通用。

The motorized ground equipments for Hy-2A missile weapon system are composed of 44 trucks, including one GB-3 infrared testing truck and the other 43 universal trucks used for Hy-2 missile weapon family.



CPMIEC生產的HY-2A型導彈武器系統方案先進，布局合理，控制系統工作可靠，質量優良，是一種具有現代水平的海岸防禦武器。本公司產品精良，價格合理，交貨迅速，零備件充足，信守合同，服務周到。歡迎用戶訂貨。

Hy-2A missile weapon system manufactured by CPMIEC is an advanced tactical coastal defence weapon system with modern technology, which has advanced design and rational arrangement. Its control system is reliable in design and excellent in quality.

Our corporation offers first-grade products, reasonable prices, prompt delivery, sufficient spare parts and satisfactory technical service and fulfills any signed contracts faithfully.

We are always willing and ready to receive any user's orders

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