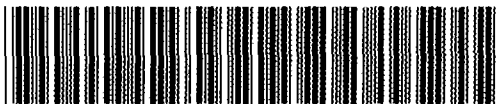
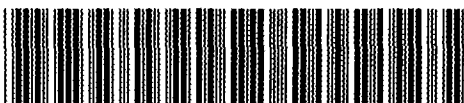




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ENCL NO - 0

TITLE - IIR 6 806 0236 88

INDEX NO - 6 806 0236 88

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FM (b)(3):10 USC 424

INFO DIA WASHDC (b)(3):10 USC 424, (b)(3):50 USC 403-1(i)
INFO USCINCEUR VAIHINGEN

(b)(3):10 USC 424

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

REISSUED WITH ENCLOSURES

~~NOFORN~~

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

COUNTRY: (U) IRAN (IR); CHINA (CH).

SUBJECT: IIR (b)(3):10 USC 424 IRANIAN MISSILE INTERESTS (U)

WARNING: (U) THIS IS AN INFORMATION REPORT, NOT FINALLY EVALUATED INTELLIGENCE. REPORT CLASSIFIED SECRET -- NOFORN.

DEPARTMENT OF DEFENSE

DOI: (U) 880713

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

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

SUMMARY: ~~(S)~~ REPORT FORWARDS BROCHURES DESCRIBING A NUMBER OF CHINESE MISSILE SYSTEMS IN OR BEING CONSIDERED FOR THE IRANIAN MILITARY INVENTORY. ENCLOSURES.

TEXT: 9. ~~(S)~~ IN EARLY JULY 1988 AN IRANIAN MILITARY OFFICE PROVIDED ~~(S)~~ THE ENCLOSED BROCHURES GENERATED BY THE CHINA PRECISION MACHINERY IMPORT AND EXPORT CORPORATION (CPMIEC) TO SUPPORT MARKETING EFFORTS IN IRAN. SYSTEMS DESCRIBED ARE--

- A. ~~(S)~~ THE HY-2 AND HY-2A COAST-TO-SHIP MISSILE;

ACTION DIA(1) (U.P. 6.7.8)
(b)(3):10 USC 424, (b)(3):50 USC 403-1(i)

[Large redacted area]

- B. ~~(S)~~ THE C-801 MULTIPURPOSE MISSILE;
- C. ~~(S)~~ THE HN-5 AND HN-5A IMPROVED SHOULDER-FIRED ANTI-AIRCRAFT MISSILE;
- D. ~~(S)~~ THE HQ-2J GROUND-TO-AIR MISSILE.

2. ~~(S)~~ A SEPARATE BROCHURE TOUTS THE BROAD-BRUSH CAPABILITIES AND PRODUCT LINE OF CPMIEC. COMMENT: (C/NF) ENCLOSURES ARE OFF-THE-SHELF COMPANY MATERIAL --

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

//IPSP: (U) (b)(3):10 USC 424
//CONSOBJ: (U)
PROJ: (U)
INSTR: (U)
PREP: (U)

- ENCL: (U) TO FOLLOW: 7 BROCHURES
1. HY-2A COAST-TO-SHIP MISSILE SYSTEM (U), 1 COPY, UNDATED, 8 PAGES, IN ENGLISH AND CHINESE (U);
 2. HY-2 MISSILE SYSTEM (U), 1 COPY, UNDATED, 12 PAGES, IN ENGLISH (U);
 3. C-801 MISSILE SYSTEM (U), 1 COPY, UNDATED, 10 PAGES, IN ENGLISH AND CHINESE (U);
 4. HN-5 MISSILE SYSTEM (U), 1 COPY, UNDATED, 4 PAGES, IN ENGLISH (U);
 5. HN-5A (U), 1 COPY, UNDATED, 14 PAGES, IN ENGLISH (U);
 6. HQ-2J MISSILE SYSTEM (U), 1 COPY, UNDATED, 4 PAGES, IN ENGLISH (U);
 7. CPMIEC (U), 1 COPY, UNDATED, 16 PAGES, IN ENGLISH AND CHINESE.
- ACQ: (U)
DISSEM: (b)(3):10 USC 424, (b)(3):50 USC 403-1(i)

WARNING: (U) ~~(S)~~ INFORMATION NOT RELEASABLE TO FOREIGN NATIONALS
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PAGE 1 OF 1
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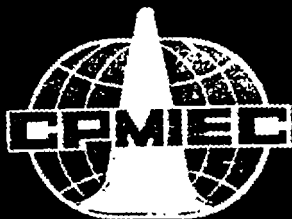
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ENCL 1 TO IIR (b)(3):10 USC 424

HY-2A

Missile system

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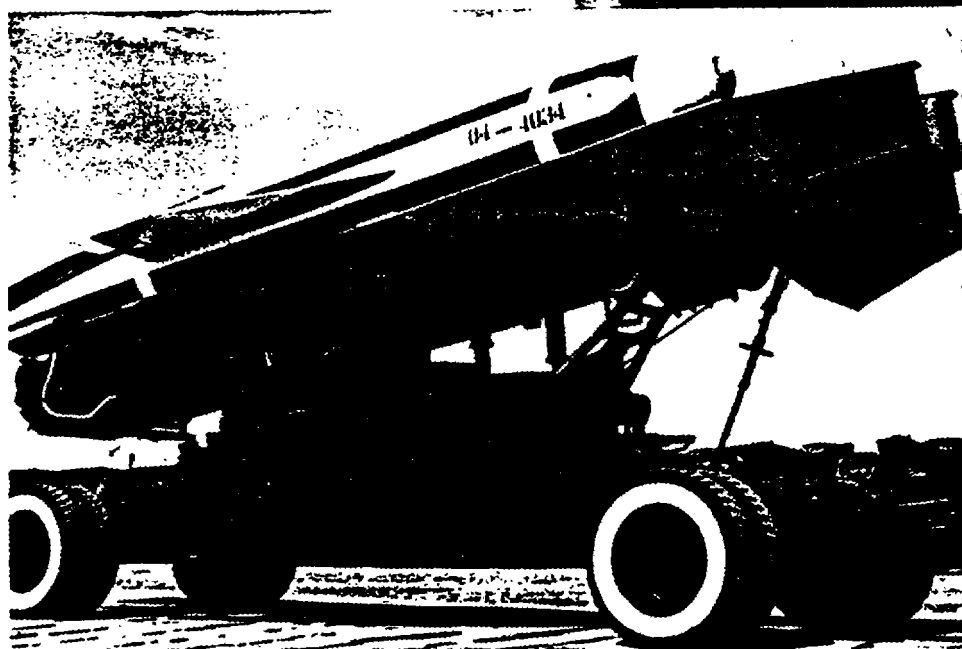


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HY-2A型導彈是用紅外頭做末製導的岸對艦導彈。紅外頭工作穩定，導引精度高，具有多種抗干擾能力。HY-2A型導彈射程遠，命中率高，威力大，是保衛沿海港口、城市的良好岸防武器。

HY-2A missile is an shore-to-ship missile using 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-2A missile is a nice necessary coast defence weapon in defending harbours, cities along the shore and maritime traffic passage-ways.



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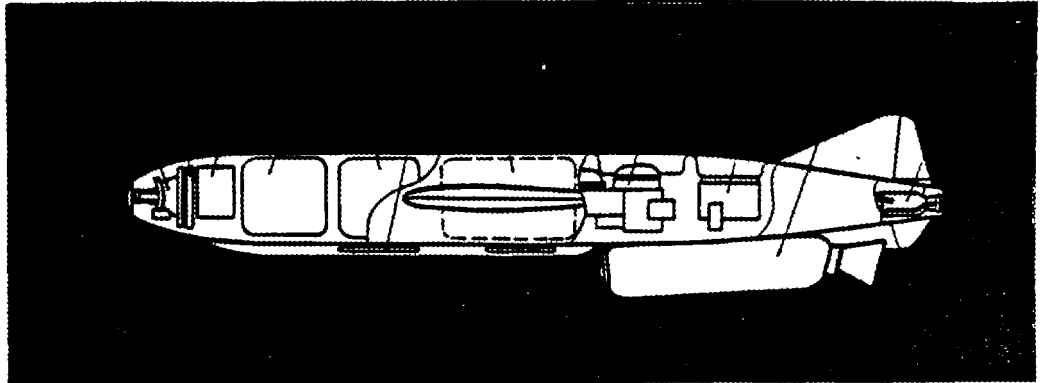


- | | | | |
|---------|-------------------------|--------------------------|--|
| 1、有效射程 | 20~95km | 1. Effective range | 20 to 95 km |
| 2、命中概率 | 單發命中概率為70% | 2. Hit probability | single shot hit probability 70% |
| 3、平飛高度 | 100m、200m | 3. Level flight altitude | 100 and 200 m |
| 4、平飛速度 | 306m/sec | 4. Level flight velocity | 306m/sec |
| 5、控制方式 | 自主控制十自動導引
自導距離8~14km | 5. Control mode | self-control plus homing guidance
homing range 8 to 14 km |
| 6、發射方式 | 單發 | 6. Launching mode | single shot |
| 7、發射點高度 | 不大於海拔400m | 7. Launching point | height less than 400 m
above sea level |

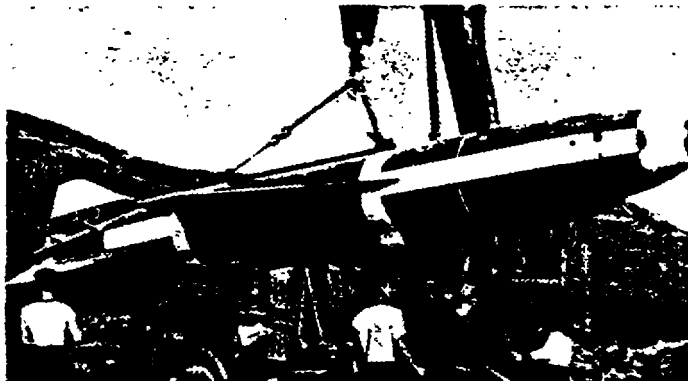
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- | | |
|--------------|-------------------------------------|
| 1. 紅外末製導頭 | 1. infrared seeker |
| 2.6. 壓縮空氣瓶 | 2.6. compressed-air bottle |
| 3. 紅外末製導頭前機櫃 | 3. front cabinet of infrared seeker |
| 4. 燃料劑艙 | 4. fuel tank |
| 5. 戰鬥部 | 5. warhead |
| 7. 氧化劑箱 | 7. oxidant tank |
| 8. 自動駕駛儀控制儀 | 8. autopilot controller |
| 9. 紅外末製導頭後機櫃 | 9. rear cabinet of infrared seeker |
| 10. 助推器 | 10. booster |
| 11. 液體火箭發動機 | 11. liquid rocket engine |



- | | | |
|-----------------------|----------------|--|
| 1. 導彈全長 7.308m | 5. 導彈全重 2990kg | 1. Full length of the missile: 7.308m |
| 2. 最大直徑 0.76m | 6. 戰鬥部重 513kg | 2. Maximum diameter: 0.76m |
| 3. 彈翼翼展 2.40m | 7. 助推器重 570kg | 3. Wingspan: 2.40m |
| 4. 導彈高度 1.29m (不帶助推器) | | 4. Missile height: 1.29m (without booster) |
| 1.69m (帶助推器) | | 1.69m (with booster) |
| | | 5. Total weight of the missile: 2,990kg |
| | | 6. Warhead weight: 513kg |
| | | 7. Booster weight: 570kg |

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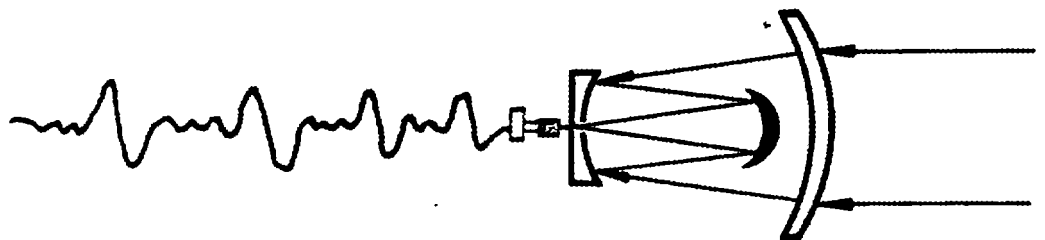
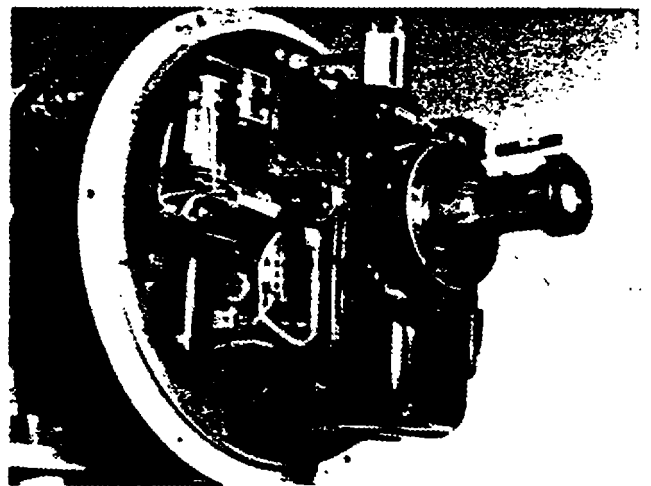
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HY-2A導彈紅外頭接收目標輻射的紅外光波，利用光伏特性形成控制信號，引導其擊中目標。它具有抗電子干擾，抗海浪干擾，抗無源干擾的特點。被動式，工作隱蔽，不易被發現。

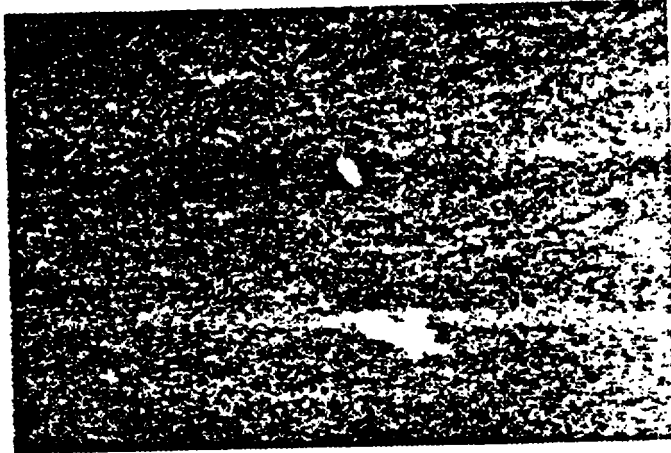
The infrared seeker for Hy-2A missile receives the infrared light wave radiated by the target and makes use of the light-volt characteristic to form the control signal and guides the missile to hit the target. It is capable of resisting electronic countermeasures, resisting sea wave and passive interferences.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



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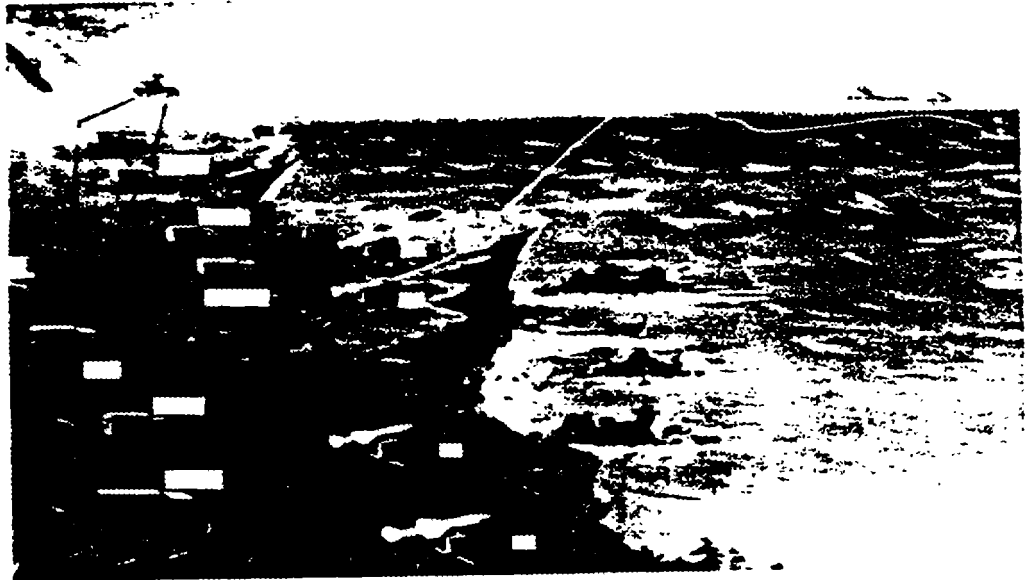
HY-2A型導彈採用聚能穿甲戰鬥部，撞擊目標時由引信起爆，可以擊穿目前已知的任何軍艦裝甲。



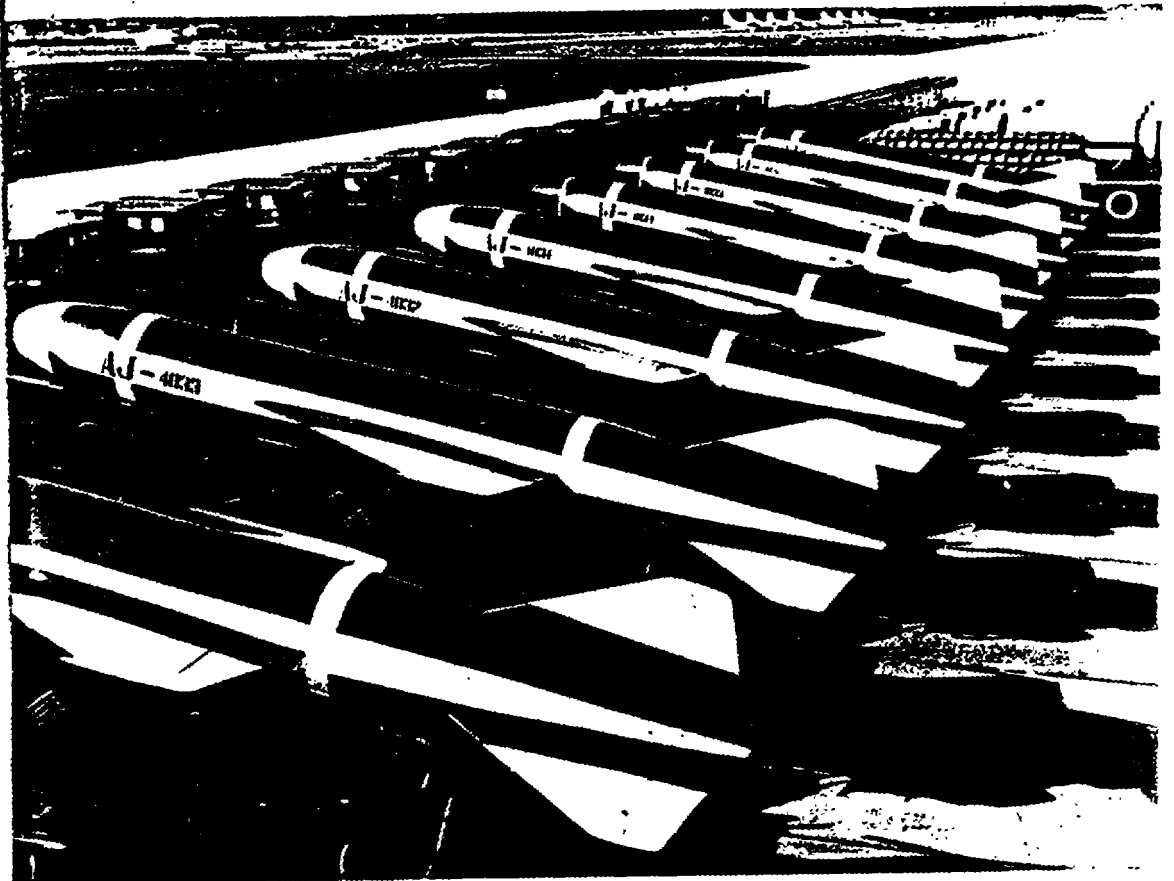
HY-2A missile uses the shaped-charge armour-piercing warhead, which is detonated by the fuses to destroy the target when it is impacted. The powerful warhead is capable of breaking through any kind of warship armour known so far.

HY-2A型導彈武器系統的機動化地面設備由多種車組成。除GB-3紅外測試車外，其餘車輛同HY-2武器係列地面設備通用。

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.



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CPMIEC生產的HY-2A型導彈武器係統方案先進，布局合理，控制係統工作可靠，質量優良，是一種具有現代水平的海岸防禦戰術武器。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 fulfils any signed contracts faithfully.

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

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HY-2 MISSILE SYSTEM



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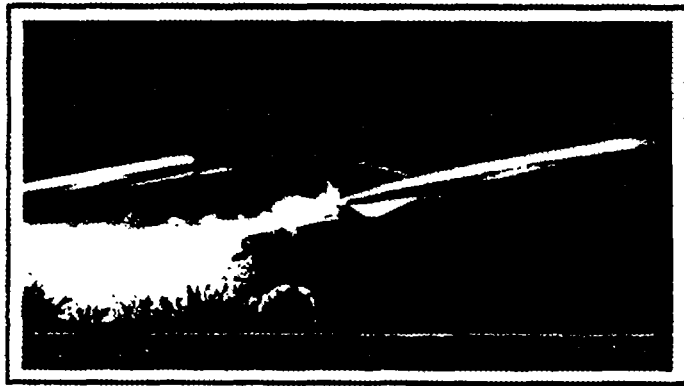
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HY-2 COAST-GUARD MISSILE

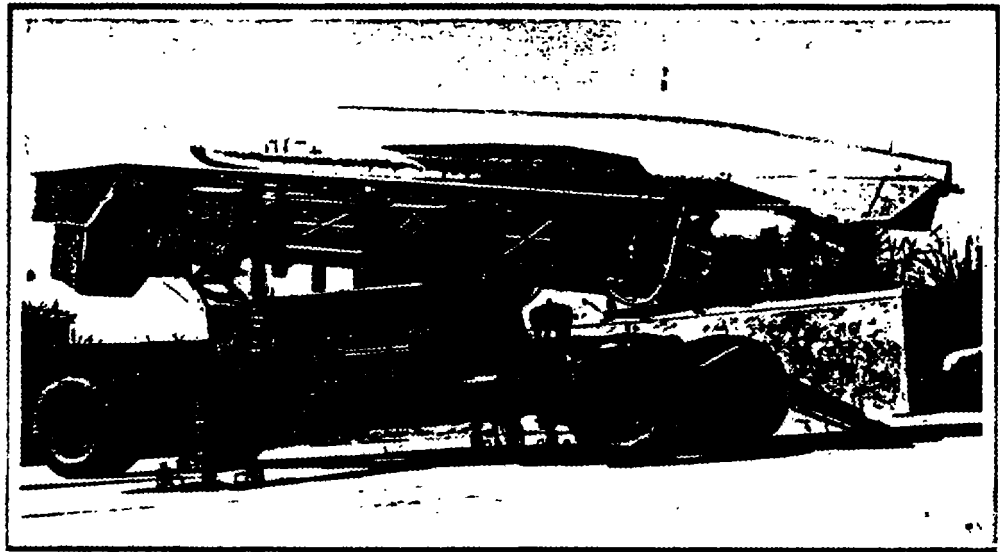
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HY-2 coast-guard missile weapon system is an advanced local coastal defence weapon system. It is used to be fired from the launching site on the shore and destroys the large and medium surface vessel and effectively defends the harbour, strand, rivers along the coast and passage-ways.



WEAPON SYSTEM

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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.

3

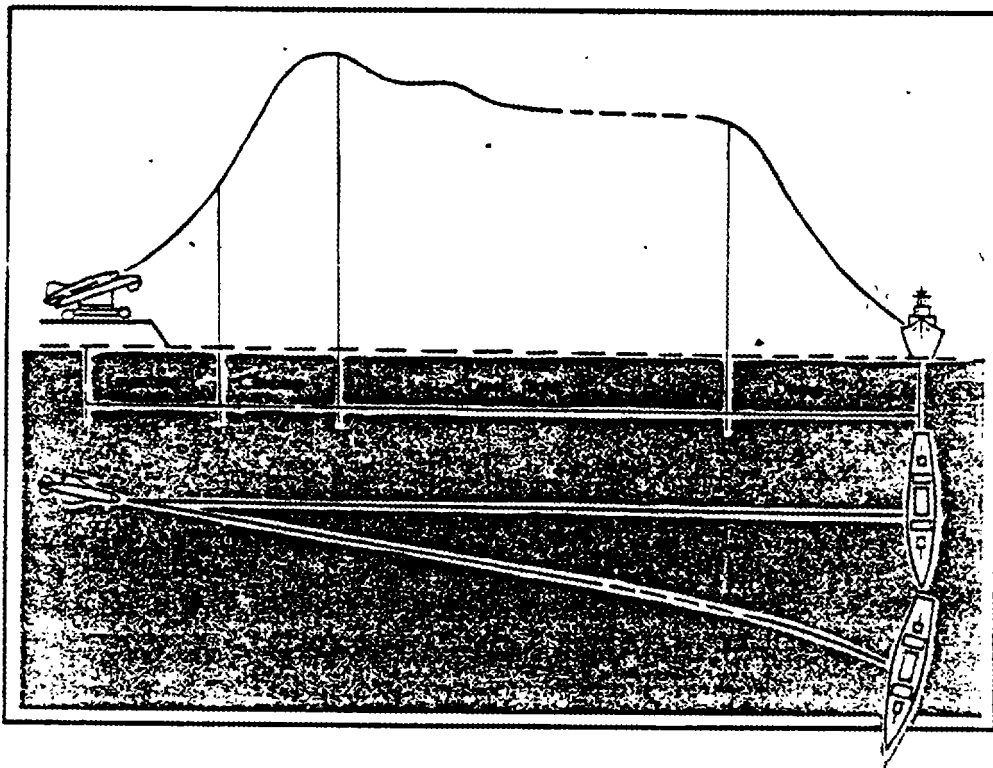
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MAIN PERFORMANCE

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 ten thousand tons

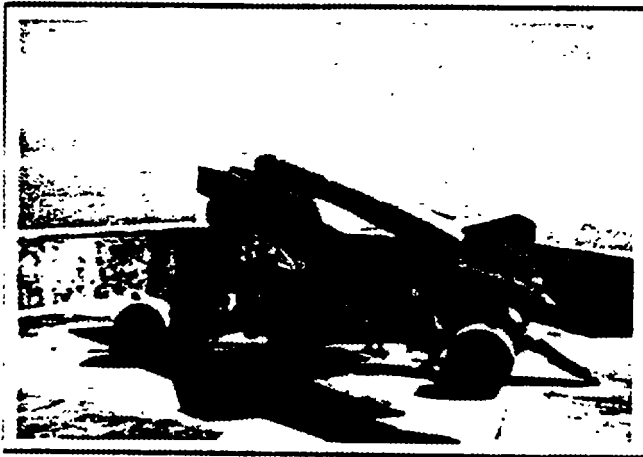


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SYSTEM COMPOSITION

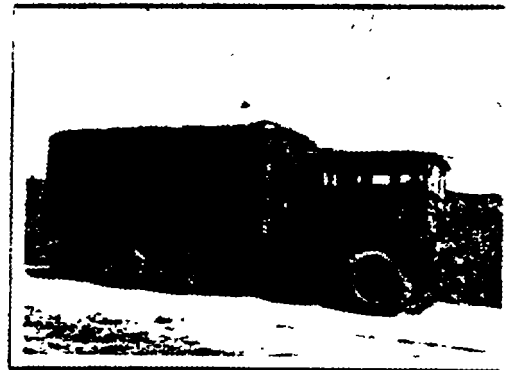
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HY-2 coast-to-ship missile weapon system is composed of the winged missile and motorized ground equipment. The motorized ground equipment are deployed at launching site and technical site respectively.

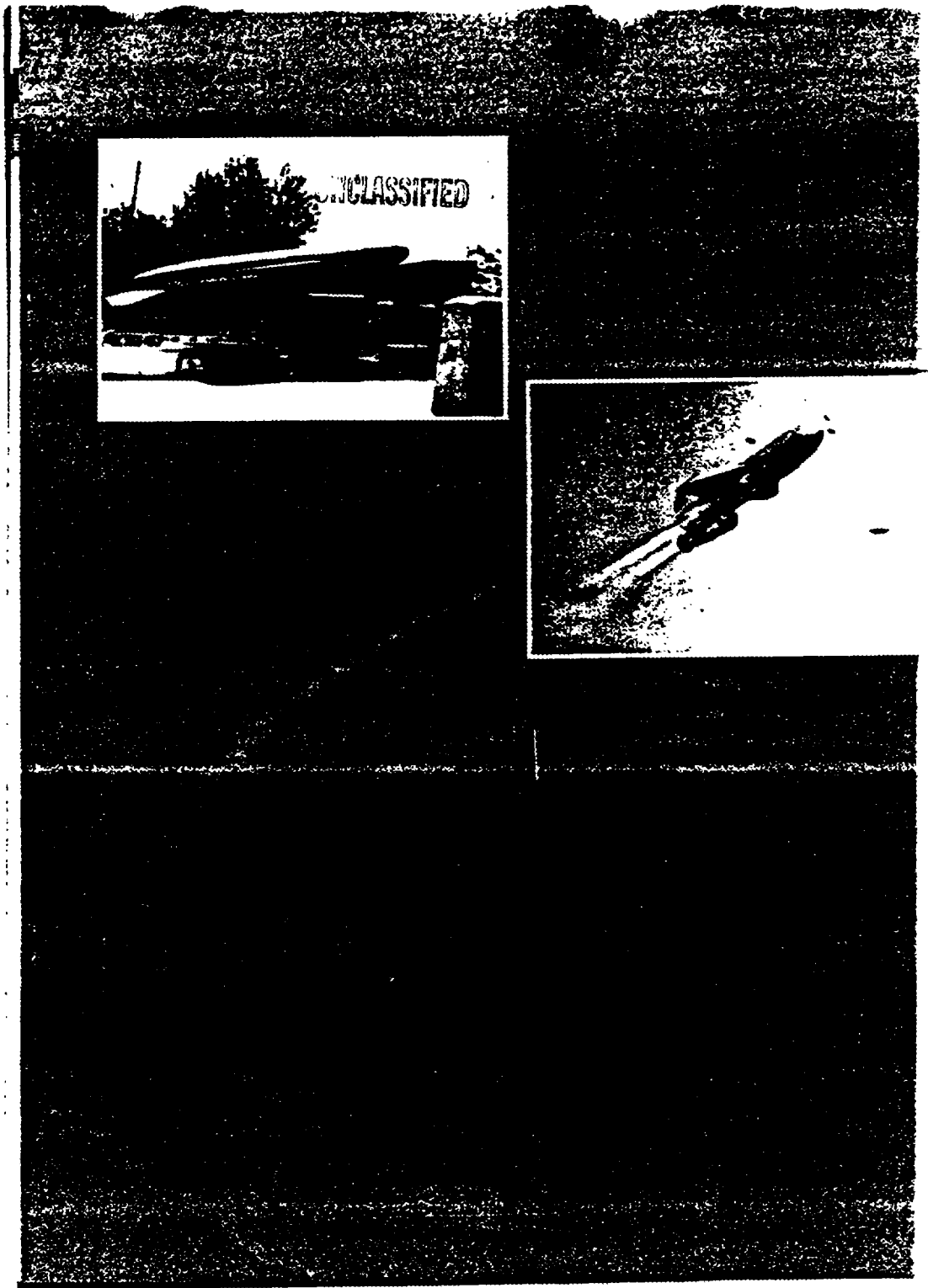
Equipment at the launching site includes: ground tracking radar station, fire director device, launchers, transport/loading vehicle, etc.

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



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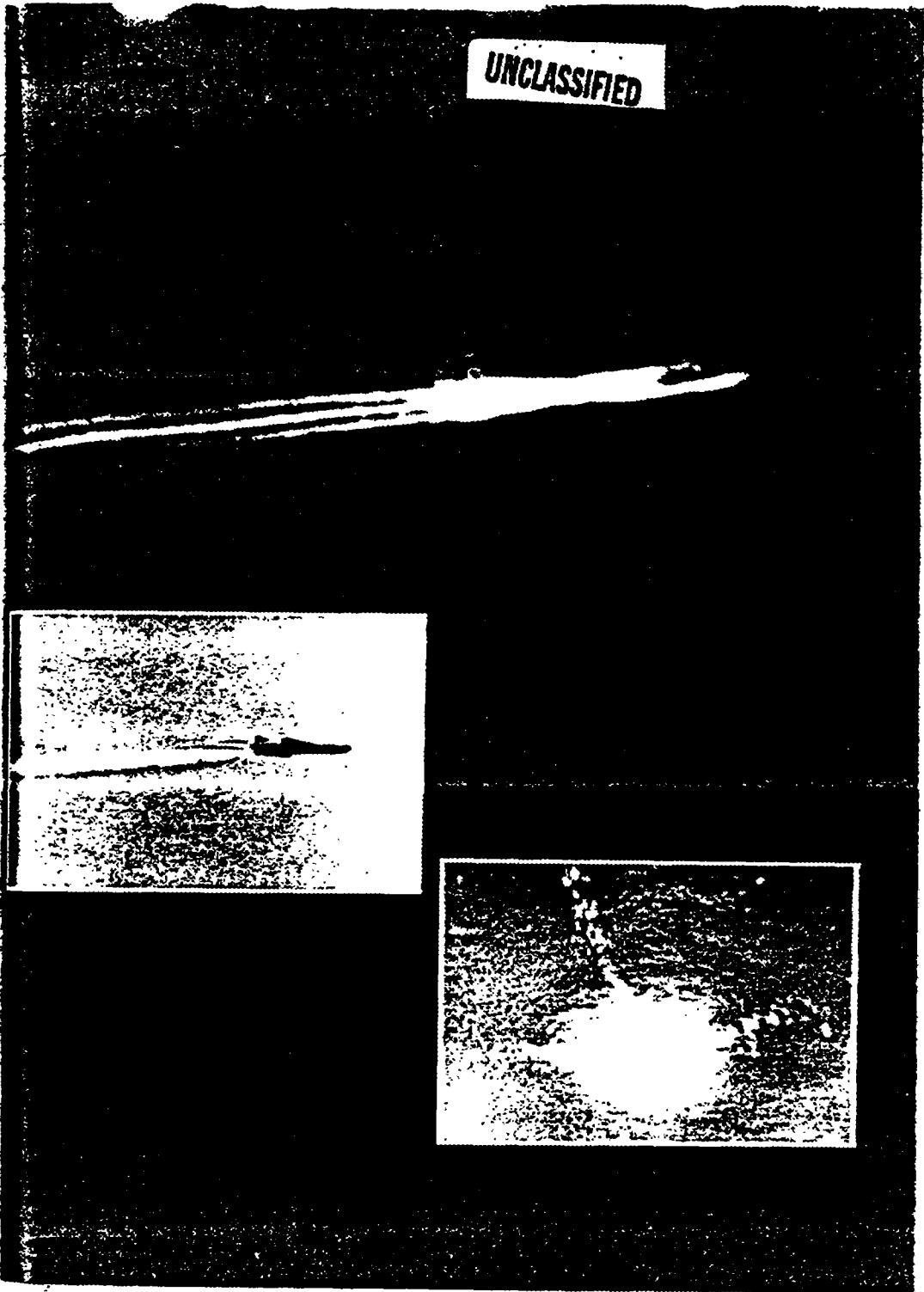
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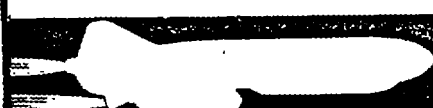
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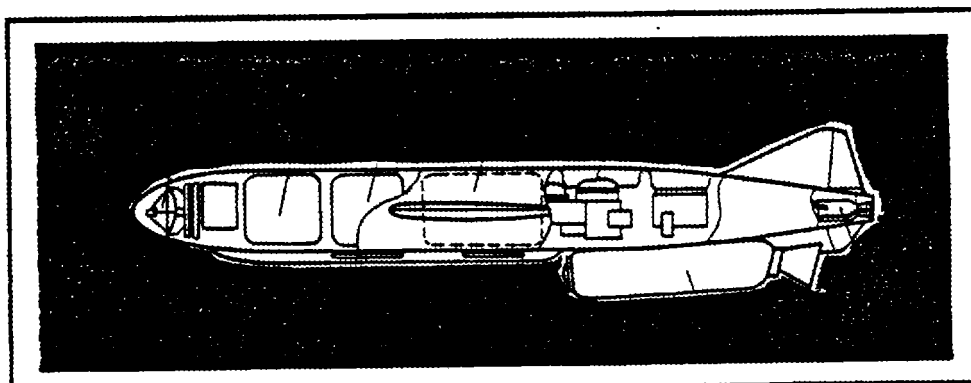


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MISSILE

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

HY-2 missile is a winged missile with excellent aerodynamic configuration and high propelling power rocket motor. Its power plant is composed of a booster and a liquid rocket motor. It is of rational design, advanced workmanship, high quality and reliability.

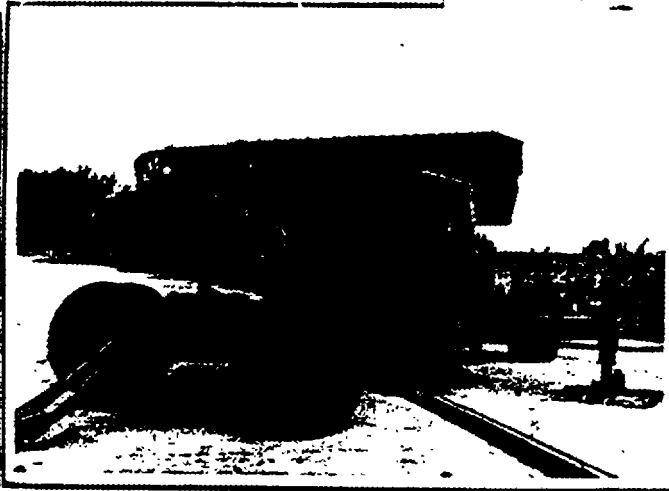
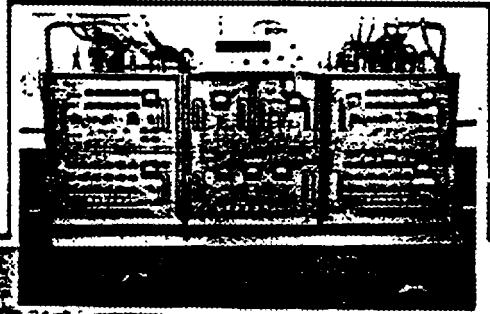
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LAUNCHING DEVICE

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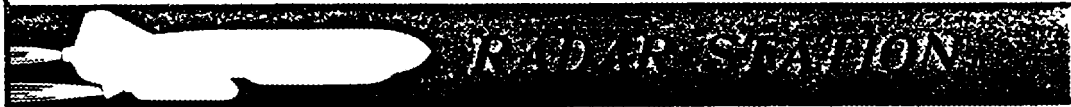
HY-2 launching device consists of pre-launch check trucks and launcher.

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.



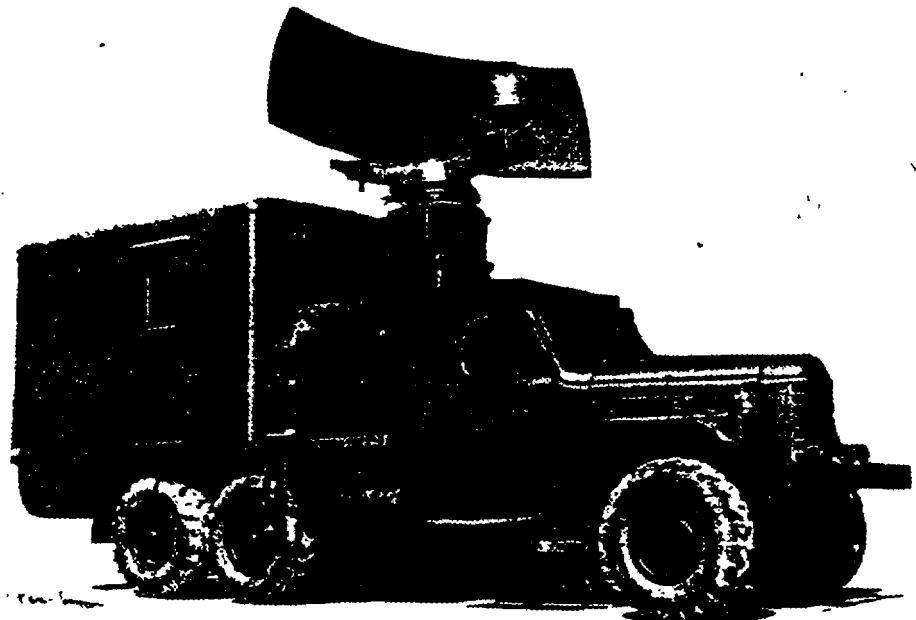
The launcher incorporates a highly-accurate follow-up tracking system. Its operational range: Elevation is $+10^\circ$ and azimuth $\pm 174^\circ$. The main firing direction can be set manually. The firing section is $0^\circ - \pm 85^\circ$.

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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.

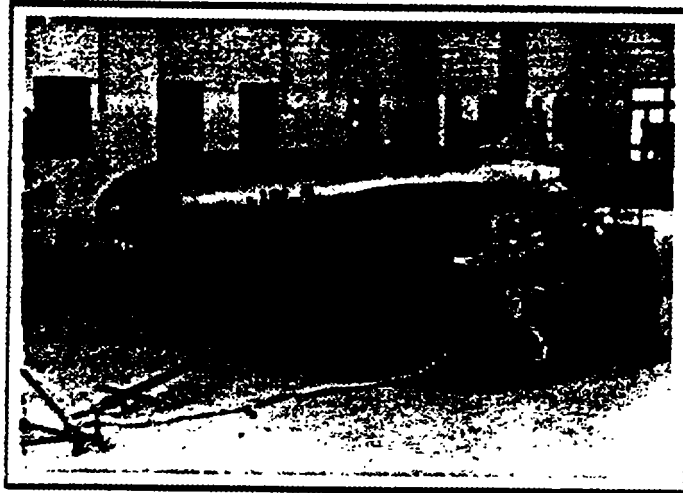


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TECHNICAL SITE

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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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CHINA PRECISION MACHINERY IMPORT & EXPORT CORP.

No. 17 Wenchang Hutong Xidan Beijing, China

Cable CPMIEC BEIJING

Tel 895012

Telex 22484 CPMG-CN

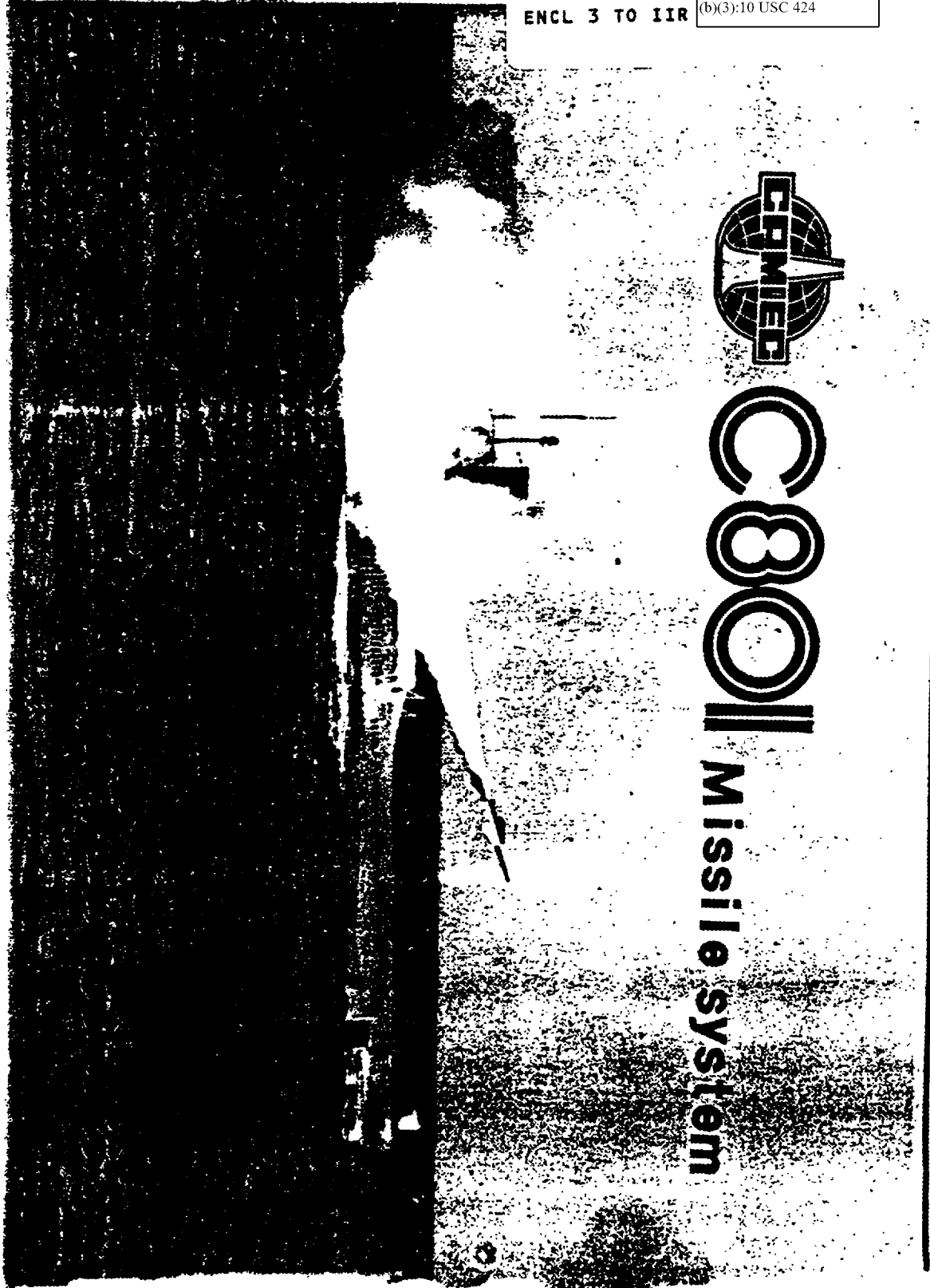
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ENCL 3 TO IIR (b)(3):10 USC 424



CC3011

Missile system

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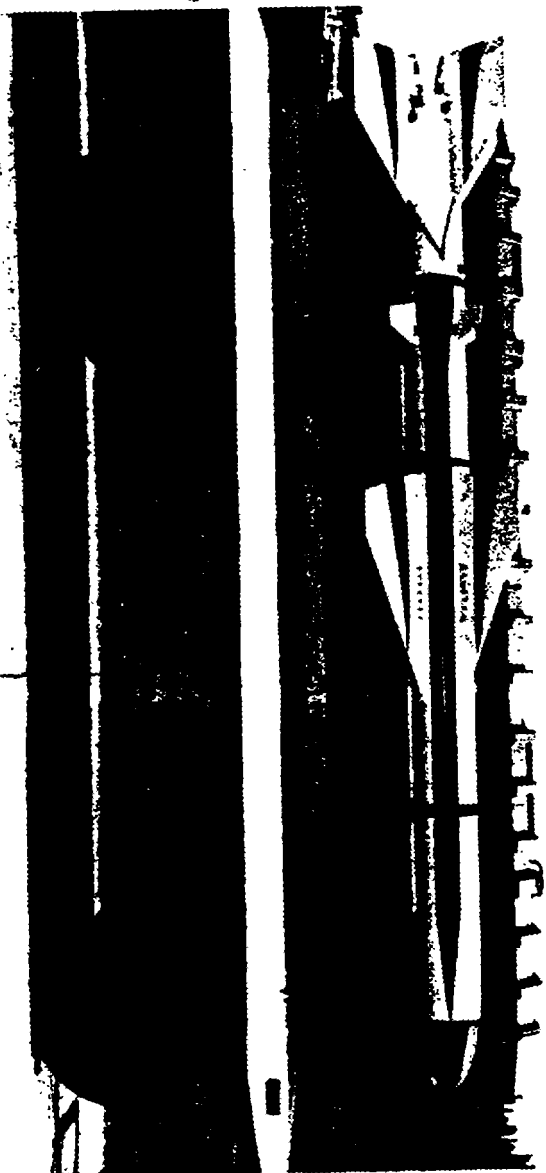
7



CPMIEC 生產的 C801 導彈列隊通過天安門廣場，參加
中華人民共和國成立三十五周年閱兵式。

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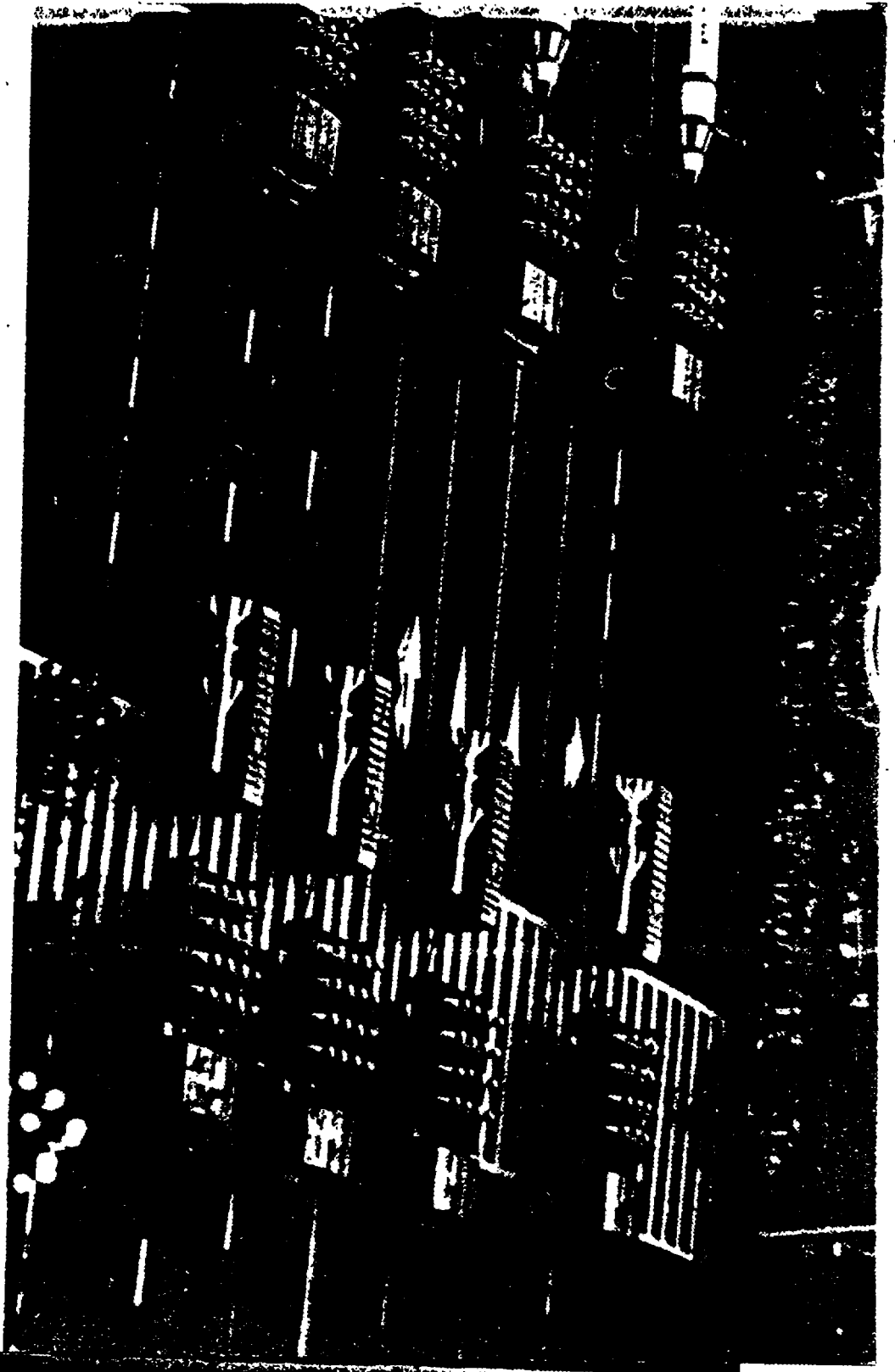
C801 missile developed and
manufactured by CPMIEC
are marching in columns
on Tian An Men square while
taking part in the military
review celebrating the 35th
anniversary of the founding
of the People's Republic of
China.



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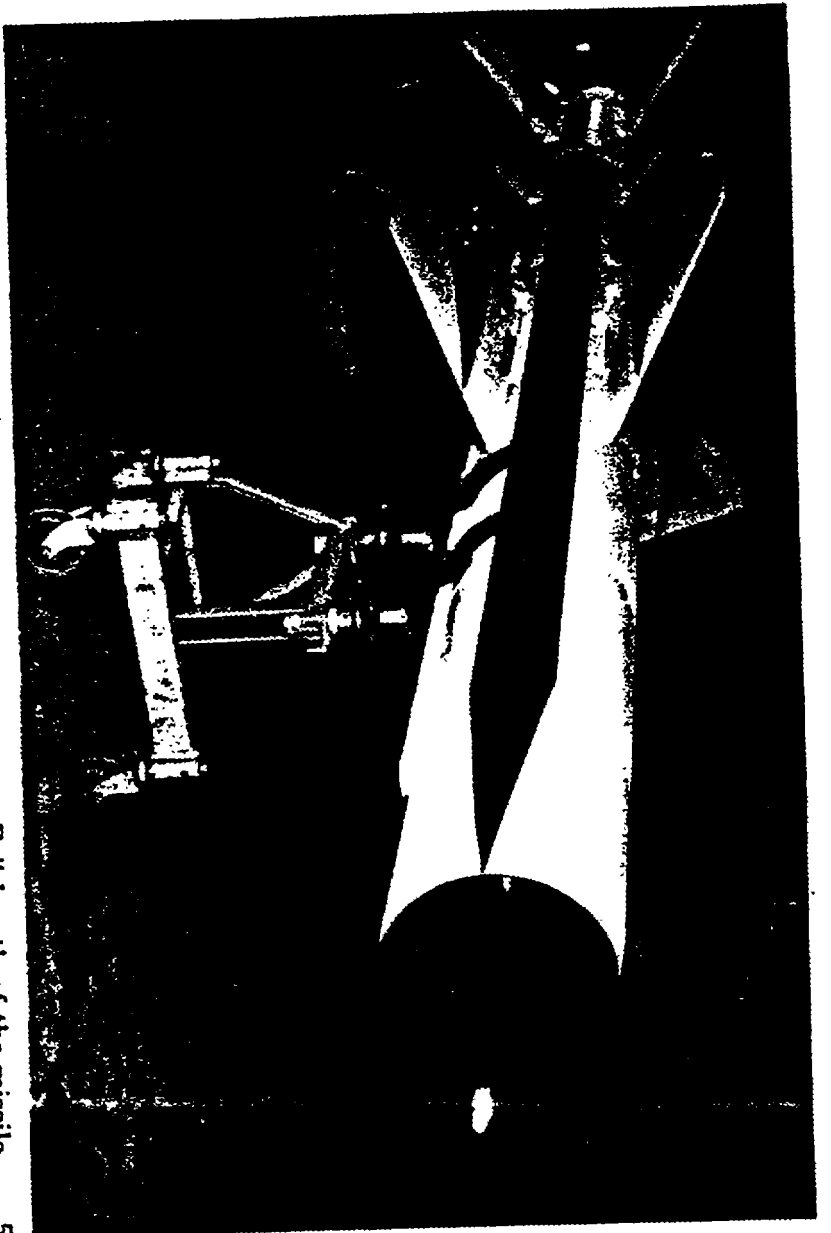
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導彈全長 5.814m
導彈直徑 0.36m
翼展 1.18m
導彈全重 815Kg
戰鬥部重 165Kg

Full length of the missile 5.814m
Diameter of the missile 0.36m
Wingspan 1.18m
Total weight of the missile 815Kg
Warhead weight 165Kg

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C801 導彈

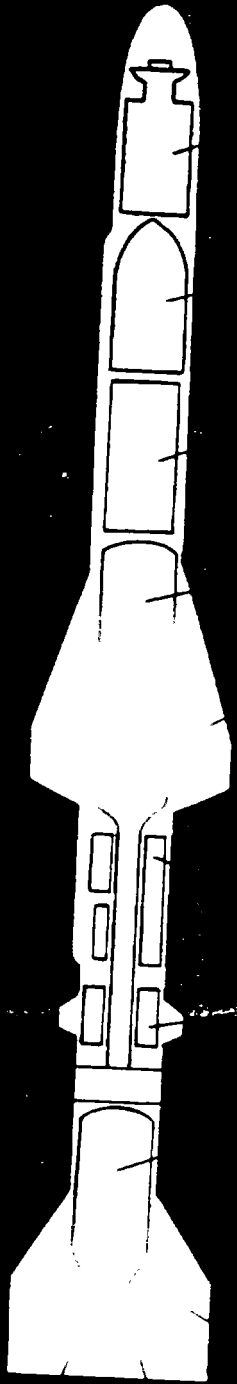
C801 MISSILE

- 1、未製導雷達
- 2、戰鬥部
- 3、前儀器艙
- 4、主發動機
- 5、彈翼

- 6、後儀器艙
- 7、舵機
- 8、助推器
- 9、穩定尾翼

- 1、 terminal guidance radar
- 2、 warhead
- 3、 front instrument cabin
- 4、 sustainer engine
- 5、 wings

- 6、 rear instrument cabin
- 7、 actuators
- 8、 booster
- 9、 stability empennage



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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標路，命中率萬。

C801 missile is able to fly at a very low altitude
and has high capability of breaking through the
defence. C801 missile owns a pulse radar for
minimal guidance, radar with anti-jamming cir-
cuits and is of high hit accuracy.



爬升段 Climb section	上升段 glide section	平飛段 level flight section	降高段 altitude desc homing guid section
----------------------	----------------------	-----------------------------	---

auto control phase

有效射程 艦一艦 8~40Km
空一艦 10~50Km

平飛高度 20m、30m
二次降高 5 m、7 m
平飛速度 0.9M

製導方式 自控+自導
發射方式 單發或齊射

ship to ship 8 to 40 Km

Effective range: air to ship 10 to 50 Km

Level flight altitude, 20 and 30 metres

Second altitude descent, 5 and 7 metres

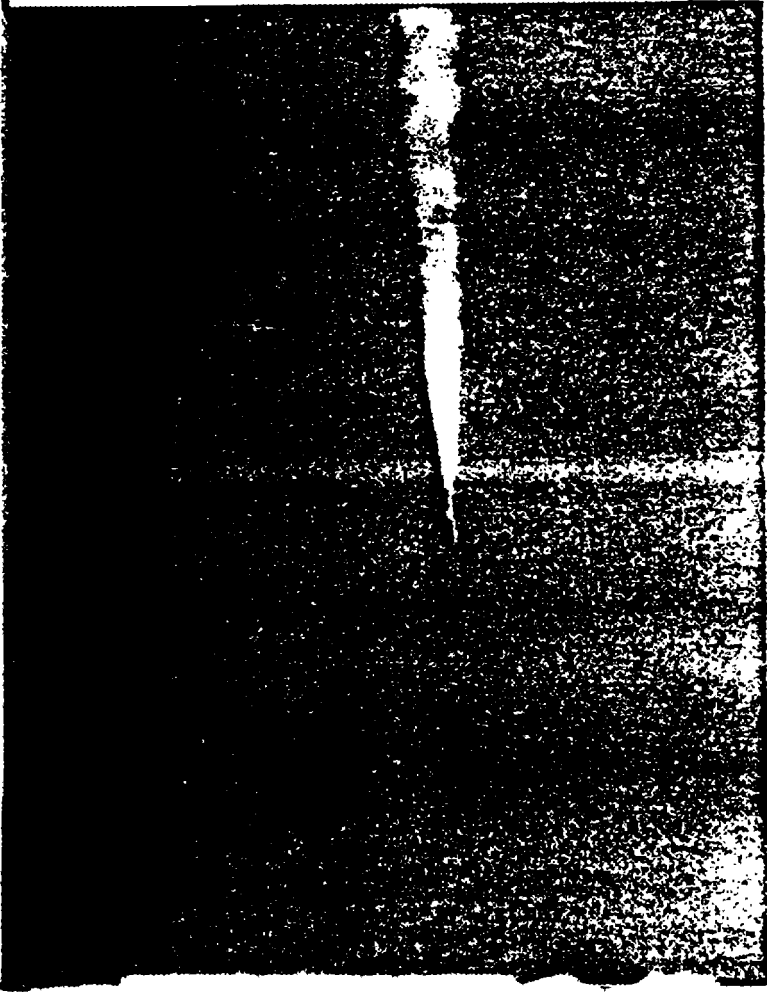
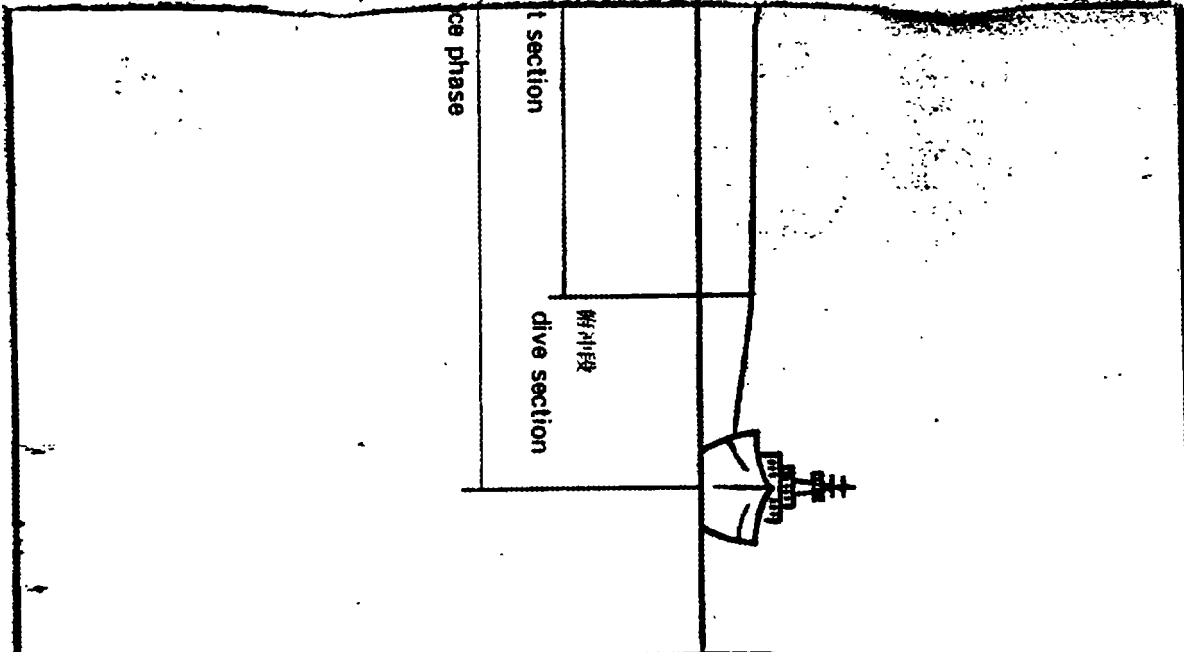
Level flight velocity: 0.9 M

Guidance mode: auto control plus homing guidance

Launching mode: single or salvo

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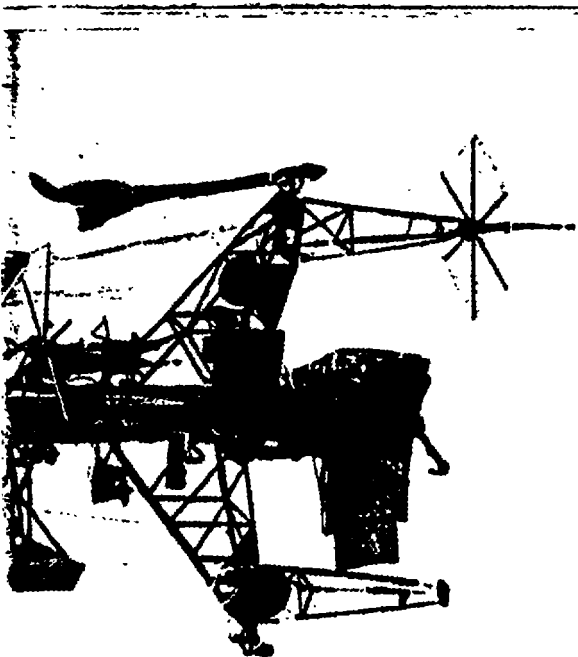


主要戰術指標
MAIN TACTICAL SPECIFICATIONS

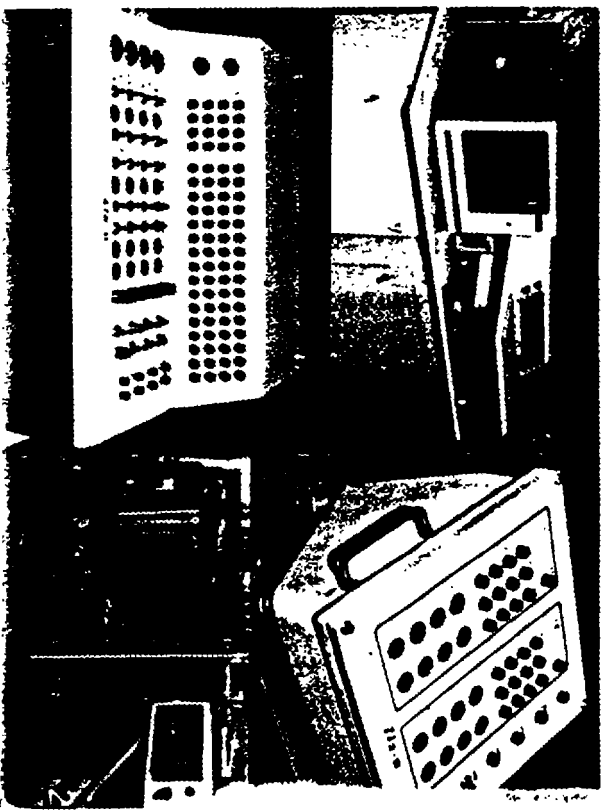
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C801導彈武器係統地面及艦載設備主要由跟踪雷達、射擊指揮儀、箱式發射裝置、公路運輸車、綜合測試設備等組成。
The ground and ship-based equipment for C801 missile weapon system consists chiefly of the tracking radar, fire director, container launching devices, highway transportation truck and the synthetical testing devices etc.



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