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[lifeshield.com.sa](http://lifeshield.com.sa)

# Vision For A Better Future





The Custodian of the Two Holy Mosques  
**King Salman bin Abdulaziz Al Saud**



My primary goal is to be an exemplary and leading nation in all aspects, and I will work with you in achieving this endeavour.





His Royal Highness  
**Mohammed bin Salman bin Abdulaziz Al Saud**  
Crown Prince, Prime Minister,  
and Chairman of the Council of Economic and Development Affairs

It is my pleasure to present Saudi Arabia's Vision for the future. It is an ambitious yet achievable blueprint, which expresses our long-term goals and expectations and reflects our country's strengths and capabilities. All success stories start with a vision, and successful visions are based on strong pillars.





## Message from the Chairman

Since its inception almost over 50 years ago, Life Shield has been a prestigious leader amongst Defence and Military companies in the Kingdom of Saudi Arabia. This is accredited to its distinctive work force that possesses great experience and immense competence. Additionally, the creation of well-formulated strategies that are executed with precision and expertise. With these inherent qualities, the company is staged for steady growth and prosperity.

The annual report records several achievements and future-plans that are going to support the company in overcoming the various challenges it faces. The company has always adopted a policy of transparency, integrity and strict adherence to the rules of governance and all related laws and regulations.

In conclusion, I would like to extend my thanks to my leadership team, managers, employees of the company and to express my appreciation to the Board of Directors for their guidance that has contributed to our accomplishments as an entity. I would also like to thank all the team for their ongoing support towards achieving further growth in the future.

# Life Shield Team



Hisham Mansour Jamaan Al Jamaan  
Chairman, Life Shield  
Holding Group of Companies

# Disclaimer

The information in this document is confidential and may also be privileged. Hence all matter here-in may be treated in only the same manner as is the purpose that this document serves specifically. In this regard, please do not disclose the contents of this document to any other individual/ firm, nor take copies. Violation of this notice may be unlawful.

## ABOUT US

LIFE SHIELD is a Saudi company established in 1968. The company has had a long experience in the military and security field, it participated in the first and second Gulf Wars providing military equipment and manufacturing. LIFE SHIELD has obtained strategic global partners in the military and security field. Life Shield has already signed TOT with several partners and will start manufacturing in the Kingdom.

The Company is specialized in military manufacturing besides variety of other domains, including the provision of products and solutions for military and security systems, communication systems, information technology, atomic energy systems, and military training.

## OUR MISSION

To provide high quality products, solutions and services through innovation and ongoing work to improve, develop and sustain our solutions and products to match and keep pace with state-of-the-art technologies and services in order to meet the needs of our Kingdom and the world.

## OUR VISION

To be a leading Saudi company in innovation, manufacturing and development to provide defense and security solutions all over the world.

# Our Services

LIFE SHIELD prides itself by the provision of a wide range of integrated services that offer our clients a successful and ideal experience and make us partners in success as we pay attention to the finest details of the work to cater to all needs in several areas; such as:

- Military systems and solutions.
- Arms and ammunition.
- Security systems and solutions.
- Communications and IT systems and solutions.
- Provision of consulting services and solutions.
- Support, training, and development.
- Manufacturing.

LIFE SHIELD has provided various services, products and solutions for several sectors such as, The Royal Guard Command, Armed Forces, Joint Forces, Ministry of Defense, Ministry of Interior, Ministry of National Guard, Special Security Forces, below are a some of the systems we are currently providing;

- Arms and Ammunitions
- Bombs, Rockets and Warheads
- Personnel equipment
- Detection and Surveillance Systems
- Skydiving Equipment & Accessories
- Communication Systems
- Alternative Energy Systems
- Atomic (Nuclear) Energy Systems
- Training and Simulation Systems
- Manufacturing
  - Aircraft systems manufacturing (F-15, F-15S, Tornado).
  - Manufacture of bomb and rocket bodies.
  - Manufacture of munition bodies.
  - Manufacture of vehicle bodies.
  - Manufacture of machine gun tripods.
  - Manufacture of personnel carriers.
  - Manufacture of portable workshops.
  - Vehicle armoring.

# Mortar Bombs

## Mortar Bomb

# 60mm HE M4



The 60mm HE M4 Mortar Bomb is one of the most up-to-date high explosive bombs of 60 mm caliber. Its performance—especially range, and effect—is the best possible for any tactical purpose. The LS/60mm HE M4 Mortar Bomb is destined for fighting uncovered living targets, as well as unarmored means of transportation.

- [LS/60mm HE M4](#)

### Technical Data

Weight of complete round:	1,745 Kg
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Length of complete round:	328 mm
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Maximum range:	2.100 m
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## Mortar Bomb

# 81mm HE M5



The 81mm HE M5 is one of the most up-to-date high explosive bombs of 81mm caliber, used for fighting uncovered enemy manpower, as well as unarmored means.

- LS/81mm HE M5

### Technical Data

Weight of complete round:	4,475 Kg
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Length of complete round:	484 mm
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Maximum range:	5.600 m
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## Mortar Bomb

# 120mm HE CONV



The 120 mm High Explosive Mortar bomb HE 120 has been designed as suitable ammunition for the 120mm Mortars.

The ammunition is intended for destroying enemy manpower, non-armoured equipment and shelters.

- [LS/120mm HE CONV](#)

### Technical Data

Overall length:	640 mm
Total weight:	13.6 kg
Weight of projectile (in flight):	13 Kg
Net explosive weight:	2.1 Kg
Weight of propelling charge:	+ 600 g
Maximum range:	6,600 m

Heavy

Ammunition

Round, Ammunition

## 90mm HEAT TP T ROUND



## Technical Data

Overall length:	650 mm
Total weight:	7.65 kg
Projectile weight:	4.19 Kg
Weight of propelling charge:	1.35 Kg
Effective range:	1.600 m
Muzzle Velocity:	890 m/s
Effective range:	1.600 m

Round, Ammunition  
90MM HE-T ROUND



#### Technical Data

Overall length: 630mm

Total weight: 8.49Kg

Projectile weight: 5.08Kg

Weight of propelling charge: 1.25Kg

Net explosive weight: 1,06Kg

Explosive filling: TNT

Round, Ammunition

## 105MM HE ROUND



## Technical Data

Caliber:	105 mm
Overall length:	788 mm
Projectile weight:	4.19 Kg
Weight of propelling charge:	18,5 Kg
Net explosive weight:	1,15 Kg
Weight of propelling charge:	2,10 Kg / 14,97 Kg
Effective range (charge 7):	11,200 m
Muzzle velocity (charge 7):	465 m/s

# Round, Ammunition

## 120MM HE



### Technical Data

Overall length:	630mm
Total weight:	8.49Kg
Projectile weight:	5.08Kg
Weight of propelling charge:	1.25Kg
Net explosive weight:	1,06Kg
Explosive filling:	TNT

Round, Ammunition

## 155MM HE M107 ROUND



### Technical Data

Weight of complete round: 43,10 Kg

Muzzle velocity (charge 5): 375 m/s

Muzzle velocity (charge 7): 564 m/s

Maximum range (charge 5): 9.700 m

Maximum range (charge 7): 14.600 m

Bursting charge: TNT

# Training Bombs

# Training Bombs

## BDU 33 , BEX-11

The Training Bombs were developed for pilots training, simulating the launching conditions of the General Purpose Bombs, mainly in terms of their ballistics trajectory.

- BDU-33
- BEX-11



### BDU 33

#### Technical Data

Total length (mm):	590
Maximum diameter (mm):	101.6
Total weight (kg):	10.8
Shelf life:	Indefinite
Service life:	Indefinite
Cartridge:	MK4 mod 3 - CXU 3A-B
Cartridge cloud smoke:	Diameter: 1 m Height: 6 m
Cartridge operational temperature:	-20°C to + 50°C
Emission:	Smoke
Luminous intensity of the MK-4 mod 3:	Flash-Smoke

### BEX-11

#### Technical Data

Total length (mm):	590
Maximum diameter (mm):	101.6
Total weight (kg):	11
Shelf life:	Indefinite
Service life:	Indefinite
Cartridge:	SN-11
Cartridge cloud smoke:	Diameter: 1 m Height: 6 m
Cartridge operational temperature:	-20°C to + 50°C
Emission:	Smoke
Luminous intensity of the MK-4 mod 3:	-

Warheads

# Antitank Warhead AC

## CAB 70 AC



### Technical Data

Total length (mm)	224.5
Maximum diameter (mm)	2.6
Total weight (kg)	3.8
Explosive weight (kg)	1
Explosive	COMP B
Quantity of fragments	-
Lethal area radius (m)	-
Penetration on steel (mm)	more than 170
Fuse	EOM-FAP
Fuse parameters	
Total length (mm)	104
Maximum diameter (mm)	45
Total weight (g)	322
Initiation by	impact
Arming by	Inertia

## Anti-Personnel Warhead

# CAB 70 AP



### Technical Data

Total length (mm)	325
Maximum diameter (mm)	70
Total weight (kg)	3.8
Explosive weight (kg)	1
Explosive	COMP B
Quantity of fragments	Over 700
Lethal area radius (m)	Over 50
Penetration on steel (mm)	-
Fuse	EOM-FAP
Fuse parameters	
Total length (mm)	99
Maximum diameter (mm)	45
Total weight (g)	311
Initiation by	impact
Arming by	Inertia

# High Explosive Warhead

## CAB 70 HE



### Technical Data

Total length (mm)	425
Maximum diameter (mm)	70
Total weight (kg)	7.3
Explosive weight (kg)	2.1
Explosive	COMP B
Quantity of fragments	Over 1000
Lethal area radius (m)	Over 75
Penetration on steel (mm)	-
Fuse	EOM-FAP
Fuse parameters:	
Total length (mm)	99
Maximum diameter (mm)	45
Total weight (g)	311
Initiation by	impact
Arming by	Inertia

Small Caliber

Ammunition

## Small Caliber, Ammunition

# 9 x 19 mm



NATO-qualified cartridge (AC/116-XVIIIB) for training and service, used in pistols and sub-machine guns.

- NATO BALL 124 gr

### Technical Data

Normative Reference	NATO AEP-97 ED A V1
Projectile Type	FMJ
Projectile Weight	8.03 g / 124 gr
Velocity at 16 m <sup>1 2</sup>	380 m/s / 1247 ft/s
Energy at 16 m	580 J
Case	BRASS
Service Temperature	-54°C to +52°C -65°F to +125°F
Safety Temperature	-54°C to +71°C -65°F to +160°F

## Small Caliber, Ammunition

### 300 Blackout



Militarized ball cartridge for training and service. Manufactured according to SAAMI specifications and features additional military-spec characteristics such as NATO qualified energetics, full watertightness, visible annealing marks and superior ballistic performance.

- FMJ 123 gr

#### Technical Data

Projectile Type	FMJ
Projectile Weight	7.97 g - 123 gr
Velocity at 4.6 m <sup>1 2</sup>	675 m/s - 2215 ft/s
Energy at 4.6 m	1815 J
Case	BRASS
Point of impact At 100 m - 100 yd	0 cm / 0 inch
Point of impact At 200 m - 200 yd	-27.4 cm / -8.8 inch
Point of impact At 300 m - 300 yd	-90.4 cm / -28.8 inch

## Small Caliber, Ammunition

### 5.56 x 45 mm



NATO-qualified cartridge equivalent to M855 and SS109. Suitable for weapons with 1:7 to 1:9 barrel twist, may also be offered linked with any other trajectory-matched cartridges, such as Tracer, IR Tracer and SAT, in different configurations.

- NATO BALL

#### Technical Data

NORMATIVE REFERENCE	NATO AEP-97 ED A V1
TIP IDENTIFICATION	NONE
Projectile Type	BALL
Projectile Weight	4.00 g / 62 gr
VELOCITY AT 24 m <sup>1 2</sup>	915 m/s / 3002 ft/s
ENERGY AT 24 m	1675 J
Case	BRASS
SERVICE TEMPERATURE	-54°C to +52°C -65°F to +125°F
SAFETY TEMPERATURE	-54°C to +71°C -65°F to +160°F
BARREL TWIST	TW7

## Small Caliber, Ammunition

### 7.62 x 51 mm



NATO-qualified cartridge equivalent to M80. Suitable for all 7.62 x 51 mm weapons, may also be offered linked with any other trajectory-matched cartridges, such as Tracer, IR Tracer and AP, in different configurations.

- NATO BALL

#### Technical Data

NORMATIVE REFERENCE	NATO AEP-97 ED A V1
TIP IDENTIFICATION	NONE
PROJECTILE TYPE	BALL
PROJECTILE WEIGHT	9.33 g / 144 gr
VELOCITY AT 24 m <sup>1 2</sup>	833 m/s / 2733 ft/s
ENERGY AT 24 m	3237 J
CASE	BRASS
SERVICE TEMPERATURE	-54°C to +52°C -65°F to +125°F
SAFETY TEMPERATURE	-54°C to +71°C -65°F to +160°F
BARREL TWIST	-

## Small Caliber, Ammunition

# 12.7 x 99 mm



NATO-qualified cartridge equivalent to M33. Suitable for all 12.7 x 99 mm weapons, may also be offered linked with any other trajectory-matched cartridges, such as Tracer, AP, API and API-T, in different configurations.

- NATO BALL

### Technical Data

NORMATIVE REFERENCE	NATO AEP-97 ED A V1
TIP IDENTIFICATION	NONE
PROJECTILE TYPE	BALL
PROJECTILE WEIGHT	42.5 g / 656 gr
VELOCITY AT 24 m <sup>1 2</sup>	890 m/s / 2919,95 ft/s
ENERGY AT 24 m	16336 J
CASE	BRASS
SERVICE TEMPERATURE	-54°C to +52°C -65°F to +125°F
SAFETY TEMPERATURE	-54°C to +71°C -65°F to +160°F
BARREL TWIST	-

## Small Caliber, Ammunition

# 12.7 x 108 mm



Heavy machine gun ball cartridge suitable for all 12.7 x 108 mm weapons. It may be offered linked with any trajectory-matched cartridges, such as Tracer, AP, API and API-T, in different configurations.

- BALL

### Technical Data

NORMATIVE REFERENCE	CBC STANDARD
TIP IDENTIFICATION	NONE
PROJECTILE TYPE	BALL
PROJECTILE WEIGHT	42.05 g / 649 gr
VELOCITY AT 24 m <sup>1 2</sup>	882 m/s / 2894 ft/s
ENERGY AT 24 m	16336 J
CASE	BRASS
SERVICE TEMPERATURE	-54°C to +52°C -65°F to +125°F
SAFETY TEMPERATURE	-54°C to +71°C -65°F to +160°F
BARREL TWIST	-

Medium Caliber

Ammunition

## Medium Caliber, Ammunition

### 20 x 102 mm



Training cartridge equivalent to M55A2. Suitable for use in M39 and M61 cannons. It may be offered linked with the TP-T version, in different configurations.

- TP

#### Technical Data

NORMATIVE REFERENCE	MIL-C-46552C
PROJECTILE TYPE	TARGET PRACTICE
PROJECTILE WEIGHT	98.5 g / 1520 gr
VELOCITY AT 7.5 m <sup>1 2</sup>	1000 m/s / 3281 ft/s
ENERGY AT 7.5 m	49250 J
CASE	BRASS
WATERTIGHTNESS	YES
SERVICE TEMPERATURE	-54°C to +52°C -65°F to +125°F

## Medium Caliber, Ammunition

### 20 x 128 mm



Training cartridge suitable for use in KAA-KAB cannons. It may be offered linked with the TP-T version, in different configurations.

- TP

#### Technical Data

NORMATIVE REFERENCE	MIL-C-46578D
PROJECTILE TYPE	TARGET PRATICE
PROJECTILE WEIGHT	125 g / 1929 gr
VELOCITY AT 7.5 m <sup>1 2</sup>	1035 m/s / 3396 ft/s
ENERGY AT 7.5 m	66952 J
CASE	STEEL
WATERTIGHTNESS	YES
SERVICE TEMPERATURE	-54°C to +52°C -65°F to +125°F

## Medium Caliber, Ammunition

# 30 x 113 mm



Training cartridge suitable for use in DEFA automatic cannon. It may

be offered linked with the TP-T version, in different configurations.

- TP

### Technical Data

NORMATIVE REFERENCE	MIL-C-46578D
PROJECTILE TYPE	TARGET PRACTICE
PROJECTILE WEIGHT	245 g / 3781 gr
VELOCITY AT 7.5 m <sup>1 2</sup>	810 m/s / 2657 ft/s
ENERGY AT 7.5 m	80372 J
CASE	STEEL
WATERTIGHTNESS	YES
SERVICE TEMPERATURE	-54°C to +52°C -65°F to +125°F

## Medium Caliber, Ammunition

### 30 x 173 mm



Traced training cartridge suitable for use in Bushmaster II Mk44 and Mauser MK30 weapon systems.

- TP-T

#### Technical Data

NORMATIVE REFERENCE	PPF(NAAG)D (2010)0011
PROJECTILE TYPE	TARGET PRACTICE TRACER
PROJECTILE WEIGHT	380 g / 5864 gr
VELOCITY AT 7.5 m <sup>1 2</sup>	1080 m/s / 3543 ft/s
ENERGY AT 7.5 m	221616 J
CASE	STEEL
WATERTIGHTNESS	YES
SERVICE TEMPERATURE	-54°C to +52°C -65°F to +125°F

## Medium Caliber, Ammunition

# 40 x 53 mm



Traced training cartridge suitable for use in Mk19 Mod 3, H&K GMG and other Automatic Grenade Launchers. It may be offered linked with the TP version, in different configurations.

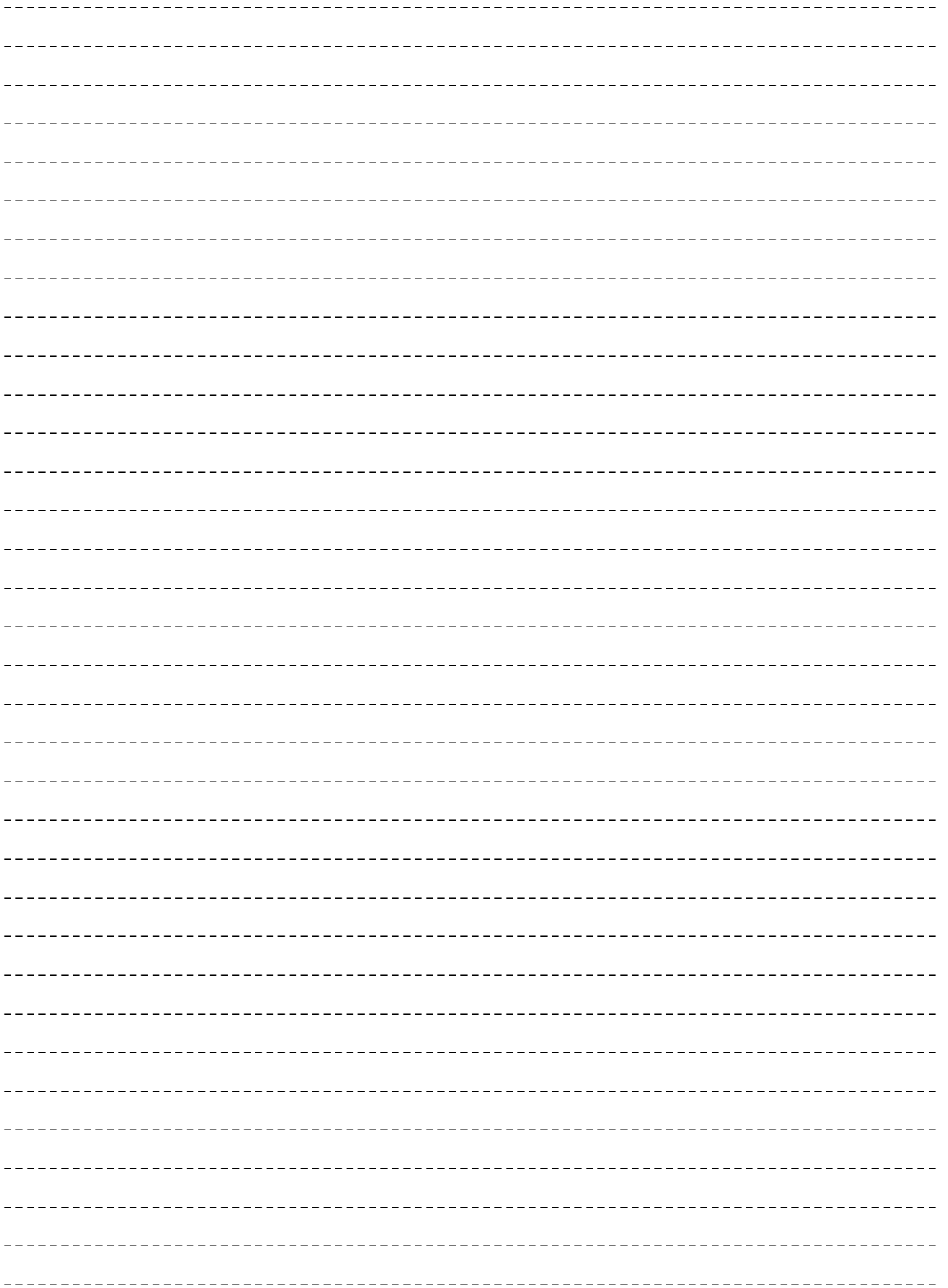
- TP-T

### Technical Data

NORMATIVE REFERENCE	AC/225 (LG/3 - SG/1) D/17
CARTRIDGE LENGTH	112 mm / 4.41 inch
CARTRIDGE WEIGHT	375 g / 5787 gr NOMINAL
MUZZLE VELOCITY	242 m/s / 794 ft/s
FUZE	-
CAPABILITY	TRAJECTORY MATCHING HE VERSIONS TRACE OF MINIMUM 7 SECONDS

Comments:

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# Vision For A Better Future

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