



Life Shield
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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

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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.

MK Bombs

Aerial MK Bomb

LS 81 (General Purpose Bomb)



Bigger Energy with technical Independence .

Aerial Bombs LS MK Family loaded with thermobaric explosive.

Advantages of the LS/ MK81/82 Air Bomb loaded with thermobaric explosive:

- The thermobaric LS/MK81/82 Air Bomb Weapon is a type of explosive that uses oxygen from the surrounding Air to generate a very high-temperature explosive;
- In practice, the blast phenomenon waves typically produced by such a weapon is of a significantly longer time duration than that produced by a conventional condensed explosive like the Comp B or Tritonal;
- Thermobaric LS/MK81/82 Air Bomb Weapon produce more heat and high overpressure than other explosives mixtures exploding a high vapour in the blast zone.

Technical Data

Total length (mm)	1,798
Maximum diameter (mm)	228.6
Total weight (kg)	120
Explosive weight (kg)	45
Explosive	Tritonal / COMP B / TNT / Thermoberic
Guidance	Ballistic
Range	Varies by method of employment
Shell life	20 years (steel case)
Service life	20 years (steel case)
Fuzes	Electronic proximity or mechanical impact noze (M904) and tail (M905) fuses
Stabilizer	Low-drag fin
Operation temperature	-54°C to +71°C
Storage temperature	-45°C to +65°C
Reinforcement	M148 / M150
Suspension system	NATO
Quantity of fragments	Over 5,000
Fragmentation radius	1,000 m

Aerial MK Bomb

LS 82 (General Purpose Bomb)



Bigger Energy with technical Independence .

Aerial Bombs LS MK Family loaded with thermobaric explosive.

Advantages of the MK81/82 Air Bomb loaded with thermobaric explosive:

- The thermobaric MK81/82 Air Bomb Weapon is a type of explosive that uses oxygen from the surrounding Air to generate a very high-temperature explosive;
- In practice, the blast phenomenon waves typically produced by such a weapon is of a significantly longer time duration than that produced by a conventional condensed explosive like the Comp B or Tritonal;
- Thermobaric MK81/82 Air Bomb Weapon produce more heat and high overpressure than other explosives mixtures exploding a high vapour in the blast zone.

Technical Data

Total length (mm)	2227
Maximum diameter (mm)	273
Total weight (kg)	230
Explosive weight (kg)	96
Explosive	Tritonal / COMP B / TNT / Thermoberic
Guidance	Ballistic
Range	Varies by method of employment
Shell life	20 years (steel case)
Service life	20 years (steel case)
Fuzes	Electronic proximity or mechanical impact noze (M904) and tail (M905) fuses
Stabilizer	Low-drag fin
Operation temperature	-54°C to +71°C
Storage temperature	-45°C to +65°C
Reinforcement	M148 / M150
Suspension system	NATO
Quantity of fragments	Over 8000
Fragmentation radius	1,000 m

Aerial MK Bomb

LS 83 (General Purpose Bomb)



General Purpose Bombs

The Life Shield aerial General Purpose Bombs fulfill the technical specifications of these worldwide established artifacts, which are fitted with Nose and Tail Fuses and can be equipped with Low Drag and High Drag Tails. These weapons are effective against armoured, fixed and mobile targets, including artillery, trucks,

bunkers, rockets and missiles launching sites, radars and supply points.

Technical Data

Total length (mm)	2918
Maximum diameter (mm)	356
Total weight (kg)	460
Explosive weight (kg)	202
Explosive	Tritonal / COMP B / TNT / Thermoberic
Guidance	Ballistic
Range	Varies by method of employment
Shell life	20 years (steel case)
Service life	20 years (steel case)
Fuzes	Electronic proximity or mechanical impact noze (M904) and tail (M905) fuses
Stabilizer	Low-drag fin
Operation temperature	-54°C to +71°C
Storage temperature	-45°C to +65°C
Reinforcement	M148 / M150
Suspension system	NATO
Quantity of fragments	Over 12000
Fragmentation radius	1,000 m

Aerial MK Bomb

LS 84 (General Purpose Bomb)



General Purpose Bombs

The Life Shield aerial General Purpose Bombs fulfill the technical specifications of these worldwide established artifacts, which are fitted with Nose and Tail Fuses and can be equipped with Low Drag and High Drag Tails. These weapons are effective against armoured, fixed and mobile targets, including artillery, trucks,

bunkers, rockets and missiles launching sites, radars and supply points.

Technical Data

Total length (mm)	3895
Maximum diameter (mm)	457
Total weight (kg)	920
Explosive weight (kg)	467
Explosive	Tritonal / COMP B / TNT / Thermoberic
Guidance	Ballistic
Range	Varies by method of employment
Shell life	20 years (steel case)
Service life	20 years (steel case)
Fuzes	Electronic proximity or mechanical impact noze (M904) and tail (M905) fuses
Stabilizer	Low-drag fin
Operation temperature	-54°C to +71°C
Storage temperature	-45°C to +65°C
Reinforcement	M148 / M150
Suspension system	NATO
Quantity of fragments	Over 14000
Fragmentation radius	1,000 m

Fuses

Mechanical and Proximity Fuses

LS M 904- Fuse



Life Shield produces the Nose and Tail Mechanical Fuses used in the General Purpose Bombs MK/LS Series,

Fragmentation Bombs PF/LS Series and other types of Bombs which use mechanical Fuses and present the same NATO Standard coupling.

Technical Data

Total length with booster (mm):	172
Body maximum diameter (mm):	69,5
Delay element:	M9 (non-delay)
Fuze weight with the booster (kg):	1,0
Delay mechanism reduction:	972:02:00
Time to arm:	2 to 18 s
Arming time tolerance:	± 20%
Initiated by:	Impact
Shell life:	10 years
Service life:	5 years
Activated by:	Helix
Operation temperature:	-40°C to +50°C
Storage temperature:	-10°C to +40°C
Bomb interface:	NATO standard 2" 12 Un 2A. Used in the M148 adapter booster or similar

Mechanical and Proximity Fuses

LS M 905- Fuse



Life Shield produces the Nose and Tail Mechanical Fuses used in the General Purpose Bombs MK/LS Series,

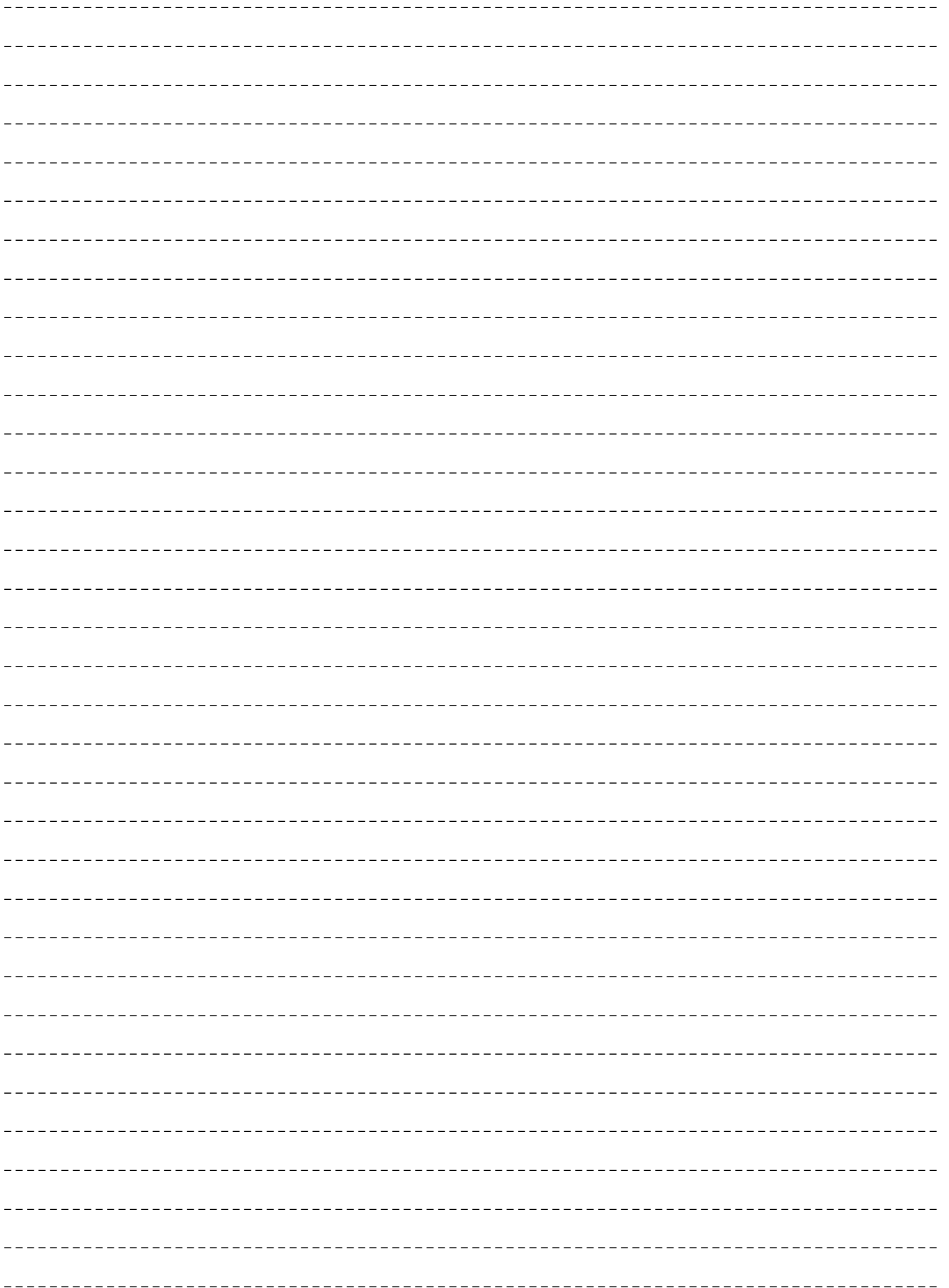
Fragmentation Bombs PF/LS Series and other types of Bombs which use mechanical Fuses and present the same NATO Standard coupling.

Technical Data

Total length with booster (mm):	172
Body maximum diameter (mm):	69,5
Delay element:	M9 (non-delay)
Fuze weight with the booster (kg):	0.8
Delay mechanism reduction:	972:02:00
Time to arm:	2 to 18 s
Arming time tolerance:	± 20%
Initiated by:	Impact
Shell life:	10 years
Service life:	5 years
Activated by:	Anemometer ATU-35/B
Operation temperature:	-40°C to +50°C
Storage temperature:	-10°C to +40°C
Bomb interface:	NATO standard 2" 12 Un 2A. Used in the M148 adapter booster or similar

Comments:

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