AMMUNITION
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Repaircraft PLC can supply a wide range of Ammunition for both the 76mm and 90mm Scorpion Tank.

1. **76mm AMMUNITION SUPPLY TYPES**

   **HESH-T**

   General purpose anti-personnel and anti-materiel round.
   
   - Weight: 7.4 kg (nominal)
   - Length: 542 mm
   - Filling: Comp. A3
   - Fuse: BD/Graze
   - Tracer: M13 type, >3 sec
   - Muzzle Velocity: 534 m/s (nominal at 21°)
   - Range: Direct: 2,400 m Indirect: 6,000 m
   - Precision: 1.22 mils
   - Target: Up to 80 mm RHA

   **HESH-TP-T**

   Practice round to provide cost effective marksmanship and live fire training of gun crews.
   
   - Weight: 7.4 kg (nominal)
   - Length: 542 mm
   - Filling: Inert
   - Tracer: M13 type, >3 sec
   - Muzzle Velocity: 534 m/s (nominal at 21°)
   - Range: Direct: 2,400 m Indirect: 6,000 m
   - Precision: 1.22 mils
HE-T

Effective round for anti-personnel and provides fire support to infantry.

- Weight: 7.35 kg (nominal)
- Length: 527 mm
- Filling: Comp.B
- Fuse: PD M557
- Tracer: M13 type, >3 sec
- Muzzle Velocity: 514 m/s (nominal at 21°)
- Range: Direct: 2,400 m Indirect: 6,000 m
- Precision: 1.22 mils
- Number of fragments: ± 800
- Lethal radius: 6.5 m

CANISTER

A thin-walled cylindrical body is filled with steel pellets. The pellets spread out after leaving the gun muzzle and are highly lethal to a range of about 100 metres.

- Weight: 6.69 kg
- Length: 399 mm
- Muzzle Velocity: 500 m/s

SMOKE

Base ejection of 3 smoke canisters, controlled by time fuse setting, results in dense white smoke emission for minimum time period of 50 seconds providing wide area coverage.

- Weight: 10.20 kg
- Length: 588 mm
- Muzzle Velocity: 290 m/s

ILLUMINATING

350,000 candelas for a minimum of 30 seconds duration. Ejection of the flare is controlled by a time fuse.

- Weight: 9.69 kg
- Length: 588 mm
- Muzzle Velocity: 297 m/s
2 90mm AMMUNITION SUPPLY TYPES

APFSDS

An Armour Piercing, Fin Stabilised, projectile with Discarding Sabot which defeats armoured targets, including multi plate spaced armour, using the kinetic energy of the tungsten alloy long rod penetrator.

- Weight: 7.2 kg (nominal)
- Length: 647 mm
- Penetrator: Tungsten Alloy
- Tracer: 4 sec
- Propellant: (single base, multi-perf.) - 1.8 kg
- Muzzle Velocity: 1,200 m/s (nominal at 21°)
- Operational range: More than 1,500 m
- Penetration (at 60° obliquity): 100 mm RHA Target
- TOF to 1500 m: less than 1.4 s
- Probable Error: less than 0.3 mils

HEAT-T

A High Explosive Anti-tank round, with an electronic Base Detonating Fuse with two independent in-bore safeties. The Fuse has a nose switch and a graze element. A practice round HEAT-TP-T is available. It has the same ballistics as the live HEAT-T.

- Weight: 8.3 kg (nominal)
- Length: 700 mm
- Fuse: Electronic Base
- Tracer: 4 sec
- Propellant: (single base, multi-perf.) - 1.4 kg
- Muzzle Velocity: 890 m/s (nominal at 21°)
- Operational range: 1,000 m
- Effective range: 1,500 m
- Penetration: better than Nato Medium Target

SMOKE (WP)-T

A Smoke and Incendiary round equipped with an electronic PD and Graze Fuse. The Fuse has two independent safeties, and complies with Stanag 4187 and Mil-Std-1316D. Used for screening, signalling or target spotting purposes as well as for its incendiary effect. Ballistically similar to the HE-T round.

- Weight: 9.2 kg (nominal)
- Length: 640 mm
- Projectile filling (White Phosphorous): 1.1 kg
- Fuse: PD, Graze
- Tracer: 4 sec
- Propellant: (single base, multi-perf.) - 1.1 kg
- Muzzle Velocity: 695 m/s (nominal at 21°)
- Operational range: 800 m
- Effective range: 2,000 m
HEP-T

A HEP (HESH) round, with an electronic Base Detonating and Graze Fuse, which produces a severe spalling effect when used against armoured targets. Effective against bunkers and structures, with a high blast and fragmentation effect. A practice round HEP-TP-T is available. It has the same ballistics as the HEP-T.

- Weight: 8.2 kg (nominal)
- Length: 600 mm
- Projectile filling (Comp. A3): 1.3 kg
- Fuse: BD/Graze
- Tracer: 4 sec
- Propellant: (single base, multi-perf.) - 1.2 kg
- Muzzle Velocity: 800 m/s (nominal at 21°)
- Effective range: 800 m
- Spalled material (RHA): ± 3 kg

HE-T

A blast and fragmentation round, with an electronic PD, delay and Graze Fuse. The Fuse has two independent safeties, and complies with Stanag 4187 and Mil-Std-1316D. The round is designed for use against light structures and material targets, personnel or for general demolition. In delay mode the round is also effective against bunkers and buildings.

- Weight: 9.0 kg (nominal)
- Length: 640 mm
- Projectile filling (Comp.B): 1.0 kg
- Fuse: EPD, Graze + Delay
- Tracer: 4 sec
- Propellant: (single base, multi-perf.) - 1.1 kg
- Muzzle Velocity: 700 m/s (nominal at 21°)
- Operational range: 800 m
- Effective range: 2,200 m

CANISTER

A "Shot Gun" type round which propels a spreading cone of 1,100 lead spheres in a wide frontal arc for anti-personnel anti-ambush and close-in defence.

- Weight: 7.4 kg (nominal)
- Length: 522 mm
- Number of Spheres: 1,100
- Sphere diameter: 8.5 mm (lead)
- Propellant: (single base, multi-perf.) - 1.14 kg
- Muzzle Velocity: 700 m/s (nominal at 21°)
- Operational range: 200 m
- Cone angle (total): 18°
- Inception of spread: 9 m
76mm HESH PERFORMANCE