

Emperor - Assault Vehicle



The Emperor Armoured Assault Vehicle is a multi-mission, hardened, anti-armour combat vehicle.

Sealed for operation in vacuum, pressures up to 2Gpa, corrosive, and toxic atmosphere and temperature ranges from 0-10,000 Kelvin. Armoured with panels of inertially damped Mark V lamina cap-carbide absorbent armour and 40-layer tungsten-silic supercon fibre capacitance protection with an in-built atmosphere heat exchanger. Emperor has full emcon systems and passive EM shadow.

Power is provided by a sealed, maintenance free, helium-lithium cavitation-fusion reactor.

Armed with a multi-function precision tmetic heavy cannon with a rate-of-fire of 10 pulses per minute, or 5 pulses per minute firing plasma-enhanced ammunition. Usual load of 100 plasma charges is carried in the turret ring, under the deck armour and is automatically loaded for the gunner. Plasma enhanced, the main tmetic can penetrate all armoured vehicles and up to 33 metres of hardened concrete protection.

Operator space for driver and gunner, with space for officer / commander as required. Vehicle is entered by means of a hull-top hatch or rear access hatch.

Operable flight environments vary depending on local gravity. At 10N/kg vehicle can only lift to the 10-100m range, because the vehicle relies on inertial damping for operational stability.

Mass at lift, all damping to maximum, is effectively 60 tonnes. Mass at max combat capability is effectively 330 tonnes. Max lift mass is 75 tonnes, but that permits no stability at all, purely for lift mass calculations.

Deployment is generally by landing craft. Emperor has trim control on damping for deployment via ramp or drag-sled. Emperor is not suitable for vertical chute deployment.

Emperor's tmetic cannon has long range capabilities if no plasma enhancement is selected for a pulse. The turret flanks contain a pair of additional trans-capacitor banks, permitting a triple-power shot to be fired at 3 pulses per minute. This facility requires atmosphere to cool the capacitor banks through a second heat exchanger so it cannot be used in vacuum. Additionally any attempt to augment the triple-power shot with plasma will lead to premature plasma expansion inside the barrel of the weapon, causing critical failure of that component and likely severe damage to the Emperor vehicle. The triple-power shot is rated for engaging orbital targets if a sensor track can be provided, Emperor lacks sensors to identify and track targets in orbit.