

# Upgrading of existing Armoured Vehicles and Tanks to Hybrid Vehicles with Explosive Reactive Armour



ERA can be added to T72 Tanks and other Armoured Vehicles as an upgrade to improve their survivability.

This combined with a hybrid engine upgrade can turn an older Armoured Vehicle into a vehicle that matches up to the latest and best vehicles on the battlefield.

## Hybrid Tank

**A Hybrid Tank is a Tank that has had the outdated engine and transmission removed and replaced with a Electric Drive.**

**This is done by replacing the outdated and uneconomical Engine with a Modern Cummins Engine and then connecting it to an Alternator that powers Electric Motors in the wheels of the vehicle.**

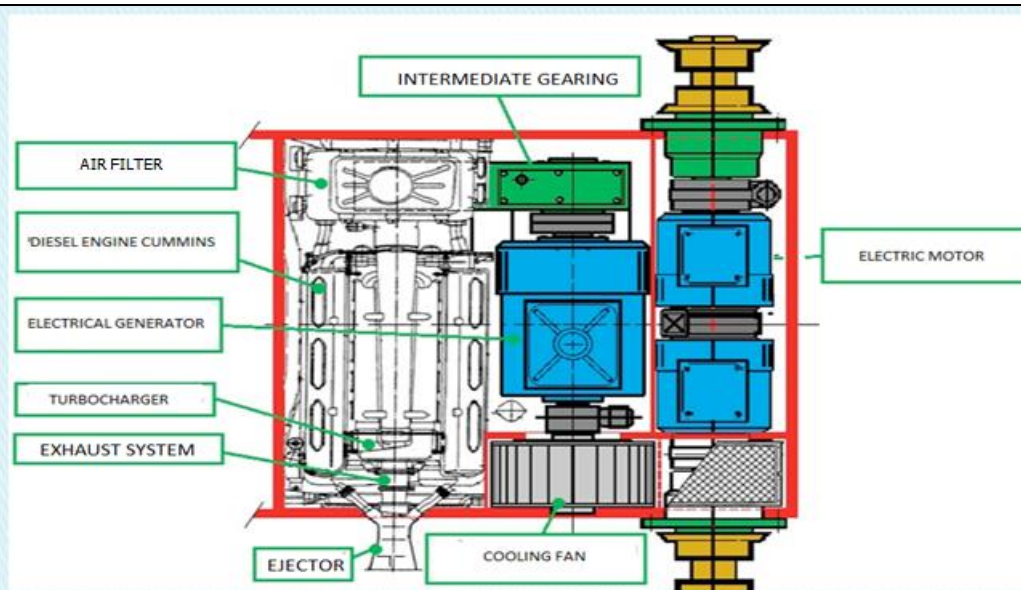
**The Motor drives the Alternator providing Electric current to power the Wheels.**

**A Hi-tec Hydrogen converter kit is added to the Engine to convert Water into Hydrogen which is added to the diesel to increase the economy and range of the Tank.**

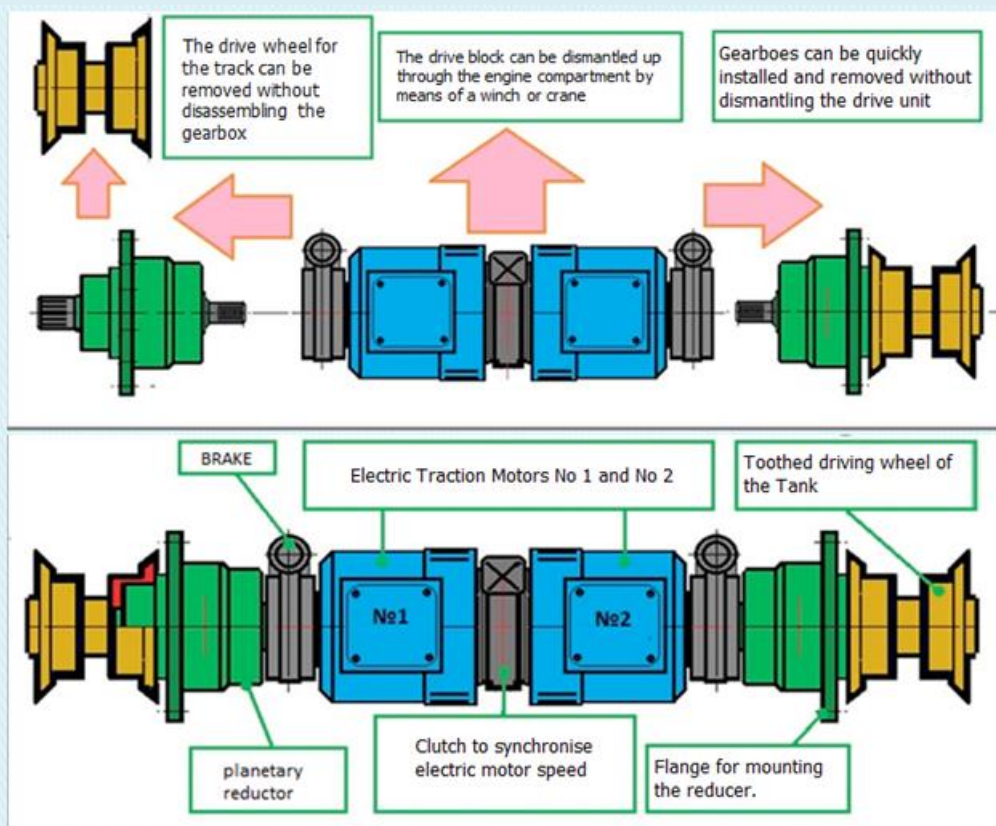
**Lithium Batteries extend the range and Tactical options**

## Advantages

- **Improved Reliability and Efficiency**
- **Up to Date Engine Technology**
- **Commercial Power Units available worldwide**
- **Cost Savings for Budget**
- **Easily Available Spares and Mechanics**
- **Reduced maintenance costs**
- **Increased Range**
- **Fuel savings of up to 50%**
- **With Lithium Batteries up to 30 minutes of Battery powered Silent running for Tactical Manoeuvring.**



Transmission	Electrical
<b>Alternator (power)</b>	<b>500kW</b>
<b>Electric motor (max. power)</b>	<b>2x 230kW</b>
<b>Max torque</b>	<b>21,000Nm</b>
<b>Special features</b>	<b>576V AC 50Hz</b>
<b>Internal / External power supply</b>	<b>Skid steer Function</b>
	<b>Pivot neutral steer function</b>



## Upgraded Electronics improve the offensive and defensive capabilities of the Modern Battlefield Vehicle

### North Star Sighting System

Is the state of art sighting battlefield technology. It is proven to add significant capability upgrade to existing MBTs in forward planning Military Organisations.

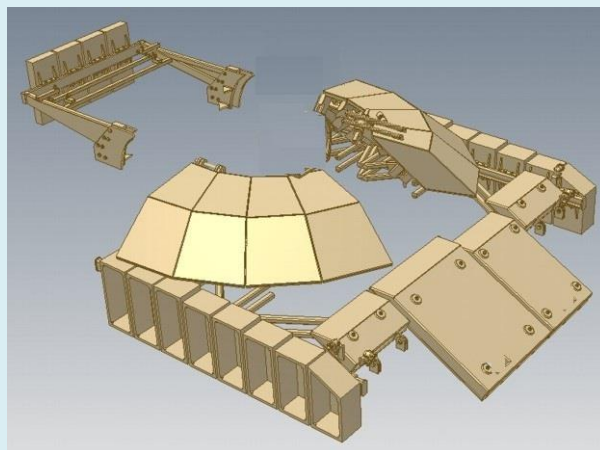
Designed in conjunction with the esteemed Institute of Physics in Belgrade it offers superior upgrade as a cost effective solution.

With a Tank target identification at 6000m Through both optical and thermal cameras and a range finding capability of 10,000m with an accuracy of  $\pm 5m$  this sighting system gives a significant battlefield advantage



Complete upgrades and modernising can be done in our workshop or at customer's workshop in their country.

Full training of technicians will be included.



ERA ARMOUR UPGRADE T55