

# Luxiton Gravitic Engine

The Luxiton Gravitic Engine is a mark improvement over the original [Crena Energy Engine](#), although it still utilizes a lot of the components of the old tried and true engine, the improvements to it warranted a completely new drive core that saw active service starting in EE001-v([YE 35](#))

The Luxiton was born out of the need for a more advanced drive core, and something that could be more easily relied upon and maintained by starship crews over the original which had been originally built into the ship and made replacing it more of a hassle and a chore. This flew foul with the military, because the military strongly prefers the case of replacing components especially when in the middle of a battlefield.

One of the things that Luxiton allows, that previous engine did not, was to inverse it's gravity field, slowing the ship down faster than before and also allowing it to move at relatively the same speed backwards as if it was moving forward. Another improvement were better heat sinks to suck in the heat, better gravitic coils for sustaining the gravity field, and also gravity negation field generators which helps negate the gravity field so that it doesn't harm important ship components.

Another thing that sets this engine apart is that its actual appearance and design can be determined by the ship builders, thus it doesn't have to be a standard design. This means that it can take on many different forms.

The other thing is that the Luxiton can be installed on anything from a small shuttle, to a large warship, and even on a station.

This drive core is broken up into three different classes.



Note, this is JUST the STL Drive, this is NOT an FTL Drive



Class	Speed	Reverse Speed	Overload boost
Class 1	.100c-.140c	.08c-.12c	50%+
Class 2	.145c-.190c	.12c-.17c	25%+
Class 3	.200c-.225c	.18c-.20c	15%+

## Components

### Inverse Grav System

Part of the main system, the I.G.S. is designed to facilitate the reversing the cores gravity field so that the ship can more easily maneuver backwards, this can be achieved either by using armored plates that slide toward the rear of the engine, thus focusing the gravity 'wave' toward the front to allow it to move backwards or by using some other means of changing the field direction. It is not presently able to manipulate the field for side movement.



It should be noted that while inverting the field helps slow the ship down, abusing this component can have unintended side effects on the ship.



## Heat sinks

A large number of heat sinks were built into the drive-core to help keep the drive cool during normal and overpower operations. These sinks can be easily replaced.

## Gravity Negating Spokes

A feature of the core are gravity negating spokes which helps to cancel out the engines naturally occurring gravity field so that it doesn't damage any external components such as ships communications or sensor antennas.

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