

Think "Aliens power loader with more armor"

Mandalorian Combat Engineering Frame

Power

Three Eksoan Class-4T3 Power Generators

Standard E-WEB power supply
Each generator runs at about 50% of maximum load, for safety reasons. Should one generator fail, the others cap out at 75%.
Modular back-mount for easy replacement and servicing.

Capable of running the entire frame for 12 hours straight, reduced to 3 if a shield generator is mounted and active. Numbers reduce to 3 hours without a shield and 30 minutes with, if a single generator is disabled.

Head

Sensor suite

- Standard tricorder capabilities
- Ultrasonic collision-detection
- LADAR
- Optical zoom (10x)

Forward area floodlights

Communication suite

- Mandalorian standard
- Starfleet standard
- External speakers
- Built-in universal translator

Torso

Limited life support equipment

- Provides the pilot with breathable air in most hostile environments
- Capable of functioning in hard vacuum for three hours at standard power, six hours at reduced power.

Emergency auto-doc system

- Monitors pilot's life signs, and automatically dispenses medications when need be.

Limited to pain-relief and anti-radiation medication. Hyposprays are positioned for optimal injection on a per-pilot basis, according to species.

Equipment

Right arm

Modular equipment mount. Standard equipment listed.
Fusion torch
Heavy grasper

Left arm

Modular equipment mount. Standard equipment listed
High-intensity spotlight
Heavy grasper

Optional

Equipment trailer: Simple "moving crap around" attachment. Cables attach to the CEF's hips and it just pulls an antigrav cart along.

Demolitions suite

- Intended for bomb disposal in hostile environments.
- Heavy graspers replaced with detail-work manipulators.
- Welding torch replaced with high-sensitivity directional sensor array and optical sensor capable of 25x magnification.
- Spotlight replaced with blast shield

Construction suite

- Spotlight replaced with a second fusion torch.
- Heavy graspers augmented with tractor beam emitters.
- Area floodlights augmented with directional spotlights.
- Gk3 Cryocoolers installed on CEF generators, generators tuned to run a 16% higher output than normal - A single non-catastrophic generator failure leads to remaining generators running at 99% of their rated output.

Armor

10cm Energized Ablative

Basic radiation shielding, pilot only

Optional

Blast shield: 30cm energized ablative armor

Generally used when a shield generator is unavailable or ill-advised - More common and less expensive.

Mounted on the left arm, replacing the standard spotlight.

Wider than it is tall; Surrounding personnel can use it as cover, should the need arise.

Can be "deployed", either by jamming it into the ground or tack-welding it to the deck plating.

Power drawn from CEF generators.

Backpack shield generator

Designed primarily to protect against things like venting plasma, but can be used during a firefight.

Creates a visible shield "dome" four meters in diameter, centered on the CEF.

Capable of stopping most energy discharges and launched projectiles, as well as radiation and high-velocity shrapnel.

Personnel and low-velocity projectiles (hand grenades, etc) can pass both ways through the shield.

Energy weapons fired from within the shield are unaffected.