

# RED LINE

TACTICAL CARD COMBAT



DIGITAL READOUT

# 2060

# CREDITS

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# TABLE OF CONTENTS

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Introduction	3	Sledge	19
REDLINE Timeline	4	Horus	20
		Mongol	21
		Parrot	22
<b>LIGHT EFREETTS</b>	<b>5</b>		
Rabbit	6		
Lancet	7	<b>HEAVY EFREETTS</b>	<b>23</b>
Huojian	8	Tanto	24
Doughboy	9	Claymore	25
Farstrider	10	Hauthorn	26
Wind Shark	11	Scorpion	27
Thrust	12	Rhino	28
Lightning	13	Mako	29
		Moose	30
<b>MEDIUM EFREETTS</b>	<b>14</b>		
Anuran	15		
Migidae	16		
Hammer	17		
Tigercat	18		



# INTRODUCTION

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FROM: Gen. Camilla Brand

SUBJECT: Review of UNE Efreet Force Joint Doctrine EJD-8-2060

Throughout human history warfare has continually been shaped and reshaped by advances in technology. After dominating the battlefield for over two hundred years the longbow quickly found itself replaced by the availability of gunpowder weapons. Soon after, advances in smokeless powder, rifling, and automatic fire made each previous generation of firearms obsolete. Just fifty years after the introduction of the Lee-Enfield rifle, cutting edge at the time of its introduction, they would be replaced by tanks as the tip of the spear. Airpower. Smart weapons. Network-centric warfare. Each revolution in military affairs (RMA) has forced a profound, and often painful, rethink on the tactics and strategies of the day.

Today, we find ourselves in the middle of another RMA. Today we find ourselves waging war in the age of efreets.

Though efreet technology is less than ten years old, their deployment on the battlefield during the Solar War has caused a complete rethink of traditional military strategy. Never before has a weapon platform existed that combined all the best attributes of everything that came before it. Highly mobile, efreets possess the utility of infantry in that they can fight on any ground without hindrance. Indeed, their low G capability has proven vital in the interplanetary battle spaces of the current conflict. Efreets also possess the best aspects of heavy armor which allows them to spearhead advances while being extremely effective at taking and holding ground. Finally, their advanced sensors allow them to plug into the MILNET, not simply as data hotspots, but seamless extensions of the system itself that gives it the ability to engage the enemy in real time, and with complete battlefield awareness.

The Solar War is unlike any conflict fought before in our history. The vast distances of battle finds our men and women fighting on terrain never before touched by war. And fighting with weapons never before imagined in war. If victory is to be achieved, it is vital we continually assess both the capabilities and limitations of efreets on current doctrine. For history has shown the militaries best able to adapt to RMAs have been able to force near insurmountable odds on their adversaries. The Allies were as unprepared for blitzkrieg in 1939 as Iraq was for the debut of smart weapon systems in 1991. Fates in our best interest to avoid.

Camilla Brand  
General EUROCOM



# REDLINE TIMELINE

## THE 2ND SPACE RACE

**2026**

China establishes *Hui Jia*, the first base on the Moon, setting off the 2nd Space Race.

**2029**

The Americans establish their own Moon base, *Freedom*, nicknamed Plymouth Rock.

**2031**

Asteroid mining becomes common as the world economy increasingly becomes dependent on it.

**2033**

Having abandoned the Moon, the Russians create the first base on Mars named *Laika*. Within the year the Chinese and Americans soon follow with *Hong Jia* and *Endeavour*.

## THE GOLDEN AGE OF SPACE TRAVEL

**2034**

Space travel becomes economical thanks to the rapid advances in technology it produces.

**2043**

Mars becomes an industrial powerhouse thanks to its proximity to national and privately held asteroid mining facilities.

129 passengers are killed during the Vesta Tragedy when a spaceliner is mistaken for rock jumpers and destroyed by the SpaceDust Mining Group. Afterwards, space becomes increasingly militarized.

**2045**

The Solar Economy becomes disrupted by the increase of "rock wars" fought by industrial companies near the asteroid belt.

**2046**

Having profited from the increased commercialization of space and responsible for many advanced technologies, the Brazil, India and the Middle Eastern Alliance (*BRIMEA*) is formed to protect themselves from being drawn into conflict.

**2047**

*BRIMEA* successfully tests cold fusion reactors.

## THE SOLAR WAR

**2048**

The US responds to Chinese aggression towards its asteroid ore refineries with a failed invasion of the Martian moon, Phobos. *Endeavour* surrenders the next day. The Solar War begins.

*BRIMEA* works with the US to begin developing the efreets program in secret in exchange for US research into faster than light engines.

**2049**

To rescue *Endeavour*, the US attempts to invade Phobos again. The attack fails due to a massive cyber attack on US forces.

**2050**

A phony war settles in as both sides strive to keep the fighting space based.

**2051**

The US fields the first efreets to successfully secure the Moon in just 24 hours at the *Battle of Tycho Crater*.

Chinese and Russian military leaders flee to Mars after the defeat. At the *Laika Conference* they combine forces to create the *Crimson Pact of Mars* and begin a crash course to engineer their own efreets.

**2052**

The US and its allies form the *United Nations of Earth* while the *BRIMEA* stay neutral.

**2059**

After years of pressure to join, the *UNE* invades the *BRIMEA*. The alliance responds with a mass exodus beyond the stars on starships built in secret with perfected Bead Drive technology.

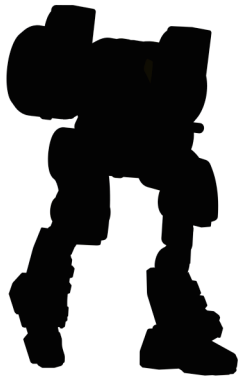
**2060**

*REDLINE* begins.



# LIGHT EFREETS

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# EF-9 RABBIT



**Role:** Light scout  
**Introduction:** 2052  
**Weight:** 11 tons  
**Engine:** Atomgrad 2 CF  
**Max Speed:** 58 kph  
**Armor:** RHA carbon ceramic plates  
**Armament :** 2 Aphid missile racks  
2 Kosmo machine guns  
**Manufacturer:** Hellas Heavy Manufacturing

## OVERVIEW

After their defeat at the Battle of Tycho Crater the newly formed Crimson Pact of Mars enacted multiple crash course programs to develop their own efreets. As one of the earliest efreets to be fielded from those efforts, the EF-9 Rabbit has proven to be a dependable design despite its inherent limitations.

## DESIGN

What would end up becoming the EF-9 Rabbit was one of the very first efreets to stem from the CPM's five year plan to create and field efreets superior to those of the UNE. Hellas Heavy Manufacturing, a rare earth mineral processing plant and tool factory was asked to submit a proposal in thirty days as at the time there were few plants on Mars capable of meeting the task. Originally just a cockpit on legs, their design helped to standardize the concepts that would be featured on all future CPM efreets.

Once the early prototypes became reliable it was up to Hellas Heavy Manufacturing to upgrade the new efreet into a weapon of war. Due to severe weight limitations, the efreet could only support a light armament of missiles and machine guns. Once outfitted, it didn't take long for the efreet to be formally accepted into the CPM armed forces. Named the Rabbit due to its appearance and small size, it was immediately pressed into action.

## DEPLOYMENT

Rabbits were first used to engage directly with UNE forces and despite high losses the new efreet fared well. But as more advanced efreets became operational it was quickly relegated to reconnaissance duties. However the EF-9 remains a versatile platform and the CPM uses modified versions for support and electronic warfare roles.



# EF-5 LANCET



**Role:** Light Scout  
**Introduction:** 2052  
**Weight:** 15 tons  
**Engine:** Atomgrad 2 CF  
**Max Speed:** 86 kph  
**Armor:** JD1 Steelweave  
**Armament :** 6 Kony laser cannons  
**Manufacturer:** New Petrograd Steel

## OVERVIEW

The formative years of the Crimson Pact were a time of great turmoil and for the fledgling alliance. Multiple military experts have stated their ability to relocate and rebuild their military on Mars while jump starting their own efrete program has been nothing short of a series of small miracles. Unfortunately, the EF-5 Lancel is not one of those miracles.

## DESIGN

As an early design, the Lancel shares a lot in common with the EF-11 Rabbit as both were technology demonstrators for the CPM's infant efrete program. Though the Rabbit ended up the more successful and adaptable design, this didn't stop the Lancel from being pressed into service.

With little internal room in the Lancel for weapon hardpoints, its designers opted instead to install no less than six laser cannons on the efrete, with pivoting mounts. However, pilots quickly learned that when fired rapidly, the cannons severely tax the Lancel's reactor and hinder the EF-5's overall performance. Even worse, the shaky laser mounts are prone to alignment malfunctions that hamper accuracy. This has forced many pilots to lock all six lasers in place and simply pray for the best during combat.

## DEPLOYMENT

Lancets did not stay in front line service long once more advanced designs became fielded. When they do see combat, CPM pilots commonly power down the chin cannons to reduce power consumption and increase performance. This sudden burst of speed, along with their appearance, have led UNE pilots to nickname them "crickets," a name the CPM pilots have unofficially adopted as well.





# EF-41 HUOJIAN



**Role:** Interceptor  
**Introduction:** 2060  
**Weight:** 16 tons  
**Engine:** Lěng Tàiyáng 4  
**Max Speed:** 128 kph  
**Armor:** Qiángdù nano carbon tubes  
**Armament :** 2 Gémíng lasers  
2 Tián Yíng missile packs  
**Manufacturer:** China Secondary Building Management Group

## OVERVIEW

CPM intel first heard rumors of the UNE's intent to create an efreet that could reach 150kph in 2056 with trepidation. An enemy efreet that could reach those speeds represented a real threat to CPM strike missions that rely heavily on the element of surprise for success. To counter what

would eventually become the UNE's Thrust, the China Secondary Building Management Group was tasked to design a new efreet able to reach high speeds. As if that wasn't daunting enough, the EF-41 Huojian, or rocket, would be the first efreet design from the weapons manufacturer.

## DESIGN

To reach such high speeds, the Huojian's designers looked to create an extremely lightweight design. To this end, almost eighty percent of the Huojian is made out of advanced composite materials. However, CPM cold fusion reactors lag behind the UNE in compactness and power and as a result, though extremely fast, the Huojian is not quite as fast as the Thrust, and is only able to match its speed in small boosts.

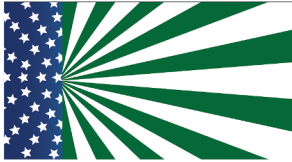
A constant problem during development was the lack of stability at high speeds. This was solved when CPM hackers gained access to the Thrust's design files. They copied the idea of retractable wings that automatically deploy when reaching high speeds with a shoulder mounted pair.

## DEPLOYMENT

At this time, only a few Huojians have entered service. Though none have seen combat yet, it's only a matter of time as CPM squads generally lack the speed of their UNE adversaries. A weakness the Huojian was designed to fix.



# DBY-1 DOUGHBOY



**Role:** Peacekeeper  
**Introduction:** 2055  
**Weight:** 20 tons  
**Engine:** R-309 Slim  
**Max Speed:** 52 kph  
**Armor:** SpaceTek double carbon weave  
**Armament :** 2 G.E.M. light lasers  
2 TK2 anti-personnel lasers  
**Manufacturer:** Rare Earth Weapons

## OVERVIEW

After the Chinese and Russian retreat after the Battle of Tycho Crater, the UNE found itself in care of billions of abandoned people. To prevent a global humanitarian disaster, hundreds of small peacekeeping camps were set up to provide aid and security at great cost and strain on UNE forces. The DBY-1 was

commissioned to fill an immediate need for a cheap and effective means to provide security at these camps.

## DESIGN

As many of the UNE camps were built in remote locations, it was critical the new efreet be able to operate with minimal support. A lightweight design was favored to help reduce costs and the wear and tear that comes from hard use. A design mandate required two fully articulated arms to increase utility and create a humanoid look that would appear less threatening. Lasers was chosen to eliminate ammo needs and were hidden in the shoulders to make the new efreet appear less intimidating while small anti-personnel lasers are built into the chest. The anti-personnel lasers have a wide array of power settings and can even be used to cut and weld.

## DEPLOYMENT

Since their introduction, Doughboys have been well received by UNE camp coordinators. One of their more widely publicized accomplishments involved two DBY-1s sent to an isolated camp within the state of Acre in Brazil after the BRIMEA exodus. In just six days the two Doughboys, nicknamed Pelé and Christopher by the inhabitants, were able to repair the local dam and create complete shelters for the nearly five thousand refugees stranded there.



# EF-27 FARSTRIDER



Role: Trainer/Infiltration

Introduction: 2057

Weight: 20 tons

Engine: Kharkiv C12

Max Speed: 62 kph

Armor: Almaz 3M nanoslate

Armament : 2 HF-7 lasers

2 Nomski Pchela missile packs

Manufacturer: Nomski Weapons

## OVERVIEW

Designed from the outset as an efreet trainer, the EF-27 has proven to be an incredibly versatile and valuable design for CPM commanders. Thanks to its small size and robust construction, it has proven to be an excellent raider, often deployed behind enemy lines where it can stay hidden for days or weeks before striking.

## DESIGN

Originally designed as a trainer for the first generation of CPM efreet pilots, the Farstrider was built with simple controls that provided for easy handling. One of its most distinctive features is its two fully articulated hands, rare among CPM combat efreets, which made it popular on military bases where it could double as a utility efreet able to move heavy equipment with ease. "Dock duty" in an EF-27 soon became a popular punishment for cocky cadets.

The small frame of the EF-27 left little room for heavy weapons, so four light lasers were initially installed into the left and right torsos to cut down on ammunition expenses during live fire exercises. But Nomski Weapons saw promise in the design and quickly proposed a combat variant that replaced two of them with small missile packs. This gave the combat version of the efreet more versatility since they could be loaded with a variety of warheads.

## DEPLOYMENT

A popular tactic involving the EF-27 involves orbital dropping a single unit deep into UNE territory days before a larger raid. Once dropped, the pilot finds a secure hiding spot, powers their Farstrider down to passive sensors, and waits. Once the raid begins, the Farstrider will vector in from behind UNE forces to cause interference and confusion before joining the raiding party for extraction.



# WIND SHARK



**Role:** Racer  
**Introduction:** 2059  
**Weight:** 20 tons  
**Engine:** PM CF2000B  
**Max Speed:** 122 kph  
**Armor:** Injection molded carbonfiber+  
**Armament :** None  
**Manufacturer:** Super Tuning Amemiya

## OVERVIEW

Almost instantly upon their reveal, the world went crazy for anything efreet related. Giant bipedal war robots weren't just science fiction anymore, they were science fact. Efreet toys, video games and even a popular internet cartoon show, Efreet Force 5, all became mega popular hits. With the world caught up in an efreet craze, it didn't take long for models to hit

the black market. And soon after, underground efreet racing leagues began to appear. A form of street racing mixed with parkour, Wind Sharks are popular in these leagues as their speed and agility make them hard to catch.

## DESIGN

If online message boards are to be believed, the Wind Shark was actually an original BRIMEA design left behind after the exodus. Hackers with connections to popular Tokyo car shop, Super Tuning Amemiya, discovered and leaked the plans to them with a request that if they ended up producing a working efreet they wanted one in return.

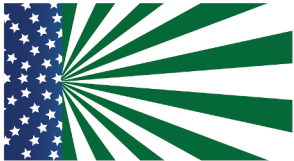
Because Super Tuning Amemiya already had the garage space and machinery to print and make their own custom parts and cars, it required surprisingly little effort to retool for the Wind Shark. Where Amemiya found a supply of cold fusion reactors remains a mystery though...

## DEPLOYMENT

Costing around 5 million dollars, Wind Sharks are racers meant for the super wealthy. Most owners choose to customize their Wind Sharks with colorful paint schemes and aftermarket accessories to make them stand out. However, some private military companies have jury rigged small weaponry onto them as the high speed of the efreet makes it a natural scout in combat.



# THR-35 THRUST



**Role:** Infiltration/Interceptor

**Introduction:** 2060

**Weight:** 24 tons

**Engine:** F35 cold fusion light reactor

**Max Speed:** 146 kph

**Armor:** SAFE nanoweave

**Armament :** 2 ArmaTech missile bays

**Manufacturer:** SAFE Systems

## OVERVIEW

Despite the Crimson Pact's forces being 33 million miles away, incursions on Earth still happen with alarming regularity.

Raids can drop out of orbit from anywhere and are difficult for the UNE to respond to, even if given early warning. A clear need became apparent for a high speed efreet that could intercept rapid CPM attacks. The Thrust was proposed for this role

while also becoming a testbed for the limits of just how fast an efreet can actually be.

## DESIGN

Initial UNE design specifications asked for an efreet that could reach 150 kph, a speed felt by many as unachievable let alone unsafe. To meet that target, SAFE Systems engineers integrated a sophisticated topography sensor suite that directs steering above 115kph along with thrust vectoring nozzles, similar to those seen in jet fighters, that boost the Thrust to top speed while keeping balance.

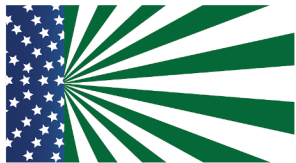
However, the design proved aerodynamically unstable and fatal crashes of both prototypes threatened to cancel the program. It wasn't until the addition of retractable ailerons that deployed when the nozzles were engaged that the efreet's stability issues were solved. Though the Thrust wasn't able to quite meet the initial speed requirements, the final design was still greenlit for production in 2059, two years behind schedule.

## DEPLOYMENT

Limited numbers of Thrusts have only recently begun to activate with select squadrons. Already a favorite of pilots, the Thrust has gained a slick reputation as it didn't take pilots long to learn the vector nozzles were just as useful for dodging incoming fire as they were for hot dogging.



# LGT-3 LIGHTNING



Role: Garrison  
Introduction: 2051  
Weight: 28 tons  
Engine: LENR 4 reactor  
Max Speed: 54 kph  
Armor: SpaceTek carbon weave  
Armament : 6 ANQ-L Apollo lasers  
              2 Shen-X heavy lasers  
Manufacturer: Rare Earth Weapons

## OVERVIEW

As one of the very first efreets to see military deployment, the UNE Lightning enjoyed a short time in the sun as a state of the art weapons system before it quickly became obsolete by newer designs. The LGT-3 seemed destined for the scrapheap but soon found a new lease on life as a cost effective garrison unit.

Ideally suited for patrols in the sprawling urban centers the UNE found itself burdened with occupying after the 2059 BRIMEA exodus, Lightnings continue to be in great demand. And unfortunately for its many critics, still in production.

## DESIGN

The design that would become the Lightning was first proposed in 2048. As a collaboration between the United States, Japan and BRIMEA engineers, the initial prototype took its first steps in the proving grounds outside Neom in 2050. Initial trials proved promising, but growing political differences between the BRIMEA's technology council and the US Joint Chiefs ended the collaboration. With the project under their sole control, the US rushed the Lightning into production and deployed two squadrons in secret for augmented reality training near White Sands, New Mexico.

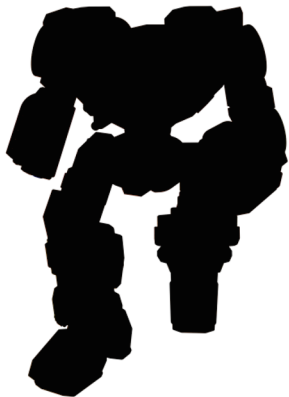
## DEPLOYMENT

Famously, the Lightning was one of the first efreets used to great effect at the Battle of Tycho Crater. However, once the concept of an efreeet had been proven as a valid military weapon, newer models were not far behind. Outdated Lightnings were soon regulated to guard and patrol duty, a role it excels in as its low overall speed is less of a liability. Now they are most commonly seen protecting UNE urban zones though a few still see frontline duty when forced into combat.



# MEDIUM EFREETS

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# ANR-12 ANURAN



**Role:** Support  
**Introduction:** 2059  
**Weight:** 40 tons  
**Engine:** CFM56-5B  
**Max Speed:** 75 kph  
**Armor:** 2nd Gen foamsteel composite  
**Armament :** 2 BEIER-V missile pods  
**Manufacturer:** JagerWerks

## OVERVIEW

UNE after action reports after the Battle of Muscat in 2055 showed a disturbing trend. During the battle, CPM forces routinely enjoyed a 2:1 advantage in firepower when engaged with UNE defenders that resulted in heavy losses that doubled at ranges over two kilometers. To increase their firepower in such engagements the UNE requested submissions for a versatile fire

support efreet. Upstart efreet manufacturer JagerWerks won the contract with its unique Anuran design.

## DESIGN

Desperate to win the contract, JagerWerks created twelve different design proposals for what eventually became the Anuran. After five thousand combat simulations of each variant, the twelfth iteration emerged with the most effective battle value stats and was greenlit for production.

Thanks to its small size, high speed, and unique adaptability system, the ANR-12 is an effective weapons platform, easily able to mount heavier weapons normally seen on larger efreets. With inspiration taken from the pit stops of F1 racing cars, the ANR-12 can quickly swap out empty missile pods and even damaged legs at field refit stations to stay combat effective for extended periods of time. Hit and run attacks are favored since its agility comes at the cost of armor protection.

## DEPLOYMENT

Though a new design, the Anuran is being rushed to front line units as fast as they can be produced. Already an ECW variant has been spotted which swaps out one of the BEIER missile pods for an Athens AN/FPS sensor package to increase its support capabilities.





# MIGIDAE



**Role:** Heavy scout  
**Introduction:** 2057  
**Weight:** 48 tons  
**Engine:** PM CF2000G  
**Max Speed:** 112 kph  
**Armor:** Nanoslate composite  
**Armament :** 2 Deca-X missile bays  
2 Wasp SR5 missile packs  
2 Pilum light autocannons  
2 Medium machine guns  
**Manufacturer:** Legion

## OVERVIEW

It didn't take long after efreets hit the battlefield before demand for the new technology from private military companies became too big to ignore. One of the side effects of the rapid technological advancements of the past

thirty years was the revolution in rapid design and manufacturing. As a result, small companies suddenly found themselves with the means to create and profit from their own efreet designs for sale in the private market.

## DESIGN

Only ten years ago, Legion was a dwindling arms company on the verge of bankruptcy. After the Battle of Tycho Crater its CEO, Alec Wagner, saw an opportunity to turn his floundering company around with an announcement that Legion would immediately begin taking orders on a new efreet design of their own. Preorders of this bold claim sold out in just fourteen minutes and gave Legion the capital needed to create what would become the Migidae.

Wagner hoped that by designing the new efreet around speed and firepower it would appeal to a greater market. To help lower costs, advanced electronics and information systems were cut early on which helped Legion to deliver on its promise of a working efreet to customers by 2057. Though critics have said the Migidae has a targeting system no better than point and shoot, sales still remain high.

## DEPLOYMENT

The Migidae is widely used among many private military companies. However the design has enough merit that captured ones can often be found in UNE and CPM use.



# EF-25 HAMMER



**Role:** Interdiction  
**Introduction:** 2057  
**Weight:** 55 tons  
**Engine:** Glissa 4XL reactor  
**Max Speed:** 88 kph  
**Armor:** iQin nano lamellar  
**Armament :** 2 Zhàměngr missile racks  
4 TI-83 light lasers  
2 Emperor plasma cannons  
2 ZR.50 machine guns  
**Manufacturer:** Terra Cotta Industries

## OVERVIEW

Already a staple on the front lines of the CPM, the Hammer is a medium design with an armament that would make heavier efreets run. Dependable and able to function while sustaining heavy damage, even a single Hammer is a

serious threat on the battlefield. So much so, that UNE pilots are routinely ordered not to engage one unless they have a two to one advantage in numerical superiority.

## DESIGN

The secret to the Hammer's success lies in its bulky design and loose tolerances that allow it to keep fighting even when the hull is heavily compromised. Its head designer, Pavel Boskonavitch has stated on record during a webcast that the Russian T-34 tank and AK-47 rifle were both inspirations for the model and that his greatest hope was that the EF-25 could become the efreet equivalent of both. As long as the CPM keeps grinding Hammers out like sausages, Pavel may yet live to see his dream come true.

## DEPLOYMENT

Hammers already make up the mainstay of Crimson Pact forces despite the design being fairly new. One way to account for this is the Terra Cotta Industries practice of skipping the development stage of testing to find and fix design flaws as they arise in the field. The strategy works well, as damaged Hammers are brought up to the latest factory standards when sent in for repairs. The newest upgrade boasts an improved fire control system and stronger arm servos to reduce the joint lock up that was found to be a common problem after sustained fire from the Emperor plasma cannons.



# TRC-5 TIGERCAT



**Role:** Multi-role efreet  
**Introduction:** 2058  
**Weight:** 55 tons  
**Engine:** F30J-CF reactor  
**Max Speed:** 102 kph  
**Armor:** SAFE nanoweave  
**Armament :** 2 Phoenix missile bays  
1 Reinhardt 135 mm cannon  
**Manufacturer:** SAFE Systems

## OVERVIEW

As efreet technology has advanced, so too have the needs and demands of them by the armed forces of the UNE. First generation efreets were fairly limited in their mission roles and as the Solar War expanded and grew in scope, so did the need for an efreet that could perform well in any combat situation.

## DESIGN

The initial design specifications put a heavy emphasis on speed so that the new efreet would have the ability to engage enemy targets on favorable terms no matter the combat situation. To accomplish this the new efreet was built around the powerful F30J cold fusion reactor which takes up most of the space behind the cockpit.

To compliment the new efreet's speed, two large missile bays and a 135 mm cannon were included for the primary armament. As each can quickly be loaded with different ammunition types, it gives the Tigercat even more flexibility in combat. Even the hand is housed in a dry weapons bay that can easily be converted into another hardpoint for when extra firepower is called for during a mission.

## DEPLOYMENT

It didn't take long before the untested efreet first saw action when the 27th UK cavalry regiment, the "Fighting Dragoons" clashed with a CPM incursion force 90 miles north of London on Jan 1st, 2059. Led by Lt. Gen. Camilla Brand, a small squad of Tigercats used their speed to set up multiple ambush points and overwhelm an enemy force twice their size. When the Tigercats did have to stand and fight, their mobility kept them in favorable cover while only suffering two losses. A week after the battle, Brand found herself promoted and the UNE formally doubled Tigercat production.



# EF-11 SLEDGE



**Role:** Fire support

**Introduction:** 2053

**Weight:** 60 tons

**Engine:** Glissa 2XL reactor

**Max Speed:** 60 kph

**Armor:** ABS graphite-carbon plates

**Armament :** 2 N1 Semyorka missile racks

**Manufacturer:** Terra Cotta Industries

## OVERVIEW

After their loss at the battle of Tycho Crater, the militaries of what would become the Crimson Pact of Mars wasted no time in creating their own joint efreet program. Many experts actually credit this early collaboration of what would become the development of the EF-11 Sledge as responsible for laying the initial groundwork for the Laika Conference in

2051. Together, the two sides helped create the template for all future Martian efreet production.

## DESIGN

The initial proposal for what would become known as the Sledge was for an efreet that could fight effectively at all ranges. However as early development challenges mounted it became apparent the new design would not survive skirmishes at close range and so the focus shifted to long range artillery support. Something the Sledge excels at thanks to its massive N1 missile racks mounted on flexible shoulder mounts that grant a full three hundred and sixty degree field of fire.

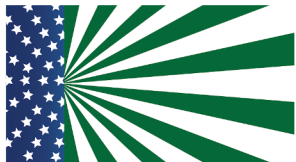
Early designs proposed dual plasma cannons in movable torso mounts but that proved too draining on the reactor. However the mounts were kept as independently moving targeting pods assigned to each massive missile rack.

## DEPLOYMENT

Due to their vulnerable slow speed, Sledges are often relegated to fire support roles well outside of combat zones. In the rare occasions when they are brought directly into combat, they need to be escorted as there is little the efreet can do to protect itself once a target is within five hundred meters. CPM scrapyards are filled with Sledges unable to deal with efreets that got too close this way.



# HRS-19 HORUS



Role: Main battle efreet

Introduction: 2055

Weight: 60 tons

Engine: LENR 5 reactor

Max Speed: 90 kph

Armor: SpaceTek double carbon weave

Armament : 2 REW-5 Osiris cannons

Manufacturer: Rare Earth Weapons

## OVERVIEW

With over five years of service, the Horus has emerged as a mainstay of UNE front line forces around the globe. Built around its two massive Osiris cannons, the Horus can be easily modified by ground crews to accept a variety of ammunition types and cannons thanks to its spacious and boxy arm mounts. As a result, it's often used as a testbed for new weapons.

## DESIGN

As an early second generation efreet, the Horus overcame many early model deficiencies thanks to upgrades of the low energy nuclear reactor (LENR) power plants in use at the time. Unfortunately, a planned anti-personnel laser system was too taxing on the LENR 5 and so was stripped from the Horus right before production. Earlier models of the Horus still show the original laser mounts, though newer models have eliminated those housings.

## DEPLOYMENT

It didn't take long for the Horus to see action and make a name for itself as a stable weapons platform with a knack for pulling off impressive long range shots thanks to the accuracy of its double REW-5 Osiris cannons.

Though the Horus has seen combat in all theaters, it's most famously known for its role at the Battle of Kodiak Island near the Aleutians. There, two squads of Horuses, lead by Captain Wayne "Top Chef" Johnson held back a Crimson Pact assault to secure the island as a temporary operating base. To conserve their limited ammunition supplies, Johnson ordered his efreets to engage only in long distance hit and run attacks that ground down the enemy. Johnson's "snipe and wipe" tactics once again proved the value of the efreet's mobility in difficult terrain and forced the CPM to abandon their attack once losses became unsustainable.



# EF-28 MONGOL



**Role:** Minelayer  
**Introduction:** 2059  
**Weight:** 62 tons  
**Engine:** Hǎnlěng de Tàiyáng-8  
**Max Speed:** 78 kph  
**Armor:** Almaz 4M carbonslate  
**Armament :** 2 Coil-Amp lasers  
2 Firepot-K/10 auto minelayers  
**Manufacturer:** Yangtze Arms Group

## OVERVIEW

CPM wargaming simulations looked grim for CPM Generals in early 2055. Though their crash course efreedom program had started to bear fruit, data analysis showed the UNE still possessed a three to one advantage in efreedom if they moved to invade Mars within the next ten years. Strategic planners were well aware UNE

drop ships could launch a Martian offensive anywhere which made building fortifications to stop an attack impossible. To counter this threat, a low cost mobile doctrine centered around defensive efreedom units like the EF-28 was adopted.

## DESIGN

The team behind the development of the EF-28 was led by General Gregory Yun. Widely recognized as one of the best defensive minds of the now defunct People's Liberation Army, Yun had spent the last decade researching how best to grind Western forces into the ground while writing his book, *On Modern War*. A strong believer that advances in technology could be effectively applied to even the simplest of weapons, smart mines offered a potent cost effective response to deter squads of advancing UNE efreedom units.

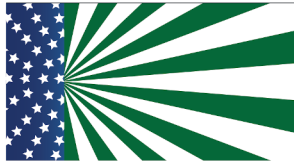
With that idea in mind, the Mongol was built around its dual auto minelayers, newly developed by Yangtze Arms. Each mine creates a network of explosives that can direct their blasts in a 360 degree arc to destroy incoming targets from a distance of 30 meters. Mines the Mongol deploys rapidly.

## DEPLOYMENT

Relatively untested, Mongols have yet to be given a true trial by fire. However, many CPM commanders see great potential in applying the new datalinked mines offensively if given the chance.



# PRT-10 PARROT



**Role:** Support  
**Introduction:** 2054  
**Weight:** 65 tons  
**Engine:** C-Tek 3600  
**Max Speed:** 28 kph  
**Armor:** Hardened blast shield composite  
**Armament :** 1 16 inch "Star Fort" cannon  
**Manufacturer:** Rare Earth Weapons

## OVERVIEW

After their victory at Tycho Crater, UNE Generals pressed hard to follow up with an invasion of Mars at the earliest possible opportunity. Fully aware any Martian assault would require substantial artillery support, an attempt was made to rush out an efreet which could provide the heavy firepower needed to level the CPM fortifications and underground bases

known to be encountered during the campaign. Developed for this invasion, the PRT-10 found itself in danger of becoming unnecessary when it was called off in late 2056.

## DESIGN

Created for an invasion of Mars that never happened, the Parrot was highly capable despite never having fulfilled the mission it was designed for. Built around a massive 16 inch cannon, the Parrot can put multiple shells on target from up to 55km away. The entire rear of the torso is dedicated to ammo storage and the sophisticated auto loader that can fire up to four shells in the air simultaneously and have them land on a single target within seconds of each other. For the prolonged sieges expected during the invasion of Mars, the Parrot can squat down to allow for the manual loading of its ammo stores through two hatches in the rear.

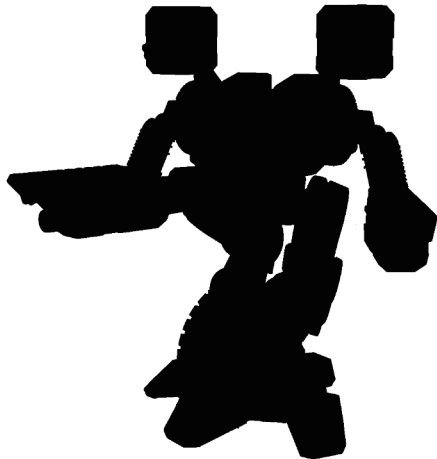
## DEPLOYMENT

Once the plans for invasion were taken off the table, the UNE was forced to find new uses for an efreet too slow and too unwieldy to fight in modern combat scenarios. Today most Parrots can be found bolstering the defenses of major UNE bases around the globe with little hope of seeing front line action. Some have discussed adapting the Parrot and its massive Star Fort cannon into an anti-orbital role though the effectiveness of such a system remains in doubt and is unlikely to see development any time soon.



# HEAVY EFREETS

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# TNO-30 TANTO



**Role:** Heavy efreet  
**Introduction:** 2057  
**Weight:** 70 tons  
**Engine:** CF Nova class 2 reactor  
**Max Speed:** 97 kph  
**Armor:** FisherNXT Carbonsteel  
**Armament :** 2 Dart small missile racks  
4 Heavy Seer laser cannons  
**Manufacturer:** Oracle Defense Industries

## OVERVIEW

Overgunned for its speed and frame, the TRO-30 Tanto has proven to be a fickle efreet that still is plagued by technical issues. Despite the flaws of the design, the Tanto has been hard pressed into combat as one of the few UNE efreets that can slug it out with its heavier counterparts in the CPM. When it works.

## DESIGN

The Tanto earned its reputation as a hangar queen thanks to the massive amount of stress the design puts on its undersized cold fusion reactor. While on paper the efreet has a top speed equal to lighter units, it can't "run and gun" because of the massive power drain created by the dual heavy laser cannons housed in each arm.

Field refits have seen energy couplers installed in each forearm that can store power safely for the power hungry cannons. But they deplete quickly after just four discharges. There has been discussion of trading out the lasers for a Rhenhardt 135mm cannon on each arm but the increase in weight has many ODI engineers worried it could compound the problems with the troubled Nova reactor.

## DEPLOYMENT

The Tanto has the unglamorous distinction of requiring 32 hours of maintenance for every hour of operation. The Nova reactors burn out quickly if pushed too hard and are laborious to replace. The problem has gotten so bad that many commanders have taken to holding their Tantos in reserve or deploying them only when necessary to allocate maintenance crew hours on more capable units.

As such, the Tanto is a rare sight on the battlefield.



# EF-34 CLAYMORE



**Role:** Assault  
**Introduction:** 2058  
**Weight:** 75 tons  
**Engine:** Salyut AL-37  
**Max Speed:** 84 kph  
**Armor:** iQin nano lamellar  
**Armament :** 1 Saturn missile rack  
2 Zuko autocannons  
1 150mm Qiang cannon  
2 ZR.50 machine guns  
**Manufacturer:** Zhukov Technologies

## OVERVIEW

As one of the most fearsome efreets yet produced, the EF-34 Claymore represents the epitome of the new technology. Heavily armed and armored, the Claymore is often found spearheading the direct assaults favored by CPM commanders as

the machine was built to have high survivability in adverse situations. Claymores made an instant impact once fielded and left the unprepared UNE scrambling to find an answer to counter this deadly new threat.

## DESIGN

As one of the first heavy efreets to be fielded by either side during the Solar War, the Claymore challenged a lot of conventional thinking during development. It is built around a massive Salyut cold fusion reactor, which the efreet needed to move its massive bulk. An early decision to focus only on missile and ballistic armament meant excess power from the reactor wouldnt be sapped by energy weapons. Once the initial prototypes were complete the efreet breezed through early trials with few setbacks.

## DEPLOYMENT:

One of the more famous Claymores to see action belongs to General Valya Serova. Her slightly modified EF-34, nicknamed "Katyusha" replaces the arm mounted autocannons with two additional Qiang cannons. Able to deliver a devastating amount of firepower in a single salvo, she has used the efreet in numerous engagements and racked up over 42 kills. General Serova is so prolific on the battlefield that her pilots have proudly taken to calling her the "Efreet Reaper", a fitting name for the daughter of a wheat farmer on the old Russian steppe.



# EF-31 HAUTHORN



**Role:** Assault  
**Introduction:** 2057  
**Weight:** 78 tons  
**Engine:** Makayev 7CF  
**Max Speed:** 58 kph  
**Armor:** ABS graphite-carbon plates  
**Armament :** 2 ShVAK-V rotary cannons  
2 R-50 rocket launchers  
2 AEV missile packs  
**Manufacturer:** Hellas Heavy Manufacturing

## OVERVIEW

As CPM engineers became more capable in their efreet designs, the demand for heavier units from CPM Efreet Command kept growing. Lost in the excitement around the development of advanced designs like the Claymore and Moose, the Hawthorn entered service quietly in 2057.

Since then it has proven itself in combat to be a fearsome and deadly weapon, if an unglamorous one.

## DESIGN

The Hawthorn was designed around durability and is able to survive multiple hits from a 150 mm cannon from three kilometers away. To do so, the designers at Hellas came up with an armor layout composed of double composite armor slates. Though bulky and heavy, further protection was added in the form of reinforced pauldrons installed around the weaker joints to keep the EF-31 in action while taking damage. To further increase survivability, ammunition for the massive ShVAK cannons is stored in detachable armored compartments that blow out into the rear arc of the Hawthorn in case of rupture.

## DEPLOYMENT

In 2059 during a CPM raid on a suspected BRIMA R&D facility located near Navi Mumbai, four Hawthorns from the 54th Efreet Guards pinned down an entire squad of UNE efreets. Commanding the valley below from their position in the hills above the lab, each Hawthorn was hit over a dozen times yet they continued to hold off the UNE forces for over three hours. This allowed the special ops team in the lab to hack an entire mainframe of data and recover the remains of an advanced servo prototype with zero loss of life.



# SCORPION



Role: Assault  
Introduction: 2059  
Weight: 78 tons  
Engine: LM Saturn4  
Max Speed: 62 kph  
Armor: Carbonplate Series S  
Armament : 2 MR Hephaestus rocket pods  
              2 Hi-Pulse laser cannons  
              2 KBM6 cannons  
Manufacturer: DiabloTech.com

## OVERVIEW

Highly prized among the mercenary organizations and pirates that field them, the Scorpion has rightfully earned a reputation on the battlefield as a fearsome fighter. More importantly, the Scorpion represents a new age of space based weapons manufacturing that opens

the door for a new supply of unrestricted armaments sales.

## DESIGN

DiabloTech was an up and coming arms manufacturer in the years before the outbreak of the Solar War. A war that should have meant record profits for the company, if not for UNE sale restrictions on efreet technology. Refusing to bow to unelected UNE rule, DiabloTech's CEO moved the entire company into space where large ore haulers were converted into manufacturing plants, free from UNE eyes.

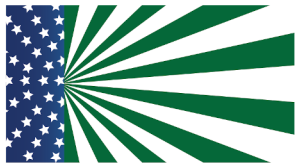
Due to limited space, the Scorpion's limbs and torso are produced in separate ships before being shipped to DiabloTech's flagship, the Tabula Rasa for final assembly. Since appearing on the market, Scorpions have been in high demand from an anonymous customer base who values its firepower as much as they do their own privacy.

## DEPLOYMENT

A pair of Scorpions from a mercenary outfit called the Thorned Roses fought off an entire platoon of CPM light efreets during a resource raid on CPM ore refineries shortly after their initial delivery. Using their cannons, they were able to whittle down their adversaries at long range before annihilating any survivors with a barrage of rockets and rapid fire hi-pulse lasers. The extra salvage that night was the cherry on top of a successful mission for the Roses.



# RHO-12 RHINO



**Role:** Command and control  
**Introduction:** 2058  
**Weight:** 82 tons  
**Engine:** LM Saturn 4  
**Max Speed:** 68 kph  
**Armor:** 2nd Gen foamsteel composite  
**Armament :** 2 M10 missile bays  
2 150 mm Rampart cannons  
**Manufacturer:** DyeHex Inc

## OVERVIEW

The 2060 battlespace is more confusing and complex than at any time prior. The mobility and lethality of efreets often means most engagements now last only minutes. And to make combat even more dangerous, orbital force insertions have turned the entire planet into one giant theater of operations as battles can begin

anywhere at any time. To face these new challenges the UNE requested a new efreet to be developed that could act as a mobile command center to direct the increasingly complex flow of combat.

## DESIGN

The winning design featured a spacious cockpit with room behind the pilot for an additional two crew members. The information and control officer, or INCO, manages all the information the Rhino collects from the secure data link atop the head which crews quickly nicknamed, "the horn". Next to the INCO the commanding officer has a multi screen display that allows them to see the battlefield from the viewpoint of any connected UNE unit or data source.

As the Rhino was designed to coordinate combat in the middle of an engagement, it was also given heavy armament and thick skin to protect itself from threats.

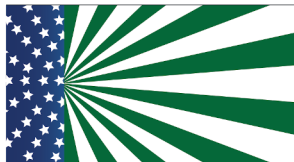
## DEPLOYMENT

Rhinos have been used to great effect in the years since their deployment. Data collected from the first year of after action reports indicate that even a single Rhino alongside a squad of efreets has the capability of increasing their combat effectiveness by 46%. Ideally, the UNE would like to have a Rhino attached to every combat squad, but attrition is high as the CPM makes them priority targets in battle.

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# MKO-17 MAKO



**Role:** Assault  
**Introduction:** 2060  
**Weight:** 85 tons  
**Engine:** Double CV-X  
**Max Speed:** 54 kph  
**Armor:** Nano-Silicon Chobham  
**Armament :** 4 150 mm M22 cannons  
**Manufacturer:** Hughes-Sands Aerospace

## OVERVIEW

Though UNE commanders knew it was only a matter of time before the CPM developed their own efreets programs, they were taken by surprise at how quickly their enemies were able to field heavier assault units. The disappointing performance of the Tanto, combined with leaked prototype photos of the CPM Claymore forced UNE strategists to find a

new answer to combat the growing threat posed by these massive efreets. Enter the Mako.

## DESIGN

Designed to engage any CPM heavy efreets and emerge victorious, the designers at Hughes-Sands Aerospace put a heavy emphasis on firepower during the initial development of the MKO-17. The Mako's quad loadout of M22 cannons in the arms and traversable shoulder mounts guarantees the heavy efreets will never be outgunned in battle.

Analysis of combat data with CPM heavy efreets showed few engagements lasted beyond the initial exchange of fire. To ensure the Mako had the resilience to survive first contact, a heavily reinforced cockpit was deemed essential along with redundant systems connected to both sides of its dual CV-X reactor so if one side was ever disabled, the efreets could still stay combat effective. Finally they surrounded the efreets with the most advanced armor sheets yet developed to ensure Mako pilots return home after every sortie, no matter what.

## DEPLOYMENT

The biggest enemy of the Mako may turn out to be cost as each costs over 350 million dollars. A price the overextended UNE may be hard pressed to pay no matter how effective its newest weapon of war may be.



# EF-38 MOOSE



**Role:** Assault  
**Introduction:** 2059  
**Weight:** 86 tons  
**Engine:** SaM146 Venera  
**Max Speed:** 67 kph  
**Armor:** iQin nano lamellar  
**Armament :** 2 T-50 140 mm cannons  
2 MAU-46 rotary cannons  
2 E-12 light lasers  
**Manufacturer:** Terra Cotta Industries

## OVERVIEW

Delivering overwhelming firepower with the armor protection to survive multiple direct hits, the Moose is the latest CPM heavy efreet to enter widespread service. Though a new design, it has already built up a fearsome reputation among UNE pilots and strategists alike.

## DESIGN

As one of the largest efreets yet fielded by any manufacturer, the Moose employs a unique ankle joint that provides strength and agility for its large frame. Indeed, much of the time spent during early development was on perfecting the ratcheted ankle. When it works, the Moose has an almost graceful gait that belies its huge mass. Unfortunately the system is highly vulnerable to fire when exposed and UNE pilots quickly learned to aim for the Moose's achilles heel when in combat.

Designed to dominate any battlefield it finds itself on, the Moose does so easily as it carries twice as much firepower as most other designs. Though bulky, the four high powered cannons can easily cripple many medium efreets in a single volley of fire.

## DEPLOYMENT

The Moose came as quite a shock when first encountered by UNE pilots during a CPM raid on an abandoned BRIMEA laboratory outside São Paulo in 2059. Even in the uneven jungle terrain, two of them were able to flush out the UNE reaction force into a plain where they devastated the enemy efreets on the open ground. Afterwards, the two Moose acted as a rear guard and single handedly held off a second reaction force while the CPM units prepared to exfil. Both machines suffered only light damage during combat.



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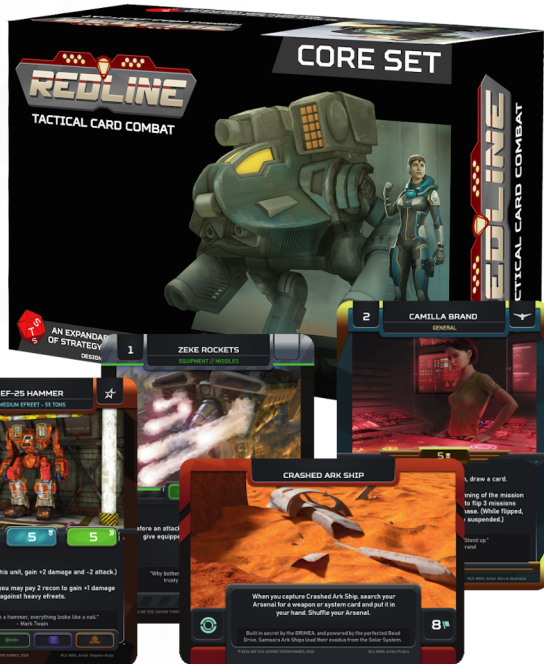
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