

Supplement 5-6: The Vehicle Handbook

Transportation fluctuation

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CONTENTS

Introduction	2
Crash Course In Vehicle Design	3
New Vehicle Rules	4
Chassis Types	9
Adding Armour and Weapons	29
Universal Modifications	35
Battle Dress	44
Vehicle Design Examples	53
Civilian Vehicles (various)	55
Military Vehicles (various)	97
Aslan	129
Vargr	132
Darrians	135
Zhodani	138
Sword Worlds	142
Project Steel	148
Judge Dredd Justice Department	149
Judge Dredd Civilian Vehicles	157
Vehicles of the Cursed Earth	165
Strontium Dog	168
Hammer's Slammers	172

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Welcome to the Vehicle Handbook. This book replaces *Supplement 5: Civilian Vehicles* and *Supplement 6: Military Vehicles* in the *Traveller* range, to provide you with one core reference to create your own vehicles and quickly access your own designs.

The new vehicle design system was created to be quick. With practice, you will be able to create small, basic vehicles in just a few minutes, allowing you to create vehicles, almost on the fly, during a game. Even a large, multi-turreted super-heavy battle tank will not take much longer than five minutes' work.

The key to this is that the design system focuses on *effect* rather than *components*. You will not find complicated charts of different engines, reactors and other power systems – in terms of effect, we really do not care *how* a vehicle is propelled, we just need to know how fast it goes and what it can carry.

At the same time, you will find the system to be very elegant, taking into account changing Tech Levels that bring new forms of propulsion, new materials that are lighter and stronger and new control systems that require less crew. All of this is factored into the very simple system.

After the basic design of a vehicle has been created, you then have the ability to load it up with a variety of modifications

that will serve to bring it into the role you envisage. After all, building a fast submarine is all well and good but building a fast submarine with a supercavitating drive is always better.

The worlds of science fiction are filled with vehicles ranging from the mundane to the exotic. A starport on a world far across the frontier may see a mix of pedal-powered rickshaws, horsedrawn wagons and anti-grav skimmers. All of these and many more, can be created with this system.

Ultimately, this system is designed to create vehicles that characters can interact with on a meaningful level, such as cars, planes and small ships. This system is not intended to produce huge vehicles like supertankers or aircraft carriers as they should really be considered more along the lines of background scenery, props and setting.

Designers note: This is now **Your** vehicle design system, If something doesn't seem right to you, or you have a better method or even think there are not enough things to choose from then feel free to change that. You won't break the book. This book is a stepping stone for your imagination not the final word. If you have any ideas on how to better the system or come up with something new and different then let us know! We will put the best ideas on our web site for the everyone to share.



Graah Course in Viehigue Design

The core of the design system is divided into several sections, each representing a basic chassis type, such as ground vehicle, hover vehicle, grav vehicle and so on. This chapter introduces you to the basics of designing a vehicle and the steps you must go through to accomplish this.

Vehicles are designed by selecting a Chassis type, to indicate its form and then the number of internal Spaces it has to define its size. These Spaces are large enough to accommodate a single human being and are the basis of the design system.

VEHICLE DESIGN SYSTEM

Each vehicle is designed by selecting Tech Level, Chassis type and number of Spaces. Each Space is roughly the interior volume needed to accommodate one person comfortably. Many modifications and internal components require Space. The next step is to add modifications and options. Within each Chassis type, maximum speed and range are modified by Tech Level.

Ground, hover and grav vehicles may be designated as Armoured Fighting Vehicles (AFVs), which modifies the vehicle's base characteristics and cost, as described in each section. Only Heavy Vehicles may be designed as AFVs.

Each vehicle section contains modifications that are specific to each particular Chassis type. The modifications at the end of the vehicle design section can be applied to all Chassis types.

SPACES

Spaces indicate the usable internal volume of a vehicle. Items like engines, transmission and fuel are part of the chassis. For this reason, vehicles do not necessarily equate across chassis types. A 20 Space boat, for instance, at TL 4, has a speed of 40 kilometres per hour and a range of 200 kilometres. A 20 Space ship at the same Tech Level has a speed of 20 kilometres per hour but a range of 1,000 kilometres.

THE DESIGN CHECKLIST

Follow these steps to create a new vehicle.

Step 1: Choose a Chassis Type

Select a Chassis type from the next few pages as the basis of your vehicle, then use the Performance table to give Tech Levelbased performance values. Most of these can be changed in the Modifications step.

Once a Chassis type and size is chosen, calculate all the other chassis-based values, like Hull and Structure and note the performance numbers for that hull at that Tech Level. These are the base values for that Chassis.

Step 2: Chassis Modifications

Apply Chassis-based modifications. Each Chassis section provides specific modifications. Any of these should be applied now. Whether or not a vehicle is an Armoured Fighting Vehicle (AFV) should be determined at this time.

Once this is complete, you can now calculate the vehicle's Base Cost.

Step 3: Add Armour

Add any additional armour to the vehicle. Note that all vehicles start with a Base Armour Rating according to their Tech Level. See p31.

Step 4: Weapons and Weapon Mounts

If the vehicle is to be armed, choose your weapons at this point. See p33.

Step 5: Add Modifications

Note that the Base Cost for this step is what was determined at the end of Step 2. Weapon and Armour cost is *not* part of the Base Cost.

Step 6

Fill in a vehicle roster and get ready for play!



This chapter introduces a few new rulesto be used in conjunction with the new design system. In all cases, unless superseded here, all the vehicle rules provided in the *Traveller Core Rulebook* are used as normal.

The Vehicle Roster

Vehicles created with this book's design system are presented in the following format.

Vehicle TL	Skill	Agility	Speed	Range	Crew /	Cargo	Open?	Hull	Structure	Cost	Shipping
					Passengers						Size

Armour								
Location	Armour	We	apon	Location	Damage	Range	Auto	Ammo
Front	—			—		—	—	—
Right	_							
Left	_	Oth	er Equi	ipment/Mod	ifications:			
Rear	_							
Тор	_							
Bottom	_							
Turret Front	_							

Not all vehicles will need every entry filled (many civilian vehicles have the same armour all round their chassis, for example). Each entry is explained here;

Vehicle: The name of the vehicle.

Turret Side/Rear

TL: The Tech Level the vehicle was built under.

Skill: This is the skill required to operate the vehicle.

Speed: The Movement rate of the vehicle.

Range: How far a vehicle can, under normal circumstances, travel before needing to refuel.

Crew/Passengers: How many crew are required to operate the vehicle, followed by how many passengers can be carried on board.

Cargo: How much space is left over to carry cargo (metric tons).

Open?: Whether the crew and passengers are open to the elements or enclosed.

Hull: As the normal *Traveller* rules.

Structure: As the normal *Traveller* rules.

Agility: As the normal Traveller rules.

Shipping Size: The amount of cargo space carrying this vehicle would consume on board a starship.

New Skill Specialities

It is possible to create a huge range of vehicles with this book and so a few new specialities for the Drive and Flyer skills will be useful. They may be selected any time a character receives the Drive skill as normal. **Drive (hovercraft):** This is the skill of operating hovercraft, which behave much differently than conventional vehicles on most surfaces.

Drive (walker): Although usually computer-controlled, walking vehicles require a different set of skills to any other land vehicle. This covers the use of two, four or even eight-legged walkers.

Flyer (airship): This is the skill of piloting balloons and airships, of any sort.

Structure and Hull

Structure and Hull scores are derived from the number of Spaces the vehicle has and its Chassis type.

When calculating Structure and Hull Values, always round Structure up and Hull down.

So, for example, a 14 Space grav vehicle, which has one point of Structure and Hull per three Spaces, would have a Structure of 5, (14/3 = 4.667, round up) and a Hull of 4 (14/3 = 4.667, round down).

Crew Sizes

Non-powered vehicles have crew requirements based on Str, along with a few other factors (see the opposite table).

Wagon/Rickshaw

Any wagon or rickshaw requires a crew of 1.

Sailboats

Sailboats require a fairly large crew. Subtract the Tech Level of the sailboat from 10 (minimum 1). Ships with less than 10 Spaces require half this amount. Ships with 10 or more Spaces require this amount for every 20 Spaces or part of.

So, for example, a Tech Level 3, 100 Space sailboat requires (10 - TL 3 = 7) 7 crew for every 20 Spaces of Hull or 35 crew. In contrast, a Tech Level 15 sailboat requires (10 - TL 15 but with a minimum of 1) 1 crew per 20 Spaces. This 100 Space sailboat requires a crew of 5.

Powered Vehicles

Light vehicles never require more than a crew of one, although military vehicles may carry more.

Heavy vehicles require crew based on type and function. A heavy ground vehicle only requires a crew of one. A heavy ground AFV, however, may require a driver, a gunner and up to two or three more crew, usually depending on weaponry installed.

Vehicle Movement

The listed Movement rate for any ground vehicle is its on-road Movement.

If a ground vehicle goes off-road, it suffers a -2 DM to Agility, Movement rate is reduced to 25% of normal and rough terrain cannot be crossed.

A vehicle that is off-road capable does not suffer the -2 DM to Agility and the Movement rate is not reduced. It can cross rough terrain with a -2 DM to Agility.

Rough terrain comprises heavy forest, very broken ground, rock faces with between 20% to 50% slopes and similar terrain.

Speed

The Speed score of vehicles created with this book will denote the maximum speed at which the vehicle can normally travel.

Common Animals

Fowered vehicles		
Chassis Type	Civilian Crew	Military Crew
Light Ground	1	1
Heavy Ground	1	2 + 1 per main weapon
Light Hover	1	1
Heavy Hover	3	2 + 1 per main weapon
Light Grav	1	1
Heavy Grav	1	2 + 1 per main weapon
Airship	3	4
Light Helicopter	1	1
Heavy Helicopter	2	2 + 1 per main weapon
Light Airplane	1	1
Heavy Airplane	2	2 + 1 per main weapon
Light Aerodyne	1	1
Heavy Aerodyne	2	2 + 1 per main weapon
Light Jet	1	1
Heavy Jet	2	2 + 1 per main weapon
Boat	1	2
Light Ship	5	20 + 5 per main weapon
Heavy Ship	20	40 + 5 per main weapon
Train (any)	2	4 + 1 per weapon

Range will show the distance they can travel while at this maximum speed.

However, most vehicles will not travel permanently at this speed and will instead cruise to maintain a better balance of speed and endurance. The cruising speed of a vehicle is assumed to be 75% of the vehicle's Speed and if it maintains this rate of Movement, its Range will increase by 50%.

Animal-powered Vehicles

An animal-powered vehicle requires an amount of Strength (Str) per Space, as detailed in the relevant Chassis section, to move at the animal's base walking speed. The Str requirement is lower at higher Tech Levels as lighter but stronger materials are used.

However, the vehicle cannot go faster than the maximum speed of the animals pulling it. The listed End value for each animal is how long, in minutes, it can run at the maximum speed.

Animal	Str	Speed Walk/Run (kilometres per hour)	End	Notes
Horse	10 (20)	7 / 28	12	Common in Solomani Space, less so elsewhere
Mule	11 (22)	6 / 24	14	Same as above
Ox	18 (54)	5 / 20	18	Widespread on primitive worlds Rimward
Poni	20 (60)	10 / 40	20	Common in former Vilani space
Miniphant	25 (50)	5 /20	12	Common throughout the Solomani Rim and neighbouring sectors
Elephant	30 (120)	4 / 16	20	Rare in Solomani space, virtually unheard of elsewhere
Bandersnatch	35 (140)	6 / 24	30	Rare in the Core sectors, unheard of anywhere else

New Vehicle Rules

Gait	Speed Modifier	Range
Walk	Walk x 1	Endurance x 30 minutes
Trot	Walk x 2	Endurance x 15 minutes
Canter	Walk x 3	Endurance x 2 minutes
Run	Walk x 4	Endurance x 1 Minutes

Larger animals modify their Str rating based on their size. A horse or miniphant doubles its effective Str for the purposes of powering a vehicle, while an ox or poni triples it and a full-sized elephant or bandersnatch would quadruple its effective Str rating.

For each point of Str less than what is required, Speed and Range decrease by 10%. There is no lower limit and Speed can be reduced to 0 so the vehicle cannot move at all.

So, for example, a TL 3 10-space wagon requires a total of 60 points of Str to move at the animals' base speed. This would require a team of three horses (60/20, = 3) to walk at 7 kilometres per hour. Alternatively, one poni could be used just as effectively and would walk at 10 kilometres per hour. That same team of three horses could move at 14 kilometres per hour for 3 ½ hours or up to 28 kilometres per hour for 12 minutes.

Wind-powered Vehicles

Wind-powered vehicles have a maximum Speed set as a percentage of the current wind speed, modified by Tech Level, vehicle size and sailing medium (ground, air, sea). Sailboats are limited by their hull size, with bigger ships able to go faster. Wave skimmers and planning hulls are capable of going faster yet again and this is assumed to be present in higher Tech Level designs.

TL	Speed (Small vehicles)	Speed(Large Vehicles)
0–1	20% of wind	30% of wind
2–3	25% of wind	35% of wind
4–5	30% of wind	40% of wind
6–7	35% of wind	45% of wind
8–9	45% of wind	55% of wind
10–11	55% of wind	65% of wind
12+	65% of wind	75% of wind

The Speed listed is for the default sailing medium – water (or similar fluids).

Ground-based sailing vehicles use this Speed for small vehicles but reduce it by 15% for large vehicles. Air-based sailing vehicles increase the Speed of small vehicles by +15% and large vehicles by +10%.

When adding the Increased Speed modification (see Page 35), each 10% of Speed increase adds +10% to the scores on this table.

Aircraft

All aircraft are designed for a specific atmosphere and planetary gravity. In game terms, this means that aircraft can only work properly for world size and atmosphere type UWP codes within 1 of their homeworld.

For example, an aircraft designed on a world with UWP of C772777-9 could function properly on a world with atmosphere codes of 6-8 and size codes of 6-8.

It is possible to build an aircraft with a wider operational range, (see page 35) but it will be more expensive and less manoeuvrable.

Aircraft operating outside of their design codes suffer a - 1 to Agility if they are within 1 of their home UWP codes for atmosphere and/or size and cannot fly at all if they are operating beyond this, unless they are designed with a wider operation range.

In any case, all aircraft require a minimum atmosphere code of 1 in order to function. Aircraft descriptions should include the world size and atmosphere codes.

Mounted Weapons

Vehicular weapons have ranges vastly longer than man-portable weapons and these increased range bands reflect that fact.

Range Band	Distance
Distant	501–5,000 metres
Very Distant	5,001–25,000 metres
Extreme	25,001–50,000 metres
Continental	50–500 kilometres
Orbital	501+ kilometres

The ability of a vehicle-mounted weapon to hit a target is dependent on range, movement, stabilisation and fire control. Stabilisation and Fire Control are dealt with on a Tech Levelbased Weapon Range Chart. This DM is in addition to any gained from the actual weapon or circumstances.

Sensors, Stealth and Electronic Warfare

Sensors have a listed range, much like weapons. This is the maximum effective range of the sensor system. Use the DMs from the Vehicle-Mounted Weapons table, to determine rangebased DMs for spotting a target using the Sensors skill. Like weapons, this is Tech Level dependent.

There are additional DMs for the target size, as noted in the following table.

New Vehicle Rules

Size vs. Sensors						
Hull Rating	Size DM					
1–10	+0					
11–25	+1					
25–50	+2					
51–150	+3					
151+	+4					

Sensors, stealth and electronic warfare, more than any other system, are defined by Tech Level. The difference in Tech Level between vehicles is used as a negative or positive DM for Sensors checks and rolls related to electronic warfare.

For example, a Tech Level 11 aircraft with +3 Stealth is trying to infiltrate a rebel landing zone. The rebels are Tech Level 14 and are using Good (+1) Sensors. The Tech Level difference of 3 gives the rebels another +3 DM on their Sensors check, completely negating the bonus from the aircraft's Stealth. The rebels thus have a +1 DM to detect the invading aircraft.

Vehicle Size and Layout

All vehicles created by the rules in this book have a Shipping Size score, which is the amount of space they take up on a starship. This is not their actual size but an approximation of the room they require, taking into account factors such as wings, rotors and waste space around hulls. Think of it as an invisible box drawn around the vehicle.

If deck plans of vehicles are desired, there are a couple of things to keep in mind. Spaces in a vehicle represent the inhabited

and/or optional parts of a vehicle. They do not include room for the engine, fuel or transmission.

For vehicles other than heavy ships and heavy submarines, these parts are roughly one quarter of the volume of the remainder of the vehicle. For heavy ships and heavy submarines, this volume is approximately one half to three quarters of the volume of the inhabited parts of the ship. So a 200 Space heavy ship would have engine and fuel requirements in the region of an additional 100 to 150 Spaces.

For the purpose of making deck plans, one Space is very roughly equal to one and a half metre squared. Note that the deck-to-deck height would be closer to two metres or even less, as opposed to the three metres of a typical starship deck plan.

Vehicle Hit Locations

When using the armour allocation rule (see page 30), there is a need to determine where on a vehicle a successful hit will strike.

Non-turreted vehicles

For vehicles with a turret, incoming fire hits the targeted side.

Turreted vehicles

If a vehicle has small turrets, incoming fire will hit the targeted side on a roll of 1-5 and the turret on a 6.

If a vehicle has large turrets, incoming fire will hit the targeted side on a roll of 1-4 and the turret on a 5-6.

Ring Mounts and Pintle Mounts

If a vehicle has ring and/or pintle mounts with gun shields, treat them as small turrets.

Vehicle-Mounted Weapons

TL	Personal	Close	Short	Medium	Long	Very Long	Distant	V. Distant	Extreme	Continental	Orbital
4 or less	Not Possible	-2	0	0	-2	-4	-6	Out of Range	Out of Range	Out of Range	Out of Range
5–6	Not Possible	-2	0	0	0	-2	-4	-6	Out of Range	Out of Range	Out of Range
7–8	Not Possible	-2	0	0	0	0	-2	-4	-6	Out of Range	Out of Range
9–10	Not Possible	-2	0	0	0	0	0	-2	-4	-6	Out of Range
11–12	Not Possible	-2	0	0	0	0	0	0	-2	-4	6
13–14	Not Possible	-2	0	0	0	0	0	0	0	-2	-4
15 or more	Not Possible	-2	0	0	0	0	0	0	0	0	-2

New Vehicle Rules

Vehicle Mass

This design system does not deal with mass. Mass is effectively built-in to the system as it relates to vehicle performance. However, there may be some situations where the mass of a vehicle is important. In such cases, use the following rule of thumb.

A Hull score of 1 is roughly equal to 500 kilograms, so a vehicle with Hull 4 would mass 2,000 kilograms. AFVs double this value. Balloons and airships instead use a value of 50 kilograms per Hull number. Ships use a value of 2,000 kilograms per Hull point, while submersible use a value of up to 4,000 kilograms per Hull point.

Open Vehicles weigh half this amount and those with the Open Frame modification only 10% of this amount.

Armour will add another 200-500 kilograms per point, depending on Tech Level; 500 kilograms at TL 2, 450 kilograms at TL 4, 400 kilograms at TL 6, 350 kilograms at TL 8, 300 kilograms at TL10, 250 kilograms at TL 12 and 200 kilograms at TL 14.

Weapons mass around 100 kilograms per Space.

Each passenger adds another 100 kilograms.

So, for example, a G-Carrier, with Hull 10, masses a base 5 tons. This is doubled because it is an AFV, to 10 tons. 40 points of armour at TL 14 adds another 8 tons and 4 Spaces of

weapons adds another 400 kilograms. A total of 10 passengers and crew adds 800 kilograms. The G-Carrier's total mass is therefore 19.2 tons.

However, these are just guidelines and can be adjusted as needed to achieve the effect desired.

Modifications

When applying modifications to a vehicle, you will be asked to use prices based upon the Base Cost. Note that the Base Cost itself *never* changes, even if you have added a modification!

For example, a large tracked AFV with 100 Spaces would have a Base Cost of Cr. 300,000.

100% of this Base Cost is added for being an AFV (so, another Cr. 300,000 for a total of Cr. 600,000).

We then want to make it tracked, which adds 100% of the Base Cost – this will be 100% of the original Cr. 300,000, not the current total of Cr. 600,000.

So, tracks will cost another Cr. 300,000, for a grand total of Cr. 900,000.

Note that Modifications that decrease the cost of a vehicle cannot lower it below 25% of the Base Cost.



CHASSIS TYPE: BICYCLE, RICKSHAW, WAGON AND CART

These vehicles are either animal (or human!) powered, although some rare or unusual types can be wind-powered instead. Use the rules on page 5 to calculate the Speed of these vehicles, whether they use animals or wind for propulsion.

The maximum possible Speed listed by Tech Level can be increased using the normal modification rules but the *actual* speed depends on the animals doing the pulling. Going over the maximum Speed for the vehicle will result in damage to the vehicle, at the rate of one Structure Point per minute.

Bicycles and Rickshaws

At base Str, the Speed of a bicycle or a rickshaw is equal to twice the walking speed of the character peddling the machine. Athletics (co-ordination) can be used to go faster, travelling at twice the Speed a character would move when sprinting (see page 52 of the *Traveller Core Rulebook*).

Str Required

Tech Level	Str/Space	Maximum Speed (kilometres per hour)
5	6	20
6–8	5	50
9–11	4	100
12+	3	150

Bicycle & Rickshaw Construction

Skill	Drive (wheeled)
Number of Spaces	1–5
Cost per Space	200
Structure	1 per 5 Spaces
Hull	1 per 4 Spaces
Agility	-1
Tech Level	1
Shipping Size	1/10 ton per Space

Wagons and Carts

Carts (1–4 spaces), typically have two wheels, while larger wagons will have four. The Speed of a cart or wagon is calculated using the rules on page 5.

Str Required

Tech Level	Str/Space	Maximum Speed
1–3	6	10
4–6	5	20
7+	4	30

Wagon & Cart Construction

5	
Skill	Animals (riding)
Number of Spaces	1–20
Cost per Space	200
Structure	1 per 5 Spaces
Hull	1 per 4 Spaces
Agility	-1
Tech Level	1
Shipping Size	1/2 ton per Space

Rail Wheels (TL3)

Human and animal-powered vehicles can also be designed to run on rails rather than roads. This reduces the Str requirement for the vehicle by 50%, although the cost remains the same. A vehicle designed for use on rails cannot be used on roads and vice versa.

See page 16 for the cost of constructing rails.

CHASSIS TYPE: NON-POWERED BOAT

AND SHIP

Boats and ships ply the waves of most oceans and provide lower tech worlds with the means to travel great distances using man or windpower.

Boats

These include small non-powered boats such as rowboats and canoes.

Str Required (rowing only)

Tech Level	Str/Space
0–1	5
2–4 5–7	5
5–7	4
8–11 12+	4
12+	3

Boat Construction

Skill	Seafarer (sail)
Number of Spaces	1–10
Cost per Space	200
Structure	1 per 6 Spaces
Hull	1 per 6 Spaces
Agility	-1
Tech Level	0
Shipping Size	1/2 ton per Space

Modifications

The following modifications are available for boats.

Outboard Motor (TL 3)

At higher Tech Levels, more advanced propulsion can be added, in the form of small outboard motors. These have a speed of 10 kilometres per hour, a range of 100 kilometres and cost Cr. 100 per space.

Ships

This is usually a sailing ship, capable of making long ocean voyages. At early Tech Levels, however, they usually stay in sight land.

Examples: Viking long boat, medieval carrack, modern sailing yacht.

Str Required (rowing only)

Tech Level	Str/Space
1–2	5
3–4 5–6 7–8 9–10	5
5–6	4
7–8	4
9–10	3
11+	3

Ship Construction

Skill	Seafarer (sail)	
Number of Spaces	10–500	
Cost per Space	5,000	
Structure	1 per 5 Spaces	
Hull	1 per 4 Spaces	
Agility	-2	
Tech Level	1	
Shipping Size	1/2 ton per Space	



Ship Design Example

The inhabitants of the primitive water world of Finnegan's Folly regularly raid each other for food and other resources. They use the trunks of kelp trees to manufacture their ships and their floating towns.

Folly has a Tech Level of 2. A typical raider has 200 Spaces, which will require a combined Str of 1,000 to row it at a base speed of five kilometres per hour. The men and women who crew these ships have a minimum Str of 8, having been tested in a series of competitions that decide who will have the honour of taking part in each raiding season.

The required Str of 1,000 and average crew Str of 8, means the raider will require (1,000 / 8) 125 crew.

125 crew take up 125 Spaces, leaving 75 Spaces for cargo (loot), weapons and supplies for their journey.

The 200 Space TL 2 hull will have a base Armour of 1 (see page 29), a Hull of (200 / 4) 50 and Structure of (200 / 5) 40. Rowing Speed is 5 kilometres per hour, while Speed under sail would be equal to 35% of the prevailing wind. Cost is Mcr. 2.

CHASSIS TYPE: BALLOON

Like a sailing ship, the speed of a balloon is dependent on wind speed. Unlike a ship, although, they have no ability to tack against the wind or really do much at all to alter their course.

Balloon Construction

Skill	Flyer (airship)
Number of Spaces	1–6
Cost per Space	200
Structure	1 per 5 Spaces
Hull	1 per 5 Spaces
Structure (Envelope)	1 per Space
Agility	-2
Tech Level	3
Shipping Size	1/10 ton per Space

Speed

Tech Level	Speed as % of wind speed
3–5	30%
6–8	50%
9+	80%

Duration

Hydrogen and helium ballons can stay aloft almost indefinitely. Hotair balloons have a duration equal to their Tech Level x 2 hours.

Balloon Envelopes

Envelope Structure measures the amount of damage the lift envelope can sustain before losing integrity. All non-explosive weapons inflict just one point of damage to the envelope for each hit. Automatic weapons inflict damage equal to their Auto Rating.

Envelope Size

The lift envelope of a balloon is enormous. Envelope size is a function of world size, world atmosphere and number of Spaces of the airship.

Multiply world size by number of Spaces and then multiply by 200 for Very Thin atmospheres, 50 for Thin atmospheres, 20 for Standard atmospheres and 10 for Dense atmospheres. This is the size of the lift envelope in displacement tons. Hot air balloons must multiply this size by 2.

For example, a 4 Space hot air balloon on a Size 8 world with a Standard atmosphere would require an envelope of $(4 \times 8 \times 20 \times 2)$ 1,280 displacement tons. The lift envelope is approximately 16 m across

In order to transport an airship, the envelope can be drained and deflated. This reduces its size to only 1% of the inflated size. The envelope in the example above would be 160 tons deflated.

Envelope Size: The envelope of a balloon is calculated in much the same way as the volume of an airship envelope.

CHASSIS TYPE: LIGHT GROUND

VEHICLE

Light ground vehicles are commonly found in individual transportation roles, like family cars. They are extremely common on most industrialised worlds until inexpensive grav vehicles render them obsolete.

Examples: Motorcycles, cars, personal ATVs, pickup trucks.

Light Ground Vehicle Construction

Skill	Drive (wheeled)
Number of Spaces	1–20
Cost per Space	1,200
Structure	1 per 2 Spaces
Hull	1 per 2 Spaces
Agility	0
Tech Level	4
Shipping Size	1/2 ton per Space

Speed and Range

	0		
Tech Level	Speed	Range	
4	50	100	
5–6	100	200	
7–8	160	400	
9–10	200	500	
11+	250	600	

A basic TL 5 ground car would have 5 Spaces: 1 Driver, 3 passengers, 1 remaining Space for cargo.

Base Cost is then Cr. 6,000, with a top speed of 100 kilometres per hour, a range of 200 kilometres, Armour 2, Structure 3 Hull 2 and Agility 0. It would displace 2.5 tons on a starship. All further options would be based off of these starting scores.

Motorcycles

Motorcycles have 1–3 Spaces and two or three wheels. Cost per space is doubled and Agility is +1. Speed is increased by 50%. Motorcycles are Open Frame vehicles with Armour 0, although they can be enclosed at a cost of 25% of the Base Cost. An enclosed motorcycle can be armoured to twice its Base Armour Rating (see page 29).

A basic TL 8 two-person motorcycle would be 2 Spaces and cost Cr. 4,800. It would have Hull 1, Structure 1, Speed 180 kilometres per hour, Agility 1, with a Range of 300 kilometres.

Monowheel (TL 9)

A monowheel would cost four times normal, with a maximum of two spaces. Speed is doubled and Agility is +2 on roads. Off-road Agility is -2. Monowheels are always Open Frame and cannot be enclosed.

Modifications

The following modifications are available for light ground vehicles.

Wheels

Unless otherwise specified, all ground vehicles start with four wheels. Additional wheels are required for larger vehicles and can also be added to improve cross-country mobility. Each additional pair of wheels costs 25% of the vehicle's Base Cost. Each set of additional wheel after the minimum reduces any terrain-based Agility penalties by one. This cannot be used to provide a bonus, only negate a penalty.

Hull	Minimum Number of Wheels
1	2 (1 at TL 9)
2–30	4

Tracks

Any ground vehicle with at least two wheels can be equipped with tracks instead. This increases cross-country mobility at the expense of road speed, cost and complexity. Adding tracks costs 100% of the vehicle's Base Cost, halves Speed and changes the required skill to Drive (tracked). Tracks grant a +3 DM for Drive checks when off-road.

Off-road Capability

Any ground vehicle can be purpose designed for off-road use. This modification costs 50% of the Base Cost and Speed is lowered by 10%.

Towing Limits

All ground vehicles can be equipped for towing. Towing reduces Agility by Two for light ground vehicles. It is possible to take this modification more than once. A light ground vehicle has a penalty of -25% to its Speed every time it is taken.

Towing Capacity	Spaces *
1,000 kilograms	5

* This is the Spaces available in the trailer being towed, not how many Spaces are used in the vehicle.

Railed

Ground vehicles can be designed to run on rails, either as an addition to their normal road movement or instead of it. As a modification, the ability to perform rail travel takes 1 Space and costs 50% of the Base Cost. This allows rail travel at 75% of the vehicle's Speed. If the vehicle is designed to run on rails only, it take no Spaces and costs 25% of the Base Cost. A rail-only vehicle adds 50% to its Speed.

So, for example, a ground car that can normally do 200 kilometres per hour, if designed as a rail-only vehicle, can instead travel at 300 kilometres per hour.

They can also be designed to operate on air film tracks, which requires 1 Space and costs 100% of the Base Cost. This doubles the vehicle's Speed.

A maglev version would require 2 Spaces and costs 200% of the Base Cost. This triples the vehicle's Speed.

Finally, the vehicle can be designed to ride a grav rail. This requires 3 Spaces and costs 300% of the Base Cost. This multiples the vehicle's Speed by four.

Airfilm, maglev and grav rail systems have to be the only propulsion system on a Light Ground Vehicle and cannot be used as add-ons.



CHASSIS TYPE: HEAVY GROUND

Vehicle

Heavy ground vehicles are a common sight in mid-Tech Level regions, where they fill the role of both short- and long-range heavy transportation. Most large vehicles have four wheels but six or even eight wheeled designs are common as the size of the vehicle increases.

Examples: Trucks, Earthmovers, APCs, Tanks.

Heavy Ground Vehicle Construction

Skill	Drive (wheeled)
Number of Spaces	20–200
Cost per Space	3,000
Structure	1 per 2 Spaces
Hull	1 per 2 Spaces
Agility	-1
Tech Level	4
Shipping Size	1/2 ton per Space

Speed and Range

1	5	
Tech Level	Speed	Range
4	50	200
5–6	100	300
7–8	125	400
9–10	150	500
11+	175	600

Modifications

The following modifications are available for heavy ground vehicles.

Wheels

Unless otherwise specified, all ground vehicles start with four wheels. Additional wheels are required for larger vehicles and can also be added to improve cross-country mobility. Each additional pair of wheels costs 25% of the vehicle's Base Cost. Each set of additional wheel after the minimum reduces any terrain-based Agility penalties by one. This cannot be used to provide a bonus, only negate a penalty.

Hull	Minimum Number of Wheels
1	2 (1 at TL 9)
2–30	4
31–50	6
51+	8

So, for example, an 80 Space vehicle (Hull 40) with a Base Cost of Cr. 240,000, would require a minimum of six wheels. This would add another Cr. 60,000, bringing the total cost to Cr. 300,000.

Tracks

Any ground vehicle with at least two wheels can be equipped with tracks instead. This increases cross-country mobility at the expense of road speed, cost and complexity. Adding tracks costs 100% of the vehicle's Base Cost, halves Speed and changes the required skill to Drive (tracked). Tracks grant a +3 DM for Drive checks when off-road.

AFV (Armoured Fighting Vehicle)

A heavy ground vehicle may be designated an AFV. This costs 100% of the Base Cost and reduces the vehicle's Spaces by 10% (round up). AFVs use modified rules for armour (see page 29). In addition, an AFV automatically has the Off-road Capability modification.

So, for example, a large tracked AFV with 100 Spaces would have a Base Cost of Cr. 300,000, adding 100% of this for being an AFV and another 100% for being tracked, giving a base cost of Cr. 900,000. It would have a Speed of 50 kilometres per hour, lose 10 Spaces for being an AFV and have a range of 300 kilometres.

Off-road Capability

Any ground vehicle can be purpose designed for off-road use. This modification costs 50% of the Base Cost and Speed is lowered by 10%.

Towing Limits

All ground vehicles can be equipped for towing. Towing reduces Agility by 1 for heavy ground vehicles. It is possible to take this modification more than once. A heavy vehicle has a penalty of -10% to its Speed every time it is taken, to a maximum of -70%. Each additional selection of the towing option doubles the towing capacity, including the approximate number of Space in the trailer and increases the Base Price of the vehicle by 10%. Note that the Towing modification used no Spaces; the Spaces noted below is approximately how much the vehicle can tow.

All ground vehicles can be equipped for towing. Towing reduces Agility by one for heavy ground vehicles. It is possible to take this modification more than once. A light ground vehicle has a penalty of -10% to its Speed every time it is taken, to a maximum of -70%. Each additional selection of the towing option after the first doubles the Towing Capacity, including the approximate number of Spaces in the trailer and costs 10% of the Base Cost.

Towing Capacity	Spaces *
2,000 kilograms	10

* This is the Spaces available in the trailer being towed, not how many Spaces are used in the vehicle.

CHASSIS TYPES

For example, a heavy vehicle has a base towing capacity of 2,000kg. Selecting the towing option once doubles this to 4,000 kilograms and 20 Spaces and costs 10% of the Base Cost. Selecting it again doubles it again, to 8,000kg and 40 Spaces, costing 20% of the Base Cost. A third selection of the towing option will double that total again, to 16,000kg and 80 Spaces and cost 30% of the Base Cost.

Tunnelling Machines

Any heavy tracked vehicle can be made a tunnelling machine. This costs Cr. 25,000 per Space of vehicle and changes the skill required to Drive (mole). It allows movement through solid earth of TL x 10 metres per hour. Speed through dense rock is only TL x 1 metres per hour.

Railed

Ground vehicles can be designed to run on rails, either as an addition to their normal road movement or instead of it. As a modification, the ability to perform rail travel takes 2 Spaces and costs 50% of the Base Cost. This allows rail travel at 75% of the vehicle's Speed. If the vehicle is designed to run on rails only, it take no Spaces and costs 25% of the Base Cost. A rail-only vehicle adds 25% to its Speed.

So, for example, a truck that can normally do 100 kilometres per hour, if designed as a rail-only vehicle, can instead travel at 125 kilometres per hour.

They can also be designed to operate on air film tracks, which requires 3 Spaces and costs 100% of the Base Cost. This doubles the vehicle's Speed.

A maglev version would require 4 Spaces and costs 200% of the Base Cost. This triples the vehicle's Speed.

Finally, the vehicle can be designed to ride a grav rail. This requires 5 Spaces and costs 300% of the Base Cost. This multiples the vehicle's Speed by four.

Airfilm, maglev and grav rail systems have to be the only propulsion system on a Heavy Ground Vehicle and cannot be used as add-ons.



CHASSIS TYPE: TRAIN

Running along fixed tracks, trains have little freedom of movement but are capable of carrying great loads over long distances at fast speeds. In societies where personal transport is rare, they can be a lifeline but even more advanced civilisations have need for a rail network.

Trains are rated by the number of Spaces they can pull behind them, typically in multiple cars. The locomotive itself is mostly engine and transmission and so only has a few internal Spaces.

A normal locomotive typically has four internal Spaces to accommodate its crew but that number can be increased. Only a small part of a locomotive is available internal space. The remainder is taken up with the enormous engines, transmissions and other equipment.

These rules are intended to create heavy locomotives, yard engines and similar type vehicles. They are not intended for smaller tram cars or Light Rail systems where every car is powered. These are more appropriately designed using the Ground Vehicle system, with the Rail Option and the External Power Universal Option.

The number of Spaces that can be pulled by a single engine is limited by Tech Level and so many trains will also have more than one locomotive. When designing the train, allocate Spaces to the locomotive as desired, although four is standard.

Locomotive Construction

Skill	Drive (wheeled)
Number of Spaces	34-4,500
Cost per Space	Cr4000 per Space Pulled
Structure	1 per 10 Spaces Pulled
Hull	1 per 10 Spaces Pulled
Agility	-4
Tech Level	3
Shipping Size	1 ton per 10 Spaces Pulled

The engine itself can have up to 30 Spaces, which is taken from the total being pulled.

Engines can have any applicable vehicle modification.

Speed and Range

Tech Level	Speed	Range	Max. Spaces
3	40	200	600
4–5	80	400	1,200
6–7	120	600	2,400
8–9	140	800	3,600
10+	160	1,000	4,500

Range Increases

Increased range for trains usually comes in the form of extra fuel, which can be stored in towed rail cars. Each doubling of range requires an extra 30 Spaces dedicated to fuel storage. Fuel cars cost the same as train cars, below.

Train Cars

Train cars can be any size but are usually between 20 and 40 Spaces. Cars cost Cr2,000 per space. Any applicable vehicle modification can be added to train cars, like life support, hostile environment protection, armour and weapons. Cargo cars can be designed with Open Cargo Beds.

Airfilm Train (TL 9)

First available at TL 9, the airfilm train uses a high-pressure cushion of air to achieve very high loads on its monorail track. It is unable to handle steep gradients, however. Power is obtained from a turbine or compact fusion plant on the locomotive, which feeds high pressure air to the attached cars. Airfilm cars have to be enclosed.

Airfilm trains are faster than conventional trains but pull fewer cars. Double Speed and halve the number of Spaces. Cost is 50% higher for the locomotive and 100% higher for the cars.

MagLev Train (TL 8)

The maglev train uses electromagnets to support the train above its monorail track. Power is provided by induction via the track and so range is effectively unlimited. Due to the speed of a maglev, the cars have to be enclosed.

Maglev trains are faster than conventional trains and they triple Speed. Range, however, is unlimited so long as the monorail can continue to supply power. Cost is 100% higher for the locomotive and 100% higher for the cars.

Grav Rail Train (TL 13)

Grav rail uses weak grav modules to support the train at high speed along the power and guide rail. At high Tech Levels, the grav train floats clear of the rail, supported and guided by repulsors along its length. The front and rear cars, generally labelled 'the locomotives' have both gravitic lift and thrust, while the intervening cars have only lift modules. Power is supplied via the rail for effectively unlimited range.

Grav rail trains are faster than any other train type and can pull as many cars as a conventional engine. Multiply Speed by five. Range is unlimited so long as the monorail can continue to supply power. Cost is three times higher for the locomotive and double the price for the cars.

Track Costs

Conventional train track costs Cr. 100,000 per kilometre on flat, open land. In heavy, mountainous terrain it can rise up to MCr. 1 per kilometre.

Airfilm track is twice this cost.

Maglev and Grav Rail track is three times this cost.

Light Duty Rails (TL 2)

These rails are designed to support the relatively light loading common in muscle-powered rail systems. That cannot support the weight of conventional powered locomotives and rail cars. They can also support Light Ground Vehicles but not Heavy vehicles. These rails cost Cr. 5,000 per 100 metres.

Modifications

The following modifications are available for trains.

Additional Spaces

Locomotives can add space, at a cost of 10% of the Base Cost per added Space. Up to 4 Spaces can be added this way.

Subways

Subways are simply conventional trains operating underground. Track cost is MCr. 1 extra per kilometre.

Tube Trains

Tube trains are airfilm, maglev or grav rail trains that travel underground in excavated tunnels. The trains and cars must have the Vacuum Environment Protection and Life Support modifications. The tunnels cost MCr. 10 extra per kilometre and are only available at TL 12 and higher. Speed is multiplied by 10, however.

CHASSIS TYPE: LIGHT HOVERCRAFT

Hovercraft generate a cushion of air, which allows the vehicle to move easily over most terrain.

Examples: Hover Bike, Hover jeep.

Light Hovercraft Construction

5	
Skill	Drive (hover)
Number of Spaces	1–10
Cost per Space	20,000
Structure	1 per 4 Spaces
Hull	1 per 4 Spaces
Agility	+1
Tech Level	5
Shipping Size	1/2 ton per Space

Range and Speed

- J		
Tech Level	Speed	Range
5	100	300
6–7	150	400
8–9	200	500
10–11	250	600
12+	300	700

Modifications

The following modifications are available for light hovercraft.

Jump Jets

Hovercraft can be equipped with jump jets, which adds a boost to the lift fans, greatly increasing lift at the expense of fuel consumption and range. Jump jets are used for crossing



CHASSIS TYPES

obstacles but can be used to allow the hovercraft to fly, albeit no higher than 100 metres. Operating the hovercraft in this way would require Flyer (aerodyne), rather than Drive (hovercraft). Just using it to cross small obstacles, less than five metres tall, only requires the Drive (hovercraft) skill. Jump jets cost 50% of the Base Cost and each 100 metres travelled in jump jet mode uses 500 metres (0.5 kilometres) of range, with Speed reduced to 25% of normal.

CHASSIS TYPE: HEAVY HOVERCRAFT

Hovercraft generate a cushion of air, which allows the vehicle to move easily over most terrain. These larger designs are capable of carrying large loads over both water and land.

Examples: Marine hovercraft, military hovercraft, hover tank.

Heavy Hovercraft Construction

Skill	Drive (hover)
Number of Spaces	10–400
Cost per Space	40,000
Structure	1 per 3 Spaces
Hull	1 per 3 Spaces
Agility	+1
Tech Level	5
Shipping Size	1/2 ton per Space

Range and Speed

5 1			
Tech Level	Speed	Range	
5	100	600	
6–7	150	800	
8–9	200	1,000	
10–11	250	1,200	
12+	300	1,400	
10–11	200 250	1,000 1,200	

Modifications

The following modifications are available for heavy hovercraft.

AFV (Armoured Fighting Vehicle)

Large hover vehicles may be designated as AFVs at time of construction. This doubles the Base Cost and complexity and takes up 10% (round up) of the vehicle's Spaces. Range and Speed are reduced by 25%. AFVs use modified rules for armour (see page 29).

Jump Jets

Hovercraft can be equipped with jump jets, which adds a boost to the lift fans, greatly increasing lift at the expense of fuel consumption and range. Jump jets are used for crossing obstacles but can be used to allow the hovercraft to fly, albeit no higher than 100 metres. Operating the hovercraft in this way would require Flyer (aerodyne), rather than Drive (hovercraft). Just using it to cross small obstacles, less than five metres tall, only requires the Drive (hovercraft) skill. Jump jets cost 50% of the Base Cost and each 100 metres travelled in jump jet mode uses 500 metres (0.5 kilometres) of range, with Speed reduced to 25% of normal.

CHASSIS TYPE: LIGHT GRAV VEHICLE

Once grav technology becomes widely available, societies rapidly replace their original ground-based vehicles. Grav vehicles are superior in just about every way, being faster, smoother and safer.

Light grav vehicles are closed constructions. An Open Frame grav vehicle would be something like a grav bike.

Examples: Air/raft, grav car.

Light Grav Vehicle Construction

3	
Skill	Flyer (grav)
Number of Spaces	1–10
Cost per Space	50,000
Structure	1 per 2 Spaces
Hull	1 per 2 Spaces
Agility	+1
Tech Level	8
Shipping Size	1/2 ton per Space

Speed and Range

Tech Level	Speed	Range	
8	300	1,000	
9–10	400	2,000	
11–12	500	3,000	
13–14	600	4,000	
15+	700	5,000	

For example, a TL 8 Air/raft would be 4 Spaces (driver, 3 passengers), costing Cr. 300,000. With a 10% discount for being Open Topped (see page 35), Cr. 270,000.

It would have Speed 300 kilometres per hour, Range 1,000 km, 2 Structure, 2 Hull, Armour 5. It would displace 2 tons on a starship.

Streamlined

Any closed grav vehicle can be designed with a high-speed Streamlined hull. This costs 300% of the Base Cost, loses 10% of the vehicle's Spaces and multiplies Speed by five.

CHASSIS TYPE: HEAVY GRAV VEHICLE

Heavy grav vehicles use ultra-heavy duty grav modules to support the vehicle and provide forward thrust.

Example: G-Carrier, grav tank, grav transport.

Heavy Grav Vehicle Construction

Skill	Flyer (grav)	
Number of Spaces	10–100	
Cost per Space	100,000	
Structure	1 per 2 Spaces	
Hull	1 per 2 Spaces	
Agility	+1	
Tech Level	8	
Shipping Size	1/2 ton per Space	

Speed and Range

Tech Level	Speed	Range
8	300	1,000
9–10	350	2,000
11–12	400	3,000
13–14	500	4,000
15+	600	5,000

AFV (Armoured Fighting Vehicle)

A heavy grav vehicle may be designated an AFV at time of construction. This costs 100% of the Base Cost and takes up 10% (round up) of a vehicle's Spaces. It also decreases the grav vehicle's Range by 50%. AFVs use modified rules for armour (see page 29).

Streamlined

Any closed grav vehicle can be designed with a high-speed Streamlined hull. This costs 300% of the Base Cost, loses 10% of the vehicle's Spaces and multiplies Speed by five.



CHASSIS TYPE: LIGHT HELICOPTER

Helicopters use large-diameter rotors, either singly or in pairs, to provide lift and forward thrust. Helicopters usually start to be phased out in most areas by early TL 9, due to the introduction of grav vehicles.

Due to inherent issues in rotary wing aircraft, helicopters have a maximum speed limited by Tech Level that cannot be exceeded.

Examples: Scout helicopter, small passenger helicopter, traffic helicopter.

Light Helicopter Construction

Skill	Flyer (rotor)
Number of Spaces	1–10
Cost per Space	25,000
Structure	1 per 4 Spaces
Hull	1 per 4 Spaces
Agility	+1
Tech Level	5
Shipping Size	1 ton per Space

Take-off Radius is the minimum safe clear space for a helicopter to take-off and land. The listed Maximum Speed can never be exceeded.

Speed and Range

Tech Level	Speed	Max Speed	Range	Take-off Radius
5–6	100	300	1,000	30m
7–8	150	400	2,000	26m
9–10	200	500	3,000	22m
11–12	250	600	4,000	20m
13+	300	700	5,000	18m

Modifications

The following modifications are available for light helicopters.

Extended Operational Environment Range

It is possible to design aircraft with a wider operational environment range. This costs 100% of the Base Cost of the aircraft but allows it to be used within two digits of the UPP size and atmosphere values instead of just one. These aircraft also suffer a -1 to Agility in all environments.

Water Landing Ability

This allows the aircraft the ability to land and take-off from water, usually by adding floats or pontoons. This is a removable option and can be added at any time. It costs 10% of the Base Cost, reduces Speed by 10% and reduces Agility by one.

Folding Wings/Rotors

Aircraft can be designed with folding wings and/or rotors to allow them to be stored more efficiently. Cost is 25% of the Base Cost. The Shipping Size of the aircraft is reduced by 25%.

CHASSIS TYPE: HEAVY HELICOPTER

These aircraft can be massive, straining the limits of their rotors.

Examples: Transport helicopter, search and rescue, gunship.

Heavy Helicopter Construction

Skill	Flyer (rotor)
Number of Spaces	11–80
Cost per Space	50,000
Structure	1 per 3 Spaces
Hull	1 per 3 Spaces
Agility	–1
Tech Level	6
Shipping Size	2 tons per Space

Take-off Radius is the minimum safe clear space for a helicopter to take-off and land. The listed Maximum Speed can never be exceeded.

Speed and Range

Tech Level	Speed	Max Speed	Range	Take-off Radius
6	80	300	1,000	80m
7–8	120	400	2,000	70m
9–10	160	500	3,000	60m
11+	200	600	4,000	50m

Modifications

The following modifications are available for heavy helicopters.

Extended Operational Environment Range

It is possible to design aircraft with a wider operational environment range. This costs 100% of the Base Cost of the aircraft but allows it to be used within two digits of the UPP size and atmosphere values instead of just one. These aircraft also suffer a -1 to Agility in all environments.

Water Landing Ability

This allows the aircraft the ability to land and take-off from water, usually by adding floats or pontoons. This is a removable option and can be added at any time. It costs 10% of the Base Cost, reduces Speed by 10% and reduces Agility by one.

Folding Wings/Rotors

Aircraft can be designed with folding wings and/or rotors to allow them to be stored more efficiently. Cost is 25% of the Base Cost. The Shipping Size of the aircraft is reduced by 25%.

CHASSIS TYPE: AIRSHIP

Utilising a lift envelope containing a huge volume of lighterthan-air gas, such as hydrogen or helium, the airship is most common on medium-technology worlds or cultures that have not developed anti-gravity.

Airship Construction

Skill	Flyer (airship)
Number of Spaces	10–1,000
Cost per Space	20,000
Structure (Gondola)	1 per 5 Spaces
Hull	1 per 5 Spaces
Structure (Envelope)	1 per Space
Agility	-4
Tech Level	4
Shipping Size	1/2 ton per Space + Envelope

Speed and Range

Tech Level	Speed	Range
3	80	2,000
4–5	100	4,000
6–7	120	6,000
8–9	140	8,000
10-11	160	10,000
12+	180	12,000

Airship Envelopes

Envelope Structure measures the amount of damage the lift envelope can sustain before losing integrity. All non-explosive weapons inflict only one point of damage to the envelope for each hit. Automatic weapons inflict damage equal to their Auto Rating.

Envelope Size

The lift envelope of an airship is enormous. The working part of the vehicle, like crew quarters, cockpit, passenger space and cargo, is often partly within the volume of the envelope.

Envelope size is a function of world size, world atmosphere and number of Spaces of the airship.

Multiply world size by number of Spaces and then multiply by 200 for Very Thin atmospheres, 50 for Thin atmospheres, 20 for Standard atmospheres and 10 for Dense atmospheres. This is the size of the lift envelope in displacement tons.

For example, a 100 Space airship on a Size 8 world with a Standard atmosphere would require an envelope of $(100 \times 8 \times 20)$ 16,000 displacement tons. This is approximately the same size as the ill-fated Hindenburg.

In order to transport an airship, the envelope can be drained and deflated. This reduces its size to only 1% of the inflated size. The envelope in the example above would be 160 tons deflated.

Weathervaning

In high winds, conventional airships are subject to weathervaning, caused by differential pressure on the forward and aft sections of the lift envelope. This can result in a loss of stability and may even damage the airship.

Avoiding drifting and possible damage will require a Flyer (airship) check. Failure causes Structural damage to the envelope, as shown in the following table.

Wind Speed km/h	Agility Penalty	Skill Check/Damage
20–40	-1	_
41–60	-2	Routine, 2
61–80	-3	Hard, 4
81–100	-4	Difficult, 8
101+	-5	Impossible, 16

There is a bonus of +1 per 2 Tech Levels above TL 3 on the check to avoid damage. So +1 at TL 5, +2 at TL 7, +3 at TL 9 and +4 at TL 11

Modifications

The following modifications are available for airships.

Lifting Body Hull

The semi-rigid Lifting Body Hull is a type of hybrid aircraft, using the volume of gas contained to fully offset the weight of the aircraft, with some to spare. The lifting-body shape of the hull provides extra lift. Fully loaded, the lifting body requires an extremely short take-off and landing run and can carry a huge amount of cargo.

This modification costs 300% of Base Cost and doubles Speed. Lifting body designs need twice their internal Spaces (in metres) to take-off and land when fully-loaded. Lifting body designs reduce Weathervaning Agility penalties by two (minimum zero) and add +2 DM to the Flyer (airship) check to avoid damage.

Magnus Effect

A Magnus Effect airship is a sphere, with a gondola hanging underneath. The sphere rotates backwards as the airship moves forward, generating lift. It is a compact design not subject to weathervaning like large, cigar-shaped airships. Magnus Effect airships cost and additional 50% of the Base Cost, have Agility +2 and add 30 kilometres per hour to their Speed.

Cyclo-crane

The Cyclo-crane is designed to carry all of its cargo externally and is little more than a rigid envelope, a cruciform set of airfoils midship and lines extending down from the nose and stern to the slung cargo below. Like the lifting body, the Cyclo-crane's envelope can support the entire weight of the crane. The spinning airfoils provide additional lift to hoist cargo. A Cyclocrane design can lift an additional 5 Spaces of external cargo (500 kilograms) per internal design Space not used for crew, amenities or internal cargo. Cyclo-cranes cost 50% of the Base Cost and reduce Speed by 90%.

For example, a 10 Space Cyclo-crane, with 2 Spaces used for crew, would be able to lift 40 Spaces (20 tons).

Vacustat (TL 12)

The lift envelope can be replaced with a much smaller rigid shell, which is constructed of a very light-weight but extremely strong, material like a fullerene. Instead of being filled with a gas, the shell contains pockets of pure vacuum, held by the super-strong material of the shell. This virtually eliminates the envelope. The vacustat is only possible at TL 12 and higher. Vacustats are much smaller and faster than other airships. A vacustat costs 400% of the Base Cost, doubles its Speed and the shell size, in displacement tons, is equal to the number of internal Spaces. Unlike other airships, although, the rigid shell of a vacustat is not collapsible for transport.

CHASSIS TYPE: LIGHT AEROPLANE

Light aeroplanes are used for short-range transportation in pre-gravitic societies. They can go places where large aircraft typically cannot and are far cheaper to operate and maintain than helicopters.

Aeroplanes are propeller-driven aircraft, which limits their top speed to a maximum speed of 900 kilometres per hour in a standard atmosphere. In a Thin Atmosphere the top speed is 1,100 kilometres per hour while in a Dense Atmosphere, top speed is limited to 700 kilometres per hour.

At lower Tech Levels power comes from fossil-fuel piston engines and then later gas turbines. More advanced versions see the use of light-weight fuel cells and superdense batteries driving high-torque electric motors. In societies that do not develop grav technology but do develop compact fusion cells, they become the most common source of power for propellerdriven aircraft.

Example: Small Passenger Plane, Early fighter aircraft.

CHASSIS TYPES

Light Aeroplane Construction

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Skill	Flyer (wing)	
Number of Spaces	1–10	
Cost per Space	20,000	
Structure	1 per 4 Spaces	
Hull	1 per 4 Spaces	
Agility	+1	
Tech Level	4	
Shipping Size	1 ton per Space	

Speed and Range

Tech Level	Speed	Range	Take-off/Landing
4	150	300	400m/500m
5–6	250	600	300m/500m
7–8	350	1,200	300m/400m
9–10	450	2,400	200m/400m
11+	550	4,800	200m/300m

Modifications

The following modifications are available for light aeroplanes.

Tilt Rotor

When the Tilt Rotor modification is added to an aircraft, it gains the ability to takeoff vertically and hover like a helicopter. Once the rotors rotate forward to become propellers, the aircraft flies normally. As the technology becomes more advanced, the prop sizes become smaller, transitioning to ducted fans.

TL	Take-off Radius	Cost	Agility
8–9	32m	+300%	+0
10–11	26m	+300%	+1
12–13	15m	+200%	+2
14+	9m	+200%	+3

STOL

STOL (Short Take-Off and Landing) can be added to any aeroplane or jet and allows the aircraft to take off and land in only 50% of the normal distance. STOL costs 50% of Base Cost.

Extended Operational Environment Range

It is possible to design aircraft with a wider operational environment range. This costs 100% of the Base Cost of the aircraft but allows it to be used within two digits of the UPP size and atmosphere values instead of just one. These aircraft also suffer a -1 to Agility in all environments.

Water Landing Ability

This allows the aircraft the ability to land and take-off from water, usually by adding floats or pontoons. This is a removable option and can be added at any time. It costs 10% of the Base Cost, reduces Speed by 10% and reduces Agility by one.

Folding Wings/Rotors

Aircraft can be designed with folding wings and/or rotors to allow them to be stored more efficiently. Cost is 25% of the Base Cost. The Shipping Size of the aircraft is reduced by 25%.

CHASSIS TYPE: HEAVY AEROPLANE

Heavy aircraft are found in workhorse roles all over known space and at early Tech Levels are used as military bombers and heavy fighters. Even at higher Tech Levels they see a great deal of use due to their low costs and maintenance, although their military life is limited.

Examples: Cargo plane, passenger aircraft.

Heavy Aeroplane Construction

Skill	Flyer (wing)
Number of Spaces	10–200
Cost per Space	30,000
Structure	1 per 3 Spaces
Hull	1 per 3 Spaces
Agility	-1
Tech Level	4
Shipping Size	2 tons per Space

Speed and Range

Tech Level	Speed	Range	Take-off/Landing
4	100	1,000	3,000/1,500
5–6	200	2,000	2,500/1,250
7–8	300	3,000	2,000/1,000
9–10	400	4,000	1,500/750
11+	600	5,000	1,000/500



Modifications

The following modifications are available for heavy aeroplanes.

Tilt Rotor

When the Tilt Rotor modification is added to an aircraft, it gains the ability to takeoff vertically and hover like a helicopter. Once the rotors rotate forward to become propellers, the aircraft flies normally. As the technology becomes more advanced, the prop sizes become smaller, transitioning to ducted fans.

TL	Take-off Radius	Cost	Agility
8–9	88m	+300%	+0
10–11	60m	+300%	+1
12–13	33m	+200%	+2
14+	20m	+200%	+3

STOL

STOL (Short Take-Off and Landing) can be added to any aeroplane or jet and allows the aircraft to take off and land in only 50% of the normal distance. STOL costs 50% of Base Cost .

Extended Operational Environment Range

It is possible to design aircraft with a wider operational environment range. This costs 100% of the Base Cost of the aircraft but allows it to be used within two digits of the UPP size and atmosphere values instead of just one. These aircraft also suffer a -1 to Agility in all environments.

Water Landing Ability

This allows the aircraft the ability to land and take-off from water, usually by adding floats or pontoons. This is a removable option and can be added at any time. It costs 10% of the Base Cost, reduces Speed by 10% and reduces Agility by one.

Folding Wings/Rotors

Aircraft can be designed with folding wings and/or rotors to allow them to be stored more efficiently. Cost is 25% of the Base Cost. The Shipping Size of the aircraft is reduced by 25%.

CHASSIS TYPE: LIGHT JET

Jet aircraft are distinct from other aircraft in the use of a jet engine as propulsion. At lower speeds this may be something like a turbojet or high-bypass turbofan, while higher speeds require something like hydrogen-fuelled waveriders.

Light jets are small and fast and within the budget of wealthy individuals and small corporations to own them.

Examples: Business jet, light fighter jet.

Light Jet Construction

5	
Skill	Flyer (wing)
Number of Spaces	2–20
Cost per Space	100,000
Structure	1 per 4 Spaces
Hull	1 per 4 Spaces
Agility	+1
Tech Level	5
Shipping Size	1 ton per Space

Speed and Range

Tech Level	Speed	Range	Take-off/Landing
5	300	1,000	3,000/1,500
6–8	500	2,000	2,500/1,250
9–11	700	4,000	2,000/1,000
12+	900	7,000	1,500/750

Modifications

The following modifications are available for light jets.

Supersonic

Jets can be designed as supersonic aircraft. This multiples Speed by 4 and costs 300% of the Base Cost.

Tilt Jet

When the Tilt Jet modification is added to an aircraft, it gains the ability to takeoff vertically and hover like a helicopter. Once the jets rotate forward the aircraft flies normally. Tilt-jets are much more compact than tilt-rotors

This is distinct from VTOL aircraft, which are jet aircraft with variable thrust nozzles to achieve VTOL and forward flight.

TL	Cost	Agility
8–9	+300%	+0 5
10–11	+300%	+1
12–13	+200%	+2
14+	+200%	+3

Take-off Radius is based on that of a helicopter in the same size category (light or heavy) as the aircraft.

VTOL

VTOL (Vertical Take-Off and Landing) is a modification to a jet aircraft to enable vertical take-off and landing by vectored thrust. The use of vectored thrust also makes these aircraft very manoeuvrable. However, VTOL aircraft have a decreased Range when compared to a similar non-VTOL aircraft and are more complex and expensive

VTOL TL Cost Agility Range +100% -50% 6 +1 7-8 -40% +100% +2 9-10 +100% +3 -30% 11-12 +100% +4 -20% 13+ +100% +5 -10%

STOL

STOL (Short Take-Off and Landing) can be added to any aeroplane or jet and allows the aircraft to take off and land in only 50% of the normal distance. STOL costs 50% of Base Cost .

Extended Operational Environment Range

It is possible to design aircraft with a wider operational environment range. This costs 100% of the Base Cost of the aircraft but allows it to be used within two digits of the UPP size and atmosphere values instead of just one. These aircraft also suffer a -1 to Agility in all environments.

Water Landing Ability

This allows the aircraft the ability to land and take-off from water, usually by adding floats or pontoons. This is a removable option and can be added at any time. It costs 10% of the Base Cost, reduces Speed by 10% and reduces Agility by one.

Folding Wings/Rotors

Aircraft can be designed with folding wings and/or rotors to allow them to be stored more efficiently. Cost is 25% of the Base Cost. The Shipping Size of the aircraft is reduced by 25%.

CHASSIS TYPE: HEAVY JET

Heavy jets are a very common sight in pre-gravitic societies and dominate the skies in cultures that never develop gravitic technology.

Examples: Heavy attack fighter, cargo aircraft, jumbo jet, supersonic passenger plane.

Skill	Flyer (wing)
Number of Spaces	20–800
Cost per Space	200,000
Structure	3 per 4 Spaces
Hull	3 per 4 Spaces
Agility	-1
Tech Level	5
Shipping Size	2 ton per Space

Tech Level	Speed	Range	Take-off/Landing
5	300	1,000	5,000/4,000
6–8	400	4,000	4,500/3,500
9–11	600	7,000	4,000/3,000
12+	800	10,000	3,500/2,000

Modifications

The following modifications are available for heavy jets.

Supersonic

Jets can be designed as supersonic aircraft. This multiples Speed by 4 and costs 300% of the Base Cost.

Tilt Jet

When the Tilt Jet modification is added to an aircraft, it gains the ability to takeoff vertically and hover like a helicopter. Once the jets rotate forward the aircraft flies normally. Tilt-jets are much more compact than tilt-rotors.

This is distinct from VTOL aircraft, which are jet aircraft with variable thrust nozzles to achieve VTOL and forward flight.

TL	Cost	Agility
8–9	+300%	+0
10–11	+300%	+1
12–13	+200%	+2
14+	+200%	+3

VTOL

VTOL (Vertical Take-Off and Landing) is a modification to a jet aircraft to enable vertical take-off and landing by vectored thrust. The use of vectored thrust also makes these aircraft very manoeuvrable. However, VTOL aircraft have a decreased Range when compared to a similar non-VTOL aircraft and are more complex and expensive.

TL	Cost	Agility	Range
6	+100%	+1	-50%
7–8	+100%	+2	-40%
9–10	+100%	+3	-30%
11–12	+100%	+4	-20%
13+	+100%	+5	-10%

Jet Engines

Jet engines evolve as the technology behind them changes and the following is a good guide as to what is possible.

TL	Engine Type
5	Turbojet, Ramjet
6	High Bypass Turbofan
7	Scramjet
8	Air-Breathing Rocket
9	Waverider
10	MHD Electrojet

STOL

STOL (Short Take-Off and Landing) can be added to any aeroplane or jet and allows the aircraft to take off and land in only 50% of the normal distance. STOL costs 50% of Base Cost .

Extended Operational Environment Range

It is possible to design aircraft with a wider operational environment range. This costs 100% of the Base Cost of the aircraft but allows it to be used within two digits of the UPP size and atmosphere values instead of just one. These aircraft also suffer a -1 to Agility in all environments.

Water Landing Ability

This allows the aircraft the ability to land and take-off from water, usually by adding floats or pontoons. This is a removable option and can be added at any time. It costs 10% of the Base Cost, reduces Speed by 10% and reduces Agility by one.

Folding Wings/Rotors

Aircraft can be designed with folding wings and/or rotors to allow them to be stored more efficiently. Cost is 25% of the Base Cost. The Shipping Size of the aircraft is reduced by 25%.

CHASSIS TYPE: LIGHT AERODYNE

An aerodyne is a type of wingless VTOL jet aircraft, which stays aloft solely through the power of its engine(s). In societies that develop gravitic technologies, it sees very little use. They have no aerodynamic surfaces at all, with all lift and control through the array of vectored thrust nozzles around the aircraft.

Examples: Urban police vehicle, taxi, light attack aircraft.

Light Aerodyne Construction

5			
Skill		Flyer (rotor)	
Number of	of Spaces	2–10	
Cost per	Space	30,000	
Structure	;	1 per 4 Spaces	
Hull		1 per 4 Spaces	
Agility		+2	
Tech Lev	el	7	
Shipping	Size	1 ton per Space	

Speed and Range

Tech Level	Speed	Range
7	200	300
8–9	300	450
10–11	400	600
12+	500	750

Modifications

The following modifications are available for light aerodynes.

Extended Operational Environment Range

It is possible to design aircraft with a wider operational environment range. For aerodynes this costs 200% of the Base Cost of the aircraft but allows it to be used within two digits of the UPP size and atmosphere values instead of just one. Aerodynes do not suffer Agility penalties for the Extended Operational Range Modification.

CHASSIS TYPE: HEAVY AERODYNE

Heavy aerodynes are comparatively rare but the largest make for an impressive sight as the come in to land. Like their smaller cousins, they keep aloft solely through the power of their engines and have no aerodynamic lift or control surfaces.

Examples: Search and rescue, military transport, research aircraft.

Heavy Aerodyne Construction

Skill	Flyer (aerodyne)
Number of Spaces	10–50
Cost per Space	60,000
Structure	1 per 3 Space
Hull	1 per 3 Space
Agility	+1
Tech Level	7
Shipping Size	1 ton per Space

Speed and Range

1	5	
Tech Level	Speed	Range
7	200	400
8–9	300	600
10–11	400	800
12+	500	1,000

Modifications

The following modifications are available for heavy aerodynes.

Extended Operational Environment Range

It is possible to design aircraft with a wider operational environment range. For aerodynes this costs 200% of the Base Cost of the aircraft but allows it to be used within two digits of the UPP size and atmosphere values instead of just one. Aerodynes do not suffer Agility penalties for the Extended Operational Range Modification.

CHASSIS TYPE: LIGHT WALKER

Walking vehicles use computer-controlled legs to negotiate rough or uneven terrain. While not controlled with an exoskeleton (as with powered armour), a walking vehicle can be fitted with an exocontrol system or even a neural link system to provide finer control and greater Agility. Exo systems can only be used with two-legged walkers while a neural link can be used with any number of legs.

Examples: Industrial load lifter, scout walker.

Light Walker Construction

3	
Skill	Drive (walker)
Number of Spaces	2–10
Cost per Space	10,000
Structure	1 per 4 Spaces
Hull	1 per 4 Spaces
Agility	+1
Tech Level	8
Shipping Size	1 ton per Space

Speed and Range

	U	
Tech Level	Speed	Range
8	50	150
9–10	100	300
11–12	150	450
13–14	200	600
15+	250	750



Legs

All walkers are assumed to have two legs. The addition of extra legs improves their cross-country mobility and stability, at greater cost. A walker can have up to eight legs, although four to six is more common. Legs have to be added in pairs.

Each extra pair of legs costs 50% of the Base Cost of the vehicle and consumes 10% of available Spaces (minimum of 1 Space). Each set of additional legs add a +1 DM for manoeuvres on Rough or Uneven ground. Having four of more legs also grants a +1 DM on To Hit rolls conducted by that vehicles weapons.

Walker Height

Two-legged walkers are one and a half metres tall per point of Hull. So a 10 Space walker, with 3 points of Hull, is four and a half metres tall. Each additional set of legs subtracts 1 metre from that height, with a minimum height equal to the Hull Rating.

CHASSIS TYPE: HEAVY WALKER

Heavy walkers are often built as technological experiments and tend to be rare, as a very specific purpose is usually required to prefer a walker of this size over another vehicle.

Examples: WarMek, All terrain attack transports, gladiatorial bot.

Heavy Walker Construction

01.111	
Skill	Drive (walker)
Number of Spaces	10–50
Cost per Space	20,000
Structure	1 per 3 Spaces
Hull	1 per 3 Spaces
Agility	-1
Tech Level	10
Shipping Size	1.5 tons per Space

Speed and Range

	0		
Tech Level	Speed	Range	
8	50	150	
9–10	100	300	
11–12	150	450	
13–14	200	600	
15+	250	750	

Legs

All walkers are assumed to have two legs. The addition of extra legs improves their cross-country mobility and stability, at greater cost. A walker can have up to eight legs, although four to six is more common. Legs have to be added in pairs.

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Each set of additional legs add a +1 DM for manoeuvres on Rough or Uneven ground. Having four of more legs also grants a +1 DM on To Hit rolls conducted by that vehicles weapons.

Walker Height

Two-legged walkers are one and a half metres tall per point of Hull. So a 10 Space walker, with 3 points of Hull, is four and a half metres tall. Each additional set of legs subtracts 1 metre from that height, with a minimum height equal to the Hull Rating.

A 50 Space Walker, for example, with 17 Hull, would be 25.5 metres tall.

CHASSIS TYPE: BOAT

A common sight on rivers and in harbours on any civilised world, small boats form a lifeline for many communities and make up the livelihoods of those who live on shores.

Examples: Small yacht, fishing boat, speed boat.

Skill		Seafarer (motorboats)
Number of Spaces		1–20
Cost per Space		2,000
Structure		1 per 3 Spaces
Hull		1 per 3 Spaces
Agility		0
Tech Level		4
Shipping Size		1/2 ton per Space
Tech Level	Speed	Range
4–5	40	200
6–8	60	400
9–11	90	800
12+	120	1,200

Modifications

The following modifications are available for boats. Only one of these may be chosen for a boat.

Hydrofoil

Adding Hydrofoils to a surface vessel triples its Speed. The Hydrofoil will rise up out of the water on its foils at the vehicle's normal top Speed and can then go up to three times faster. Cost is 300% of Base Cost.

Wave-piercing Hull

The Wave-piercing Hull puts the payload on streamlined pillars above the water that connect to power/fuel modules that run underwater. Interface friction is much reduced, allowing the Wave-piercing Hull to be much more efficient and stable. This increases its Speed by 10% and Range by 50%. It uses 5% of a vehicle's Spaces (round up) and costs 200% of the Base Cost.

Multi-hull

A catamaran or trimaran hull increases speed and stability. The cost is 50% of the Base Cost. Multi-hull vessels grant a +1 DM to checks made to land aircraft and other vehicles upon them. They also negate up to a -2 penalty to weapon fire due to Speed and/or rough seas.

CHASSIS TYPE: SMALL SHIP

Tiny specs on the surface of immense oceans, small ships are nonetheless extremely hardy and can cross the distance between continents with ease.

Example: Private yacht, deep-sea trawler, landing craft.

Small Ship Construction

Skill	Seafarer (ocean ships)
Number of Spaces	20–200
Cost per Space	4,000
Structure	1 per 2 Spaces
Hull	1 per 2 Spaces
Agility	-3
Tech Level	3
Shipping Size	1/2 ton per Space

Speed and Range

Tech Level	Speed	Range
3–4	20	1,000
5–6	40	2,000
7–8	60	3,000
9–10	80	4,000
11–12	100	5,000

Modifications

The following modifications are available for small ships. Only one of these may be chosen for a ship.

Hydrofoil

Adding Hydrofoils to a surface vessel triples its Speed. The Hydrofoil will rise up out of the water on its foils at the vehicle's normal top Speed and can then go up to three times faster. Cost is 300% of Base Cost.

Wave-piercing Hull

The Wave-piercing Hull puts the payload on streamlined pillars above the water that connect to power/fuel modules that run underwater. Interface friction is much reduced, allowing the Wave-piercing Hull to be much more efficient and stable. This increases its Speed by 10% and Range by 50%. It uses 5% of a vehicle's Spaces (round up) and costs 200% of the Base Cost.

Multi-hull

A catamaran or trimaran hull increases speed and stability. The cost is 50% of the Base Cost. Multi-hull vessels grant a +1 DM to checks made to land aircraft and other vehicles upon them. They also negate up to a -2 penalty to weapon fire due to Speed and/or rough seas.

CHASSIS TYPE: LARGE SHIP

Large Ships are among the biggest types of vehicle to be commonly encountered planetside and are responsible for hauling goods across the sea lanes and providing military assistance form the water.

Examples: Naval frigate, destroyer, assault ship, cargo ship.

Large Ship Construction

-	
Skill	Seafarer (ocean ships)
Number of Spaces	200–1,000
Cost per Space	8,000
Structure	1 per 2 Spaces
Hull	1 per 2 Spaces
Agility	-6
Tech Level	3
Shipping Size	1 ton per Space

Speed and Range

Tech Level	Speed	Range
3–4	20	2,000
5–6	40	4,000
7–8	60	6,000
9–10	80	8,000
11–12	100	10,000

Modifications

The following modifications are available for large ships. Only one of these may be chosen for a ship.

Hydrofoil

Adding Hydrofoils to a surface vessel triples its Speed. The Hydrofoil will rise up out of the water on its foils at the vehicle's normal top Speed and can then go up to three times faster. Cost is 300% of Base Cost.

Wave-piercing Hull

The Wave-piercing Hull puts the payload on streamlined pillars above the water that connect to power/fuel modules that run underwater. Interface friction is much reduced, allowing the Wave-piercing Hull to be much more efficient and stable. This increases its Speed by 10% and Range by 50%. It uses 5% of a vehicle's Spaces (round up) and costs 200% of the Base Cost.

Multi-hull

A catamaran or trimaran hull increases speed and stability. The cost is 50% of the Base Cost. Multi-hull vessels grant a +1 DM to checks made to land aircraft and other vehicles upon them. They also negate up to a -2 penalty to weapon fire due to Speed and/or rough seas.

CHASSIS TYPE: LIGHT SUBMERSIBLE

Commonly used for recreation and research, small submersibles can be expensive and slow but fulfil obvious functions that other water-going craft cannot.

Examples: Sport submersible, research submersible, smuggler's submersible.

Skill	Seafarer (submarine)
Number of Spaces	1–10
Cost per Space	50,000
Structure	1 per 2 Spaces
Hull	1 per 2 Spaces
Agility	-2
Tech Level	4
Shipping Size	2 tons per Space

Tech Level	Speed	Range	Safe Dive Depth	Crush Depth	Life Support
4–5	15	50	50	150	50
6–8	25	100	200	600	100
9–11	60	150	600	1,800	200
12–14	80	200	2,000	6,000	400
15+	120	250	4,000	12,000	Indefinite

In addition to the information used by other vehicles, submersibles are rated by their Safe Dive Depth and Crush Depth, which are listed in metres and derived from Tech Level. Submersible Safe Dive and Crush Depth scores are calculated for a size 8 world, like Earth. For each point of size difference, up or down, add or subtract (respectively) 10% from the Safe Dive and Crush Depth scores.

Life Support lists the number of days a submersible can support its crew without resurfacing for air.

An Open light submersible is a vehicle like a dive sled, unpressurised, with a place for divers and air connections for longdistance travel.

Modifications

The following modifications are available for light submersibles.

SUPERCAVITATING DRIVE

The Supercavitating Drive consists of a blower to surround the submersible with a bubble of atmosphere and a rocket to propel it. Supercavitating Drives can power a submersible to up to 1,000 kilometres per hour under water, depending on Tech Level.

Increased Safe Depth/Crush Depth

Each 50% increase in both Safe Depth/Crush Depth costs 100% of the Base Cost of the submersible.

All submersibles already have the Life Support and Hostile Environment Protection options. Extended or Advanced Life Support must be purchased separately.

CHASSIS TYPE: HEAVY SUBMERSIBLE

Larger submersibles are sometimes used to carry cargo across seas that are too dangerous on the surface but usually have military applications, where their stealth and inaccessibility becomes their main defence.

Examples: Attack submersible, transport submersible, missile submersible

Skill	Seafarer (submarine)
Number of Spaces	11–500
Cost per Space	100,000
Structure	1 per Space
Hull	1 per Space
Agility	-4
Tech Level	4
Shipping Size	3 tons per Space

Supercaviting Drive

Tech Level	Speed	Range	Safe Dive Depth	Crush Depth	Life Support
4–5	10	500	50	150	50
6–8	20	1,000	200	600	200
9–11	50	1,500	600	1,800	500
12–14	70	2,000	2,000	6,000	1,200
15+	100	2,500	4,000	12,000	Indefinite

In addition to the information used by other vehicles, submersibles are rated by their Safe Dive Depth and Crush Depth, which are derived from Tech Level. Submersible Safe Dive and Crush Depth scores are calculated for a size 8 world, like Earth. For each point of size difference, up or down, add or subtract (respectively) 10% from the Safe Dive and Crush Depth scores.

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Increased Safe Depth/Crush Depth

Each 50% increase in both Safe Depth/Crush Depth costs 100% of the Base Cost of the submersible.

All submersibles already have the Life Support and Hostile Environment Protection options. Extended or Advanced Life Support must be purchased separately.

TL	% of Spaces Used	Min # of Spaces	Speed	Range	Cost
8–9	40%	10	700	700	800% of Base
10–11	30%	7	800	1,600	600% of Base
12–13	20%	5	900	1,800	400% of Base
14+	10%	2	1,000	2,000	200% of Base



Once you have created your vehicle and added a few chassisspecific modifications, it is time to tool up your new creation! All vehicles have a small amount of armour, due to their construction but more can be added and then weapons mounted if desired.

Base Armour Ratings

All vehicles have a Base Armour Rating based on their Tech Level. This is the Armour the vehicle comes with as standard, as part of its construction.

While the exact material used for the armour is not important for the purposes of this design system, some options are given for descriptive purposes.

Adding Armour to Vehicles

It costs 10% of the Base Cost of a vehicle to increase its Armour by an amount equal to its Base Armour Rating.

The maximum Armour score for a vehicle is five times its Base Armour Rating.

For every increase in Armour equal to the Base Armour Rating, the Speed of the vehicle is reduced by 10 kilometres per hour for ground and sea vehicles, 25 kilometres per hour for hover craft and grav vehicles and 100 kilometres per hour for all aircraft, including helicopters and aerodynes. For sailing vehicles, speed is reduced by 10% for every increase.

For example, a TL 12, 10 Space light grav vehicle costs Cr. 500,000 and its Base Armour Rating is 5. By paying 10% of the Base Cost (Cr. 50,000), the Armour is increased to 10. Speed would be reduced by 25 kilometres per hour

A Tech Level 2 sailing ship, however, has a Base Armour Rating of 2. To increase that Armour to 10 (2 x 5), would cost 40% (10% x 4) of the Base Cost. Speed is likewise decreased by 40%.

Retro-fitting Armour

If Armour is added after construction, each increase in Armour equal to the Base Armour Rating for the Tech Level of the world doing the retrofitting costs an additional 100% of the Base Cost.

Each increase in armour equal to the Base Armour Rating, the Speed of the vehicle is reduced by 20 kilometres per hour for ground and sea vehicles, 50 kilometres per hour for hover craft and grav vehicles and 200 kilometres per hour for all aircraft, including helicopters and aerodynes. Agility is also decreased by one for each increase equal to the base armour rating.

The maximum Armour added in this way can be no more than three times the Base Armour Rating.

Armoured Fighting Vehicles

AFVs (Armoured Fighting Vehicles) are designed a little differently. As they are designed for combat, their chassis incorporates composite armours, cavity armour, sloped hulls and whatever else is appropriate for their Tech Level.

The Base Armour Rating for AFVs is doubled and they can have a maximum amount of Armour equal to 15 times their Base Armour Rating. AFVs reduce their top speed by five kilometres per hour per increase for ground vehicles, 15 kilometres per hour per increase for hover craft and 20 kilometres per hour per increase for grav vehicles.

For example, the Base Armour Rating for a TL14 vehicle is 5. If it is designed instead as an AFV, then the Armour becomes 10. Doubling the Armour to 20 costs 10% of the Base Cost. If it is not designed as an AFV, then the Base Armour Rating remains at 5 and doubling it to 10 likewise costs 10% of the Base Cost. Increasing a non-AFV to 20 points of Armour would instead cost 30% of the Base Cost.

Tech Level	Base Armour Rating	Typical Material	Alternative Material
0–2	1	Wood	_
3–5	2	Iron	Steel
6–8	3	Steel	Composites
9–11	4	Crystaliron Steel	Synthetics, fullerenes
12–14	5	Superdense	Advanced Composites, cast diamond
15–17	6	Bonded Superdense	Cerametals, spun diamond
18+	7	Coherent Superdense	_

Adding Armour and Weapons

Armour Allocation (Optional Rule)

This rule is applied in the *Hammer's Slammers* and 2300AD settings but is optional in others.

AFVs can allocate Armour to separate locations. There are six separate locations: Front, Rear, Right, Left, Top and Bottom.

Vehicles with turrets have additional faces of Turret Front and Turret Side/Rear.

Armour can be reallocated from one location to another, with the only caveat that Right and Left Armour have to be equal. Any location can have its Armour changed by no more than +/-50% So, a hovertank created with 100 Armour could increase the Front Armour to 150 by reducing the rear Armour to 75 and Bottom Armour to 75.

Turrets will either have the Base Armour Rating for both locations or else the Turret Front will equal the Front Armour and Turret Side/Rear will equal the Side Armour scores.

The TL maximum for Base Armour Ratings does not apply to Armour allocated in this way.

WEAPON MOUNTS

Weapons cannot just be plastered all over a vehicle. Each must have a specific mounting point.

A variety of weapons commonly used on vehicles across all Tech Levels is given at the end of this chapter for your convenience.

However, the *Central Supply Catalogue* is a rich source of weapons that could be mounted on a vehicle and many more appear in other *Traveller* supplements. To use other weaponry with this design system, simply divide a weapon's Mass by 250 and round up to determine the number of Spaces it requires.

Fixed Mount

A fixed mount has no cost and must simply be noted at time of construction. The weapon cannot traverse in this mount and will always fire in a straight line from its mounting point. Normally this is straight ahead but fixed mounts can also be created for weapons to fire to the rear, sides, up or down.

A fixed mount can be made to be modular, allowing a suitably equipped garage or hangar to change weapons according to mission profiles. A modular fixed mount will cost Cr. 5,000 per Space of the largest weapon that can be mounted upon it.

Pintle Mount and Ring Mount

A pintle mount is a simple post with a weapon fixed upon it, often mounted in what would otherwise be a cargo area. Ring mounts are rings around hatches that can hold a weapon and pivot around.

Ring mounts and Pintle mounts can both hold weapons up to half a Space in size. Neither type is stabilised or offers any sort of fire control.

Both pintle and ring mounts can be equipped with gun shields, which provide protection equal to 2 x the Tech Level of the vehicle, in the direction the weapon is facing. So a TL 12 vehicle would have an Armour 24 gunshield

Weapon mounts do not add any Spaces to a vehicle. Weapons in a mount still count against the available Spaces in a vehicle. A weapon mount itself doesn't take up any extra space, although there has to be Space for the crewmember at the mount.

A vehicle can have one Ring or Pintle mount per 5 points of Hull Value, with minimum of one.

Pintle mounts cost Cr. 500, while ring mounts are Cr. 750. Gunshields for both cost Cr. 200 per point of armour.

Powered Pintle Mount and Ring Mount (TL7)

Pintle and ring mounts are also available in powered versions at TL7, which can hold up to one Space worth of weapons and are stabilised so that there is no penalty to fire while moving.

Powered versions cost Cr. 1,500 for the pintle mount and Cr. 2,150 for the ring mount. A Gunshield can be added to either as normal.

Gun Ports

Gun ports are mounts for small arms. Gun ports cost Cr. 250 each and require no Spaces. Gun Ports are used at Personal Weapon Ranges only and do not benefit from stabilisation or fire control.

Missile Bay/Bomb Bay/Torpedo Bay

Bays are internal structures designed to hold and release missiles, torpedoes and deadfall ordnance. In most vehicles, a missile bay is dedicated to a specific weapon and cannot be used for anything else. On aircraft and grav vehicles, the bay is more generic, able to hold whatever types of weapons desired up to the available Space.

Dedicated bays that carry just one type of weapon cost Cr. 5,000 per Space of weapon that they are designed to hold. Rate-offire is equal to the number of weapons in the bay and bays can be reloaded. So, for example, an attack submersible with a six tube torpedo bay could fire up to six torpedoes in one round.

General purpose bays able to hold different types of weapon cost Cr. 10,000 per Space of weapon they are designed to hold. They can launch one missile or torpedo per round or drop up to half their Space capacity in bombs.

Adding Armour and Weapons

Hard Points

Hard points are external mounting racks for bombs, missiles and other weapons (such as guns mounted in pods). Weapons on hard points are not protected by armour and diminish the effectiveness of the vehicle's Stealth.

The maximum amount of external ordnance that can be carried is equal to half of the vehicle's Spaces. The number of hard points and capacity per hard point has to be declared at time of construction. Weapons on external hard points lower the vehicle's Stealth by one class (Class I goes to no Stealth, class II goes to class I).

Hard points cost Cr. 5,000 per Space of weapon that can be mounted.

Turrets

Turrets are pods that can traverse through 360°, giving them a free angle of fire at any attacker.

A small turret is only big enough to fit the weapons installed within it and is remotely controlled. Large turrets hold their installed weapons along with one or two operators.

Small turrets cost Cr. 25,000 per Space of installed weaponry, plus the cost of the actual weapon. Small turrets can only hold up to five Spaces worth of weapons at TL 5, 6 Spaces at TL 7 and 7 Spaces at TL 9. At TI 10 and higher they can hold 10 Spaces of weapons. A small turret takes up one additional Space itself.

Large Turrets cost Cr. 50,000 per Space of installed weaponry, plus Cr. 20,000 per crew member. They take up 4 Spaces plus

the number of Spaces used by weapons, along with 2 Spaces for every crew member.

All turrets can be made into pop-up turrets. This doubles their cost and Space requirements and gives a -2 penalty to any Recon or Investigate checks to determine if a vehicle is armed.

Pop-up Turrets

A turret can be concealed within a vehicle until required. A popup turret can be small or large, requires a number of Spaces equal to the size of the turret and costs Cr. 10,000 per Space, in addition to the price of the turret.

Increased Ammunition

A vehicle can carry extra ammunition for its weapons.

The extra ammunition itself must be purchased separately but the vehicle itself need only set aside one Space for every *extra* 'magazine/clip' of ammunition.

Improved Fire Control

Improved Fire Control can represent anything from gyrostabilisation to laser-rangefinders and enhanced targeting sensors. Improved Fire Control provides a DM to hit when attacking with the weapon.

Fire Control DM	Cost	Minimum TL
+1	Cr. 10,000	6
+2	Cr. 25,000	8
+3	Cr. 50,000	10
+4	Cr. 100,000	12

Weapons

weapons							
Weapon	TL	Cost	Damage	Auto	Spaces	Range	Ammo /Space
120mm Cannon	8	Cr. 400,000	10d6 Super-AP	No	10	Distant	30
12mm Light Gauss Cannon	12	MCr. 3	10d6 Mega-AP	No	4	Very Distant	300
22mm Heavy Gauss Cannon	12	MCr. 10	14d6 Mega-AP	No	18	Very Distant	100
35mm Rail Gun	9	Cr. 100,000	12d6 Super-AP	No	28	Very Distant	200
60mm Antitank Gun	6	Cr. 56,000	7d6 Super-AP	No	4	Distant	80
70mm Strafing Rocket Pod (7pack)	6	Cr. 4,000	8d6	14	1.5	Very Long	7
75mm Cannon	7	Cr. 160,000	8d6 Super-AP	No	6	Distant	40
9lb Cannon	3	Cr. 2,600	9d6	No	2	Very Long	60
Advanced Flamethrower	8	Cr. 2,500	3d6+6 Flame	N/A	1/2	Medium	20
Advanced Light Autocannon	10	Cr. 10,000	6d6+4 SAP	8	1	Very Long	5,000
Advanced Support Weapon	10	Cr. 2,750	4d6SAP	4	1/2	Rifle	10,000

- Adding Armour and Weapons

Artillery Rocket Pod	5	Cr. 52,000	16d6	12	1.5	Distant	12
Blue-green Laser Cannon	5 10	MCr. 1.2	7d6	No	1.5	Very Long	N/A
Disposable MLR Pod	10	Cr. 15,000	16d6	6	1	Distant	6
Fusion Z Gun	14	MCr. 8	28d6	No	16	Distant	N/A
Gatling Laser	8	Cr. 750,000	6d6	2	8	Distant	N/A
Gatling Laser	12	MCr. 1.25	6d6	6	12	Distant	N/A
Heavy Autocannon	6	Cr. 95,000	8d6 SAP	No	3	Distant	3,000
Heavy Bomb	5	Cr. 4,000	14d6 AP	No	1/2	Very Distant	0,000
Heavy Hypervelocity	13	MCr. 26	18d6 Ultimate AP	No	72	Very Distant	100
Cannon Heavy Machinegun	5	Cr. 10,000	5d6 AP	6	1	Rifle	7,000
Heavy Rotary Machinegun	8	Cr. 25,000	5d6 AP	10	1.5	Very Long	7,000
Heavy Torpedo	6	Cr. 2,200	14d6	No	8	Very Distant	N/A
Hypervelocity Orbital	14	MCr. 40	20d6 Ultimate AP	No	140	Orbital	50
Defence	14	MOI. 40	2000 Ollimate Ar	INU	140	Orbital	50
Improved Flamethrower	6	Cr. 1,400	4d6 Flame	N/A	1/2	Medium	20
Laser Cannon	9	MCr. 1	8d6	No	24	Distant	N/A
Light Autocannon	6	Cr. 7,500	6d6 SAP	6	1	Very Long	5,000
Light Hypervelocity Gun	13	MCr. 14	16d6 Ultimate AP	No	40	Very Distant	200
Light Machinegun	5	Cr. 3,000	3d6 SAP	6	1/2	Rifle	12,000
Light Rotary Autocannon	7	Cr. 65,000	6d6 SAP	10	1	Very Long	5,000
Light Tac Missile (Anti-Air)	9	Cr. 3,000	9d6	No	1/2	Extreme	
Light Tac Missile (Anti- Armour)	9	Cr. 4,000	9d6 Super AP	No	1/2	Very Distant	
Light Tac Missile (Anti- Personnel)	9	Cr. 1,800	9d6	No	1/2	Very Distant	
Medium Bomb	4	Cr. 1,200	12d6	No	1/2	Very Distant	
Medium Machinegun	6	Cr. 2,500	3d6+3 SAP	6	1/2	Rifle	10,000
Medium Missile	7	Cr. 2,000	8d6+4 AP	No	1	Extreme	
Medium Mortar	5	Cr. 5,000	4d6	No	1/2	Distant	10
Medium Rotary Machinegun	6	Cr. 5,000	3d6	10	1/2	Rifle	10,000
Meson Accelerator	14	MCr. 20	18d6	No	240	Very Distant	N/A
Plasma A Gun	10	MCr. 1	14d6 Destructive	No	16	Very Long	N/A
Plasma Missile	12	Cr. 3,200	8d6 Mega-AP	No	1/2	Extreme	
RF Plasma B Gun	12	MCr. 1.5	14d6 Ultra Destructive	4	16	Distant	N/A
Smart Torpedo	8	Cr. 2,800	12d6	No	5	Very Distant	N/A
Sonic Cannon	10	Cr. 20,000	Stun	No	5	Long	N/A
Super Heavy Bomb	6	Cr. 10,000	16d6 Super-AP	No	6	Very Distant	
VRF Gauss Gun	12	Cr. 200,000	5d6 AP	12	4	Distant	20,000

120mm cannon: A large-calibre gun that arms many mid-tech heavy tanks and armoured vehicles.

35mm Rail Gun: A powerful vehicle-mounted cannon using relatively crude electromagnetic propulsion to fling a projectile in a flat trajectory.

60mm Anti-tank Gun: A towed antitank gun intended for the direct-fire role, it can be found mounted in light tank hunters of early Tech Levels.

75mm cannon: A light vehicle-mounted direct-fire weapon, often used in light armoured vehicles and scouts. At TL9 a rapid-fire version is available for double the price, with an Auto score of 2.

9 Ib. Cannon: A simple smoothbore black-powder cannon capable of delivering solid ball shot out to a distance of a kilometre without any real degree of accuracy.

Advanced Flamethrower: Light and efficient, this is the most advanced hydrocarbon-spraying flame weapon available. It uses jellied hydrocarbon fuel as ammunition, loaded with flakes of white phosphorous and other flammable metals.

Advanced Machineguns: Firing the same 7mm ammunition as an ACR, the AMG is a more refined representative of a medium machinegun.

Artillery Rocket Pod: This pod contains 12 large rockets with high-explosive warheads. Alternative warheads are sometimes used, including incendiaries and chemical weapons. Rockets can be fired one at a time or 'rippled' off in a rolling salvo.

Blue-Green Laser Cannon: A laser cannon specifically tuned to reduce 'blooming' underwater. When fired out of water, it has the listed range. When fired in water, range is reduced to Long.

Bombs: Deadfall ordnance is normally unpowered and unguided, although at higher Tech Levels (TL 8+) it can be guided. Guided bombs are twice the price and have a +2 DM to hit.

Fusion Z Gun: One of the most powerful weapons ever made, the fusion Z gun can blast through just about any armour or material. Aside from its more limited range, it is fully the equal of any starship weapon. Damage is full in a 10 metre radius, halved within 20 metres.

Gatling Laser: At early Tech Levels this multi-barrelled weapon cycles through the various barrels simply to avoid over-heating. At higher Tech Levels, it becomes a high-rate-of-fire automatic weapon.

Gauss Cannons: These are advanced coilguns that accelerate a dart of dense metal to extremely high speeds.

Heavy Autocannon: A heavy (50–60mm) rapid-fire belt- or cassette-fed weapon capable of engaging light armoured vehicles and aircraft.

Heavy Machinegun: These heavy machineguns are just shy of being light cannons and are usually found in calibres from 12mm–15mm.

Heavy Rotary Machinegun: These three barrelled guns fire heavy rounds at a Very high rate of fire. Although large and bulky, they are often used in aircraft and in anti-aircraft roles.

Heavy Torpedo: Large and deadly, heavy torpedoes carry Very large warheads.

Hypervelocity Guns: Using an even more advanced version of the electromagnetic coilgun, the hypervelocity cannon accelerates dense cobalt-tungsten darts to astronomical velocities.

Improved Flamethrower: More efficient than earlier flame weapons but still hazardous to use. It sprays a stream of jellied hydrocarbon fuel that sticks and burns to practically everything. It will not stick to vehicles or battle dress with an Insidious Atmosphere Hull.

Laser Cannon: A single barrel laser main gun for a vehicle mount, the laser cannon is the first really effective vehicle energy weapon.

Light Autocannon: This covers 20–25mm single-barrelled conventional autocannons.

Light Machinegun: A typical light machinegun in 5mm–6mm calibre.

Medium Machinegun: One of the more common infantry support weapons, the medium machinegun is usually found in 7mm–9mm calibre rounds.

Medium Mortar: This is a man-portable or vehicle-mounted mortar of 70–90mm calibre. In a vehicle it requires a crew of two and is capable of delivering a HE/fragmentation bomb or similar Very light artillery payload out to about three kilometres, although without a great degree of accuracy. Burst radius is nine metres.

Medium Rotary Machinegun: This machinegun fires medium calibre rounds from six rotating barrels at an extremely high rate of fire. Often used in aircraft for ground attack roles.

Medium Rotary Machineguns: A multi-barrelled machinegun firing ammunition in the 7mm–9mm range.

Meson Gun: A battlefield meson gun accelerates particles that do not interact with matter until they decay, allowing the weapon to effectively shoot through any obstruction so long as the target's location is known. A meson gun delivers 18D6 damage in a 10 metre radius and 9d6 damage in a 20 metre radius. All armour the target may have is ignored since a 'hit' implies that the accelerator's particles have decayed within the target.

Missiles and Tac Missiles: Tac (for 'tactical') missiles are relatively small weapons designed to be carried by infantry and light vehicles. They are cheap, easy to carry and use and Very common. They are homing weapons and can be thrown off by countermeasures or simply shot down by an anti-missile system. All missiles have a +2 DM to hit.

Multiple Launch Rocket Pod, Disposable: A lightweight pod containing six 240mm inertial-guided bombardment rockets. Pods of this sort are designed to be placed by engineers or airdropped across a potential combat zone, to be called upon where necessary.

Plasma A Gun: First introduced at TL 10, the plasma A gun is the first practical battlefield high energy weapon. At TL 10, a vehicle mounting a plasma A gun cannot move and fire in the same round and grav vehicles must land before firing. At TL 11 it becomes a rapid-fire weapon that no longer has energy constraints, so a TL 11 vehicle with a plasma A gun can move and fire. Full damage is delivered to all targets within a two and a half metre radius, with half damage to targets within five metres.

Plasma B Gun: More powerful than the plasma A gun. At TL 11, vehicles equipped with the plasma B gun cannot move and fire in the same round and grav vehicles must land. At TL 12 it becomes a rapid-fire weapon that no longer has the energy constraints, so a TL 12 vehicle with a plasma B gun can move and fire. Damage is full within a four metre radius, with half damage to targets within eight metres.

Smart Torpedo: The smart torpedo is an active-homing weapon that contains its own sonar array. It receives a +2 DM to hit.

Sonic Cannon: A large-barrelled stunner weapon designed for crowd control. It is also an effective military weapon against unprotected opponents. Functions as a stunner with the listed Auto score and an area of effect of four square metres.

Strafing Rocket Pod: A small pod containing seven small rockets with high-explosive warheads. They can be fired singly or 'rippled-fired' all at once. A common weapon for ground-support aircraft.

VRF Gauss Gun: Although firing the same 5.5mm needle round as other heavy gauss weapons, the VRF gauss gun has an extremely high muzzle velocity combined with a rate of fire considerably higher than any rotary cannon. It is the ultimate slug-throwing machinegun.

Anti-Armour Effects

As with small arms, some artillery weapons perform better against armour than others. Area effects such as fragmentation from a shell burst usually have no intrinsic armour-piercing capability. Anti-Armour munitions can have several possible effects:

Semi Armour-Piercing (SAP) – This effect is uncommon with artillery weapons. The round ignores a number of points of armour equal to half the number of dice it rolls for damage, rounding down. Example: a weapon doing 9d6 SAP damage ignores 4 points of armour. If the target has less armour than this value, the excess is wasted.

Armour-Piercing (Full-AP or AP) – The round ignores a number of points of armour equal to the number of dice it rolls for damage. Example: a weapon doing 9d6 AP damage ignores 9 points of armour. If the target has less armour than this value, the excess is wasted.

Super Armour-Piercing (Super-AP) – The round ignores a number of points of armour equal to twice the number of dice it rolls for damage. Example: a weapon doing 9d6 AP damage ignores 18 points of armour. If the target has less armour than this value, the excess is wasted.

Ultra Armour-Piercing (Ultra-AP) – The round ignores a number of points of armour equal to three times the number of dice it rolls for damage. Example: a weapon doing 9d6 AP damage ignores 27 points of armour. If the target has less armour than this value, the excess is wasted.

Mega Armour-Piercing (Mega-AP) – The round ignores a number of points of armour equal to four times the number of dice it rolls for damage. Example: a weapon doing 9d6 AP damage ignores 36 points of armour. If the target has less armour than this value, the excess is wasted.

Ultimate Armour-Piercing (Ultimate-AP) – The round ignores a number of points of armour equal to five times the number of dice it rolls for damage. Example: a weapon doing 9d6 AP damage ignores 45 points of armour. If the target has less armour than this value, the excess is wasted.



While many chassis types have their own unique modifications that can only be applied to themselves, this chapter features universal modifications - those that can be applied to any vehicle for the listed cost.

Universal Chassis Modifications Increased Speed

Each 10% increase in a vehicle's Speed costs 10% of the Base Cost and uses 1 Space. The maximum Speed increase possible is 200% and requires 20 Spaces.

Decreased Speed

Each 10% decrease in a vehicle's Speed reduces the cost of the vehicle by 10% of its Base Cost and adds 1 Space to the design. The maximum Speed decrease is 30% for aeroplanes and jets and 50% for everything else.

Increased Agility

Each +1 to Agility costs 50% of the Base Cost. The maximum increase to a vehicle's Agility is +3.

Decreased Agility

Vehicles can also be built with lowered Agility, normally done for reasons of cost. Each reduction of -1 Agility reduces the final cost of the vehicle by 25% of its Base Cost. The maximum decrease to a vehicle's Agility is -2.

Increased Structure

This involves reinforcing the vehicle's structure with roll cages and strengthened beams. Each additional point of structure costs 20% of the Base Cost, with a maximum increase possible of 10% of the vehicle's Structure.

Decreased Structure

This represents cheaper materials or poorer construction. Each point of Structure removed reduces the final cost of the vehicle by 10%.

Increased Hull

This involves reinforcing the vehicle's outer skin through stronger materials and superior design. Each additional point of Hull costs 20% of the Base Cost, with a maximum increase possible of 3 points.

Decreased Hull

This represents cheaper materials or poorer construction. Each point of Hull removed reduces the final vehicle cost by 10%. The maximum decrease possible is 3 points, with a minimum of one.

Increased Range

There are two methods of increasing vehicle range. One is to simply carry more fuel, while the other is to make the vehicle more fuel-efficient.

- Greater Fuel Capacity: Every 33% added to a vehicle's original Range subtracts 10% of original spaces with a minimum of one.
- More Fuel Efficient: Every 10% added to a vehicle's original Range costs 20% of the Base Cost.

Decreased Range

Reducing fuel capacity of efficiency can make for a cheaper vehicle or one with more space for cargo and equipment.

- Lower Fuel Capacity: Smaller fuel tanks will free up Space at the cost of Range. Each 10% reduction in a vehicle's original Range frees up half a Space.
- Reduced Fuel Efficiency: Reduced fuel efficiency, from • lower technology or less efficient engines, reduces the final cost of the vehicle. Each 25% reduction in a vehicle's original Range lowers the vehicle's cost by 10%.

Open Top

This is an open passenger area, which reduces the final cost by 10% of the Base Cost. Aeroplanes and jets cannot have an Open Top.

Open Cargo Bed

Reduces the final cost by 20% of the Base Cost. Aeroplanes and jets cannot have Open Cargo Beds.

Open Top and Open Cargo Bed combined reduce the base price by 25%.

Open Frame

Selecting Open Frame means that no Armour can be fitted aside from sheets of cloth armour (Armour 1). However, this reduces the final cost by 50% of the Base Cost.

Note that boats and balloons may both be designed as Open Frame, which represents a light-weight framework covered with animal skin, cloth or other light-weight material.

Universal Control Modifications Primitive Controls (TL 2)

Primitive controls give a -1 penalty to Agility. Primitive controls subtract 20% from the base cost of the vehicle. Vehicles with primitive controls can go no faster then 50 kilometres per hour.
Basic Controls (TL 4)

This is the default control set-up, with no modifiers.

Advanced Controls (TL 8)

This is usually advanced drive-by-wire systems with heads-up displays. Costs Cr. 10,000 plus 10% of Base Cost. Adds +1 to Agility.

Exo-skeleton Linkage (TL 10)

The exo-link is a system for translating body movements into vehicle actions. Exo-controls cost Cr. 100,000, plus 50% of the Base Cost. Exo-rigs add +1 to Agility and +1 DM to Initiative checks.

Neural Link (TL 12)

The neural link is a true mind-machine linkage and allows an operator to control the vehicle with their mind alone. This gives a +2 DM to Initiative and a +2 bonus to Agility. A Neural Link costs Cr. 50,000, plus 100% of the Base Cost.

Autopilot

Autopilots are available for aircraft and sea vessels starting at TL 5 and other vehicles at TL 9. Autopilot systems are at skill level 0 at their Tech Level of introduction and increase their skill level by 1 for every two Tech Levels thereafter, to a maximum of 3. Autopilots cost Cr. 2,000 + Cr. 5,000 per skill level.

Power Modifications

Most vehicles come with their own power and motive source but this can still be enhanced or even replaced for specific design requirements.

Stacking Modifications

When designing vehicles, you may begin to wonder whether various bonuses and penalties stack. For example, can you Decrease the Agility of a vehicle and then cancel the penalty out with Advanced Controls?

The answer is... it is up to you! In general, we would not suggest allowing everything to stack but there may be very good reasons to do so. In the example above, you might have created a grav skimmer used in racing that is notoriously hard to control because of its exterior design (which is mandated by the rules of the racing championship). The advanced controls might be the only way a normal human might have of controlling it without crashing during a race!

So, our advice is be careful of stacking modifications but don't be afraid to allow it if it is justified by the type of vehicle you are trying to create.

Additional Drive System Modifications

This adds a secondary drive system or an alternate environment capability to the vehicle. Improvements can be made to secondary drive systems as normal although Speed can only be doubled and Agility can only be increased by +1 maximum. Cost multiples for performance improvements are based on the Base Cost as normal.

Aquatic Drive: This includes such things as a water-tight hull, props or water-jets for propulsion and a snorkel. This modification can be added to ground vehicles, helicopters, grav vehicles, airships, aircraft and jet aircraft. It cannot be used with tilt-jet, VTOL jet or aerodyne aircraft, hovercraft or vehicles that can already traverse water. It costs 100% of the Base Cost.

A vehicle with Aquatic Drive has the base same movement as an equivalent sea vehicle (Boat, Light Ship or Heavy Ship) of the same TL. Agility has an additional –1 penalty and Range in Aquatic mode is 10% of the equivalent sea vehicle.

Ground Drive: This is more than just a set of wheels for operating at an airport. It is a modification that makes an aerial vehicle properly road-worthy. At higher Tech Levels this includes an interface to local traffic control systems. It can be added to any Light Aeroplane, Light Helicopter, Light Grav Vehicle or Light Aerodyne. It costs 50% of the Base Cost.

A vehicle with Ground Drive has the base same movement as an equivalent Ground Vehicle (Light or Heavy) of the same TL. Agility has an additional –1 penalty and range in Ground Drive mode is half that of the equivalent ground vehicle.

Wind Power: Any vehicle can also be designed to use wind power. This costs 10% of the Base Cost and lowers the Agility by -1 for Light vehicles and -2 for Heavy vehicles. While under sail, the vehicle uses the rules for wind-powered vehicles on page 5.

Grav Drive: Any vehicle can have a secondary grav drive added to it. This costs 150% of the Base Cost.

A vehicle with Grav Drive has the same movement as an equivalent Grav Vehicle (Light or Heavy) of the same TL. Agility has an additional –1 penalty and range in Grav Drive mode is half that of an equivalent grav vehicle.

External Power

The External Power modification provides power to a vehicle from an external source, like a third rail in a train, overhead wires for trams, buried induction plates for cars and trucks and beamed microwaves for aircraft.

UNIVERSAL MODIFICATIONS

External power provides virtually unlimited range, although the vehicle in question either has to remain along the powered road or track or within line-of-sight of the transmitter.

Vehicle Type	TL	Spaces	Cost (Cr.)
Trains, Ground Vehicles on Rails	4	1 per 10 hull	5,000 per Hull
Ground Vehicles	8	1 per 10 hull	2,000 per Hull
Light Aircraft and Light Helicopters	9	1 per 5 Hull	10,000 per Hull
Light Grav Vehicles	11	1 per 5 Hull	10,000 per Hull

External power is already included in maglev and grav rail vehicles.

Fission Plants (TL 6)

The triumph of nuclear power, in an almost safe, self-contained form, a small Fission Plant can allow a vehicle to run for greatly extended periods of time.

A Fission Plant uses $\frac{1}{2}$ of a vehicle's Spaces, with a minimum requirement of 10 Spaces. It costs Cr. 100,000 per space. A vehicle fitted with a Fission Plant requires no fuel for a year, has unlimited Range but also requires the Hostile Environment Protection modification.

Fusion Plants (TL 9)

A development of the Fission Plant, the Fusion Plant can allow a vehicle to run for greatly extended periods of time with none of the drawbacks.

A Fusion Plant uses ¼ of a vehicle's Spaces, with a minimum requirement of 10 Spaces. It costs Cr. 125,000 per space. A vehicle fitted with a Fusion Plant requires no fuel for a year and has unlimited Range.

Armour and Defensive Modifications Explosive Reactive Armour (ERA)

Reactive armour is a set of explosive charges that detonate in opposition to shaped-charge warheads and high energy weapons. It has no effect on lasers or heavy kinetic weapons like mass drivers and railguns. ERA adds Armour to each face of the vehicle. When the vehicle is hit by HEAP, plasma or fusion gun fire, the ERA will completely absorb the hit on a 2D roll of 2+. Every time the ERA system detonates to protect the vehicle, a cumulative DM of -1 is applied to subsequent checks. Replacing expended charges costs Cr. 5,000 for every -1 DM applied to the ERA check.

ERA Type	Tech Level	Armour	Cost (Cr.)
I	7	+7	50,000
II	9	+9	75,000
III	11	+11	100,000
IV	13	+13	125,000

Electrostatic Armour (TL 9)

Electrostatic armour protects a vehicle or aircraft with a lowpower static field linked to a fully charged high-energy capacitor. When an object enters the field, the system discharges, in theory vaporising the object.

In practice, the system only provides its full defence against low-mass projectiles, like HEAP rounds or plasma and fusion weapons. It does provide some protection against other kinetic weapons but none against other energy weapons.

Note that a person or animal entering the field will likewise trigger a discharge from the armour, suffering 6d6 damage.

Power Plants

This design system does not go into specifics of Power plants. However, this is information that some people like to have and it can flesh out vehicle descriptions.

At TL 3–5, engines are fossil-fuel powered steam engines, either pistons or towards the end of the period, steam-driven turbine.

With TL 5–6, Power plants are generally fossil-fuel or alcoholpowered internal combustion engines, either piston or gas turbine, although fuel cells are available towards the end of the period.

From TL 7–9, Power plants are improved internal combustion engines and high-efficiency gas turbines, with fuel cells and high-density batteries coming into common use in the latter days of the time period.

AT TL 9–12, fuel cells are very common but at TL 10 they start becoming supplanted in larger vehicles by fusion Power plants.

After TL 12, fusion power is ubiquitous, although ultra-dense batteries are also found in many places.

By TL 16, anti-matter is in experimental use on the largest of vehicles.

In settings where compact fusion power is not developed, fuel cells, high-density batteries and MHD turbines are the most common high-tech powerplants, typically hydrogen-fuelled.

This system provides additional Armour equal to twice the vehicle's TL against HEAP rounds and high energy weapons and Armour equal to the vehicle's TL versus other kinetic rounds.

Electrostatic Armour can be overwhelmed. They will protect against two attacks every round at TL 9 and one additional attack per TL thereafter. So, a TL 14 system can protect against seven attacks per round.

ESA systems consume one Space per 10 Hull points of the vehicle and cost Cr. 10,000 per Space.

Nuclear Damper (TL 12)

The nuclear damper projects a wave that modifies the strong nuclear force and can thus either prevent nuclear weapons from operating or else detonate them prematurely. They cannot detonate weapons stored in damper boxes, however. It takes up 12 Spaces and costs Cr. 500,000.

Anti-missile Systems

Missiles, rockets and launched grenades are a significant threat to combat vehicles, being capable of taking out the most heavily-protected vehicles.

To combat this threat, a variety of anti-missile systems have been developed. They are often used in concert.

These systems will negate an incoming missile, rocket, launched grenade or mortar round on the roll of 8+. Some systems have Target DMs that modify this and every system will suffer a -1 DM for every additional target it is forced to engage in each round.

Explosive Belt (TL 8)

An Explosive Belt system is an array of explosive mine blocks attached to the exterior of the vehicle. They require no Spaces. This system uses the vehicle's sensor system to detect incoming warheads. They detonate an outward-facing charge loaded with hundreds of small steel and ceramic buck shot. The explosive belt can also be detonated manually, often for defence against infantry in close quarters. In such cases, the Explosive Belt causes 4D damage up to Short Range and is treated like a giant shotgun. The belt can target any threat fired from Short Range or longer. Each facing has enough mines to defend against 10 attacks each.

The Explosive Belt costs Cr. 15,000 and reloads cost Cr. 800 per shot.

Damage	Shots	Target DM
4D	10/facing	+0

Laser Anti-Missile System (TL10)

Laser-based anti-missile systems come in two varieties, based on Tech Level. The first, available at TL 10, uses a relatively low-powered laser to damage or destroy the seeker heads of missiles, sending them off-course. It is only effective against guided weapons and smart weapons. The second is available at TL 13 and uses a high-powered laser to damage or destroy missiles in flight. It cannot engage anything fired from Short Range or closer. The Laser Anti-Missile System takes up 4 Spaces and costs Cr. 250,000.

Weapon	DAM	DM
TL10	_	+1
TL13	2D	+2

Projectile-Anti-Missile System (TL8)

This system uses a small-calibre, very high rate of fire minigun to intercept and destroy incoming projectiles. It is first available at TL 8, with a gauss version available at TL 11. These systems cannot target anything fired from Short Range or closer. This system takes up 3 Spaces and costs Cr. 200,000.

Weapon	TL	DAM	Shots	DM
Minigun	8	1D	10	+0
VRF gauss	11	4D	15	+1

Decoy Systems

Each decoy system takes up half a Space and has six uses.

Smoke Dischargers (TL 3)

Smoke Dischargers render the vehicle difficult to see, giving a –2 DM all to hit rolls. At TL 7, radar-based targeting renders smoke dischargers largely ineffective. They remain effective against laser weapons, reducing damage by 3d6.

Flares (TL 6)

These blind thermal-seeking weapons with intensely-hot flares, giving a -2 DM on to hit rolls for TL 6-9 missiles.

Chaff Dispensers (TL 4)

These use dozens of reflective strips to confuse radar-seeking weapons, giving a -2 DM on to hit rolls for all radar-guided missiles.

Prismatic Aerosols (TL 9)

Prismatic Aerosols use hundreds of fine crystal spheres, finer than sand, to refract and deflect laser light. They have the effect of attenuating laser fire to a certain amount, reducing damage by 2D.

Decoys (TL 7)

This is an acoustic/optical decoy that is designed to confuse smart weapons that home in on silhouettes or shapes or, for underwater weapons, acoustic signatures.

Environmental Modifications Life Support, Short Term (TL 4)

Life Support supplies a breathable atmosphere no matter the exterior conditions. Short Term Life Support is good for one day. Maximum duration is four days before the system needs new air and filters.

Life Support uses one Space for every 20 people on the Vehicle. The system costs Cr. 10,000 per Space.

Life Support, Long Term (TL 7)

Advanced life Support provides comfortable life support for an extended period of time.

Long Term Life Support requires one Space per five people on the vehicle, round up and costs Cr. 50,000 per Space used. Long Term Life Support is good for 90 days.

Air Lock (TL 6)

Decoy Systems

An Air Lock uses two Spaces and costs Cr. 2,000.

Hostile Environment Protection (TL 7)

Hostile Environment Protection will safeguard the vehicle and its crew in dangerous but still marginally-habitable, environments. This includes protection against very hot or very cold environments, radiation, poisons and bacteriological threats. Hostile Environment Protection costs Cr5000 x Spaces and uses one Space.

Corrosive Environment Protection (TL 9)

This includes the use of ceramic and other corrosion-resistant materials integrated into the hull and control systems of the vehicle. Some form of Life Support must be purchased separately, although this modification includes the benefits of Hostile Environment Protection. This costs Cr. 10,000 x Hull Rating and uses two Spaces.

Insidious Environment Protection (TL 11)

Insidious atmospheres will eventually find their way through any protection. The Insidious Environment Protection provides time;

the vehicle and its occupants will be kept safe for a number of days equal to the TL of the vehicle, minus six, plus the Hull Value of the vehicle. After this has elapsed, the vehicle will start taking Hull and then Structure damage at the rate of one point per day. Some form of Life Support must be purchased separately, although this modification includes the benefits of Hostile Environment Protection. This costs Cr 50,000 x Hull Rating and uses two Spaces.

Vacuum Environment Protection (TL 6)

Vacuum Environment Protection provides complete protection against vacuum conditions. It requires some sort of Life Support Modification and includes the benefits of Hostile Environment protection. Vacuum Protection costs Cr. 10,000 x Spaces..

Electronic Modifications

Computers

Computers use the rules from page 92 of the *Traveller Core Rulebook*. Double costs for vehicular use but they take no Spaces.

Navigation

Navigation equipment helps a vehicle's occupants find their way around. Lack of navigation equipment simply means they have to make do with hand held equipment and maps.

Headlights are included within the chassis cost and all appropriate vehicles above TL 3 are assumed to have them.

There are three different categories of navigation systems: Basic, Standard and Advanced.

Туре	TL	Navigation	Cost (Cr.)
Basic	5	+1 DM	2,000
Standard	9	+2 DM	10,000
Advanced	13	+3 DM	50,000

Communications

Most communications use electromagnetic radiation, whether in the form of radio, lasers or masers. At high Tech Levels, meson communicators are also available.

Communicators are first available at TL 4, with a maximum range of Distant. Range increases by one range band per two Tech Levels. Additional features are also available at higher Tech Levels.

Decoy System	Spaces	Cost (Cr.)	Reload Cost	Effect
Smoke	1/2	1,000	100	–2 DM vs. visual attacks
Flares	1/2	1,200	150	–2 DM vs. thermal-guided attacks
Chaff	1/2	2,000	200	–2 DM vs. radar-guided attacks
Prismatic Aerosol	1/2	4,000	500	–2 DM vs. laser-guided attacks
Decoy	2	8,000	1,000	–2 DM vs. smart missile attacks

Tech Level	Base Range	BaseCost (Cr.)	Spaces	Features
4	Distant	500	0	Boosted range
6	V. Distant	1,000	0	Satellite uplink
8	Extreme	2,000	0.5	Tight beam
10	Continental	4,000	1.0	Encryption

Meson Communicators (TL 10)

Beyond conventional EM communication, the meson comm system uses the same technology found in meson weapons to create a virtually unstoppable communications system. While a meson screen can stop a meson comm, the odds of being able to erect one in exactly the right location to block a communication is unlikely in the extreme. Meson communicators can support boosted range, satellite uplink and encryption.

Meson comms require two Spaces for a system with a range of Distant and a cost of Cr. 50,000. Each range band increase adds an additional Space and doubles the base cost.

Boosted Range

Each additional range band doubles the cost of the communicator.

Tightbeam

Tightbeam uses a laser or maser instead of a radio to precisely aim the signal so it cannot be intercepted.

Satellite Uplink

This allows a communications system to communicate with a satellite or ship in orbit. It includes the necessary tracking equipment to stay locked on and is often combined with a tightbeam system.

Encrypted

At the same Tech Level, Encrypted Communications are almost impossible to crack, requiring an Formidable penalty on all Comms checks to try. A Tech Level difference between broadcaster and interceptor represents a bonus or penalty.

So, for example, if invading TL 15 marines intercept a TL 12 encrypted communiqué from insurgent forces, they gain a DM of +3 to decode it. If those insurgents managed to intercept an encrypted TL 15 transmission, they would have a -3 DM on their roll to decode it.

Electronic Countermeasures

Like most electronics and their counter-measures, relative Tech Levels are critically important. Basic communications and sensors are relatively easy to intercept and/or jam, while Standard and Advanced become increasingly more difficult. Tightbeam communications cannot be intercepted, save by pure luck but they can be jammed, with difficulty. The TL difference is a negative or positive DM in all attempts to intercept, decrypt or jam communications

Countermeasures Tasks

Туре	TL	Range	Bonus	Cost (Cr.)
Basic	5	Distant	+1	10,000
Standard	8	Very Distant	+2	20,000
Advanced	11	Continental	+3	40,000

Sensor/Comm Class	Basic	Standard	Advanced
Task	Difficult	Hard	Formidable

Sensors

Class	Bonus	Space	Range	Cost (Cr.)
Basic	0	0	Very Long	5,000
Standard	+1	1/2	Distant	15,000
Advanced	+2	1	Very Distant	25,000

The base Tech Level for all sensors is TL 5. For every three levels beyond that, cost increases by 50%.

Sensors are rated within their Tech Level. The difference in Tech Levels is a negative or positive DM for Sensor rolls.

So, for example, a TL 7 Advanced Sensor is trying to get a lock on a TL 10 stealth grav vehicle. It has a +2 DM for having Advanced Sensors but a -3 DM for the difference in Tech Level and a further -2 for the Stealth II on the grav vehicle for a total DM of -3

Conversely, a TL 13 gunship with Basic Sensors (+0) is trying to locate a TL 9 stealth fighter. The fighter has Stealth II, for a -2 DM. The gunship is a higher Tech Level and the difference is 4, for a further +4 DM. Total DM then is (-2+4) for a total of +2.

Range Increase

Sensor range can be increased. Double the cost per extra range band and it uses half a Space per range band.

Communications Modifications

Modification	TL	Range	Spaces	Cost
Boosted Range	4	+1 range band		x2 per range band
Tightbeam	8	_	+1	x3
Uplink	6	Orbital	+1	x3
Encrypted	10	—	—	x2

Underwater Sensors

	Bonus	Space	Range	Cost (Cr.)
Basic	+1	1	Long	5,000
Standard	+2	1 1/2	Very Long	15,000
Advanced	+3	2	Distant	25,000

The Tech Level for underwater sensors is also 5 and they have the same modifications as standard sensors. Surface sensors cannot be used underwater and vice versa.

Range Increase

Underwater Sensor range can be increased. Double the cost per extra range band and it uses one Space per range band.

Stealth Modifications

Stealth is the science of rendering a vehicle undetectable to sensors. Tech Level is critically important in the game between stealth and detection. The Tech Level difference between the stealth vehicle and the detector is a DM on detection rolls, positive if the detector is a higher Tech Level, negative if is lower Tech Level.

The listed bonus is applied as a DM against sensors of the same Tech Level. Cost is based on the Base Cost.

Stealth Class	Stealth Bonus	Cost (Cr.)
1	-1	50,000 x Hull
II	-2	100,000 x Hull
	-3	200,000 x Hull

Stealth is first available at TL 7.

Camouflage

Camouflage is distinct from stealth. Stealth is all about hiding a vehicle electronically. Camouflage, however, is about hiding it visually. In this context, that includes its infrared signature. It is less dependent on Tech Level differences, although all the camouflage in the world will not help you if you can be spotted by radar.

Accommodation Modifications

Infrared Masking						
IR Mask Class	TL	Bonus	Cost (Cr.)			
I	7	+1	25,000 x Hull			
II	9	+2	50,000 x Hull			
III	11	+3	100,000 x Hull			

Visual Camouflage

Stealth Class	TL	Stealth Bonus	Cost (Cr.)
	7	+1	50,000 x Hull
II	11	+2	150,000 x Hull
III	15	+3	300,000 x Hull

Ejection Seat (TL 5)

The ejection seat takes up two Spaces and is designed to blast the occupant clear. At lower Tech Level this means a suitable height to open a parachute but at higher Tech Levels it is merely sufficient to get clear of the vehicle until a grav chute can deploy. This costs Cr. 5,000.

Ejection Cocoon (TL8)

The cocoon is a lightly-armoured shell that also provides a limited, pressurised environment. It is used in high-speed aircraft and grav vehicles, where ejection could be very dangerous. It is also used in hostile environment situations.

The cocoon takes up three Spaces and seats one (included within the Space requirement). It costs Cr. 30,000.

High Capacity Seating

The normal standard of one Space per passenger or crew allows some elbow-room and limited room to move about. High-capacity seating greatly increases the seating density but takes away from room to move. High-capacity seating can be either double or triple. High-capacity seating cannot be used for troop seating or for control areas. Frequent flyers will be well aware of what it entails. Double capacity costs Cr. 2,000 per Space of the vehicle, while triple capacity costs Cr. 5,000 per Space

Item	TL	Spaces	Cost (Cr.)
Ejection Seat	5	2	5,000
Ejection Cocoon	9	3	30,000
Double Capacity seating	2	_	2,000 per Space
Triple Capacity Seating	2	_	5,000 per Space
Bunks	3	1	200
Galley, mini	5	2	1,000
Galley, full	4	6+1/10 catered for	2,000+500/person
Fresher	4	2	1,500
GP Lab	7	2 per person	5,000 per Space
Lab Space	9	1 Space per level per person	10,000 per Space
Living Space	3	Varies	1,000 per space
Rappelling Gear	5	_	500

Bunks

Bunks can accommodate up to two people, take up one Space and cost Cr. 200.

Galley

A Mini-galley takes up two Spaces, serves up to five people and costs Cr. 1,000. A Full Galley take up six Spaces, plus one Space per 10 people served. It costs Cr. 2,000 + Cr. 500 per person served.

Fresher (TL 7)

A Fresher, complete with toilet, sink and shower, takes up two Spaces and costs Cr. 1,500.

General Purpose Lab (TL 7)

A General Purpose Lab provides no bonuses but allows tasks to be performed with no penalty for missing tools/equipment. General Purpose Labs consume two Spaces per researcher using the lab and cost Cr. 5,000 per Space.

Lab Space (TL 9)

Lab Space includes analytic equipment, computer workstations and equipment appropriate to the discipline it is focussed on, defined during construction. Lab Space grants a skill DM equal to +1, +2 or +3 and take up one Spaces per bonus per researcher using it. A +3 DM lab, used by three researchers, would take up 9 Spaces. Cost is Cr. 10,000 per Space used.

Types of lab include: Physics, chemistry, biology, psychology, structures and materials. Other types are possible.

Additional Equipment and Tools

Autodoc

The Autodoc is a whole-body automated treatment system. At TL 10, the Autodoc has Medic 1, which increases by 1 at TL 12 and TL 14. Its effective Edu for diagnostic purposes is 10, while Dex for surgical treatment is 8. The Autodoc takes up two Spaces and costs Cr. 10,000.

Operating Theatre

An Operating Theatre is a room equipped for use as an emergency medical clinic. Until TL 10, the vehicle must remain stationary in order for the Operating Theatre to be used. After that, the theatre can be built on a stabilised bed that allows it to be used while the vehicle is in motion.

TL	Spaces	Cost
7-10	4+3 per patient	Cr. 20,000 + Cr. 10,000 per patient capacity
11+	8+5 per patient	Cr. 50,000 + Cr. 20,000 per patient capacity

Low Berth (TL 10)

The Low Berth is a standard hibernation unit, common for steerage-class interstellar transport. In vehicles, they are often part of an emergency response system, where accident victims can be placed into hibernation to prevent their condition from getting even worse. A Low Berth takes 4 Spaces and costs Cr. 50,000.

Emergency Low Berth (TL 12)

A conventional Low Berth takes several minutes to induce hibernation and lower core temperature. The Emergency Low Berth can do a 'crash' induction, plunging a person into deep hibernation in a fraction of the time. It takes up 6 Spaces and costs Cr. 100,000.

Fire Extinguishers

Fire Extinguishers are designed to put out fires internal to the vehicle. They take up no space and cost Cr. 500.

Water Cannon

Water Cannon are used for fire suppression, riot control and dispersal of chemicals. A water cannon costs Cr. 2,000, takes up one Space and requires one Space per minute's firing duration of liquid carried. Water Cannon have a maximum range of Medium.

Survey Sampling Equipment

This covers several different types of equipment that act to sample atmosphere, ground and any water or other fluids.

Atmosphere Samplers

A system of collectors, pipes and filters for atmosphere sampling, including any particulates, taints and organic matter. It takes up 3 Spaces and costs Cr. 10,000.

Geology Samplers

An array of scooping devices for shallow ground testing along with a hollow-core drills capable of drilling down one kilometre. It takes up 15 Spaces and costs Cr. 100,000. Geology Samplers add a +1 DM to all geology-based checks at TL 10 and a +2 DM at TL 14.

Hydrology Sampler

This is a set of liquid sampling equipment, holding tanks and testing equipment. It costs Cr. 10,000 and takes up 5 Spaces. Hydrology Samplers add a +1 DM to all hydology-based checks at TL 10 and a +2 DM at TL 14.

Holding Tank (TL 8)

A holding tank is a sealed enclosure equipped with longduration life support system. The holding tank can recreate many atmospheric mixes and can draw in, compress and store a local planetary atmospheric sample in order to sustain any lifeforms held in the tank. Holding tanks can be built to any size, at the cost of Cr. 5,000 per Space.

Digging Equipment (TL 5)

External digging and scooping equipment, costing Cr. 25,000 and taking up 10 Spaces.

Cutting Equipment (TL 5)

External heavy duty saws, water knives or plasma cutters, depending on Tech Level. These cost Cr. 10,000 and take up 5 Spaces.

Manipulator Arms

Manipulator Arms are remote appendages with claws or hands. Manipulator arms vary in Strength and Dexterity. Arms have a Str of 2 and a Dex of 1, with a cost of Cr 10,000. Increasing Str or Dex costs Cr. 5,000 per point, to the maximum indicated in the table below.

TL	Max. Str	Max. Dex
5	6	4
8	12	8
11	18	12
14	24	16

Light Crane

Light Cranes can lift up to 400 kilograms and can be used as rescue equipment. Light cranes cost Cr. 2,500 and take up 1 Space.

Medium Crane

Medium Cranes can lift up to 2,000 kilograms. They cost Cr. 40,000 and take up four Spaces.

Heavy Crane

Heavy Cranes can lift up to 10,000 kilograms. They cost Cr. 100,000 and take up eight Spaces.

Cargo Arm

This is a heavy-duty manipulator arm used for lifting cargo in confined spaces. Cargo Arms have a base Str of 30 and a Dex of 0 and cost Cr. 50,000.

Internal Vehicle Bays

These take up a number of Spaces equal to the Shipping Size, multiplied by 10. This allows a small amount of room for maintenance purposes. Tighter stowage can be had for five

Spaces per ton but the carried vehicles have to be removed by a crane or similar apparatus before use or maintenance.

Refrigeration (TL 5)

Takes up one space for every 10 Spaces that are to be refrigerated. This costs Cr. 1,500 per space.

Wet Bar (TL 2)

A basic wet bar, usually species-specific. It takes up half a Space and costs Cr. 2,000.

Entertainment System (TL 5)

Both audio and visual, this takes up no Space and costs at least Cr. 200. Players intending to impress may want to spend more. Much more.

Holo-suite (TL10)

This is advanced holographic projection suite. Often used on exploration vehicles as a large display unit, it has other, less wholesome, uses. It takes up 1 Space and costs Cr. 15,000.

Hot tub/pool (TL 6)

This takes up 1–3 Spaces per person capacity, depending on the luxury sought after and costs Cr. 3,000 per Space.

Refuelling Station (TL 9)

The refuelling station is designed to turn water into hydrogen fuel, using the sun as a power source. It requires a significant amount of space and access to both water and sun. At TL 9, it requires a vehicle's Hull value multiplied by three hours to crack sufficient fuel to completely refuel the vehicle. At TL 12 this is reduced to the vehicle's Hull score alone in hours. Refuelling stations require 4 Spaces plus 1 Space per 10 points of Hull (of the vehicle to be refuelled). They cost Cr. 15,000 per Space.

Aliens

Humans of all types require one Space per person, whether they are passenger or crew. Alien races, however, may require more.

Species	Space Required
Human	1
Aslan	1 1/2
Vargr	1
K'kree	3
Hiver	2
Droyne	1



Representing the ultimate in individual protection, battle dress is an advanced and powered version of combat armour, although it is constructed very differently. Battle dress enhances the strength and senses of the wearer with variable feedback personal controls, servo-powered limbs and various kinds of electronic assistance.

Characteristics

Characters wearing battle dress are treated as having enhanced characteristics for the purposes of carrying and combat but not for taking damage. Battle dress protects against environmental hazards in the same way as a Hostile Environment Vacc Suit.

All battle dress provides effectively unlimited Endurance for purposes of determining fatigue. They are limited only by the duration of their power cells and their operators.

BATTLE DRESS DESIGN

Battle dress design follows a simple process, much like vehicle design

- Choose a chassis type and Tech Level
- Add Armour
- The cost of the chassis plus Armour is the Base Cost, used for all other modifications
- Add Modifications
- Add weapons
- Add utility packs

Each chassis has a table, showing performance by Tech Level.

Slots: Amount of space available in the suit for weapons and options. The increasing Slots per Tech Level more reflects miniaturisation and increased carrying capacity than actual space in the suit. A Slot represents an approximately pistol-sized piece of gear.

Str Modifier: This is the DM added to the user's Strength while wearing the suit.

Dex Modifier: This is a DM applied to Dex while wearing the suit, representing the speed and stability of the suit, especially when used as a firing platform.

Base Damage: The damage caused by unarmed attacks made by the battle dress, before being modified for Strength.

Max. Armour: This is the maximum Armour the suit can support, by Tech Level. The base Armour for any suit is 0.

Duration: Hours the suit can operate at full combat power.

Cost: Cost in Credits.

Speed: This is the walk and running speed, in metres per round.

Shipping Size: This is the volume, in starship tons, that one suit takes up as cargo.

ULTRA-LIGHT **C**HASSIS

The ultralight chassis is little more than a light-weight powered exoskeleton. It is primarily used at lower Tech Levels to provide mobility to paralysed and otherwise incapacitated people before the advent of nerve fusion. It is sometimes used by soldiers and hikers as a load-bearing system, allowing them to carry a large-than-normal allotment of gear for long periods of time.

	TL 9–10	TL 11–12	TL 13–14	TL 15–16
Slots	4	6	8	10
Str Modifier	+0	+1	+2	+3
Dex Modifier	+0	+2	+4	+6
Base Damage	1d6	1d6	1d6	1d6
Max. Armour	10	12	14	16
Duration	12 hours	24 hours	36 hours	48 hours
Cost (Cr.)	10,000	20,000	30,000	40,000
Speed (Walk/Run)	6/30	12/60	25/125	50/250
Shipping Size	0.05	0.05	0.05	0.05

LIGHT CHASSIS

Light battle dress is used in more specialised roles, often either fast recon units or protection for rear-echelon troops.

	TL 9–10	TL 11–12	TL 13–14	TL 15–16
Slots	8	10	12	14
Str Modifier	+1	+2	+3	+4
Dex Modifier	+0	+2	+4	+6
Base Damage	1d6+2	1d6+2	1d6+2	1d6+2
Max Armour	14	16	18	20
Cost (Cr.)	50,000	80,000	110,000	140,000
Speed (Walk/Run)	5/25	10/50	20/100	40/200
Duration	8 hours	16 hours	24 hours	32 hours
Shipping Size	0.07	0.07	0.07	0.07

MEDIUM CHASSIS

The medium chassis is the basis of standard Imperial Marine battle dress and is used for most frontline powered armours.

	TL 9–10	TL 11–12	TL 13–14	TL 15–16
Slots	12	14	16	18
Str Modifier	+2	+3	+4	+5
Dex Modifier	+0	+2	+4	+6
Base Damage	2d6	2d6	2d6	2d6
Max Armour	18	20	22	24
Cost (Cr.)	200,000	250,000	300,000	350,000
Speed (Walk/Run)	3/15	6/30	12/60	24/120
Duration	6 hours	12 hours	18 hours	24 hours
Shipping Size	0.1	0.1	0.1	0.1

HEAVY CHASSIS

Heavy suits are used in assault and support roles. Many are found spearheading attacks, often with mobility boosts, while similarsized suits can be found toiling behind the lines, building entrenchments and loading heavy guns.

	TL 9–10	TL 11–12	TL 13–14	TL 15–16
Slots	16	18	20	22
Str Modifier	+3	+4	+5	+6
Dex Modifier	-2	0	+2	+4
Base Damage	3d6	3d6	3d6	3d6
Max Armour	22	24	26	28
Cost (Cr.)	500,000	600,000	700,000	800,000
Speed (Walk/Run)	2/10	4/20	8/40	16/80
Duration	3 hours	6 hours	12 hours	24 hours
Shipping Size	0.15	0.15	0.15	0.15

ULTRA-HEAVY

Ultra-heavy battle dress blurs the line between armour and walking vehicles. They are used in heavy support roles, where their ability to carry heavy battlepacks allows them to bring considerable firepower to bear.

	TL 9–10	TL 11–12	TL 13–14	TL 15–16
Slots	20	22	24	26
Str Modifier	+4	+5	+6	+7
Dex Modifier	-4	-2	0	+2
Base Damage	4D	4D	4D	4D
Max Armour	26	28	30	32
Cost (Cr.)	1,000,000	1,250,000	1,500,000	1,750,000
Speed (Walk/Run)	1/5	2/10	4/20	8/40
Duration	2 hours	4 hours	8 hours	16 hours
Shipping Size	0.25	0.25	0.25	0.25

Battle Dress in Vehicles

While based on the human frame, battle dress is bulkier than an un-armoured person.

Ultra-light exoskeletons, without Armour, can be used in doublecapacity seating but not triple-capacity. With Armour, they require normal seating.

Light battle dress, whether a bare exoskeleton or an armoured suit, requires regular seating at one Space per suit. Any heavy weapons have to have cargo space allocated.

Medium battle dress is quite bulky and requires two Spaces per suit, plus space for heavy weapons.

Heavy battle dress requires three Spaces per suit.

Ultra-heavy battle dress requires four Spaces per suit.

Armour

Each point of Armour costs Cr. 50,000, up to the maximum supported by the chassis. This represents not just the armour itself but the systems required to support the armour.

Heavy Armour

It is possible for battle dress to have more Armour than the listed maximum for its chassis but it will be a heavy and ponderous piece of equipment.

For every additional -1 DM to Dex the battle dress is given, a further two points of Armour can be added. This may be done three times, for a maximum Dex DM of -3 and 6 extra points of Armour.

Base Cost

The total spent on the chassis and Armour is the Base Cost of battle dress, a figure used to calculate the cost of a lot of equipment and modifications that can now be added.



Slots

Equipment slots are available space for mounting modifications, equipment and small arms. Heavy weapons have to be either carried or on mount points.

MOUNT POINTS

In addition to Slots, battle dress may also mount heavy weapons in Mount Points. Mount Points are areas of a suit that can be locked and stabilised to withstand the recoil of a heavy weapon.

Mount Points allow vehicle-scale heavy weapons to be used with battle dress. Each Space of heavy weapons on a vehicle requires eight Slots on battle dress. A 1 Space weapon can be arm-mounted, taking up the entire arm. A 2 Space weapon can be shoulder mounted, while 3 Space weapons have to be back-mounted.

Battle dress up TL 12 and lower cannot move and fire Mount Point weapons in the same round. At TL13 gravitic stabilisation of the weapon becomes possible, allowing these armour to move and fire with these heavy weapons.

Carried Weapons

In addition to weapons in Slots or on Mount Points, battle dress can also carry weapons, much like a soldier carries an assault rifle. Conventionally-sized small arms can be used with no penalty by ultra-light and light chassis. Medium chassis can use rifles but cannot use pistols unless the weapons have been modified for use by the larger fingers of the suit. Heavy chassis have a -1 DM to their use, will ultra-heavy chassis have a -2 DM to their use. This only applies to rifles, as pistols and SMGs are simply too small to be used.

Weapons purpose-built for battle dress do not suffer these penalties. Heavy chassis can carry a one Space weapon, while ultra-heavy chassis can carry a two Space weapon.

Using other weapons on Battle Dress

An equipment slot is approximately the same size as a large pistol. Pistols take one Slot, SMGs and carbines 2 Slots and rifles 3 Slots.

Slot Mounts

Slot weapons are interchangeable but it requires the services of an armourer (with Mechanic1) to do the change. Normal weapons cannot be placed into a Slot without an extensive amount of work, typically costing up to twice the value of the weapon.

DATIELDRESS W							
Hand carried	TL	Cost (Cr.)	Damage	Auto	STR	Range	Ammo
Heavy Machinegun	6	8,000	5d6 SAP	6	12	Rifle	100
Light Autocannon	7	9500	6d6 SAP	6	14	Rifle	50
PGMP-13	13	65,000	12d6	No	12	Rifle	10
FGMP-14	14	100,000	16d6	No	14	Rifle	12
Gauss Rifle	12	2,000	4d6	4	8	Rifle	100
RF Gauss Rifle	13	16,000	4d6 AP	8	9	Rifle	500
MagRail Rifle	13	2,500	4d6+2	4	10	Rifle	10
Gauss Shotgun	12	4,500	8d6	No	8	Shotgun	12
Gauss Flamer	13	10,000	6d6+6	No	9	Rifle	40
Slotted	TL	Cost (Cr.)	Damage	Auto	Slots	Range	Ammo
Gauss Pistol	12	500	3d6 AP	4	1	Rifle	40
Gauss SMG	13	1,200	3d6+1 AP	4	1	Rifle	500
Seeker Gun	13	1,200	4d6	No	1	Rifle	6
Hand Flamer	10	1,400	3d6+6	No	2	Pistol	6
Laser Carbine	11	3,200	4d6	No	2	Rifle	50

BATTLEDRESS WEAPONS

BATTLE DRESS

Mount Point Weapons	TL	Cost (Cr.)	Damage	Auto	Spaces	Range	Ammo
Plasma Bazooka	11	15,000	10d6	No	1	Rifle	5
Recoilless Rifle	5	8,000	10d6 AP	No	2	Rifle	3
Medium Autocannon	6	6,000	7d6 SAP	6	2	Dist	400
Rocket Pod	6	10,000	6d6	6	2	Dist	24
Heavy Plasma Gun	12	250,000	14d6	No	2	V. Long	12
Advanced Anti-Armour Gun	14	50,000	14d6 Super- AP		3	Dist	50
Heavy Fusion Gun	14	200,000	18d6 AP	No	3	V. Dist	10
Mass Driver Cannon	13	250,000	16d6 Super- Ap	2	3	V. Dist	20
Tac Missile Pack	10	22,000	Varies	0	3	Varies	4

MODIFICATIONS

The following items are modifications used with battle dress.

Strength Increase

Strength can be increased by +1, at a cost of 10% of the Base Cost. This may be done up to 10 times.

Extended Duration

This adds additional power cells to the suit. Every 50% increase in duration costs Cr. 10,000 and uses one Slot. This cannot be used on the same battle dress as Decreased Duration.

Decreased Duration

Decreased duration uses smaller or lower-powered power cells to save cost. Each 10% decrease in Duration reduces the Base Cost by Cr. 5,000. This cannot be used on the same battle dress as Extended Duration.

Increased Speed

Battle dress maximum speeds can be increased. For every 10% increase in Speed, increase the cost by 25% of Base Cost.

Decreased Speed

Speed can also be decreased. For each 33% decrease in Speed, decrease Base Cost by 25%.

Enhanced Manoeuvrability

Each point of Dex penalty can be removed at a cost of 50% of the Base Cost. This can reduce the Dex penalty but cannot add a bonus.

Lowered Manoeuvrability

Lowering manoeuvrability can either increase the Maximum Armour permitted (see page 40) or, as here, reduce the price of the battle dress. Each point of Dex penalty taken, to a maximum of -3, will reduce the Base Cost of the suit by 10%.

Stealth (TL9)

Stealth is the art of rendering a suit of armour undetectable to sensors. See page 46 for more details.

The listed bonus is applied against sensors of the same Tech Level. Cost is based on the Base Cost.

Stealth Class	Stealth Bonus	Cost
I	+1	200%
П	+2	400%
III	+3	600%

Extended Life Support

Extended Life Support provides complete life support, including food, water, waste collection and recycling for up to 72 hours. Extended Life Support uses two Slots and costs 10% of the Base Cost.

Corrosive Environment Protection

This coating provides effectively unlimited protection in a corrosive environment. It integral costs 25% of the Base Cost and requires no Spaces.

Insidious Environment Protection

Suits can be designed to be resistant to Insidious atmospheres. Insidious Environment Protection will provide protection for 72 hours before it starts to degrade, at the rate of one point of Armour per hour. Insidious Environment Protection costs 100% of the Base Cost of the suit, as every component has to be protected.

Medikit (TL9)

This internal medikit provides support and assistance to the wearer. It can diagnose medical emergencies as if it had Medic2 and can heal up to four points of damage instantly, although the effects only last for 1d6 hours. It takes up one Slot and costs Cr. 25,000.

Advanced Medikit (TL12)

This internal medikit is more effective than the standard model. It can repair up to six points of damage instantly, although the effects only last for 1d6 hours. It also has the equivalent of Medic3 for treatment and diagnostic purposes. It takes up one Slot and costs Cr. 50,000.

CAMOUFLAGE

Camouflage provides bonuses to Stealth rolls.

Basic Camo

Shatter-pattern paint scheme in colours designed to help blend into the local environment. This adds a +1 DM to Stealth checks and costs Cr. 500.

IR Camo (TL8)

IR camo selectively bleeds the suit's temperature to match background levels. It does not work in vacuum environments. This adds a +2 DM to Stealth checks vs. heat-seeking and IR sensors and costs Cr. 25,000.

Active Camo (TL10)

Active camo allows a choice of camo patterns and colours and instantly changes the suit's surface to match. This adds a +2 DM to Stealth checks and costs Cr. 50,000.

Looking Glass (TL15)

Looking Glass is an expensive system that uses quantum waveguides to bend light around the suit, resulting in nearinvisibility from all angles. It uses one Slot, costs Cr. 200,000 and adds a +4 DM to Stealth checks.

Sonic Suppresser (TL10)

An active system that constantly monitors the sounds being made by the suit and broadcasts sound waves in direct opposition, in order to cancel them out. Takes up one Space. It costs Cr. 20,000 and adds a +2 DM to Stealth checks.

IR Camo and the Sonic Suppressor can be combined with either the Basic, Active or Looking Glass systems.

ELECTRONICS

Computer

All battle dress has a computer to run the suit itself. They can also be equipped with a computer to perform ancillary functions. The primary value of a computer is to interface with other systems on the suit and run applications to support and enhance these functions.

Computers use one Slot and use the rules from page 92 of the *Traveller Core Rulebook*.

Typical Expert System skills includes Sensors and Recon, to assist in spotting targets. At TL 12 and higher, an Expert system on an onboard computer can take control of the suit even if the operator is dead or incapacitated. It generally is not so well-known that such an Expert system can potentially also take control of the suit even if the operator is conscious and resisting.

Navigation

Enhanced tools for making your way through the world.

There are three different categories of navigation systems: Basic, Standard and Advanced.

Туре	TL	Slots	Navigation DM	Cost (Cr.)
Basic	5	1	+1	2,000
Standard	9	2	+2	10,000
Advanced	13	4	+3	50,000

Communications

Most communications use electromagnetic radiation, whether in the form of radio, lasers or masers.

Basic communicators are first available at TL 4, have a range of Distant and cost Cr. 1,000. They can support Boosted Range.

Standard communicators are first available at TL7, have a range of Very Distant and cost Cr. 2,000. They can support Boosted Range, Satellite Uplink and Encryption.

Advanced communicators are first available at TL 10, have a range of Extreme and cost Cr. 4,000. They can support all options.

Туре	TL	Range	Slots	Cost (Cr.)
Basic	4	Dist	1	1,000
Standard	7	V.Distant	2	2,000
Advanced	10	Continental	3	4,000

Communications modifications

Modification	TL	Range	Slots	Cost
Boosted Range	4	+1 Range band	+1	x2 per Range band
Tightbeam	9	—	+1	х3
Uplink	7	Orbital	+2	x3
Encrypted	9	—	—	x2

Boosted Range

Each additional range band desired doubles the cost of the communicator.

Tightbeam

Tightbeam uses a laser or maser to precisely aim the signal so it cannot be intercepted.

Satellite Uplink

This allows a communications system to communicate with a satellite or ship in orbit. It includes the necessary tracking equipment to stay locked on and is often combined with a tightbeam system.

Encrypted

At the same Tech Level, Encrypted communications are Formidable to crack. Tech Level difference represents a DM, depending on whether the reading equipment is from a higher or lower tech. So, if invading TL 15 Imperial marines intercept a TL12 encrypted communiqué from insurgent forces, they have a DM of +3 to decode it. If those insurgents managed to intercept an encrypted TL15 transmission, they would be at -3 on their roll to decode it.

Electronic Countermeasures

Like most electronics and their counter-measures, the relative Tech Levels are critically important. Basic communications and sensors are relatively easy to intercept and/or jam, while Standard and Advanced become increasingly more difficult. Tightbeam communications cannot be intercepted, save by pure luck but they can be jammed with difficulty. TL difference is a negative or positive DM in all attempts to jam communications.

Countermeasures Tasks

Туре	TL	Range	Slots	Bonus	Cost (Cr.)
Basic	8	Long	1	+1	10,000
Standard	11	Distant	2	+2	20,000
Advanced	14	Very Distant	4	+3	40,000

Sensor/Comm Class	Basic	Standard	Advanced
Task	Difficult	Hard	Impossible

SENSORS

The base Tech Level for all sensors is TL8.

Sensors are rated within their Tech Level. The difference in TL is used as a positive or negative DM. This is in addition to any effects from Stealth (see page 44).

Class	Bonus	Slots	Range	Cost (Cr.)
Basic	+0	1	Long	10,000
Standard	+1	3	Very Long	20,000
Advanced	+1	5	Distant	35,000

Underwater Sensors

Class	Bonus	Slots	Range	Cost (Cr.)
Basic	+1	1	Long	5,000
Standard	+2	2	Very Long	15,000
Advanced	+3	4	Distant	25,000

The basic Tech Level for underwater sensors is also 8 and they have the same modifications as standard sensors. Surface sensors cannot be used underwater and vice versa.

Modifying Sensors

The following items can be used to modify sensors.

Range Increase

Sensor range can be increased at a cost of doubling the sensor's cost for every additional Range band desired.

Sensory Extensions

A boom mount for video and audio sensors, allowing the suit to peek around corners without exposing itself to fire. Uses one Slot, costs Cr. 1,000.

Enhanced Visual Sensors

These sensors add low-light, telescopic optics and thermal imaging to a suit's capabilities. They take up no Slots and cost Cr. 15,000.

Enhanced Audio Sensors

These sensors add high and low-frequency hearings, audio enhancement and, when required, audio dampening to a suit. They take up no Slots and cost Cr. 7,000.

DEFENCES

Static Armour (TL13)

Similar to the electrostatic armour found on vehicles, Static Armour can dissipate the energy of incoming plasma, fusion and HEAP weapons. Static Armour can also damage unprotected infantry forces if they attempt to move within Personal range of the battle dress. Unlike the more powerful systems on vehicles, Static Armour has no effect on kinetic weapons. Static Armour adds its TL to the battle dress Armour against fusion, plasma and HEAP warheads. It will causes 3D damage to infantry who get into Personal range.

Static Armour

Slots	Cost (Cr.)	Effect	Attacks per round
3	20,000	+TL vs. HEAP & high-energy	2, +1 per TL after 13

Anti-missile Systems

Missiles, rockets and launched grenades are a nightmare to battle dress. While the suits have enough armour to withstand small-arms attacks, the concentrated firepower of explosive weapons can often crack many suits, making them an effective equaliser.

To combat this threat, a variety of anti-missile systems have been developed. They are often used in concert.

These systems will negate an incoming missile, rocket, launched grenade or mortar round on a roll of 8+. Some systems have Target DMs that modify this and every system will suffer a -1 DM for every additional target it is forced to engage in each round.

Explosive Belt (TL 8)

An Explosive Belt system is an array of explosive mine blocks attached to the exterior of the battle dress. They require no Spaces. This system uses the battle dress' sensor system to detect incoming warheads. They detonate an outward-facing charge loaded with hundreds of small steel and ceramic buck shot. The explosive belt can also be detonated manually, often for defence against infantry in close quarters. In such cases, the Explosive Belt causes 4d6 damage up to Short Range and is treated like a giant shotgun. The belt can target any threat fired from Short Range or longer.

The Explosive Belt costs Cr. 5,000 and reloads cost Cr. 400 per shot. It uses 1 Slot.

Damage	Shots	Target DM
4D	5	+0

Laser Anti-Missile System (TL10)

Laser-based anti-missile systems come in two varieties, based on Tech Level. The first, available at TL 10, uses a relatively low-powered laser to damage or destroy the seeker heads of missiles, sending them off-course. It is only effective against guided weapons and smart weapons. The second is available at TL 13 and uses a high-powered laser to damage or destroy missiles in flight. It cannot engage anything fired from Short Range or closer. The Laser Anti-Missile System takes up 2 Slots and costs Cr. 150,000.

Weapon	DAM	DM
TL10	—	+1
TL13	2d6	+2

Projectile-Anti-Missile System (TL8)

This system uses a small-calibre, very high rate of fire minigun to intercept and destroy incoming projectiles. It is first available at TL 8, with a gauss version available at TL 11. These systems cannot target anything fired from Short Range or closer. This system takes up 1 Mount Point and costs Cr. 80,000.

Weapon	TL	DAM	Shots	DM	
Minigun	8	1d6	10	+0	
VRF gauss	11	4d6	15	+1	

Swarm Hive (TL13)

This swarm is a cloud of insect-sized robots, used primarily for recon purposes, although they can also be used to attack unarmoured or lightly-armoured opponents. Swarms can survive for up to one hour outside of their battle dress.

A swarm can penetrate any unsealed vehicle or building. A swarm pack is TL 13, uses two Slots and costs Cr. 45,000.

In attack mode, a swarm can do 2d6 damage per round to opponents. As reconnaissance units, Swarms add a +2 DM to Recon skill checks.

MOBILITY OPTIONS

Powered Wheels

This is a set of pop-down powered wheels that give battle dress high mobility on smooth roadways. Powered wheels consume 2 Slots and cost Cr. 10,000. They double the suit's movement on roads but are unusable off-road.

Air Cushion System

The Air Cushion system uses a high-speed blower and a set of inflatable skirts on each foot to lift and propel the battle dress over the ground. The system can handle just about any terrain save for dense forest and undergrowth. The air cushion uses 2 Slots and costs Cr. 25,000. Maximum speed is 100km/h.

Flight Pack

The flight pack, available at TL 9, is a small jet engine and a set of wings and can only be used with ultra-light suits. It uses 4 Slots and costs Cr. 50,000. A suit in flight mode has a maximum speed of 300 kilometres per hour, with a maximum range of 200 kilometres.

Grav Pack (TL12)

This is the ultimate mobility enhancement for powered armour and allows free flight for any suit so equipped. The Grav Pack uses 2 Slots and costs Cr. 100,000. The Grav Pack gives the suit free flight with a maximum speed of 200 kilometres per hour and Agility +1. This increases to 400 kilometres per hour and Agility +2 at TL 14.

Parachute (TL4)

Available from TL4 on, the Parachute is a simple harness and deployment system for a large canopy capable of supporting the weight of a suit of battle dress. It takes 3 Slots. Cr. 4,000.

Grav Chute (TL9)

A Grav Chute uses a low-powered grav lifter and shielded power cell to give the suit limited flight abilities. The Grav Chute module usually supports the suit, in a manner similar to conventional parachutes, so that it can be cut away when the suit lands, sparing the extra weight and bulk. A Grav Chute uses 2 Slots and costs Cr. 10,000.

Swimmer System

The swimmer system allows battle dress to move around unrestricted under water, at speeds up to the suit's running speed. Life support must be purchased separately. The Swimmer System uses 2 Slots and costs Cr. 15,000.

Safe depth for battle dress is 100 metres, while crush depth is 250 metres. Safe and crush depths can be improved: Each 50% increase in Safe Depth/Crush Depth costs 100% of the Base Cost of the battle dress.

Miscellaneous

Armoured Coveralls

Armoured coveralls provide some additional protection to the suit but their main role is to keep contaminants and debris out of the complex joints of a powered suit. Coveralls provide an additional two points of Armour (which can take the battle dress above its normal maximum Armour) and cost Cr. 10,000. They use no Slots.

Tool Kit

A set of basic mechanic tools, powered off the suit's own power supply. This includes screwdrivers, drill, wrench and saw. Uses 2 Slots and costs Cr. 1,800.

Med Pack

The med pack is an advanced 'smart' medical diagnostic and dispensary. It contains up to five doses of a variety of drugs and is equipped with an expert system that either gives a +1 DM on all Medic skill checks or else can operate on its own as if it had Medic1. It costs Cr. 5,000.

Smoke Discharger

This pack include three smoke dispensers, which can lay down a cloud of thermally-opaque smoke giving a -2 DM all to hit rolls. At TL 7, radar-based targeting renders smoke dischargers largely ineffective. They remain effective against laser weapons, reducing damage by 3D. They use 1 Slot and cost Cr. 500 per pack.

Prismatic Aerosol Dispenser

Similar to the smoke discharger, the prismatic aerosol dispenser fires a cloud of diamonoid dust, which refracts and breaks up laser fire, including laser designators for smart weapons. This provides a -2 DM for to hit rolls for all laser weapons, including designators. It uses 1 Slot and costs Cr. 1,000 per pack.

Chaff Dispenser

The Chaff dispenser fires a cloud of radar-reflective strips, which confuse active sensors systems and missile guidance systems, giving a -2 DM on to hit rolls for all radar-guided missiles. It uses 1 Slot and costs Cr. 1,000 per pack.



Vienique Design Examples

GROUND CAR

A TL 10 Ground car, capable of holding five people, plus cargo. It should be faster and handle better than a stock car.

Five Spaces for crew and passengers, plus two Spaces for cargo, seven Spaces. At Cr. 1,200 per space, the base price of the Ground Car is Cr. 8,400. This is used as the basis for all other calculations.

Structure is equal to Spaces/2, rounded down. Hull is equal to Spaces/2, round up. So Structure is 3 (7/2, rounding down), while Hull is 4.

Base Agility is 0, while Base Speed and Range are 150 kilometres per hour and 400 km respectively.

We are going to boost both Speed and Agility.

Each 10% increase in Base Speed costs 10% of the Base Vehicle Cost and uses 1 Space. So we are going to boost Speed by 20%, which will costs us 20% of the Base Cost of Cr. 8,400. However the number of Spaces needs to be increased first to allow for the additional speed.

So we return to the start and opt for nine Spaces, costing Cr. 10,800 (Cr. $1,200 \times 9$), with a Structure of 4(9/2, rounding down) and a Hull of 5 (9/2 rounding up).

Increasing speed twice now costs Cr. 2,120. A 20% increase in speed brings us an increase up to 220 kilometres per hour.

Each extra point of Agility increases the cost of the vehicle by 50%. 50% of Cr. 10,800 is Cr. 5,800.

A Basic Navigation system at Cr. 2,000 and an entertainment system at Cr. 200 round out the design.

Shipping size is the number of Spaces divided by two, in tons (1/2 ton per Space). 9 divided by 2 is 4.5 so it takes 4.5 tons to ship a Ground Car in a starship.

Total price is Cr. 18,720.

The Stat block looks like this:

Vehicle	TL	Skill	Agility	Speed	Range	Crew and Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Car	10	Drive (wheeled)	+1	220	500	1/4	0.5 tons	No	5	4	18,720	4.5

Armour

Location	Armour
Front	4
Right	4
Left	4
Rear	4
Тор	4
Bottom	4

Other Equipment Navigation (Basic), Entertainment System (Cr. 200)

VEHICLE DESIGN EXAMPLES

THE G-CARRIER

The next example is a G-Carrier, which is designed as a Heavy Grav Vehicle. It is not a full combat vehicle, more of a light patrol and scout vehicle.

First step is to determine how many passengers, crew and weapons we want to carry. Eight passengers makes a decent light infantry squad and two people should be able to handle the vehicle and weapons. Primary weapon will be a VRF gauss gun, with two Light TAC missiles (anti-air) for added punch.

So far that is 10 Spaces for crew, five Spaces for weapons. Other systems will take up additional Spaces, so we will call the G-Carrier an even 20 Spaces.

A 20 Space TL 14 Heavy Grav vehicle costs MCr. 2, has 10 hull and 10 structure, Agility +1, a top speed of 500km/h and a range of 4,000 km. Base armour is 5.

Making it an AFV costs an additional 100%, doubling the price. New base price is now MCr. 5. Range is halved and base armour is doubled to 10. All other stats stay the same. This uses two Spaces (10% of total).

We are going to add 30 points of armour to the hull. That is three times the base armour value, which will cost 30% of the

vehicle's base cost (an additional Cr. 300,000), it also reduces speed by 20 kilometres per hour. This gives us a total armour of 40. We can allocate 50% of the armour as we choose instead of simply raising every area. We will increase the front armour to 70 and decrease both sides and rear to 30. We will leave top and bottom at 40. The turret, when installed, will have armour 60 for the turret front and 20 for side/rear.

The G-carrier Carries a VRF gauss gun and two TAC missiles in a remote turret. These five Spaces of weapons cost Cr 125,000 for the turret (5 x 25,000), plus Cr 206,000 for the weapons. The Turret system itself takes an additional space.

Life support is one Space and Cr. 10,000.

Hostile Environment Protection is one space and Cr. 100,000 (Cr. 5,000 x spaces).

Standard Nav is Cr. 10,000.

A Tech Level 8 Com with extreme range with a tight beam feature costs Cr. 2,000 and requires $\frac{1}{2}$ a space.

Standard Sensors are 1/2 space and Cr. 15,000.

Finally, the shipping size of the g-Carrier is $\frac{1}{2}$ ton per Space, so the 20 Space vehicle takes up 10 tons on a starship.

Vehicle	TL	Skill	Agility	Speed	Ra	ange	Crew and Passenger		Cargo	Оре	en?	Hull	Structure	Cost (Cr.)	Shipping Size
G- Carrier	14	Flyer (grav)	+1	440	2,0	000	2/8	1	No	No		10	10	4, 858, 000	10 tons
Location			Armour			Weap	on	Lo	cation	0	Dama	ige	Range	Auto	Ammo
Front Hul			70			VRF (Gauss	Тор	o Turret	5	5d6 A	P	Dist	12	20,000
Right Side	е		30			Light.	Tac Missile	Tor	o Turret	c	9d6		Extreme	No	
Left Side			30			•	air) x2	ιομ	Tunet	c	000		LAUCINC	NO	
Rear			30												
Dorsal			40			Other	Equipment:								
Ventral			40						Standar	d Se	nsor	s (+1)	Standard	Communica	tions (TL 8)
Turret Fro	ont		60		Standard Nav (+1), Standard Sensors (+1), Standard, Communication hostile environment protection, Short Term Life Support										
Turret sid	e/rea	r	20												



BI-PLANE

One of the earliest powered flight vehicles to be found on many worlds. Using a propeller engine to pull and funnel air back over two stacked pairs of wings.

Vehicle	TL	Skill	Agility	Speed	Range	Crew/ Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Bi-Plane	4	Flyer (wing)	+1	150	300	1/1	0.27	No	1	2	60, 500	3 tons

Take-off/Landing: 400m/500m

Armour		
Location	Armour	Other Equipment/Modifications:
Front	2	
Right	2	Communications (TL 4)
Left	2	
Rear	2	
Тор	2	
Bottom	2	

HEAVY PLANE

Designed to carry large quantities of cargo over long distances, these lumbering aircraft require four propellers to fly. Despite this immense power, the speed of this aircraft is much less then others of the Tech Level.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Heavy plane	6	Flyer (wing)	–1	200	2000	2/6	4.75 tons	No	9	10	868, 000	56 tons

Take-off/Landing: 2,500m/1,500m

Armour

Location	Armour
Front	3
Right	3
Left	3
Rear	3
Тор	3
Bottom	3

Other Equipment/Modifications:

Communications (TL 6), Navigation (basic), Sensors (advanced)

SKY CAR

The sky car is a small, personal aircraft roughly the size of standard road vehicles. Designed with four vectored propellers and two small wings, this VTOL aircraft is an excellent choice for those who wish to travel by air but without the inconveniences.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Sky Car	8	Flyer (wing)	+1	350	1, 200	1/1		No	1	1	168, 000	2

Take-off Radius: 32m

Armour

Location	Armour	Other Eq
Front	3	
Right	3	Communio
Left	3	(basic)
Rear	3	
Тор	3	
Bottom	3	

Other Equipment/Modifications:

Communications (TL 6), Entertainment System Cr. 200, Navigation (basic), Sensors (basic)

SURVEY PLANE

The survey plane is a favoured vehicle for the exploration, mapping and surveillance of an area. Used by scientists and some law enforcement agencies, this aircraft comes fully equipped to monitor an area and process the information.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Survey Plane	8	Flyer (wing)	+1	360	3, 000	2/6	0.5 tons	No	10	10	1, 236, 500	60 tons

Armour

Location	Armour
Front	3
Right	3
Left	3
Rear	3
Тор	3
Bottom	3

Other Equipment/Modifications:

Communications (TL 6), Computer/1 x2, Fresher, Increased Speed x2, Lab Space+2 (6 researchers, task undefined), Navigation (basic), Sensors (advanced), Short Term Life Support

CIVILIAN AVIRSHIPS

DIRIGIBLE

Dirigibles or zeppelins use a large, reinforced balloon filled with lighter than air gas to lift. A series of propellers are then used to provide thrust and to turn the vehicle. The balloon making up the vast majority of the ship, a suspended gondola provides living space and houses the control systems. The size and nature of an airship make it an ideal exploration vessel for low tech worlds or a luxury means of transportation.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure Envelope		Cost (Cr.)	
Dirigible	6	Flyer (airship)	- 4	120	6, 000	3/15	0.50 tons	No	6	4,800	6	600, 000	63 tons

Armour

Location	Armour
Front	3
Right	3
Left	3
Rear	3
Тор	3
Bottom	3

Other Equipment/Modifications:

Communications (TL 6), Entertainment System Cr. 300 (communal), Fresher, Full Galley (serves 20), Navigation (basic), Sensors (basic)

REFUELING HUB

Some worlds are almost impossible to navigate without some form of air travel. In these cases such necessities as refuelling stations and brief lay-bys need to be easily accessible in the sky. These floating platforms can vary in size from simple fuel stops to small communities, providing services and merchandise to air born travellers.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure Envelope		Cost (Cr.)	
Hub	6	Flyer (airship)	- 4	60	11, 660	10/20	75 tons	No	40	32,800	40	2, 172, 600	428 tons

Armour

Location	Armour
Front	3
Right	3
Left	3
Rear	3
Тор	3
Bottom	3

Other Equipment/Modifications:

Bunks x5, Communications (TL 6, boosted range x2), Decreased Speed x5, Entertainment System Cr. 600 (communal), Fresher x2, Full Galley (serves 40), Greater Fuel Capacity x3, Heavy Crane, Internal Vehicle Bay (8 tons) Light Crane x2, Navigation (basic), Sensors (basic), Short Term Life Support



LAND YACHT

An early wheeled vehicle which utilises wind power. Despite its reliance on constant wind it can reach a reasonable speed. A land Yacht often possesses one sail but designs do vary across cultures.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Land Yacht	1	Drive (wheeled)	- 2	20%wind	—	1/—	0.27 tons	Frame	1	1	1, 440	1

Armour

Location	Armour
Front	1
Right	1
Left	1
Rear	1
Тор	1
Bottom	1

Other Equipment/Modifications:

Increased Agility x2, Wind Powered

WAGON

A basic wheeled vehicle found on most low-tech worlds, relying on muscle animals for power. A wagon is a useful method of moving cargo and passengers around. Some wagons function as domiciles as well for roaming travellers.

Vehicle	ΤL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Wagon	1	Animals (riding)	-1	10	—	1/2	0.667 tons	No	1	1	1, 000	2.5

Armour

Location	Armour
Front	1
Right	1
Left	1
Rear	1
Тор	1
Bottom	1

Other Equipment/Modifications:
Horse x2

GMILIAN GRAV VIEHIGLES

AIR/RAFT

An open-topped vehicle supported by anti-gravity technology. Air/rafts can even reach orbit but passengers at that altitude must wear vacc suits. They are ubiquitous, remarkably reliable and flexible vehicles.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Air/ Raft	8	Flyer (grav)	0	395	3, 200	1/3	_	Тор	2	2	263, 464	4 tons

Armour

Location	Armour
Front	6
Right	6
Left	6
Rear	6
Тор	6
Bottom	6

Other Equipment/Modifications:

Additional Armour, Autopilot (SL 1), Communications (TL 8), Computer /1, Database, Decreased Agility, Decreased Hull x2, Decreased Structure x2, Entertainment System, Fuel Efficient x3, Increased speed x4, Navigation (basic), Sensors (basic)

Cargo Loader

A small, one-man grav vehicle designed for carrying, towing and pushing cargo. The cargo loader is often used in low gravity environments or when cargo lifters are not practical.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Cargo Loader	12	Flyer (grav)	+2	150	3, 000	1/—	1.1 tons	No	2	2	109, 000	2

Armour

Location	Armour
Front	5
Right	5
Left	5
Rear	5
Тор	5
Bottom	5

Other Equipment/Modifications:

Advanced Controls, Communications (TL 10), Decreased Speed x7, Sensors (basic), Short Term Life Support

The G/Bike is much like its ground based predecessors. With its speed and small size, it is a favourite of many space farers for travelling to and from spaceports. It is also the focus for many subcultures and gangs.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
G/Bike	12	Flyer (grav)	+2	550	4, 500	1/1	-	Frame	1	1	275, 000	1.5 tons
Armou	r											
Location	1	Ar	mour	Ot	her Equi	pment/Modific	ations:					
Front		1										
Right		1		Adv	vanced C	ontrols, Increas	ed Spee	d, More F	Fuel Ef	ficient x5		
Left		1										
Rear		1										
Тор		1										
Bottom		1										

G-RACER

While technology changes, man's need for speed does not. With the advent of commercial grav cars comes the creation of grav racing, a highly competitive and popular sport. Easily out-striping the speed of their ground based predecessors, G-Racers add an element of danger that only increases the popularity of the pastime.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	
G-Racer	9	Flyer (grav)	+2	2, 000	2,000	1/—	—	No	1	1	215, 000	0.5 tons

Armour

Location	Armour
Front	4
Right	4
Left	4
Rear	4
Тор	4
Bottom	4

Other Equipment/Modifications:

Advanced Controls, Streamlined

GRAV CAR

Common transportation on most advanced worlds, the grav car replaces the ground car in all functions. Several designs mimic earlier ground cars, while others abandon earlier conventions all together. Because of the risks of high altitude flying, most grav cars come with some form of life support.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Grav Car	12	Flyer (grav)	+2	500	3,000	1/4	0.27 tons	No	3	3	359, 300	3 tons

Armour

Location	Armour
Front	5
Right	5
Left	5
Rear	5
Тор	5
Bottom	5

Other Equipment/Modifications:

Advanced Controls, Double Capacity Seating, Entertainment System Cr. 300, Navigation (basic), Sensors (basic), Short Term Life Support

GRAV LINER

Replacing the airliner, the grav liners are designed to transport large numbers of passengers over long distances. The quality and conditions of the journey can vary depending upon the price.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Grav Liner	13	Flyer (grav)	0	1,000	4,000	6/270	_	No	77	78	14, 333, 000	80 tons

Armour

Location	Armour
Front	5
Right	5
Left	5
Rear	5
Тор	5
Bottom	5

Other Equipment/Modifications:

Communications (TL 10), Decreased Agility, Decreased Hull x3, Decreased Structure x2, Double Capacity Seating x50 (business class), Increased Speed x10, Short Term Life Support, Sensors (advanced), Navigation (advanced), Full Galley (serves 20, first class), Triple Capacity Seating x50 (economy class), Entertainment System Cr. 600 x20 (first class), Entertainment System Cr. 300 x250 (business and economy), Fresher x4

GROUND EFFECT BIKE

The most basic of grav based personal transports, ground effect bikes come in a variety of styles with just as many modifications available to the enthusiast. Able to carry a single person, these are common place in scouting groups as a standard, long range personal transport.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Ground Effect Bike	8	Flyer (grav)	+1	300	1, 000	1/—	_	Frame	1	1	25, 000	0.5 tons

Armour

Location	Armour
Front	1
Right	1
Left	1
Rear	1
Тор	1
Bottom	1

G/RUNNER

The G/Runner is a smaller version of the grav car. It is a common alternative to the G/Bike being fully enclosed and capable of great speed.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers		Open?	Hull	Structure	Cost (Cr.)	Shipping Size
G/ Runner	12	Flyer (grav)	+2	500	4, 500	1/1	0.25 tons	No	1	2	325, 300	1.5 tons

Armour

Location	Armour
Front	5
Right	5
Left	5
Rear	5
Тор	5
Bottom	5

Other Equipment/Modifications:

Advanced Controls, Entertainment System Cr. 300, Increased Agility, More Fuel Efficient x5

GUV

The Grav Utility Vehicle (GUV) can seat up to eight people, including the driver. For those that can afford it, the GUV is an ideal vehicle for travellers and mercenary groups who need fast planetary transport.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
GUV	13	Flyer	+1	500	5,720	1/7	1.67	No	3	3	422,	3 tons
		(grav)					tons				200	

Armour

Location	Armour
Front	5
Right	5
Left	5
Rear	5
Тор	5
Bottom	5

Other Equipment/Modifications:

Double Occupancy Seating x3, Entertainment System Cr. 200, Fuel Efficiency, Greater Fuel Capacity, Short Term Life Support, Navigation (basic)

SEV

The very best survey and scouting vehicle. The Survey and Exploration Vehicle is a fully enclosed grav vehicle with a full sensor suit, long term life support and protection from hazardous environments.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
SEV	12	Flyer (grav)	+1	400	3,000	2/4	_	No	15	15	4, 659, 500	15 tons

Armour

Location	Armour
Front	5
Right	5
Left	5
Rear	5
Тор	5
Bottom	5

Other Equipment/Modifications:

Airlock, Bunks x3, Communications (TL 10), Computer/3, Corrosive Environment Protection, Double Capacity Seating x2, Fresher, Fusion Plant, Insidious Environment Protection, Life Support (long term), Navigation (advanced), Sensors (advanced)



Armoured Van

A heavily armoured version of a common, small scale cargo transporter. Similar vehicles are often fitted with seating and used for the movement of Enforcers or for removing criminal agents.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Armoured van	7	Drive (wheeled)	-1	105	400	2/-	1 ton	No	3	3	22, 800	3 tons
Armour												
Location		Armou	ır	Other E	quipmer	nt/Modification	IS:					
Front		9										
Right		9		Additiona	al Armour	x2, Communic	ations (T	L6), Ente	rtainme	ent System (Cr. 200	
Left		9										
Rear		9										
Тор		9										
Bottom		9										

CARGO TRANSPORT

A mass cargo vehicle utilising an internal combustion engine, normally possessed of six or eight wheels to counter the lose of control caused by a large, detachable container section. Functional in design, these vehicles offer little in terms of passenger transport and even less in comfort.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Cargo Transport	8	Drive (wheeled)	0	125	400	1/2	3.25 tons	No	4	8	60,200	8 tons

Armour

Location	Armour
Front	3
Right	3
Left	3
Rear	3
Тор	3
Bottom	3

Other Equipment/Modifications:

Entertainment System Cr. 200, Navigation Basic, Wheels x6

CARGO TRANSPORT (ARTICULATED)

The independent, control and drive section of a modular, articulated transport vehicle. Most commonly used for the mass transit of goods across continent sized distances. Long convoys of such vehicles can be seen carrying the supplies needed to support civilisation.

	TL :	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Cargo transport (cab)	-	Drive (wheeled)	0	150	706	2/-	_	No	5	5	20, 900	5 tons
Armour												
Location		Armour	•	Other E	quipmer	nt/Modificatio	ns:					
Front		6										
Right		6				r, Entertainme					pacity x3	, More Fuel
Left		6		Efficient,	Navigati	on (basic), Tov	ving Cap	acity x4,	Wheel	s x6		
Rear		6										
Тор		6										
Bottom		6										

CHASE CAR

A specialised variant of automobiles normally used by law enforcement officers. Its increased speed and handling makes it well suited for high speed pursuits. Equipped with surveillance sensors to aid in the chase and a method to call in assistance from other officers.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Chase Car	8	Drive (wheeled)	+2	192	400	1/4	—	No	4	4	25, 800	4 tons

Armour

Location	Armour
Front	3
Right	3
Left	3
Rear	3
Тор	3
Bottom	3

Other Equipment/Modifications:

Communications (TL 6), Double Capacity Seating,), Increased Agility x2, Increased Speed x2 Navigation (basic), Sensors (basic)

Driller

A large scale tunnelling machine most commonly found on colony worlds and mining facilities. While lacking in any subtlety, there is no faster way of excavating a promising site. Equipped with digging tools, geology samplers and cutting equipment.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	•	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Driller	10	Drive (mole)	-1	55	800	2/-	4.5 tons	No	25	25	1, 780, 000	25

Armour

Location	Armour
Front	12
Right	12
Left	12
Rear	12
Тор	12
Bottom	12

Other Equipment/Modifications:

Additional Armour x2, Digging Equipment, Cutting Equipment, Geology Sampler, Sensors (basic), Tracks, Tunnelling Machine, Navigation (advanced), Greater Fuel Capacity x2

DUNE BUGGY

A small, agile, quad wheeled vehicle. Its primary features are a rugged and durable frame, sparsely fitted with metal plating. With its fast speed and advantage over tough terrain the vehicle is a favourite of explorers and adventurers on worlds with little stable road surface.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Dune Buggy	7	Drive (wheeled)	0	150	400	1/1	-	Frame	1	1	2, 900	1 ton

Armour

Location	Armour	Other Equipment/Modifications:
Front	1	
Right	1	Off Road Capability, Communications (TL 4)
Left	1	
Rear	1	
Тор	1	
Bottom	1	

EARLY GROUND CAR

A conventional wheeled automobile, found on many worlds towards the end of the industrial age. Based on the latest internal combustion engine the world can produce. A solid metal frame offers better protection then many latter designs which use fibreglass and plastics.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Ground Car	5	Drive (wheeled)	0	130	150	1/3	—	No	3	2	6, 720	4 tons

Other Equipment/Modifications:

Armour

Location	Armour
Front	6
Right	6
Left	6
Rear	6
Тор	6
Bottom	6

Decreased Hull, Decreased Structure x2, Increased Armour, Increased Speed x4, Reduced Fuel Efficiency

ELECTRIC TRAIN

Trains are common place on most mid-Tech Level worlds, being a fast, reliable and efficient method of transporting cargo and passengers. Most trains are modular in nature, allowing for a variable number of cars to meet the needs of the time. Often long distance trains will have an improved service available for a higher price, such as wet bar and canteen.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Electric train (1 car)	7	Drive (wheeled)	-1	125	_	2/32	1.6 tons	No	13	13	126, 000	13 tons

Armour

Location	Armour
Front	3
Right	3
Left	3
Rear	3
Тор	3
Bottom	3

Other Equipment/Modifications:

Communications (TL 6), Double Capacity Seating x16, External Power

Jet Car

The jet powered car is an odd sight. Mostly found on worlds without the widespread use of the internal combustion engine or as a form of extreme sports vehicle due to the much greater speed and acceleration. The Jet car's road speed is almost unmatched.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Jet car	7	Drive (wheeled)	0	340	320	1/1	0.5 tons	No	4	5	14, 500	7

Armour

Location	Armour
Front	3
Right	3
Left	3
Rear	3
Тор	3
Bottom	3

Other Equipment/Modifications:

Decreased Hull x3, Decreased Structure x2, Entertainment Cr. 200, Increased Speed x 10, Lower Fuel Capacity x2

LIMOUSINE

There are few better expressions of wealth than owning as desirable a car as this. Limousines come in a variety of styles and with a number of luxuries aboard from bar compartments to outrageous hot tubs. While perhaps not the most practical of vehicles, everyone who sees it will know how rich you are.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Limousine	10	Drive (wheeled)	1	300	500	1/4	0.25 tons	No	6	7	38, 920	6.5 tons

Armour

Location	Armour
Front	8
Right	8
Left	8
Rear	8
Тор	8
Bottom	8

Other Equipment/Modifications:

Additional Armour, Entertainment System Cr. 600, Increased Agility, Increased Speed x6, Navigation (basic), Wet Bar

Motorcycle

A popular vehicle on many worlds. The motorcycle is small, manoeuvrable, fast and often has a social connotation. Every explorer should consider owning at least one as they are easier to store and travel with then larger vehicles.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure		Shipping Size
Motorcycle	7	Drive (wheeled)	1	240	300	1/1	—	Frame	1	1	4, 800	1 ton

Armour

Location	Armour	Other Equ
Front	0	
Right	0	Motorcycle
Left	0	
Rear	0	
Тор	0	
Bottom	0	

Other Equipment/Modifications:

MOTORCYCLE WITH SIDECAR

A less common sight than a standard motorcycle. Sometimes the sidecar can be obtained separately and attached to a compatible bike, which will make it slower but also allows it to carry an additional passenger or cargo.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Bike with Sidecar	6	Drive (wheeled)	1	150	200	1/2	_	Frame	1	2	7, 200	1.5 tons

Armour

Location	Armour
Front	0
Right	0
Left	0
Rear	0
Тор	0
Bottom	0

Other Equipment/Modifications:

Motorcycle

MPV

A Multi-Purpose Vehicle (MPV), is commonly seen on worlds without grav technology. With both on and off world capability, the MVP contains an extended seating area for up to six others which can easily be converted for cargo.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
MVP	7	Drive (wheeled)	0	144	400	1/7	—	No	2	3	20, 200	2.5 tons

Armour

Location	Armour
Front	3
Right	3
Left	3
Rear	3
Тор	3
Bottom	3

Other Equipment/Modifications:

Double Occupancy Seating x3, Entertainment System Cr. 200, Navigation (basic), Off-road Capability

OFF-ROAD **T**RUCK

Designed for off-road conditions, these vehicles are robust and reliable in nature. Possessing an open flatbed for cargo and equipment, it can carry up to seven passengers, although the bed can get rather uncomfortable over time.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Off-road Truck	7	Drive (wheeled)	0	160	440	1/2	1.5 tons	Top/ Cargo Bed	5	3	15, 520	3 tons

Armour

Location	Armour
Front	3
Right	3
Left	3
Rear	3
Тор	3
Bottom	3

Other Equipment/Modifications:

Double Occupancy Seating, Entertainment System Cr. 200, Fuel Efficiency, Increased Hull x2, Navigation (basic), Off-road Capability

OFF-ROADER

A robust, heavy vehicle designed difficult terrain. It has the distinct advantage over the truck variant is that it is fully enclosed. It is favoured by colonists on less developed worlds.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Off-	7	Drive	-1	160	440	1/3	0.5	No	5	3	20, 720	3 tons
roader		(wheeled)					tons					

Armour

Location	Armour
Front	3
Right	3
Left	3
Rear	3
Тор	3
Bottom	3

Other Equipment/Modifications:

Entertainment System Cr. 200, Fuel Efficiency, Increased Agility, Increased Hull x2, Navigation (basic), Off-road Capability, Towing Capacity

OMNIBUS

A large, heavy passenger vehicle. An Omnibus is not the most agile of vehicles but provides cheap and reasonably comfortable transportation within a local area. Some go further afield, making cross continental journeys with overnight stops. There are a number of variations for fewer or more passengers such as articulated and double decked omnibuses.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Omni- bus	6	Drive (wheeled)	- 1	100	280	1/28	0.25 tons	No	5	6	25, 520	8 tons

Armour

Location	Armour
Front	3
Right	3
Left	3
Rear	3
Тор	3
Bottom	3

Other Equipment/Modifications:

Communications (TL 6), Decreased Agility, Decreased Hull x3, Decreased Structure x2, Double Occupancy Seating x14, More Fuel Efficient x2
PICK-UP TRUCK

A versatile road vehicle, with an enclosed cab for the driver and passenger. The flatbed can be used for cargo or for additional passengers, even if the ride is a little bumpy.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Pick-up Truck	6	Drive (wheeled)	0	100	200	1/2	1 ton	Top/ Cargo Bed	4	3	7, 072	3 tons

Armour

Location	Armour
Front	3
Right	3
Left	3
Rear	3
Тор	3
Bottom	3

Other Equipment/Modifications:

Double Occupancy Seating, Entertainment System Cr. 200, Increased Hull

QUAD **B**IKE

A favoured choice for adventurers who need transportation without taking too much room. A quad bike is open topped with enough room for one passenger or some cargo. It is not uncommon to see them in agricultural areas, towing carts of produce across difficult terrain.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Quad Bike	7	Drive (wheeled)	2	144	400	1/1	—	Frame	1	1	4, 800	1 ton

Armour

Location	Armour
Front	1
Right	1
Left	1
Rear	1
Тор	1
Bottom	1

Other Equipment/Modifications:

Increased Agility x2, Off Road Capability, Towing Capacity

RIOT TANK

The riot tank is a vital machine for law enforcement in troubled areas. Protecting officers from harm with its sturdy armour and possessing a powerful water cannon to knock back rioters and disperse crowds.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Riot Tank	7	Drive (wheeled)	-1	95	400	2/12	—	No	8	8	51, 600	10 tons

Armour

Location	Armour
Front	12
Right	12
Left	12
Rear	12
Тор	12
Bottom	12

Other Equipment/Modifications:

Additional Armour x3, Communications (TL6), Decreased Hull x2, Decreased Structure x2, Sensors (basic), Water Cannon (five minutes of firing)

Small Family Car

Personal transportation found on many mid-tech worlds. Utilising an internal combustion engine and a satellite based navigation system for driver assistance. Some cultures hold such vehicles to be signs of social status, causing the varieties and performance of individual vehicles to differ greatly depending upon cost, need and taste.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Family Car	8	Drive (wheeled)	0	160	400	1/4	—	No	2	2	6,000	2.5 tons

Armour

Location	Armour	Other Equipment/Modifications:
Front	3	
Right	3	Entertainment system Cr. 200, Navigation basic
Left	3	
Rear	3	
Тор	3	
Bottom	3	

SNOW CAT

The snow cat is a tracked vehicle for use in extreme cold. Providing both life support and passenger space, this vehicle is essential for travel through frozen climates.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Snow Cat	7	Drive (Tracked)	0	80	400	1/6	—	No	3	3	45, 200	2.5 tons

Armour

Location	Armour
Front	3
Right	3
Left	3
Rear	3
Тор	3
Bottom	3

Other Equipment/Modifications:

Communications (TL6), Double Capacity Seating x3, Hostile Environment Protection, Increased Hull

SNOWMOBILE

An open, tracked vehicle for rapid movement through frozen environments.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Snow mobile	7	Drive (tracked)	1	88	320	1/1		Frame	1	1	4, 800	1 ton

Armour

Location	Armour
Front	1
Right	1
Left	1
Rear	1
Тор	1
Bottom	1

Other Equipment/Modifications:

Increased Agility x1, Increased Speed, Lower Fuel Capacity x2, Towing Capacity

Solar Car

The solar car is often found on worlds with either an exceptionally high level of UV exposure or on worlds where the combustion engine (for whatever reason) is not viable. In many ways the solar car has the advantage, with unlimited range, no fuel costs and being environmentally friendly. The only disadvantage being the reliance on high light levels.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Solar	8	Drive	0	112	—	1/4		No	2	3	16, 400	2.5 tons
car		(wheeled)										

Armour

Location	Armour	Other Eq
Front	3	
Right	3	Decrease
Left	3	(basic)
Rear	3	
Тор	3	
Bottom	3	

Other Equipment/Modifications:

ecreased Speed x2, Entertainment system Cr. 200, External Power (solar), Navigation basic)

Sports Car

Higher priced than other cars, sports cars are more a symbol of wealth than an effective vehicle. Often designed more for appearance and speed, these vehicles are used for racing and thrill seeking. On many worlds the social status attached to these cars makes them highly desirable to poorer social classes.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Sports car	8	Drive (wheeled)	2	224	320	1/1	—	Тор	2	2	13,920	2 tons

Armour

Location	Armour
Front	3
Right	3
Left	3
Rear	3
Тор	3
Bottom	3

Other Equipment/Modifications:

Entertainment system Cr. 400, Increased Agility x2 Increased Speed x4, Lower Fuel Capacity x2, Navigation basic

STEAM CAR

Steam powered vehicles are most commonly found on early industrial worlds where the internal combustion engine is yet to be perfected. Such vehicles provide greater speed than animals and are often less expensive. The use of steam vehicles can often survive into the age of the internal combustion engine providing a variety of car designs.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Steam	4	Drive	0	50	100	1/2	0.15	No	2	2	3, 600	2.5 tons
car		(wheeled)					Tons					

Other Equipment/Modifications:

Armour

Location	Armour
Front	2
Right	2
Left	2
Rear	2
Тор	2
Bottom	2

SUV

The Sports Utility Vehicle (SUV) is a large wheeled drive car designed to seat eight people in comfort. This and its off road capability, make it a favoured choice of mercenaries and travellers alike.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
SUV	7	Drive (wheeled)	0	144	572	1/7	1.67 tons	No	3	3	19, 720	3 tons

Armour

Location	Armour
Front	3
Right	3
Left	3
Rear	3
Тор	3
Bottom	3

Other Equipment/Modifications:

Double Occupancy Seating x3, Entertainment System Cr. 200, Fuel Efficiency, Greater Fuel Capacity, Navigation (basic), Off-road Capability

TEV

The Tracked Exploration Vehicle is capable of housing eight people and the life support can maintain a comfortable environment indefinitely. Despite the cost, this vehicle is often the best choice for scouts and explorers who can travel great distance without the need for aerial support.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
TEV	9	Drive (tracked)	0	75	_	2/8	0.27 tons	No	15	15	2, 452, 300	15 tons

Armour

Location	Armour
Front	4
Right	4
Left	4
Rear	4
Тор	4
Bottom	4

Other Equipment/Modifications:

Airlock, Bunks x4, Communications (TL 8), Corrosive Environment Protection, Double Capacity Seating x4, Fresher, Fusion Plant, Improved Agility, Insidious Environment Protection, Life Support (long term), Navigation (standard), Sensors (standard)

VAN

A popular choice for traders and businesses. Allows for a reasonable amount of goods to be transported without sacrificing speed or manoeuvrability.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
van	7	Drive (wheeled)	0	160	400	2/	1.1 tons	No	3	3	7, 400	3 tons

Armour

Location	Armour
Front	3
Right	3
Left	3
Rear	3
Тор	3
Bottom	3

Other Equipment/Modifications:

Entertainment System Cr. 200

GMILIAN HELICOPTERS

BEHEMOTH **H**ELICOPTER

Vast cargo carriers, Behemoth helicopters require two rotors to provide the necessary lift. It fulfils a much needed role, being able to land and take off vertically. Able to transport ground vehicles in its large cargo bay or carry passengers instead.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Behemoth Helicopter	8	Flyer (rotor)	-1	120/ 400	2,000	2/-	4.25 tons	No	13	13	1, 029, 000	60 tons

Take-off Radius: 70m

Armour

Location	Armour
Front	3
Right	3
Left	3
Rear	3
Тор	3
Bottom	3

Other Equipment/Modifications:

Communications (TL 8), Navigation (basic), Sensors (advanced)

Helicopter

One of the most common designs of helicopter found on many worlds. This vehicle is capable of carrying up to six passengers along with its two crew. While slower than winged aircraft, the vertical takeoff and landing capability of a helicopter make it a more versatile vehicle.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Helicopter	6	Flyer (rotor)	+1	120/ 360	1,000	2/6	1 ton	No	2	3	318, 000	10 tons

Take-off Radius: 30m

Armour

Location	Armour
Front	3
Right	3
Left	3
Rear	3
Тор	3
Bottom	3

Other Equipment/Modifications:

Communications (TL 6), Increase Speed x2, Navigation (basic), Sensors (basic), Triple Capacity Seating x2,

POLICE HELICOPTER

Designed for pursuit and surveillance, these helicopters are favoured by many law enforcement agencies. Filling a supporting role in ground operations, these aircraft are used to locate and monitor targets as well as aid in coordinating ground forces.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Police Helicopter	7	Flyer (rotor)	+1	195/ 520	2,000	2/2	—	No	2	2	278, 000	8 tons

Take-off Radius: 26m

Armour

Location	Armour
Front	3
Right	3
Left	3
Rear	3
Тор	3
Bottom	3

Other Equipment/Modifications:

Communications (TL 6), Navigation (basic), Increase Speed x3, Sensors (standard)

UNICOPTER

A single rotary wing helicopter most commonly utilised for short-range aerial surveillance. This compact, lightweight vehicle can carry up to three people at a stretch and is fitted with a variety of compact sensors within its nose section.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Helicopter	8	Flyer (rotor)	+1	150/ 400	2,000	2/1	—	No	1	1	129, 000	4 tons

Take-off Radius: 26m

Armour

Location	Armour
Front	3
Right	3
Left	3
Rear	3
Тор	3
Bottom	3

Other Equipment/Modifications:

Communications (TL 8), Navigation (basic), Sensors (Advanced),

AMILIAN HOVERARA

ATV HOVERCRAFT

An enclosed, pressurised all-terrain, hovercraft. The nature of this vehicle allows it to travel over difficult terrain and standing water with ease. With plenty of space for passengers, the self contained atmosphere and the all terrain abilities this vehicle is perfect for ground exploration.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	-	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
ATV	12	Drive (hover)	+1	137	1,400	1/15	_	No	3	3	277, 000	5 Tons

Armour

Location	Armour
Front	10
Right	10
Left	10
Rear	10
Тор	10
Bottom	10

Other Equipment/Modifications:

Additional Armour, Advanced Sensors, Communication Continental, Decreased Speed x5, Double Capacity Seating x4, Life Support (short term), Navigation Standard

SWAMP RACER

This small hovercraft is designed for speed and manoeuvrability above functionality. Used in flooded and swamp areas as a recreational vehicle, the Racer is one of the fastest methods of getting through an otherwise impassable marsh.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Swamp Racer	7	Drive (hover)	+2	180	484	1/2	0.25	Open Topped	2	2	216, 200	3 Tons

Armour

Location	Armour
Front	3
Right	3
Left	3
Rear	3
Тор	3
Bottom	3

Other Equipment/Modifications:

Double Capacity Seating, Entertainment System (Cr. 200), Greater Fuel Capacity, Increased Agility, Increased Speed x2, More Fuel Efficient

GIVILLIAN JETS

AIRLINER

Jet powered, air transport allowing reasonably rapid, atmospheric travel. Designed for the mass transit of passengers, these vehicles often prove uncomfortable over long periods of time, however higher grade seating is sometimes available at cost.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Airlinner	8	Flyer (wing)	–1	400	7, 999	2/496	—	No	75	75	60, 174, 800	600 tons

Takeoff and landing: 4,500m/3,500m

Armour

Location	Armour
Front	3
Right	3
Left	3
Rear	3
Тор	3
Bottom	3

Other Equipment/Modifications:

Autopilot, Communications basic, Double Occupancy x70 (business class seating), Entertainment System Cr. 300 x496, Greater fuel Capacity x3, Life Support (short term) x25, Navigation (standard), Triple Occupancy x100 (economy class)

PRIVATE JET

Small, jet propelled aircraft. On many worlds they are used both commercially and owned privately and so function as a status symbol as much as transportation. This private model provides rapid and comfortable transportation for any travelling group.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Jet Plane	7	Flyer (wing)	+1	700	2, 000	2/8	0.25 tons	No	4	5	2, 697, 500	19 tons

Armour

Location	Armour
Front	3
Right	3
Left	3
Rear	3
Тор	3
Bottom	3

Other Equipment/Modifications:

Autopilot, Communications (TL 6), Entertainment System Cr. 500 (communal), Fresher, Navigation (basic), Increase Speed x4, Sensors (standard), Short Term Life Support, Wet Bar

SUPERSONIC AIRLINER

Providing the fastest form of air travel for many worlds prior to the discovery of grav technology, the supersonic airliner is often reserved for high society. This is often reflected in the luxury passengers are provided with.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Supersonic Airliner	8	Flyer (wing)	+1	2,400	4, 000	4/100	0.75 tons	No	60	60	80, 151, 000	160 tons

Armour

Location	Armour
Front	3
Right	3
Left	3
Rear	3
Тор	3
Bottom	3

Other Equipment/Modifications:

Autopilot, Communications (TL 6), Double Capacity Seating x50, Entertainment System Cr. 300 x100, Fresher x2, Full Galley (serves 20), Increased Agility x2, Increased Speed x10, Navigation (basic), Sensors (advanced), Short Term Life Support, Supersonic

Vertical Take-off Jet

Vertical Take-Off and Landing (VTOL) jets and planes are more costly than helicopters but can achieve much greater speeds.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
VTOL Jet	8	Flyer (wina)	+3	500	1,440	1/12	1 ton	No	5	5	3, 445, 000	20

Armour

Location	Armour
Front	3
Right	3
Left	3
Rear	3
Тор	3
Bottom	3

Other Equipment/Modifications:

Autopilot, Communications (TL 6), Increased Speed x2, More Fuel Efficient x2 Navigation (basic), Sensors (advanced), Short Term Life Support

CIVILIAN SHIPS AND BOATS

Air Boat

A small, flat-bottomed river craft, this boat uses a large propeller above the waterline to provide thrust. While not commonly seen, they are often used for swamplands, where debris and plant growth can entangle more conventional methods of propulsion.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Air Boat	6	Seafarer (motor)	0	60	800	1/2	—	Frame	1	1	6, 000	1.5 tons

Armour

Location	Armour
Front	1
Right	1
Left	1
Rear	1
Тор	1
Bottom	1

BARGE

A barge is a narrow, flat bottomed, boat primarily used in canals. Designed for passengers and cargo, barges are common sites on most worlds which utilise waterways. At earlier Tech Levels they are often drawn by muscle animals. In later ages the barge often looses its purpose as a cargo vessel and is instead used for recreation or for residence.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Barge	4	Seafarer (motor)	0	40	200	2/-	0.75	No	1	2	10, 000	2.5 tons

Armour

Location	Armour
Front	2
Right	2
Left	2
Rear	2
Тор	2
Bottom	2

Other Equipment/Modifications:

FERRY

Large ships designed for transportation across vast bodies of water. Able to transport passengers and their personal vehicles. These vessels are normally fitted with various forms of entertainment for longer journeys. Small cabins are often issued for night journeys.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Ferry	7	Seafarer (ocean ships)	-6	60	6,000	10/220	10 tons	No	141	141	2, 274, 600	282
Armou	r											
Location		Armo	ur	Othe	er Equip	ment/Modifica	tions:					
Front		3										
Right		3		Com	municatio	ons (TL 6), Fres	sher x4, N	lavigatior	n (basic), Sensors (b	basic), Int	ernal
Left		3		Vehic	cle Bays,	Full Galley (se	rves 20),	Entertair	iment S	system Cr. 60	00,	
Rear		3										
Тор		3										
Bottom		3										

HYDROFOIL

These boats are fitted with foils beneath the waterline. This works to raise the prow of the vehicle out of the water, reducing the drag against the boat but also reducing the vehicles manoeuvrability.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Hydrofoil	7	Seafarer (ocean ship)	-3	180	3,000	1/15	0.75	No	10	10	128, 000	10

Armour

Location	Armour
Front	3
Right	3
Left	3
Rear	3
Тор	3
Bottom	3

Other Equipment/Modifications:

Communications (TL 6), Fresher, Hydrofoil, Navigation (basic), Sensors (basic)

MOTOR BOAT

Propeller driven vessels with a small cabin and deck. These boats are common site on many worlds, used for both recreation and by fishermen.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Motor	5	Seafarer	0	40	200	1/6	0.25	Тор	2	2	25, 800	4 tons
Boat		(motorboat)					tons					

Armour

Location	Armour
Front	2
Right	2
Left	2
Rear	2
Тор	2
Bottom	2

Other Equipment/Modifications:

Communications (TL4), Entertainment System Cr, 200, Navigation (basic), Sensors (basic)

LUXURY YACHT

The absolute symbol of opulence and wealth. Private yachts are seen as toys of the fabulously rich, used for recreation and entertaining friends and guests. Coming with every amenity that the owner could desire.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Luxury Yacht	8	Seafarer (ocean ship)	-3	60	9,300	10/10	28.5 tons	No	100	100	5, 097, 500	100 tons

Armour

Location	Armour
Front	3
Right	3
Left	3
Rear	3
Тор	3
Bottom	3

Other Equipment/Modifications:

Communications (TL 6), Computer/1 x2, Entertainment System Cr. 1000, Fresher x2, Full Galley (serves 10) x2, General Purpose Lab, Greater Fuel Capacity x10, Hot Tub (2 person capacity), Internal Vehicle Bays, More Fuel Efficient x10, Navigation (basic), Refrigeration (10 spaces), Sensors (standard), Swimming Pool (5 person capacity), Wave-piercing Hull, Wet Bar x2

Police Cutter

Designed for speed and manoeuvrability, police cutters are pursuit vehicles. These small boats come fully equipped with sensors to aid in any search or surveillance.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Motor Boat	7	Seafarer (motorboat)	+1	180	400	2/		Тор	2	2	62, 000	2 tons

Armour

Location	Armour	Other Equipment/Modifications:									
Front	2										
Right	2	Communications	(TL6),	Hydrofoil,	Increased	Agility,	Navigation	(basic),	Sensors		
Left	2	(Advanced)									
Rear	2										
Тор	2										
Bottom	2										

Power Boat

Powerboats are small, lightweight and open topped boats. Their designed entirely for speed making them well suited to recreational racing and smuggling.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Power Boat	7	Seafarer (motorboat)	-1	180	400	1/4	0.25	Тор	2	3	42, 000	2.5 tons

Armour

Location	Armour
Front	3
Right	3
Left	3
Rear	3
Тор	3
Bottom	3

Other Equipment/Modifications:

Communications (TL6), Hydrofoil, Navigation (basic)

Research Ship

Research ships are used for a wide variety of scientific applications. Providing a full suit of research facilities, this ship is ideal for any scientific expedition.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Research Ship	7	Seafarer (ocean ships)	-3	60	3, 000	10/-	1 ton	No	20	20	225, 500	20 tons

Armour

Location	Armour
Front	3
Right	3
Left	3
Rear	3
Тор	3
Bottom	3

Other Equipment/Modifications:

Bunks x6, Communications (TL6), Computer/1 x2, Hydrology Sampler, Lab Space +2 (7 researchers), Mini-galley, Navigation (basic), Sensors (advanced), Underwater Sensors (advanced)

RUBBISH TRAMP

An unfortunate necessity in many industrialised societies. These relatively small, open decked ships are used to ferry refuse to dumping stations or reclamation plants.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Rubbish Tramp	5	Seafarer (ocean ships)	-3	40	2, 000	2/-	3 tons	Open Bed	7	8	53, 100	10 tons

Armour

Location	Armour
Front	3
Right	3
Left	3
Rear	3
Тор	3
Bottom	3

Other Equipment/Modifications:

Communications (TL 4), Decreased Hull x3, Decreased Structure x2, Entertainment System (CR. 200), Fresher, Medium Crane

STEAM SHIP

An early, powered ship. The Steam ship or Steamer as it is sometimes called, is used for a variety of tasks from ferrying passengers to carrying goods around the coast.

Vehicle	ΤL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Steam Ship	4	Seafarer (ocean ships)	-3	20	1, 000	5/50	_	No	15	15	170, 000	15 tons

Armour

Location	Armour	Other Equipment/Modificat
Front	3	
Right	3	Double Capacity Seating x25
Left	3	
Rear	3	
Тор	3	
Bottom	3	

Other	Equipment/Modifications:	

TENDER

Most large vessels will be accompanied by at least one tender. These small boats are used to transport people and cargo without the need for ships to go into port or perform complicated boarding actions.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Tender	5	Seafarer (motorboats)	0	40	100	1/9	1 ton	Тор	3	3	19, 000	tons

Armour

Location	Armour
Front	3
Right	3
Left	3
Rear	3
Тор	3
Bottom	3

Other Equipment/Modifications:

Communications (TL 8), Lower Fuel Capacity x5

GIVILIAN SUBMERSIBLES

DEEPWATER SUBMARINE

These high technology vessels are specially designed for deep sea exploration at such depths that other submersibles would be crushed by pressure. In some societies these vessels are used for transport and cargo from deep sea mining and research facilities.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Deepwater Sub	8	Seafarer (submarine)	-4	20	1,000	2/6	0.25 tons	No	15	15	4, 520, 100	45 tons

Safe dive Depth: 400 Safe Crush Depth: 1,200 Life Support: 200

Armour

Location	Armour
Front	1
Right	1
Left	1
Rear	1
Тор	1
Bottom	1

Other Equipment/Modifications:

Bunks x3, Communications (TL 8), Fresher, Increased Crush Depth x2, Navigation (basic), Sensors (Standard)

Research Sub

Research subs are mostly concerned with the study of marine life and underwater features. Passenger facilities and environmental systems are provided for long journeys and studies. Fully equipped for any research project.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Research Sub	9	Seafarer (submarine)	-4	50		3/7	0.75 tons	No	50	50	5, 877, 000	150 tons

Safe Dive Depth: 600 Crush Depth: 1,800 Life Support: 500

Armour

Location	Armour
Front	4
Right	4
Left	4
Rear	4
Тор	4
Bottom	4

Other Equipment/Modifications:

Bunks x5, Communications (TL6), Computer/1 x2, Fusion Plant, Hydrology Sampler, Lab Space +2 (7 researchers), Long Term Life Support, Mini-galley, Navigation (basic), Underwater Sensors (advanced)

SUBMARINE

Civilian submarines are most often used on ocean worlds for transporting passengers and goods between underwater, settlements but are also used for salvaging, exploring and maintenance of underwater facilities.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Submarine	8	Seafarer (submarine)	-2	20	_	2/4	3.5 tons	No	5	5	3, 123, 000	90 tons
Safe dive De Safe Crush I Life Support	Dept	h: 600										

Armour

Location	Armour
Front	3
Right	3
Left	3
Rear	3
Тор	3
Bottom	3

Other Equipment/Modifications:

Airlock, Bunks x3, Communications (TL 8), Fresher, Navigation (basic), Underwater Sensors (Standard), Long Term Life Support

SUBMERSIBLE

Submersibles are small, short range submarines normally carried by much larger vessels such as research ships.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Submersible	8	Seafarer (submarine)	-2	25	100	2/4	0.25 tons	No	5	5	519, 500	20 tons
Osfa diva Dav	46.40	20										

Safe dive Depth: 400 Safe Crush Depth: 600 Life Support: 100

Armour

Location	Armour
Front	3
Right	3
Left	3
Rear	3
Тор	3
Bottom	3

Other Equipment/Modifications:

Bunks x3, Communications (TL 8), Navigation (basic), Underwater Sensors (Standard)



GRAV **T**RAIN

Replacing earlier electric trains, the Grav train uses weak grav modules to support the cars and increase speed.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Grav Train	13	Flyer (grav)	-4	800	—	4/280	41.33 tons	No	36	36	2, 371, 200	36.6 tons

Armour

Location	Armour	Other Equipment/Modifications:
Front	5	
Right	5	Locomotives (front and rear):
Left	5	Double Capacity Seating x20, Entertainment System Cr. 400, Fresher, Short Term Life
Rear	5	Support
Тор	5	Freicht Com
Bottom	5	Freight Car:
		Open Cargo Bed

Passenger Car:

Double Capacity Seating x100, Entertainment System, Freshener x2, Full Galley (serves 20), Short Term Life Support

STEAM TRAIN

The steam locomotive is a common design found on many low-tech worlds. It allows for the easy transportation of goods across vast distances and is often more comfortable than animal drawn vehicles, this along with the interchangeable carriages makes the steam train a vital part of many developing civilisations.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Steam	4	Drive	-4	80	800	3/120	13.77	No	25	26	560,	26 tons
Train		(wheeled)					tons				000	

Armour

Location	Armour
Front	2
Right	2
Left	2
Rear	2
Тор	2
Bottom	2

Other Equipment/Modifications:

Engine Cab:

Fuel Cart: Increased Range

Freight Carriage: Open Cargo Bed

Passenger Carriage: Double Capacity Seating x50

Dinning and Cabin Carriage: Full Galley (serves 100 passengers), Freshener x2, Bunks x10

GIVILLIAN

UNPOWAERED SHIPS AND BOATS

CANOE

A small, narrow, water vehicle that relies on the water flow and the muscle power of the occupants. Primarily seen on primitive worlds, the canoe is most used for hunting and fishing. It can also be used for trade and transportation in environments where wheeled vehicles are ill suited.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Canoe	1	Seafarer (sail)	-1	Str	—	1/—	0.25 tons	Тор	1	1	400	1 ton

Armour

Location	Armour	Other Equipment/Modifications:
Front	1	
Right	1	
Left	1	
Rear	1	
Тор	1	
Bottom	1	

1

CARAVEL

Small, two masted, highly agile sailing ships. Caravels are often employed by low Tech Level worlds to explore vast stretches of ocean. Capable of transporting small quantities of goods or travellers and cartographers to new lands.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Caravel	1	Seafarer (sail)	-2	20% wind	_	8/18	2.5 tons	Тор	9	8	164, 000	18 tons

Armour

Bottom

Location	Armour	Other Equipment/Modifications:
Front	1	
Right	1	Bunks x14
Left	1	
Rear	1	
Тор	1	

SAIL YACHT

A symbol of opulance on higher tech worlds, these luxury vehicles are often owned by the wealthy who feel nostalgic for the age of sail crafts rather than the larger, powered sea vessels available.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Yacht	8	Seafarer (sail)	-1	55% wind	—	10/20	2.5 tons	No	25	20	530, 300	50 tons

Armour

Location	Armour
Front	3
Right	3
Left	3
Rear	3
Тор	3
Bottom	3

Other Equipment/Modifications:

Bunks x25, Communications (TL 6), Entertainment System (Cr. 800), Fire Extinguishers, Full Galley (serves 20), Fresher x4, Navigations (basic), Sensors (basic)

Sloop

Small sailboats that are fitted with a for and aft sail on a single mast. Most commonly used for fishing or personal travel. On more advanced worlds they become more of a recreational vehicle.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	•	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Sloop	1	Seafarer (sail)	-1	20% wind	—	1/2	0.25 tons	Тор	1	1	1, 000	2.5 tons

Armour

Location	Armour
Front	1
Right	1
Left	1
Rear	1
Тор	1
Bottom	1

Other Equipment/Modifications:

CIVILIAN WIANKERS

CARGO LIFTER

The cargo lifter is a common sight around starports and industrial centres. Standing over nine foot tall, the lifter allows the driver to move objects with the aid of two large pincers. Unlike most walkers, the cargo lifter is not fully enclosed. This allows for better visibility and communication.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Cargo Lifter	8	Drive (walker)	+1	50	150	1/—	—	Тор	2	2	112, 000	8 tons

Armour

Location	Armour
Front	1
Right	1
Left	1
Rear	1
Тор	1
Bottom	1

Other Equipment/Modifications:

Manipulator Arms: Str 4 Dex 2

CARGO LIFTER (SEALED) This variant of the Cargo Lifter is designed for use in either hostile or no atmosphere worlds.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	•	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Cargo Lifter	8	Drive (walker)	+2	50	150	1/—	—	Тор	2	2	140, 000	8 tons

Armour

Location	Armour
Front	4
Right	4
Left	4
Rear	4
Тор	4
Bottom	4

Other Equipment/Modifications:

Advanced Controls, Communications (TL 6), Life Support (short term) Manipulator Arms: Str 4 Dex 2

CONSTRUCTION-WALKER

The Construction-Walker is a vital part of any large building firm. Coming with a variety of tools and with several competing versions available, these Walkers can carry perform tasks from heavy lifting to dextrous welding.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Construction Walker	10	Drive (walker)	+2	50	150	1/—	2.5 tons	No	5	5	421, 000	22.5 tons

Armour

Location	Armour
Front	4
Right	4
Left	4
Rear	4
Тор	4
Bottom	4

Other Equipment/Modifications:

Communications (TL 6), Medium Crane, Sensors (basic) Manipulator Arms: STR 10 DEX 4

EXPLORER

Designed for extended exposure to hostile and alien environments, the explorer type walker comes equipped with advanced life support and protective measures. With its sensors it is an ideal vehicle for the exploration of the unknown.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Explorer	8	Drive (walker)	+2	50	150	1/—	—	Тор	2	2	211, 600	8 tons

Armour

Location	Armour
Front	4
Right	4
Left	4
Rear	4
Тор	4
Bottom	4

Other Equipment/Modifications:

Communications (TL8, tightbeam), Hostile Environment Protection, Long Term Life Support, Navigation (standard), Sensors (advanced)

SUB-WALKER

A fully enclosed walker designed to enable engineers and technicians to work underwater. Modifiable for most tasks, this walker is a useful asset.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Sub- Walker	8	Drive (walker)	+2	50	150	1/—		Тор	2	2	120, 000	8 tons

Armour

Location	Armour
Front	1
Right	1
Left	1
Rear	1
Тор	1
Bottom	1

Other Equipment/Modifications:

Advanced Controls, Communications (TL 6), Life Support (short term) Manipulator Arms: Str 2 Dex 1

TECH-WALKER

The Tech-Walker is fully enclosed and equipped with all the tools necessary to perform vital maintenance in a hostile environment. This walker is adjustable for different tasks, making it the logical choice for any mechanic working in harsh conditions.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Tech- Walker	8	Drive (walker)	+2	50	150	1/—	—	Тор	2	2	175, 000	8 tons

Armour

Location	Armour
Front	4
Right	4
Left	4
Rear	4
Тор	4
Bottom	4

Other Equipment/Modifications:

Communications (TL 8), Cutting Equipment, Hostile Environment Protection, Sensors (basic), Short Term Life Support Manipulator Arms: STR 2 DEX 1

MILITIARY AVEROPLANIES

DIVE BOMBER

Designed to give close support to ground troops or make precise attacks against fortified positions or navel vessels, the dive bomber makes itself felt in early mechanised warfare.

Vehicle	TL	Skill	Agility	Speed	Range	Crew Passe	/ engers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size		
Dive Bomber	5	Flyer (wing)	+1	300	2,000	2/-		—	No	4	5	1, 912, 300	36		
Take-off Radius/Landing: 2,500/1,250															
					Weapon		Locati	ion	Damage	Ra	nge	Auto	Ammo		
Armou	r				Light Machineg	un v2	Small Top Re		3d6 SAP	Ver	y Long	6	12, 000		
Location		Ar	mour						1040	Mar	Distant	No			
Front		4			Medium B	amo	Dedica		12d6	ver	y Distant	No			
Right		4		1	x2		Bomb Left W								
Left		4			Medium B	omh	Dedica	•	12d6	Vor	v Distant	No			
Rear		4			x2	UIID	Bomb		1200	vei	y Distant	INU			
Тор		4			~~		Right \	5							
Bottom		4			Heavy Bo	mh x2	Dedica	0	14d6 AP	Ver	y Distant	No			
Turret Fro	ont	4			~		Bomb		10070	101	Joiotant				
Turret Sic	le/rea	ır 4					Bottom		y						

Other Equipment/Modifications:

Additional Armour, Communications (TL 4), Increased Speed x10, Navigation (basic), Sensors (basic)

FIGHTER

Fighter craft are light, manoeuvrable and armed to tear apart enemy air support. These vehicles are the key to air superiority and many variations can be found to fulfil multiple roles in aerial combat.

Vehicle	TL	Skill	Agility	Speed	Range	Cre Pas	w / sengers	Cargo	o Open?	Hull	Structur	e	Cost (Cr.)	Shipping Size
Fighter	5	Flyer (wing)	+1	375	600	1/—		_	No	2	3		295, 500	9 tons
Take-off/L	andin	g: 300m/	500m	Wea	apon		Location	1	Damage	Rang	je	Au	to	Ammo
Armou	r			Ligh Mac	t hinegun >	x2	Fixed Mo Front	ount	3d6 SAP	Very	Long	6		12, 000
Location		Arr	mour	Ligh			Fixed Mo		3d6 SAP	Very	Long	6		12, 000
Front		2		Mac	hinegun >	x2	Left Wing							
Right		2		Ligh			Fixed Mo		3d6 SAP	Very	Long	6		12, 000
Left		2		Mac	hinegun >	x2	Right Wir	ng						
Rear		2												
Тор		2		04		4	(NA 1161)	e						
Bottom		2		Other Equipment/			wooificat	tions:						

Communications (TL 4), Increased Speed x5, Navigation (basic), Sensors (basic)

LIGHT BOMBER

The light bomber is best employed to clear out enemy infantry positions. Despite their limited payload, a formation of bombers can decimate an opposing force.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Car	go	Open?	Hull	Strue	cture	Cost (Cr.)	Shipping Size
Light Bomber	5	Flyer (wing)	+1	375	600	2/-	—		No	2	3		344, 500	10 tons
Take-off/La	anding	g: 300m/5	00m	Weapor	ı	Location		Damage		Range		Auto		Ammo
Armou	Armour			Light Machinegun x2		Small Turret	Гор	3d6	SAP	Very Lo	ng	6		12, 000
Location		Arm	nour	Medium Bomb		Dedicated Bomb		12d6 \		Very Distant		No		
Front		2		x6		Bay Bottom								
Right		2												
Left		2		Other E	quipmer	t/Modification	IS:							
Rear		2			•••									
Тор		2		Commun	ications	(TL 4), Increas	ed S	peed	d x5, Nav	vigation (b	asic),	Senso	rs (bas	ic)
Bottom		2												
Turret Fro	nt	2												
Turret Sid	e/rea	r 2												

STRATEGIC BOMBER

Large, heavily armed bombers with turreted defences. While slower and bulkier, these flying fortresses have an advantage over fighter craft with their anti-air defences.

Vehicle TL	Skill	Agility	Speed	Range	Crew Pass	engers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
•	Flyer (wing)	0	400	3,000	6/—		_	No	18	18	2, 416, 000	108
Take-off/Landing	: 2, 000	m/1, 000	m	Weapon		Locatio	n	Damage	R	ange	Auto	Ammo
Armour				Light Autocanne	on	Front Turret		6d6 SAP		ery Long	6	5, 000
Location		Armo		Light		Rear Tu	rret	6d6 SAP	Ve	ery Long	6	5, 000
Front		9		Autocanne	on							
Right		9		Light		Top Tur	ret	6d6 SAP	Ve	ery Long	6	5, 000
Left		9		Autocann	on	_						
Rear		9		Light		Bottom	Turret	6d6 SAP	Ve	ery Long	6	5, 000
Тор		9		Autocanne								
Bottom		9		Heavy Bo	mb			14d6 AP	Ve	ery Distant	No	
Front Turret Fro	nt	9		x20		Bay Bot	tom					
Front Turret Side	e/Rear	9		ou =								
Rear Turret From	nt	9		Other Eq	uipme	nt/Modi	lications					
Rear Turret Side	e/Rear	9		argo Turr	ot· 1 (row Fro	nt					
Top Turret Front	t	9		Large Turret: 1 Crew, Front Large Turret: 1 Crew, Rear				Additional	Armou	r x2, Advanc	ed Control	S,
Top Turret Side/	Top Turret Side/Rear 9			Large Turr			. (x6, Navigation
Bottom Turret Front 9				Large Turret: 1 Crew, 1			tom ((basic), Sensors (advanced), Improved Fire Control				
Bottom Turret S	ide/Rea	ar 9		0.		,		+2 (Heavy Bombs), Increased Speed x10				0

MILITIARY AVIRALIPS

Artillery Platform

This air suspended gun emplacement bares a passing resemblance to the gun platforms of more advanced, grav using militaries. Using a body of lighter than air gas to suspend it inverted in the air, the guns of these vessels can rain a torrent of heavy weapons fire down on the landscape from high altitude, so long as fine aim is not required.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure Envelope	Structure Gondola	Cost (Cr.)	Shipping Size
Artillery Platform		Flyer (airship)	-4	100	4, 000	2/-	0.5 tons	No	2	1, 600	2	436, 000	21 tons

Armour

Location	Armour
Front	4
Right	4
Left	4
Rear	4
Тор	4
Bottom	4

Weapon	Location	Damage	Range	Auto	Ammo
Artillery Rocket Pod x4	Bottom Fixed Weapon Mount	16d6	Distant	12	12
Other Equipmen	nt/Modifications:				
Additional Armour	r, Communications	(TL 4, exte	nded range)	, Navigatior	(basic), Sensors

ZEPPELIN

An armed airship of vast proportions, zeppelins can be fitted with all number of armaments and heavier variants can function as floating bases for light aircraft. A zeppelin does suffer from a lack of manoeuvrability and the easily targeted envelope.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure Envelope	Structure Gondola		
Zeppelin	5	Flyer (airship)	-4	100	4, 000	6/—	0.5 tons	No	3	352	3	286, 500	32.5 tons

Armour

Location	Armour
Front	4
Right	4
Left	4
Rear	4
Тор	4
Bottom	4
Right Turret Front	4
Right Turret Rear/Side	4
Left Turret Front	4
Left Turret Rear/Side	4

Weapon	Location	Damage	Range	Auto	Ammo
Light Machinegun x2	Left Turret	3d6 SAP	Rifle	6	12, 000
Light Machinegun x2	Right Turret	3d6 SAP	Rifle	6	12, 000
Heavy Bomb x6	Dedicated Bomb Bay Bottom	14d6 AP	Very Distant	No	

Other Equipment/Modifications:

Additional Armour, Communications (TL 4), Navigation (basic), Sensors (basic)

MILITARY BATTLEDRESS

BATTLE DRESS, BASIC

The ultimate personal armour, battle dress is a powered form of combat armour. The servomotors vastly increase the user's speed and strength.

Туре	TL	Skill	Chassis	Str Modifier	Dex Modifier		Armour	Duration	Speed	Cost (Cr.)	Shipping Size
Basic	14	Battledress	Medium	+4	+4	2d6	16	18 hours	12/60	1, 114, 350	0.1 tons

Other Equipment/Modifications:

Computer/2, Communications (advanced), Expert Tactics (Military/2)

BATTLE DRESS, CLOSE SUPPORT

Close Support Battle Dress is designed to operate with normally-equipped infantry. It is Equally mobile and well protected. With a built in support laser, two small artillery pieces and the ability to carry or mount additional armaments, this variant is a terrifying foe for infantry.

Туре	TL	Skill	Chassis	Str Modifier	Dex Modifier		Armour	Duration	Speed	Cost (Cr.)	Shipping Size
Close Support	14	Battledress	Medium	+4	+4	2d6	16	18 hours	12/60	1, 127, 350	0.1 tons

Weapon	Location	Damage	Range	Auto	Ammo	Other Equipment/Modifications:
Laser Carbine	Slotted (left hand)	4d6	Rifle	No	50	Computer/2, Communications (advanced), Exper
Medium Mortar x2	Mounted (shoulders)	4d6	Distant	No	10	(Military/2)

BATTLE DRESS, COMBAT PIONEER

Combat Pioneer battle dress is slightly heavier than the standard model. Mounting no weapons but carrying a variety of advanced sensors and all the tools needed for a battlefield pioneer while offering the protection of a combat battledress.

Туре	TL	Skill	Chassis	Str Modifier	Dex Modifier	Base Dmg	Armour	Duration	Speed	Cost (Cr.)	Shipping Size
Combat Pioneer	14	Battledress	Medium	+4	+4	2d6	19	18 hours	12/60	1, 296, 150	0.1 tons

Other Equipment/Modifications:

Computer/2, Communications (advanced), Expert (sensors/2) Sensors (advanced), Med Pack, Tool Kit

BATTLE DRESS, ELECTRONIC WARFARE

The Electronic Warfare variant uses advanced countermeasure systems and sensors to enable its bearer to jam enemy communications and systems, while also providing protection for other members of a battle dress team. While not carrying any built in weaponry, it does contain a host of decoy and defensive systems.

Туре	TL	Skill	Chassis	Str Modifier	Dex Modifier	Base Dmg	Armour	Duration	Speed	Cost (Cr.)	Shipping Size
Electronic Warfare	14	Battledress	Medium	+4	+4	2d6	16	18 hours	12/60	1, 261, 350	0.1 tons

Other Equipment/Modifications:

Chaff Dispenser, Computer/2, Communications (advanced), Electronic Countermeasures (Advanced), Expert (sensors/2), Intrusion/3, Prismatic Aerosol Dispenser, Security/3, Sensors (advanced)

BATTLE DRESS, SCOUT

Normally used by reconnaissance units, artillery spotters and the like. Some officers and rapid assault units also favour it for its superior mobility. With a grav unit fitted as standard, this unit has much greater mobility.

Туре	TL	Skill	Chassis	Str Modifier	Dex Modifier	Agility	Base Dmg	Armour	Duration	Speed	Cost (Cr.)	
Scout	14	Battledress	Light Chassis	+3	+4	+2	2d6+2	13	24 hours	20/400	879, 000	00.7 tons

Other Equipment/Modifications:

Active Camo, Computer/2, Communications (advanced), Expert (communications/2, sensors/2), Grav Pack, Sensors (advanced), Sonic Suppresser



MILITIARY GRAV VIEHICLES

G/AV

The Grav Assault Vehicle is designed for rapid attacks and scouting. Lightly armoured, the G/AV is more suited to engaging infantry and convoys but its speed and armaments give it a fighting chance against heavier vehicles.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Oper	n? Hull	Structur	re Cost (Cr.)	Shipping Size
G/AV	12	Flyer (grav)	+2	1,600	3,000	2/-	—	No	7	7	5, 961, 000	7 tons
Location		Ar	mour	Weap	on	Location	Da	mage	Range	Auto	o Ar	nmo
Front		20		Advar	nced Light	Modular	6d6	<u>)</u> +4	Very Dista	ant 8	5,	000
Right		20		Autoc	annon	Fixed Moun		Р				
Left		20				Forward Let	ft					
Rear		20			nced Light		••••	ò +4	Very Dista	ant 8	5,	000
Тор		20		Autoc	annon	Fixed Moun		Р				
Bottom		20				Forward Rig	,					
Turret Fro	ont	20		0	Light Tac Missile		9d6	6	Very Dista	ant No		
Turret Sid	le/Rea	ar 20		(Anti-l x2	· /		et					

Other Equipment/Modifications:

Small Turret: Improved Fire Control +2, Pop-up Turret

Additional Armour x3, Advanced Controls, Streamlined, Autopilot (skill-2), Communications (TL10 encrypted satellite uplink), Decreased Speed x2, Navigation (standard), Sensors (advanced, increased range x2), Short Term Life Support



G/AT PLATFORM

The Grav Anti-Tank Platform serves a vital role in modern warfare. While not as versatile as other grav tanks, nor as well armoured, the range and camouflage abilities of the G/AT platform mean that those who can afford it will never have to worry about enemy armour units.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
G/AT	13	Flyer (grav)	0	205	4,000	2/-	_	No	27	28	29, 673, 500	27.5 tons

Armour

Location	Armour
Front	20
Right	20
Left	20
Rear	20
Тор	20
Bottom	20
Large Turret Front	20
Large Turret Side/Rear	20
Small Turret Front	20
Small Turret Side/Rear	20

Weapon	Location	Damage	Range	Auto	Ammo
Light Hypervelocity Gun	Large Turret Top	16d6 Ultimate AP	Very Distant	No	400
Advanced Support Weapon x2	Small Turret Top	4d6 SAP	Rifle	4	10,000

Other Equipment/Modifications:

Large Turret: 1 Crew, Improved Fire Control +4, 1 Space for Ammunition Small Turret: Improved Fire Control +1

Additional Armour , AFV, Autopilot (skill-2), Communications (TL10 encrypted satellite uplink), Decoy, Decreased Agility, Decreased Speed x5, Ejection Cocoon, Navigation (standard), Sensors (advanced, increased range x2), Short Term Life Support, Stealth II



G/BOMBER

Replacing the attack helicopter in ground assaults, this vehicle carries a substantial array of air-to-ground weapons capable of destroying most ground targets. The bomber also carries several air-to-air weapons to defend against against enemy aircraft.

Vehicle	TL	Skill	Agility	Speed	Range	Crew Pass	/ / sengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
G/ Bomber	12	Flyer (grav)	0	1,950	3,000	1/—		_	No	6	7	3, 853, 000	6.5 tons
Location		Arm	our	Weap	on	L	ocation		Damag	ge	Range	Auto	Ammo
Front		15		Light ⁻	Fac Missil	le D	edicated	Missile	9d6 St	lper	Very Distant	No	
Right		15		(Anti-A	Armour) x	(4 B	ay Left E	xternal	AP				
Left		15		Light ⁻	Tac Missil	le D	edicated	Missile	9d6 St	lper	Very Distant	No	
Rear		15		(Anti-A	Armour) x	(4 B	ay Right	External	AP		-		
Тор		14		VRF (Gauss Gu	ın F	ixed Mou	Int Front	5d6 AF	C	Distant	12	20, 000
Bottom		16											
				Other	Fauipm	ent/M	odificati	ons:					

quipment/modifications:

Additional Armour x2, Advanced Controls, Streamlined, Autopilot (skill-2), Communications (TL10 encrypted satellite uplink), Decreased Agility x2, Short Term Life Support, Navigation (standard), Sensors (advanced, increased range x2)

G/CARRIER

A grav carrier is effectively a flying tank and is the standard deployment vehicle of many military forces across the Imperium. The turret-mounted fusion guns provide devastating ground support for a well sized fire team. Sporting a full suite of sensors and computer assisted systems. This vehicle is perfect for troop deployment in any conflict.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size	
G/Carrier	15	Flyer (grav)	+1	640	2,500	2/14	0.25 tons	No	8	8	5,666, 500	8 tons	
Location		Arr	nour	Wea	ipon	Location		Damage	e F	Range	Auto	Ammo	
Front		25		Fusi	on Gun	Small Turret	t Top	16d6	١	/ery Long	4	N/A	
Right		25											
Left		25		Oth	er Equip	ment/Modifica	tions:						
Rear		25											
Тор		25				nour, AFV, Auto		,.		•			
Bottom		25		-		ellite uplink), C		``		, ,		0	
Turret From	nt	25		intrusion/2 database), Double Capacity Seating x 7, Electronic Countermeasures (advanced), ERA (type IV), ESA, Hard Points x3, Increased Speed, Navigation									
Turret Side	e/rear	25		•	(Advanced), ERA (type IV), ESA, Hard Points XS, increased Speed, Navigation (Advanced), Sensors (Advanced, Increased range)								

G/CARRIER HEAVY VARIANT

This grav carrier variant sports a devastating arsenal to replace its diminished troop compliment. Designed for high tension conflicts, this vehicle is more tank than troop transporter and forms the backbone of an armoured column. Its relatively small internal size forces a difficult choice however, if not for its dual function as a carrier and battle tank, it has the capacity for a fusion plant to supplement its capabilities.

Vehicle	TL	Skill	Agility	Speed	Range	Crew Pass	/ engers	Cargo	Open?	Hull	Structu		Cost (Cr.)	Shipping Size
Heavy G/ Carrier	15	Flyer (grav)	+1	600	1,250	4/10		_	No	30	30		14,369, 000	30 tons
Armou	r													
Location	1		Armour		Weapon		Locatio	n	Damage	Rai	nge	Aut	o /	Ammo
Front			25		RF Plasm	na B	Large T	urret	14d6 Ultra	a Dis	tant	No	1	N/A
Right			25		Gun		Тор		Destructiv	'e				
Left			25		VRF Gau	ISS	Small T	urret	5d6 AP	Dis	tant	12	2	20,000
Rear			25		Gun		Left side	9						
Тор			25		VRF Gau	SS	Small T	urret	5d6 AP	Dis	tant	12	2	20,000
Bottom			25		Gun		Right sid	de						
Main Tur	ret Fror	nt	25	_										
Main Tur	ret Side	e/Rear	25		Other Eq	luipme	ent/Modi	fication	s:					
Right Tur	ret Fro	nt	25						ad Fire Co	untural A i				

Large Turret: Top, 2 crew, Improved Fire Control 4+ Small Turret x2: Side mounted, Improved Fire Control 4+ Autopilot (skill-3), Chaf, Communications (meson, range continental, encrypted, satellite uplink), Computer/5 (intellect/2 security/3 gunner/2 pilot grav/2 intrusion/2 database), Decoys, ERA (type IV), ESA, Hard Points x3, Life Support (short term), Navigation (advanced), Sensors (advanced, increased range), Smoke

G/COPTER

Right Turret Side/Rear

Left Turret Side/Rear

Left Turret Front

25

25

25

Rapid troop transport with light fire support, the grav copter uses two small gravitic generators on either side of the passenger cabin to propel itself across the sky.

Vehicle	TL	Skill	Agility	Speed	Range	Crew Pass	/ / engers	Cargo	Open?	Hull	Structur		Cost (Cr.)	Shipping Size
G/Copter	12	Flyer (grav)	+1	520	3,000	2/12		_	No	11	12		3, 042, 000	11.5 tons
Location		Arm	our	Wea	pon		Locatio	n	Damag	je	Range	Aut	:o /	Ammo
Front		10		Adva	nced Sup	oport	Left Sid	e Small	4d6 SA	P	Rifle	4	1	10,000
Right		10		Wea	oon x2		Turret							
Left		10		Adva	nced Sup	oport	Right Si	ide Small	4d6 SA	νP	Rifle	4	1	10,000
Rear		10		Wea	Weapon x2		Turret							
Тор		10												
Bottom		10		Othe	r Equipn	nent/M	lodificat	ions:						
Turret Fron	t	10												
Turret Side/Rear 10 Additional Armour, Autopilot (skill-2), Communications (TL10 encrypted satellite upl Increased Speed x3, Navigation (standard), Sensors (advanced, increased range x2), S Term Life Support										• •				

G/CYCLE

The gravitic version of the assault-cycle is much more versatile than its predecessor, boasting improved armaments, speed, manoeuvrability.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Struct	ure	Cost (Cr.)	Sh Siz	ipping ze
G/Cycle	12	Flyer (grav)	+2	12,500	4,500	1/1	_	Тор	1	1		199, 500	1 t	on
Armou	r													
Location		Ar	mour	Wea	pon		Loc	ation	Dai	mage	Rang	e Au	to	Ammo
Front		15		Adva	anced Su	pport Weapon	x2 Fixe	ed Mount	4d6	SAP	Rifle	4		10,000
Right		13					For	ward Facing	g					
Left		13												
Rear		5		Oth	er Equip	ment/Modifica	ations:							
Тор		5												
Bottom		9		Additional Armour, Advanced Controls, Decreased Speed x5, Navigation (standard), Senso (standard), Streamlined), Sensors	

G/FIGHTER

Grav fighters are the mainstay of any truly advanced airforce. Fast, agile and well armed, these vessels can fill a number of roles such as ground strafing, aerial escort and bomber interception.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
G/ Fighter	12	Flyer (grav)	+2	1,975	3,000	1/-	_	No	6	7	4, 561, 000	6.5 tons
Location		Arm	our	Weapon		Location		Damage		Range	Auto	Ammo
Front		10		Light Tac	Missile	Dedicated Mi	ssile	9d6		Extreme	No	
Right		10		(Anti-Air)		Bay Left Exte	ernal					
Left		10		Light Tac	Missile	Dedicated Mi	ssile	9d6 Super	AP	Very	No	
Rear		10		(Anti-Arn	nour)	Bay Left Exte	ernal			Distant		
Тор		10		Light Tac	Missile	Dedicated Mi	ssile	9d6		Extreme	No	
Bottom		10		(Anti-Air)		Bay Right Ex	ternal					
Turret Fro	ont	10		Light Tac	Missile	Dedicated Mi	ssile	9d6 Super	AP	Very	No	
Turret Sic	le/Rea	r 10		(Anti-Arn	nour)	Bay Left Exte	ernal			Distant		
				VRF Gau	uss Gun	Small Turret	Front	5d6 AP		Distant	12	20, 000

Other Equipment/Modifications:

Additional Armour, Advanced Controls, Streamlined, Autopilot (skill-2), Communications (TL10 encrypted satellite uplink), Navigation (standard), Sensors (advanced, increased range x2), Short Term Life Support

G/STEALTH PLANE The latest in espionage technology, grav stealth planes far surpass earlier technology with greater sensors, improved stealth technology. Combining these with its rapid speed, the grav Stealth Plane is the ultimate espionage vehicle.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size		
G/Stealth	12	Flyer (grav)	+2	2,500	3,000	2/-	_	No	5	5	3, 681, 000	5 tons		
Location		Ar	mour	Othe	r Equipm	ent/Modificatio	ons:							
Front		5												
Right		5							•		ypted, satellite uplink),			
Left		5				ntermeasures (a								
Rear		5		Navig	ation (sta	ndard), Sensors	advanc	ed, increa	sed ran	ge x2), Stea	ilth II, Stro	eamlined		
Тор		5												
Bottom		5												

G/TANK

Grav tanks are heavily armoured vehicles with devastating weaponry. They are much slower than other grav vehicles but still faster than their terrestrial counterparts. Heavily armed and armoured, the grav tank is a vital part of many military forces.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
G/Tank	12	Flyer (grav)	0	400	1,500	2/-	_	No	12	12	12, 351, 000	12 tons
Location		Arm	nour	Weap	on	Location		Damage		Range	Auto	Ammo
Front		80		12mm	Light	Large Turi	ret Top	10d6 Meg	ja-AP	Very Distant	t No	300
Right		80		Gauss	Cannon	x2						
Left		80										
Rear		80		Other	Equipm	ent/Modificati	ons:					
Тор		80										
Bottom		80		Large	Turret: Im	proved Fire Co	ontrol +3					
Turret Front 80												
Turret Side/Rear80Additional Armour x8, AFV, Autopilot (skill-2), Communications (TL10 encrypted sa uplink), Decreased Agility, Ejection Cocoon, Navigation (standard), Sensors (advar Improved Fuel Efficiency x2, Short Term Life Support												
GUNSKIFF

A mobile gun platform which allows for the rapid deployment of heavy guns and troops. Passengers are free to fire from the vehicle as it is completely open. A favoured vehicle of the Aslan who also use them to deploy assault troops.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Gun Skiff	9	Flyer (grav)	+1	350	2,000	2/15	—	Frame	8	10	476, 000	11.5 tons

Armour

Location	Armour	Weapon	Location	Damage	Range	Auto	Ammo
Front	1	Light Rotary	Large Turret Top	6d6 SAP	Very Long	10	5,000
Right	1	Autocannon	Front				
Left	1						
Rear	1	Other Equipr	ment/Modifications:				
Тор	1						
Bottom	1	Large Turret: 1	Crew				
Turret Front	1	D					
Turret Side/Rear	1	Decreased Hu	II x3, Decreased Stru	ucture x2			



MILITIARY GROUND VIEHICLES

AFV

A heavily armoured ATV, known as an Armoured Fighting Vehicle. Armed with anti-personal weaponry, a thick hull and enough room for an armed fireteam, this vehicle is excellent for small scale operations.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structur	re Cost (Cr.)	Shipping Size
AFV	12	Drive (wheeled)	0	85	450	1/9	_	No	5	5	67, 400	0 6 tons
Location	n	Armo	ur	Weapor	n	Location	D)amage	Ra	nge	Auto	Ammo
Front		20		Medium	l	Ring Mou	nt 3	d6+3 SAP	Rif	le	6	10, 000
Right		20		Machine	egun							
Left		20										
Rear		20		Other E	iquipme	nt/Modificatio	ns:					
Тор		20										
Bottom		20		Additional Armour, AFV, Decreased Speed x5, Decreased Structure, Reduced Fuel Efficiency, Ring Mount (medium machinegun), Wheels (6)								

ALL TERRAIN ASSAULT VEHICLE

The All Terrain Assault Vehicle (ATAV) is an open topped, off road vehicle best used for scouting. Equipped with a pintle weapon mount and space for three passengers, a good choice for a small fireteam needing rapid transport with a punch.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
ATAV	7	Drive (wheeled)	0	140	400	1/4	_	Тор	3	3	27, 020	6 tons

Armour

Location	Armour
Front	12
Right	12
Left	12
Rear	12
Тор	12
Bottom	12
Gun Shield	24

Weapon	Location	Damage	Range	Auto	Ammo
Light Autocannon	Powered Pintle Mount	6d6 SAP	Very Long	6	5, 000
Other Equipment/I	Modifications:				
Additional Armour, A		tions (TL 6),	Sensors (bas	sic), Off-ro	ad Capability

ALL TERRAIN FORTRESS

A mobile missile battery and heavy weapon station, the All Terrain Fortress is large and slow moving but a devastating war machine. Filling the role as armour support, it brings enough firepower to take on a light armour division.

Vehicle TL	Skill	Agility	Speed	Range	Crew / Passe		Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
ATF 9	Drive (tracked)	-1	38	_	6/-			Тор	41	41	5, 752, 100	41 tons
Armour												
Location	A	Armour	W	leapon		Locati	on	Dama	age	Range	Auto	Ammo
Front Right		30 24	3	5mm Rail C	Gun	Large	Turret Top	p 12d6 Supe		Very Distant	No	400
Left	2	24	Н	eavy Autoc	annon	Large	Turret Top	p 8d6 A	νP	Very Distant	No	6,000
Rear Top		6 6		ght Tac Mis nti-Air x4	ssile	Small Left	Turret Top	o 9d6		Very Distant	No	
Bottom	2	2	Li	ght Tac Mis	ssile	Small	Turret Top	o 9d6 S	Super-	Very Distant	No	
Main Turret Fre	ont 2	20	A	nti-Armour	x4	Right		AP				
Main Turret Sid	de/Rear 2	20										
Left Turret Fro	nt 1	0										
Left Turret Side	e/Rear 1	0										
Right Turret Fr	ront 1	0										
Right Turret Si	de/Rear 1	0										

Other Equipment/Modifications:

Small Turret (top left): Pop-up Turret Small Turret (top right): Pop-up Turret Large Turret: 2 Crew, improved fire control +2

Additional Armour, AFV, Communications (TL 8), Computer/1, Fusion Plant, Hard Points x4 (2 space each), Navigation (basic), Sensors (advanced)

ALL TERRAIN GUN TRANSPORT

Essentially a tracked heavy weapon emplacement. Gun transports form a vital part of any large scale military conflict, being able to swiftly bring in heavy guns such as fusion guns and missile batteries.

Vehicle	TL	Skill	Agility	Speed	Range	Cre Pas	w / sengers	Cargo	Open?	Hull	Structure	e Cost (Cr.)	Shipping Size
ATF	9	Drive (tracked)	0	90	500	2/–		—	Тор	4	4	95, 160	2 tons
Armou	r												
Location		Armo	our										
Front		8		Weap	oon		Location		Damage	Ran	ige	Auto	Ammo
Right		8		Light	Tac Miss	ile	Modular F	ixed	9d6 Super	Very	/ Distant	No	
Left		8		(Anti-	Armour)	x4	Mount Top)	AP				
Rear		8											
Тор		8		Othe	r Equipn	nent/	Modificati	ons:					
Bottom		8		۸ ما ما :۲:			.			und Ei	o O a ratural		tion (hoois)
Main Turr	et	8						ations ($I \sqcup \delta$), Impro	oved Fil	e Control	+∠, ivaviga	ition (basic),
Left Top T	urret	8		Sense	ors (advai	nceu)						

Right Top Turret

ANTI-PERSONNEL TANK

8

Anti-Personnel Tanks are the bane of infantry units. A light tank equipped with a machinegun and flamethrowers, this vehicle is one of the surest methods of clearing out enemy trenches.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
APT	6	Drive (tracked)	0	45	200	4/—	1.0 tons	No	10	10	97, 750	10 tons

Armour

Location	Armour						
Front	24	Weapon	Location	Damage	Range	Auto	Ammo
Right	20	Improved	Left Side	4d6 Flame	Medium	N/A	60
Left	20	Flamethrower x2	Hardpoint				
Rear	18	Improved	Right Side	4d6 Flame	Medium	N/A	60
Тор	18	Flamethrower x2	Hardpoint				
Bottom	10	Heavy Machinegun	Top Ring Mount	5d6 AP	Rifle	6	14, 000
Gun Shield	12						

Other Equipment/Modifications:

Additional Armour x2, AFV, Communications (TL 6), Increased speed, Ring Mount (gunshield)

Armoured Car

An alternative to the light tank, the armoured car is often found on lower technologically developed worlds where the manufacture of tanks proves too costly.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Armoured car	6	Drive (wheeled)	0	90	200	2/-	0.25 tons	No	8	9	113, 500	8.5 tons
Armour												
Location		Armou	r	Weapon		Location		Damage	Rang	je Auto	Amn	10
Front		14		Heavy N	lachinegu	in Top Large	Turret	5d6 AP	Rifle	6	14, 0	00
Right		14										
Left		14		Other E	quipmen	t/Modification	s:					
Rear		12										
Тор		10		Large Tu	ret: 1 cre	W						
Bottom		8		A 1 1.1.								
Turret Front		12		Additiona	I Armour	, AFV, Commu	nication	s (IL 6), S	ensors	(basic), Wh	eels x6	
Turret Side/I	Rear	12										

ARMOURED PERSONNEL CARRIER

An essential part of any military engagement. The Armoured Personnel Carrier (APC) is designed to transport squads of soldiers while under heavy fire.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
APC	9	Drive (tracked)	0	90	565	2/10	0.25 tons	No	7	8	58, 600	7.5 tons

Armour

Location	Armour
Front	22
Right	20
Left	20
Rear	17
Тор	17
Bottom	12

Other Equipment/Modifications:

Additional Armour x2, AFV, Communications (TL 8), Navigation (basic), Sensors (basic)

Assault Tank

A formidable armoured vehicle, the assault tank spouts two heavy cannons with the express purpose of destroying enemy armour.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Assault tank	8	Drive (tracked)	0	47	400	3/—	_	No	16	16	2, 260, 200	16 tons

Armour

Location	Armour	Weapon	Location	Damage	Range	Auto	Ammo				
Front	30	120mm Cannon x2	Top Large Turret	10d6 Super AP	Distant	No	30				
Right	27										
Left	27	Other Equipment/	Modifications:								
Rear	24					_					
Тор	24	Large Turret: 1 Crev	Large Turret: 1 Crew, Improved Fire Control +2, Increased Ammunition x2								
Bottom	12						Neulastic				
Turret Front	24	Additional Armour x		cations (TL 6), II	ncreased s	peed x2,	Navigation				
Turret Side/Rear	24	(basic), Sensors (ba	isic)								
		-									

Assault Cycle

A Semi-enclosed, one-man armoured motorcycle. Its high speed and armour are reason enough to employ it for rapid, personal transportation. The two light machineguns mounted to the front turn it from a mere conveyance to a serious threat.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Assault Cycle	7	Drive (wheeled)	+1	264	400	1/—	—	Тор	1	2	20, 280	1.5

Armour

Location	Armour	Weapon	Location	Damage	Range	Auto	Ammo
Front	7	Light Machinegun x2	Fixed Forward	3d6	Rifle	6	12, 000
Right	3		Facing				
Left	3						
Rear	1	Other Equipment/Mo	odifications:				
Тор	3	Mataravala Canaara /	hadia) Indradada	d Croad C			
Bottom	1	Motorcycle, Sensors (Dasic), increased	a Speed, Co	ommunications	(110)	

ATV

The All Terrain Vehicle is second only to grav vehicles in versatility for transports. A reinforced, tracked, amphibious vehicle, fully capable of handling waterways, rough terrain and any hostile environment.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
ATV Land	12	Drive (tracked)	0	115	600	1/15	0.5 tons	No	5	7	54, 310	10 tons
Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size

Armour

Location	Armour
Front	10
Right	10
Left	10
Rear	10
Тор	10
Bottom	10

Other Equipment/Modifications:

Additional Armour, Aquatic drive, Communications (TL 6), Decreased Hull x3, Decreased Structure x2, Short Term Life Support, Navigation (standard), Sensors (advanced)

BATTLE TANK

The battle tank is a heavy, two turreted anti-armour monster. With two separate heavy guns the Battle tank is able to track and destroy multiple targets in an instant.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Assault tank	8	Drive (tracked)	0	47	400	3/—	_	No	17	18	1, 615, 000	17.5 tons

Armour

Location	Armour
Front	30
Right	27
Left	27
Rear	24
Тор	24
Bottom	12
Large Turret Front	24
Large Turret Side/Rear	24
Small Turret Front	20
Small Turret Side/Rear	20

Weapon	Location	Damage	Range	Auto	Ammo
120mm Cannon	Top Large Turret	10d6 Super AP	Distant	No	30
75mm Cannon	Top Small Turret	8d6 Super AP	Distant	No	40

Other Equipment/Modifications:

Large Turret: 1 Crew, Improved Fire Control +2, Increased Ammunition Small Turret: Improved Fire Control +2, Increased Ammunition

Additional Armour x4, AFV, Communications (TL 6), Increased speed x2, Navigation (basic), Sensors (basic)

LIGHT PATROL VEHICLE

The LPV was designed for use by militias and paramilitary police forces in counter insurgency and counter-terrorist operations. While ill-suited to long term operations or front line duties, the LPV serves admirable against irregular units and light infantry.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structu	ire	Cost (Cr.)	Shipping Size
LPV	9	Drive (wheeled)	0	150	400	2/-	0.25 tons	No	4	4		93, 280	4 tons
Armou	r												
Location		Armo	ur	Weapo	n	Location		Damage	Rang	je	Auto	o A	mmo
Front		22		Light Au	utocanno	n Top Large	Turret	6d6 SAP	Very	Long	6	5	, 000
Right		17											
Left		17		Other E	Equipme	nt/Modificatio	ns:						
Rear		16											
Тор		16		Large Tu	urret: 1 C	rew, Improved	Fire Co	ntrol +2					
Bottom		8		A .1.1111	- 1	0.0					• • • • •		
Turret Fro	ont	16		Additional Armour x3, Communications (TL 6), Off-road Capability, Sensors (basic)							IC)		
Turret Sic	le/Re	ar 16											

MISSILE TANK

Employing a missile battery instead of cannons, the missile tank fills a supporting role in most military forces. Small and fast compared to other tanks, a group of missile tanks can provide a withering barrage of fire power in a difficult situation.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Missile tank	8	Drive (tracked)	0	97	400	3/—	_	No	4	4	94, 600	4

Armour

Location	Armour	Weapon	Location	Damage	Range	Auto	Ammo
Front	24	Medium Missile x4	Dedicated Top	8d6+4 SAP	Extreme	No	
Right	19		Missile Bay				
Left	19						
Rear	19	Other Equipment/	Iodifications:				
Тор	19						
Bottom	9	Additional Armour), Improved	Fire Contro	ol +2, Increased
		speed x2, Navigatior	i (basic), Sensors	(Dasic)			

MOBILE COMMAND CENTRE

Functioning as both a super heavy tank and a mobile base of operations for coordinating the rest of the army. Able to monitor both friendly and hostile units, the mobile command centre lends a hefty advantage to the force which fields it.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
MCC	8	Drive (tracked)	0	32	400	6/—	_	No	25	25	2, 944, 000	25 tons

Armour

Location	Armour	Weapon	Location	Damage	Range	Auto	Ammo
Front	35	120mm Cannon	Top Right Large	10d6 Super	Distant	No	30
Right	35		Turret	AP			
Left	35	120mm Cannon	Top Left Large	10d6 Super	Distant	No	30
Rear	30		Turret	AP			
Тор	30	Gatling Laser	Front Small	6d6	Distant	8	-
Bottom	15		Turret				
Right Turret Front	30	Medium Missile x2	Top Dedicated	8d6+4 AP	Extreme	No	
Right Turret Side/Rear	30		Missile Bay				
Left Turret Front	30		Madifiantiana				
Left Turret Side/Rear	30	Other Equipment/	woalfications:				

Large Turret: 1 Crew, Improved Fire Control +2, Increased Ammunition Large Turret: 1 Crew, Improved Fire Control +2, Increased Ammunition Small Turret: Improved Fire Control +2

Additional Armour x4, AFV, Communications (TL 8), Computer /1 x2, Navigation (basic), Sensors (Advanced)

MILITIARY HELICOPTERS

ATTACK **H**ELICOPTER

The attack helicopter is primarily an anti-tank vehicle, however it serves equally well supporting ground units and can be fitted for anti-air duties. This versatility makes it an excellent choice for a support vehicle.

Vehicle	TL	Skill	Agility	Spee	d Range	Crew Passe		Cargo	0	pen?	Hull	Structur		Cost Cr.)	Shipping Size
Attack Helicopter	7	Flyer (rotor)	–1	120/ 400	2,000	2/—		_	N	0	4	4		, 077,)00	24 tons
Take-off Ra	dius:	70m			Weapon		Locat	ion		Dama	ge	Range	Aut	to	Ammo
Armour					Light Autoc x2	annon	Small Front	Turret		6d6 S/	٩P	Very Long	6		5, 000
Location		Arı	nour		70mm Stra	fing	Dedica	ated		8d6	,	Very Long	14		7
Front		12			Rocket Pac	ck x4		e Bay Lef	ft						
Right		12					Wing								
Left		12			70mm Stra	fing	Dedica	ated		8d6	,	Very Long	14		7
Rear		12			Rocket Pac	ck x4	Missile	,							
Тор		12					Right	Wing							
Bottom		12													
Turret Fron	ret Front 12 Other Equipm		ipment	/Modifi	cations:										
Turret Side	Turret Side/rear 12								_						

AFV, Additional Armour, Chaff x2, Communications (TL 6), Navigation (basic), Sensors (advanced)

SCOUT HELICOPTER

With minimal armament, the scout helicopter is equipped with a full sensor suite to locate enemy units and alert the rest of the army. Due to their lack of heavy armour, they are often escorted by an attack helicopter.

Vehicle	ΤL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Scout Helicopter	8	Flyer (rotor)	+1	150/ 400	2,000	2/	_	No	1	2	203, 000	6 tons

Location

Front

Fixed Mount 6d6 SAP

Take-off Radius: 26m

Armour

Location	Armour
Front	3
Right	3
Left	3
Rear	3
Тор	3
Bottom	3

Other Equipment/Modifications:

Weapon

Autocannon x2

Light

Communications (TL 6), Navigation (basic), Sensors (advanced), Improved Fire Controls +1 (light autocannons)

Damage

Range

Very Long

Auto

6

Ammo

5,000

MILITIZARY JETS

Jet Fighter

The Natural Evolution of the fighter plane, jet fighters boast greater speed and fire power than their predecessors.

Vehicle	TL	Skill	Agility	Sp	eed	Range	Crew / Passer	ngers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Jet Fighter	8	Flyer (wing)	+2	1, 9	900	2,000	1/-		_	No	2	2	3, 596, 000	8 tons
Take-off/L	anding	: 2,500m	n/1,250m		Weap	oon		Locat	ion	Dama	ge	Range	Auto	Ammo
•					Light	Autocani	non x2		Mount	6d6 S	AP	Very Long	6	5,000
Armou	r			_				Front						
Location	1	Arn	nour		Mediu	um Missi	e x2	Gener	al Missile	e 8d6+4	AP	Extreme	No	
Front		6						Bay L	eft Wing					
Right		6			Mediu	um Missi	e x2		al Missile		AP	Extreme	No	
Left		6						Bay R	ight Wing	9				
Rear		6												
Тор		6			Othe	r Equipn	nent/Mo	dificat	ions:					
Bottom		6		,	\ dditi/	anal Arm	our Adv	anced	Controls	Commu	vicatio	ns (TL 6) Fia	ction Seat	Navigation

Additional Armour, Advanced Controls, Communications (TL 6), Ejection Seat, Navigation (basic), Sensors (standard), Short Term Life Support, Super Sonic, Improved Fire Controls +1 (light autocannons), Improved Fire Controls +2 (medium missiles)

SPY JET

An extremely fast vehicle, even by the standards of jets. Spy jets are used for surveillance over enemy territory with their highly advanced sensors and stealth technology.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Spy Jet	8	Flyer (wing)	+2	2,500	3,000	2/-	—	No	4	5	10, 744, 000	17 tons

Take-off/Landing: 2,500m/1 250m

Armour

Armour
3
3
3
3
3
3

Other Equipment/Modifications:

Advanced Controls, Communications (TL 8), Increased Speed x10, Infrared Masking I, More Fuel Efficient x5, Navigation (basic), Sensors (advanced, range increase), Super Sonic, Short Term Life Support, Stealth II

Stealth Bomber

Strategic bombers that employ the latest in stealth technology to go undetected by enemy forces. Acting as a vanguard for more traditional bombers, these jets will target any threat to air forces before they can be deployed.

Vehicle	TL	Skill	Agility	Speed	Range	Cre Pas	ew / ssengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Stealth Bomber	8	Flyer (wing)	+2	1,800	2,000	2/—		—	No	3	3	5, 501, 000	12 tons
Take-off/L	anding	g: 2,500n	n/1,250m	Wea	ipon		Location		Damag	je	Range	Auto	Ammo
				Med	ium Miss	ile	Dedicated	Missile	8d6+4	AP	Extreme	No	
Armou	r			x4			Bay Front						
Location		Arr	nour	Hea	vy Bomb	x6	Dedicated	Bomb	14d6 A	P	Very Distant	No	
Front		9					Bay Botto	m					
Right		9											
Left		9		Oth	er Equipi	men	t/Modifica	tions:					
Rear		9		۸ ما ما :۱	ional Arm				ntrolo O		niaationa (Tl	0) Infrar	ad Maaking I
Тор		9									nications (TL		U ,

Additional Armour x2, Advanced Controls, Communications (TL 8), Infrared Masking I, Navigation (basic), Sensors (advanced), Super Sonic, Short Term Life Support, Stealth II, Improved Fire Control +2 (Missiles and Bombs)

VTOL FIGHTER

Bottom

9

The Vertical Take Off and Landing Fighter jet offers by far the greatest manoeuvrability of any fighter jet. While mostly filling the role of a helicopter, the VTOL also has the capabilities of a fighter jet.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passeng	gers	Cargo	Ор	en?	Hull	Structure	Cost (Cr.)	Shipping Size
Jet Fighter	8	Flyer (wing)	+4	1, 900	1,200	2/		_	No		2	3	6, 790, 000	8 tons
Take-off/L	anding	: 2,500m	/1,250m	We	apon		Loc	ation		Dam	age	Range	Auto	Ammo
Armou	r			Ligl	ht Autoca	nnon x2	Fixe Fror	d Mount nt		6d6 \$	SAP	Very Long	6	5, 000
Location		Arn	nour	Me	dium Mis	sile x2	Gen	eral Miss	ile	8d6+	4 AP	Extreme	No	
Front		6					Bay	Left Wing	g					
Right		6		Me	dium Mis	sile x2	Gen	eral Miss	ile	8d6+	4 AP	Extreme	No	
Left		6					Bay	Right Wi	ng					
Rear		6		Hea	avy Bomb	o x6	Ded	icated Bo	omb	14d6	AP	Very Distan	t No	
Тор		6					Bay	Bottom						
Bottom		6												

Other Equipment/Modifications:

Additional Armour, Advanced Controls, Communications (TL 6), Ejection Seat x2, Navigation (basic), Sensors (standard), Short Term Life Support, Super Sonic, Improved Fire Controls +1 (light autocannons), Improved Fire Controls +2 (medium missiles), VTOL

MILITIARY SHIPS AND BOATS

BATTLEFOIL

The battlefoil is an armed hydrofoil often employed for fast assaults and intercepting enemies. The additional speed form the hydrofoil makes them excellent rapid attack Transport.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open	? Hull	Structure	Cost (Cr.)	Shipping Size
Battle Sub	9	Seafarer (motorboats)	0	80/ 260	800	4/10	—	No	6	6	193, 300	9 tons
Armou	r			Weapon	Lo	cation	Damage	R	ange	Auto	Am	mo
Location		Armour		Light	Rig	ht Powered	6d6 SAF		ery Long	6	5, 0	000
Front		8		Autocanne	on Pir	ntle Mount			, ,			
Right		8		Light	Let	ft Powered	6d6 SAF	o Ve	ery Long	6	5, 0	000
Left		8		Autocanne	on Pir	ntle Mount						
Rear		8		Medium	Тор	o Dedicated	8d6+4 A	P Ex	treme	No		
Тор		8		Missile x2	Mis	ssile Bay						
Bottom		8										
Right Gur	nshiel	d 8		Other Eq	uipmen	t/Modification	s:					
Left Guns	shield	8				a						
				Additional	Armour	, Communicat	ions (IL 6	5), Gun	ports x1	0, Hydrofoil,	Naviga	ition (basic),

CORVETTE

The smallest ocean going ship of war, corvettes often work in support of larger vessels. Despite their smaller size, an amassed force can pose a serious threat.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Corvette	9	Seafarer (ocean ships)	-3	60	4,000	60/-	—	No	87	87	1, 988, 400	87 tons

Armour

Location	Armour	Weapon	Location	I
Front	12	35mm Rail Gun	Top Large Turret	1
Right	12	35mm Rail Gun	Top Large Turret	
Left	12	Light Tac Missile	Top Dedicated	9
Rear	12	(anti-air) x2	Missile Bay	
Тор	12	Smart Torpedo	Bottom Dedicated	1
Bottom	12	x4	Torpedo Bay	
For Turret Front	12			
For Turret Side/Rear	12	Other Equipmer	nt/Modifications:	
Aft Turret Front	12	Leave Turnets 4 Or		
Aft Turret Side/Rear	12	•	ew, Improved Fire C	

Sensors (basic)

35mm Rail Gun	Top Large Turret	12d6 Super AP	Very Distant	No	200
Light Tac Missile (anti-air) x2	Top Dedicated Missile Bay	9d6	Extreme	No	
Smart Torpedo x4	Bottom Dedicated Torpedo Bay	12d6	Very Distant	No	N/A
Other Equipmen	t/Modifications:				

Damage

Range

12d6 Super AP Very Distant

Auto

No

Ammo

200

control +2 Large Turret: 1 Crew, Improved Fire Control +2

Additional Armour x2, Bunks x30, Communications (TL 6), Fresher x4, Full Galley (serves 20), Improved Fire Control +2 (torpedoes), Improved Fire Control +2, Improved Fire Control +2 (missiles), Navigation (basic), Sensors (basic)

Frigate

The main workhorse of most fleets. While smaller then other ships, frigates sport enough firepower to make them truly formidable fighting machines.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Frigate	9	Seafarer (ocean ships)	- 6	40	8,000	120/	—	No	174	174	4, 552, 600	174 tons

Armour

Location	Armour	Weapon	Location	Damage	Range	Auto	Ammo
Front	24	35mm Rail Gun	Front Top	12d6 Super	Very Distant	No	200
Right	24		Large Turret	AP			
Left	24	35mm Rail Gun	Rear Top	12d6 Super	Very Distant	No	200
Rear	24		Large Turret	AP			
Тор	24	35mm Rail Gun	Top Large	12d6 Super	Very Distant	No	200
Bottom	24	x2	Turret	AP			
For Turret Front	24	Light Tac Missile	Top Dedicated	9d6	Extreme	No	
For Turret Side/Rear	24	(anti-air) x4	Missile Bay				
Aft Turret Front	24	Light Tac Missile	Top Dedicated	9d6	Extreme	No	
Aft Turret Side/Rear	24	(anti-air) x4	Missile Bay				
		Smart Torpedo x8	Bottom Dedicated Torpedo Bay	12d6	Very Distant	No	N/A

Other Equipment/Modifications:

Large Turret: 1 Crew, Improved Fire Control +2 Large Turret: 1 Crew, Improved Fire Control +2 Large Turret: 1 Crew, Improved Fire Control +2

Additional Armour x4, Bunks x60, Communications (TL 6), Fresher x4, Full Galley (serves 40), Improved Fire Control +2 (torpedoes), Improved Fire Control +2, Improved Fire Control +2 (missiles), Navigation (basic), Sensors (basic)

IRONCLAD

These steam powered warships are heavily armoured vessels that sit low in the water. Ironclads are armed with heavy cannons capable of bombarding land targets as well as going ship to ship with other naval vessels.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Struct	ture	Cost (Cr.)	Shipping Size
Ironclad	4	Seafarer (ocean ships)	-3	20	1,000	10/-	1 ton	No	25	25		700, 800	25
Armour	-												
Location		Arm	our	Weapo	n	Location	Da	image	Range	A	Auto		Ammo
Front		10		9 lb Ca	nnon	Right Fixed	9d	6	Very Lo	ng N	10		60
Right		10		x4		Mount							
Left		10		9 lb Ca	nnon	Left Fixed Mou	int 9d	6	Very Lo	ng N	lo		60
Rear		10		x4									
Тор		10											
Bottom		10		Other	Equipme	ent/Modificatio	ns:						
Turret Fro	nt	10											
Turret Rea	ar/Sid	le 10		Additior	X20								

MOTOR TORPEDO BOAT

Fast attack craft designed for lighting raids on larger vessels before escaping from retaliation.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Torpedo Boat	8	Seafarer (motorboats)	0	60	400	6/—	—	No	6	6	114, 000	9 tons

Armour

Location	Armour
Front	3
Right	3
Left	3
Rear	3
Тор	3
Bottom	3
Turret Front	3
Turret Rear/Side	3

Weapon	Location	Damage	Range	Auto	Ammo							
Smart Torpedo x2	Front Dedicated Torpedo Bay	12d6	Very Distant	No	N/A							
Light Autocannon x2	Top Small Turret	6d6 SAP	Very Long	6	5,000							
Other Equipment/Modifications:												



BATTLE SUBMARINE

Battle submersibles are often deployed from larger vessels and underwater facilities. They perform short range attacks as the underwater equivalent of fighter squadrons. Providing fast support, they are an excellent choice to defend against sea attacks.

Vehicle	TL	Skill	Agility	Speed	Rang	ge Crew / Passenge	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Battle Sub	9	Seafarer (submarine)	-2	50	1,500) 2/-	—	No	14	14	1, 933, 600	42 tons
Safe dive	Dept	:h: 600		Weapor	า	Location	Damage	Rang	е	Auto	An	nmo
Safe Crus Life Supp	ort: 5	pth: 1,800 00		Smart Torpedo	x2	Dedicated Front Torpedo Bay	12d6	Very	Distant	No		
Location	า	Armou	r	Other E	quipn	nent/Modificat	tions:					
Front		8										
Right		8				our, Communi	``	5), Improve	ed Fire	Control +2,	Increase	d speed x2,
Left		8		Navigatio	on (bas	sic), Sensors (basic)					
Rear		8										
Тор		8										
Bottom		8										

COASTAL **S**UBMARINE

The coastal submarine is often the first line of defence against an encroaching sea force. It's missile systems allowing it to take on threats on all fronts.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open	? Hull	Stru	ucture	Cost (Cr.)	Shipping Size
Coastal Sub	9	Seafarer (submarine)	-2	40	1,500	10/	_	No	20	20		2, 561, 600	60 tons
Safe dive				Weapon		Location	Dama		Range		Auto	Δr	nmo
Life Suppo	Safe Crush Depth: 1,800 Life Support: 500 <i>Armour</i>				rpedo	Front Dedicated Torpedo Bay	12d6	•	/ery Dist	ant	No		
Location		Armou	r	Light Tac (Anti-Air)		Top Dedicated Missile Bay	d 9d6	E	Extreme		No		
Front		12	_	Light Tac		Top Dedicated	d 9d6 S	uper \	/ery Dist	ant	No		
Right Left		12 12		(Anti-Arm	nour) x4	Missile Bay	AP		,				
Rear		12		Other Ec	uipmen	t/Modification	s:						
Тор		12			la building								
Bottom		12		Additional	Armour	x2, Communic	ations (1	⁻ L 6), In	nproved	Fire	Control	+2, Incre	ased speed

Additional Armour x2, Communications (TL 6), Improved Fire Control +2, Increased spee x2, Navigation (basic), Sensors (basic)

NUCLEAR SUBMARINE

Nuclear submarines are long range, heavily armed dreadnaughts. Often used as a deterrent against attacks, their costly nature means only the most powerful of military forces can support them.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Battle Sub	9	Seafarer (submarine)	-2	47	1,500	120/ —	_	No	470	470	124, 907, 000	60 tons

Safe dive Depth: 900 Safe Crush Depth: 2,700 Life Support: 500

Armour

Location	Armour	Weapon	Location	Damage	Range	Auto	Ammo
Front	24	Heavy Torpedo	Front Dedicated	14d6	Very Distant	No	N/A
Right	24	x4	Torpedo Bay				
Left	24	Heavy Torpedo	Rear Dedicated	14d6	Very Distant	No	N/A
Rear	24	x4	Torpedo Bay				
Тор	24	60mm Antitank	Top Small Turret		Distant	No	80
Bottom	24	Gun		AP			
Turret Front	24	Light Tac Missile		9d6	Extreme	No	
Turret Side/Rear	24	(Anti-Air) x4	Missile Bay				
		Light Tac Missile (Anti-Armour) x4		9d6 Super AP	Very Distant	No	

Other Equipment/Modifications:

Small Turret: Improved Fire Control +2

Additional Armour x4, Bunks x120, Communications (TL 6), Fresher x6, Full Galley (serves 60) Fusion Plant, Improved Fire Control +2 (front torpedoes), Improved Fire Control +2 (rear torpedoes), Improved Fire Control +2 (missiles), Increased speed x5, Navigation (basic), Sensors (basic), Operating Theatre (10 patients)





Frigate

Designed for speed and manueverability rather than firepower like other vessels of the age, frigates range from small and swift vessels two decks and two masts used to escort more vulnerable ships, to larger three decked vessels designed to support larger warships at the heart of the fighting.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Frigate	3	Seafarer (sail)	-2	35% Wind	_	124/	9.25 tons	No	40	50	1, 398, 300	100 tons
Armou	r											
Location		Arm	our	Weap	on	Locatior	n E	Damage	Range	Auto	An	nmo
Front		4		9 lb C	annon x1	0	ed 9	9d6	Very Long	g No	60	
Right		4				Mount						
Left		4		9 lb C	annon x1		d 9	9d6	Very Long	g No	60	
Rear		4				Mount						
Тор		4		0.1								
Bottom		4		Other	Equipm	ent/Modificat	ions:					

Additional Armour, Bunks x63, Full Galley (serves 40)

GALLEON

The galleon is one of the earliest warships. These large vessels are multi-decked sailing ships with three to five masts. Cannons are situated down each side, creating a withering broadside of fire. The majority of warfare involving these ships consists of manoeuvring to present the best fire solution with only a few volleys needed to decide the battle.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Galleon	3	Seafarer (sail)	-2	35% Wind	—	287/-	75 tons	No	80	100	3, 637, 600	200 tons

Armour

Location	Armour	Weapon	Location	Damage	Range	Auto	Ammo
Front	8	9 lb Cannon x2	Top Forward	9d6	Very Long	No	60
Right	8		Fixed Mount				
Left	8	9 lb Cannon x50	Right Fixed	9d6	Very Long	No	60
Rear	8		Mount				
Тор	8	9 lb Cannon x50	Left Fixed	9d6	Very Long	No	60
Bottom	8		Mount				
		9 lb Cannon x4	Rear Fixed	9d6	Very Long	No	60

Other Equipment/Modifications:

Additional Armour x3, Bunks x61

MILITIZAVRY WIZAVLKIERS

CHAMELEON

The Chameleon is a small, light armoured walker designed for stealth and scouting. They can also be seen supporting larger mechanised walkers or operating in groups to perform high damage, hit and run assaults.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Chameleon	12	Drive (Walker)	+1	75	450	1/	_	No	2	3	1, 437, 000	10 tons
Armour												
Location		Armou	r	Weapo	n	Location	Dama	ige l	Range	Auto	Α	mmo

Location	Armour
Front	5
Right	5
Left	5
Rear	5
Тор	5
Bottom	5
Turret Front	5
Turret Side/Rear	5

		-	_	• •					
Weapon	Location	Damage	Range	Auto	Ammo				
Advanced Light Autocannon x2	Small Turret Bottom Front	6d6+4 SAP	Very Long	8	5,000				
Other Equipment/Modifications:									
Small Turret: Improved Fire Control +1									
Communications (TL 10, uplink), Decreased Speed x5, Ejection Seat, Infrared Masking I, Navigation (standard), Prismatic Aerosols, Sensors (advanced), Stealth Class I, Short									

Term Life Support, Smoke Dischargers, Visual Camouflage II

CHIMERA

This medium sized walker is best known for its versatility. Equipped with both infantry and armour weapon systems, the Chimera can function in offensive and defensive situations with ease.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Chimera	12	Drive (Walker)	-1	60	450	2/-	—	No	12	12	2, 446, 200	54

Armour

Armour
30
25
25
20
10
10
20
20
20
20

Weapon	Location	Damage	Range	Auto	Ammo
Plasma A Gun	Large Turret Top	14d6 Destructive	Very Long	No	N/A
VRF Gauss Gun	Small Turret Bottom Front	5d6 AP	Distant	12	20, 000

Other Equipment/Modifications:

Large Top Turret: 1 Crew, Improved Fire Control +2 Small Under Turret: Improved Fire control +2

Additional Armour, AFV, Communications (TL 6), Decreased Speed x5, Ejection Seat, Navigation (standard), Prismatic Aerosols, Sensors (advanced), Short Term Life Support, Smoke Dischargers

DRAGON

A light, anti-personnel walker. The dragon is designed for trench and infantry clearance. Armed with a powerful flamethrower and lightly armoured to help avoid fire, it is an excellent choice for any prolonged engagements where an enemy may dig in.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Dragon	12	Drive (Walker)	+1	150	450	1/—	_	No	6	4	226, 200	10

Armour

Location	Armour	Weapon	Location	Damage	Range	Auto	Ammo	
Front	15	Advanced	Small Turret	3d6+6	Medium	N/A	20	
Right	13	Flamethrower x2	Bottom Front					
Left	13							
Rear	8	Other Equipment	Modifications:					
Тор	8							
Bottom	7	Small Under Turret	: Improved Fire c	ontrol +1				
Turret front	10							
Turret Rear/Side	8	AFV, Communicati	v				· · · · · · · · · · · · · · · · · · ·	
			Increased Hull x3, Prismatic Aerosols, Sensors (advanced), Short Term Life Suppor Smoke Dischargers					

Hydra

The hydra heavy support walker is a mobile missile bed. Loaded with enough fire power to devastate an armoured column or fixed emplacement, the hydra is an excellent method of providing artillery despite difficult terrain.

		Agility	Speed Range Crew / Passen			Cargo	•		lull	Structure	Cost (Cr.)	Shipping Size	
Hydra 12	12 Drive (Walker	-1)	70	600	1/—		_	No	1	0	10	624, 500	45 tons
Armour													
Location	Arm	nour	Weapo	on		Locat	ion		Damag	ge	Range	Auto	Ammo
Front	10		70mm	Strafing	Rocket	Dedic	ated Miss	sile	8d6		Very Long	14	
Right	10		Pod (7	'pack) x4		Bay To	ор						
Left	10		Light T	ac Missil	e (Anti-	Dedic	ated Miss	sile	9d6		Extreme	No	
Rear	10		Air) x6			Bay To	ор						
Тор	10		Light T	ac Missil	e (Anti-		ated Miss	sile	9d6 St	•	Very	No	
Bottom	10		Armou	/		Bay To	ор		AP		Distant		
			•	āc Missil nnel) x6	e (Anti-	Dedic Bay To	ated Miss op	sile	9d6		Very Distant	No	

Other Equipment/Modifications:

AFV, Communications (TL 6), Computer/1, Decreased Speed x5, Ejection Seat, Legs x4, Navigation (standard), Prismatic Aerosols, Sensors (advanced), Short Term Life Support, Smoke Dischargers

LEVIATHAN

This amphibious, heavy battle walker is well known for surprise attacks on coastal facilities and enemy sea units. Armed with missile systems, gauss cannons and lasers, this walker has earned its fearsome reputation.

Vehicle	TL	Skill	Agility	Speed	Range		ew / ssengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Leviathan (land)	12	Drive (Walker)	-1	60	600	1		_	No	6	7	8, 694, 200	28.5 tons
Armour													
Location		Armo	ur	Weapo	n		Location		Damage	Ra	ange	Auto	Ammo
Front		30		12mm I	_ight		Small Turre	t	10d6 Meg	a- Di	stant	No	300
Right		30		Gauss	Cannon		Bottom		AP				
Left		30		Blue-gr	een Lase	er	Left "Arm"		7d6	Ve	ery Long	No	N/A
Rear		30		Cannor	า		Hardpoint						
Тор		30		Blue-gr	een Lase	er	Right "Arm"		7d6	Ve	ery Long	No	N/A
Bottom		30		Cannor			Hardpoint						
Turret Front	t	30		0	ac Missile		Dedicated N	lissile	9d6 Super	r Ve	ery Distant	No	
Turret Side/	/Rea	r 30		(Anti-Ai	mour) x4	-	Bay Top		AP				

Other Equipment/Modifications:

Small Turret: Improved Fire Control +2

Additional Armour x2, AFV, Communications (TL 6), Decreased Speed x5, Ejection Seat, Navigation (standard), Prismatic Aerosols, Sensors (advanced), Short Term Life Support, Smoke Dischargers

SCORPION

The workhorse of the armoured walkers. The scorpion provides a cost effective method of deploying heavy weapons and can often be seen deployed with a variety of armaments across several vehicles.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Scorpion	12	Drive (Walker)	0	60	450	1/—		No	6	7	1, 375, 000	28.5 tons

Armour

Location	Armour	Weapon	Location	Damage	Range	Auto	Ammo						
Front	30	Plasma A Gun	Top Modular	14d6	Very Long	No	N/A						
Right	25		Fixed Mount	Destructive									
Left	25												
Rear	20	Other Equipme	ent/Modificatio	ns:									
Тор	10												
Bottom	10		Advanced Controls, Additional Armour x2, AFV, Communications (TL 6), Decreased Speed x5, Ejection Seat, Improved Fire Control +2, Navigation (standard), Prismatic Aerosols, Sensors										
		(advanced), Short Term Life Support, Smoke Dischargers											

CLAWBIKE

The Clawbike is utilised by Aslan civilians and military alike. The wheels are equipped with long curved spikes which can be extended or retracted in resemblance to a cat's claws, enabling the Clawbike to grip and traverse rough terrain with little difficulty.

Driving a Clawbike requires considerable strength, as the vehicles are infamous for bucking or toppling if not properly controlled. A character with a negative strength modifier apply it to any Drive rolls while using a Clawbike.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Clawbike	10	Drive (wheeled)	+3	280	500	1/—	—	Frame	3	3	25, 200	3 tons

Armour

Location	Armour
Front	1
Right	1
Left	1
Rear	1
Тор	1
Bottom	1

Other Equipment/Modifications:

Increased Agility x3, Increased Speed x5, Off Road Capability

CRAWLER

Heavy tracked crawlers are multipurpose utility vehicles. The four track sections are individually powered, giving the vehicle considerable agility at the cost of power and added complexity. The body of the crawler is dome-shaped but adjustable due to its internal segmentation. This adjustability makes it well suited to a plethora or roles.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Crawler	10	Drive	1	35	500	2/—	1.75	No	12	13	282,	12.5 tons
		(tracked)					tons				000	

Armour

Location	Armour
Front	25
Right	25
Left	25
Rear	25
Тор	25
Bottom	25

Other Equipment/Modifications:

Additional Armour x4, Increased Agility x2, Sensors (standard), Short Term Life Support, Communications (TL 8)

FLYPOD

Often described as 'soap bubbles' by human observers, Flypods are one-man flying machines which fly through gravity manipulation. A flypod's hull is mostly transparent plastic and light-weight synthetics, this gives it a fragile appearance despite being able to survive a hurricane with little difficulty. Some pods can be linked together and slaved to one lead pod.

Flypod12Flyer+2 (grav)1003,0001/-0.25 tonsNo1144,0001 tonsArmourLocationArmourFront5Right5Advanced Controls, Communications (TL 6), Decreased Speed x8, Navigation (basic)Left5Rear5Top5Bottom5	Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
LocationArmourFront5Right5Left5Rear5Top5	Flypod	12		+2	100	3,000	1/		No	1	1	44, 000	1 tons
Front5Right5Left5Rear5Top5	Armou	r											
Right5Advanced Controls, Communications (TL 6), Decreased Speed x8, Navigation (basic)Left5Rear5Top5	Location		Arm	our	Oth	er Equip	ment/Modifica	ations:					
Left 5 Rear 5 Top 5	Front		5										
Rear5Top5	Right		5		Adva	nced Co	ntrols, Commu	nications	(TL 6), De	crease	d Speed x8, N	Vavigatior	n (basic)
Top 5	Left		5										
	Rear		5										
Bottom 5	Тор		5										
	Bottom		5										

HITIWOYERLITOIR, ASLAN BATTLE DRESS

Comparatively primitive to human battle dress. The Hitiwoyerlitoir may lack the computer systems of other suits but boasts a much greater strength and full protection from the harsh environments of Aslan space.

Туре	TL	Skill	Chassis		Dex Modifier	Base Dmg	Armour	Duration	Speed	Cost (Cr.)	Shipping Size
Hitiwoyerlitoir	14	Battledress	Medium	+6	+3	2d6	19	18 hours	12/60	2, 625, 000	0.1 tons

Other Equipment/Modifications:

Increased Strength x2, Insidious Environment Protection, Lowered Manoeuvrability

ΤΑΝΚ

The main battle tank of the Aslan military, this vehicle exemplifies the fighting techniques of its creators. The tank is heavier than its comparable human designs and has a crew of three – a male commander/gunner, a male driver and a female engineer/comms officer.

Vehicle	TL	Skill	Agility	Speed Range Crew / Cargo Open? H Passengers		Hull	Struc	ture	Cost (Cr.)	Shipping Size			
Aslan Tank	12	Flyer (grav)	0	360	_	3/-		No	37	38		34, 657, 000	37.5 tons
Location		Arn	nour	Weapo	on	Location	Dama	ge	Rang	je	Auto	Amm	C
Front		150)	Plasma	a A Gun x	2 Large Turre	t 14d6		Very	Long	No	N/A	
Right		150)			Тор	Destru	ictive					
Left		150)	VRF G	auss Gur	n Right	5d6 AF	2	Dista	nt	12	20, 00	0
Rear		150)			Hardpoint							
Тор		150)	VRF G	auss Gur	n Left	5d6 AF	C	Dista	nt	12	20, 00	0
Bottom		150)			Hardpoint							
Turret Fro	ont	150)										
Turret Sid	e/Re	ar 150)										

Other Equipment/Modifications:

Large Turret: 1 Crew, Improved Fire Control +3

Additional Armour x14, AFV, Communications (TL 10), Fusion Plant, Hard Points x2, Increased Speed x6, Navigation (standard), Sensors (advanced), Short Term Life Support



DHOUZERSAN **P**LASMA **T**ANK

The Dhouzersan Plasma Tank is a gravitic tank that has become the standard fighting vehicle of most Vargr army divisions. Armed with a variety of plasma-based weapons the Dhouzersan is effective against a wide range of enemy forces.

Vehicle	TL	Skill	Agility	Speed	Range	Crev Pass	/ / sengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
PlasmaTank	12	Flyer (grav)	0	420	_	4/—		0.25 tons	No	22	22	14, 580, 400	20 tons
Location		Armo	ur	Weap	on		Location	1	Damage		Range	Auto	Ammo
Front		40		Plasm	na A Gun		Large Tu	rret	14d6 Destr	uctive	Very Long	No	N/A
Right		40					Тор						
Left		40		Plasm	na Missile	x2	Left Dedi	cated	8d6 Ultra		Extreme	No	
Rear		40					Missile B	ay	Destructive	;			
Тор		40											
Bottom		40		Other	[.] Equipm	ent/M	odificatio	ons:					
Turret Front		40				~							
Turret Side/Re	ear	40		Large	Turret: 1	Crew,	Improved	Fire C	ontrol +3				

Additional Armour x3, AFV, Communications (TL 10), Decreased Agility, Fusion Plant, Hard Points x2, Increased Hull x2, Increased Structure x2, Increased Speed x4, Navigation (standard), Sensors (advanced), Short Term Life Support

GHOERRUEGH G/CARRIER A favourite of both military and corsair raiders, the Ghoerruegh G-Carrier is a personnel carrier designed for stealth and speed. A perfect craft for swift planetary assaults and ground support missions.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Ghoerruegh	10	Flyer (grav)	+1	1, 575	_	2/12	0.5 tons	No	25	25	19, 750, 000	25 tons
Armour												

Location	Armour	Weapon	Location	Damage	Range	Auto	Ammo			
Front	4	Plasma A	Large Turret	14d6	Very Long	No	N/A			
Right	4	Gun	Тор	Destructive						
Left	4									
Rear	4	Other Equipment/Modifications:								
Тор	4									
Bottom	4	Large Turret:	1 Crew, Impro	ved Fire Contro	ol +2					
Main Turret Front	4		o : ::							
Main Turret Side/Rear	4	Streamlined, Communications (TL 10), Decreased Speed x5, Fusion Plant, Infrared								
Main Funct Older Colder Care and Masking II, Navigation (advanced), Sensors (advanced), Short Term Life Su										

VARGR

GRAVITIC **R**ACER

While Vargr may not share the same taste in design to humans, they do share their love of speed. Unlike human grav racers, Vargr designs incorporate a passenger or co-pilot seat; such as their need for companionship they like to share the racing experience with their brethren. Often the passenger serves as a navigator to increase participation.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Gravitic	9	Flyer	0	1,800	500	1/1		No	1	1	113,	0.5 tons
Racer		(grav)									750	

Armour

Location	Armour	Other Equipment/Modifications:
Front	4	
Right	4	Decreased Agility, Decreased Speed x5, Reduced Fuel Efficiency x3, Streamlined
Left	4	
Rear	4	
Тор	4	
Bottom	4	

GRAVITIC **S**PEEDER

These Open-topped vehicles are the Vargr equivalent of the Air/Raft commonly found in Imperial space. However, the Vargr speeder is much smaller with space for one passenger but what it lacks in size it makes up for in speed.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Speeder	9	Flyer (grav)	0	480	2, 000	1/1	0.5 tons	Open Topped	1	3	195, 000	3 tons

Armour

Location	Armour	Other Equipment/Modifications:
Front	5	
Right	5	Decreased Agility, Decreased Hull x2, Increased Speed x2
Left	5	
Rear	5	
Тор	5	
Bottom	5	

VARGR

KHERRTHAZEUGH GROUND CARRIER

The Kherrthazeugh Ground Carrier is a reasonably priced vehicle for travellers and explorers that is both sturdy and reliable. It is large enough to carry a small Vargr pack, with cargo, to and from their destination. The two rear passenger seats can be folded down to provide an additional room for cargo.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Ground Carrier	7	Drive (wheeled)	0	144	572	1/7	1.5 tons	No	3	3	19, 720	3 tons

Armour

Location	Armour
Front	3
Right	3
Left	3
Rear	3
Тор	3
Bottom	3

Other Equipment/Modifications:

Double Occupancy Seating x3, Entertainment System Cr. 200, Fuel Efficiency, Greater Fuel Capacity, Navigation (basic), Off-road Capability

TSUENOURR, VARGR BATTLE DRESS

Similar to the human tech, basic battle dress, the Tsuenourr offers by far the greatest protection for a suit of its class. While perhaps not as sophisticated as other suits, the added protection seems well worth the price.

Туре	TL	Skill	Chassis	Str Modifier	Dex Modifier	Base Dmg	Armour	Duration	Speed	Cost (Cr.)	Shipping Size
Tsuenourr	14	Battledress	Medium	+4	+3	2d6	19	18 hours	12/60	1, 129, 350	0.1 tons

Other Equipment/Modifications:

Computer/2, Communications (advanced), Expert Tactics (Military/2), Lowered Manoeuvrability



GRAV BIKE - CIVILIAN

The ubiquitous transport on Darrian worlds, grav bikes are fast and manoeuvrable. Fairings dynamically reshape to control aerodynamic flow and act as spoilers for slowing or rapid changes in direction. Unlike imperial designs, these vehicles incorporate life support systems to aid in high altitude flying.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Grav Bike	11	Flyer (grav)	+3	2, 500	4, 000	1/1	—	No	1	2	671, 500	1.5 tons

Armour

Location	Armour
Front	4
Right	4
Left	4
Rear	4
Тор	4
Bottom	4

Other Equipment/Modifications:

Advanced Controls, Increased Agility, Streamlined, Short Term Life Support

GRAV BIKE - MILITARY

Larger than its civilian counterpart, these rapid attack, light grav vehicle are built around a light autocannon normally only seen on heavier vehicles. When deployed in squadrons, these grav vehicles can fill many rolls from anti-infantry to even air support against enemy aircraft.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Grav Bike	15	Flyer (grav)	+4	3, 450	4, 000	1/1	—	No	2	2	1, 140, 000	2 tons

Armour

Location	Armour	Weapon	Location	Damage	Range	Auto	Ammo
Front	18	Advanced	Fixed Mount	6d6+4 SAP	Very Long	8	5,000
Right	18	Light	Forward				
Left	18	Autocannon	Facing				
Rear	18						
Тор	18	Other Equipr	ment/Modificat	ions:			
Bottom	18	Additional Arm	Advana	ad Controla In		2 Streamlined	Short Torm Life

Additional Armour x2, Advanced Controls, Increased Agility x2, Streamlined, Short Term Life Support

MONOCYCLE

An odd looking form of transport, Darrian monocycles look like a circular disks standing on their edge, about two and a half metres in diameter with a central faring bubble where the driver sits. With gyroscopic balancing, the Monocycle is a perfectly stable vehicle despite its appearance. To further unnerve those who are unfamiliar, the monocycle is used as an off-road vehicle.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Monocycle	9	Drive (wheeled)	+2	360	500	1/—	0.25 tons	Frame	1	1	4, 800	1 ton

Armour

Location	Armour	Other Equipment/Modifications:
Front	0	
Right	0	Monowheel, Off-road Capability, Sensors (basic)
Left	0	
Rear	0	
Тор	0	
Bottom	0	

Other Equipment/Modifications:

SPHERE TANK

An unusual design, most Confederation tanks use a spherical configuration six metres across, granting them a reasonably effective deflection surface from all directions. They conform to the Darrian military philosophy of stealth, speed, speed and agility over brute force. This lighter variant is often seen backing up planetary defence forces, where it engages in hit and run attacks to devastating effect.

Vehicle	TL	Skill	Agility	Speed	R	ange	Crew / Passengers	Cargo	Ор	en?	Hull	Structure	Cost (Cr.)	Shipping Size
Sphere Tank	13	Flyer (grav)	+3	580	4,	000	3/	0.25 tons	No		12	13	15, 659, 000	12.5 tons
Location	า		Armo	our		Weap	oon	Location		Dama	age	Range	Auto	Ammo
Front			80			12mn	n Light	Small Tur	ret	10d6	Mega-Al	P Very Long	No	300
Right			80			Gaus	s Cannon	Тор			-			
Left			80			VRF	Gauss Gun	Small Tur	ret	5d6 A	P	Distant	12	20, 000
Rear			80					Right						
Тор			80			VRF	Gauss Gun	Small Tur	ret	5d6 A	P	Distant	12	20, 000
Bottom			80					Left						
Top Turre	et Fro	ont	80											
Top Turre	et Sic	le/Rear	80			Othe	r Equipment/	Modificat	ions	s:				
Right Tu	rret F	ront	80			0	T		• • • •					
Right Tu	rret S	ide/Rea	r 80			Small	Turrets: Impro	oved Fire	Con	troi +3				
Left Turre	et Fro	ont	80			Additi	anal Armour y	7 Advanc	od (Contro		Communicati	one (TL 1	0) Increased
Left Turre	et Sid	de/Rear	80		Additional Armour x7, Advanced Controls, AFV, Communications (TL 10), Increased Agility, Increased Speed x2, Infrared Masking II, Navigation (standard), Sensors (advanced), Short Term Life Support, Smoke x2, Stealth III									

SPHERE TANK - ADVANCED This heavy grade variant of the sphere tank is a common sight in the Darrian military. Using a similar hull configuration, this high grade tank mounts heavier armour and weaponry. While not as fast as it's planetary defence variant, the additional range and improved stealth systems make it a far deadlier foe.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passenge	Cargo	Open?	Hull	Str	ucture	Cost (Cr.)	Shipping Size
Sphere Tank Advanced	15	Flyer (grav)	+3	380	5, 000	3/-	0.25 tons	No	47	47		82, 570, 400	47 tons
Location			Armou	r	Weapon		Location		Damage	Э	Range	Auto	Ammo
Front			150		Heavy Hy	pervelocity	Large Turi	ret Top	18d6		Very	No	100
Right			150		Cannon				Ultimate	AP	Distant		
Left			150		VRF Gaus	ss Gun	Small Turr	et Right	5d6 AP		Distant	12	20, 000
Rear			150		VRF Gaus	ss Gun	Small Turr	et Left	5d6 AP		Distant	12	20, 000
Тор			150										
Bottom			150		Other Equ	uipment/Mo	odifications	s:					
Top Turret	Fron	t	150		_								
Top Turret	Side	/Rear	150		-	ets: 1 Crew,	•		ol +3				
Right Turre	et Fro	ont	150		Small Turre	ets: Improve	ed Fire Con	trol +3					
Right Turre	et Sid	e/Rear	150		Aditional	Armour v14	Advanced	Controla		- mm	unication	aa (TL 10) Increased
Left Turret	Fron	t	150		Additional Armour x14, Advanced Controls, AFV, Communications (TL 10), Increased Agility, Increased Speed, Infrared Masking III, Navigation (standard), Sensors								
Left Turret	Side	/Rear	150		(advanced), Short Term Life Support, Smoke x2, Stealth III								



Adrtletlvra Attack Speeder

The *Adrtletlvra* (Silent Grasp) Attack Speeder is visually similar to the Preblchienchiashav but is faster and has less armour. In addition, the Adrtletlvra mounts a fusion gun, making it for more suited to up-close, devastating strikes.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Adrtletlvra	14	Flyer (grav)	+2	960		2/-	—	No	22	23	27, 036, 000	22.5 tons

Armour	
Location	Armour
Front	30
Right	30
Left	30
Rear	30
Тор	30
Bottom	30

Weapon	Location	Damage	Range	Auto	Ammo
Fusion Z Gun	Top Forward Fixed Mount	28d6	Distant	No	N/A
Other Equipm	nent/Modification	ns:			
), Flares x2, Fusion ensors (Advanced),

DIZITANATL GRAV ARMOURED FIGHTING VEHICLE

The standard Zhodani Army and Consular Guard infantry fighting vehicle, this sleek, turreted grav sled mounts a light gauss cannon and provides carrying capacity for a nine-man infantry squad. The Dizitanatl takes its name from the famous infantry commander from the Second Frontier War.

Short Term Life Support, Smoke x2, Stealth II

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Dizitanatl	12	Flyer (grav)	+2	560	—	2/9	0.25 tons	No	15	15	12, 043, 000	15 tons

Armour							
Location	Armour	Weapon	Location	Damage	Range	Auto	Ammo
Front	50	VRF Gauss	Small Turret	5d6 AP	Distant	12	20, 000
Right	50	Gun	Top	JUU AF	Distant	12	20, 000
Left	50	Guil	төр				
Rear	50	Other Equip	ment/Modifica	tions:			
Тор	50						
Bottom	50	Small Turret:	Improved Fire C	Control +2, Po	p-up		
Turret Front	50						
Turret Side/Rear	50		nour x4, Advar eed x6, Infrared				L 8), Fusion Plant, alth I

BATTLE DRESS, GUARDS

Guards Battle dress is used by commando units and Noble officers on lift mechanised infantry units. With greater computer systems and protection than the standard, human model, the Guard Battle Dress is iconic as the Zhodani Scallop helms.

Туре	TL	Skill	Chassis	Str Modifier	Dex Modifier	Base Dmg	Armour	Duration	Speed	Cost (Cr.)	Shipping Size
Guard	14	Battledress	Medium	+4	+4	2d6	16	18 hours	12/60	1, 245, 000	0.1 tons

Other Equipment/Modifications:

Computer/3, Communications (advanced), Expert Tactics (Comms/2, Intellect/1, Military/2)

IAVCHIEOL G-CARRIER

The lavchieql G-carrier is a good example of Zhodani light vehicle design philosophy: weaponry is preferred over armour. Also, sensors are less powerful than those in equivalent Imperial craft – presumably because the Zhodani place more stock in psionics as a supplement to sensors.

Vehicle	ΤL	Skill	Agility	Speed	Range	Crew / Passengers	•	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
lavchieql	13	Flyer (grav)	+2	440		2/14	0.25 tons	No	14	14	17, 714, 000	14 tons

Armour

Location	Armour
Front	60
Right	40
Left	40
Rear	30
Тор	40
Bottom	30
Main Turret Front	40
Main Turret Side/Rear	40

Weapon	Location	Damage	Range	Auto	Ammo
Fusion X Gun	Large Turret Top	20d6	Distant	No	N/A

Other Equipment/Modifications:

Large Turret: 1 Crew, Improved Fire Control +2

Additional Armour x3, Advanced Controls, AFV, Communications (TL 10), Fusion Plant, Infrared Masking I, Navigation (advanced), Sensors (basic), Short Term Life Support, Stealth I

PREBLSHIENCHIASHAV **A**TTACK **S**PEEDER

The *Preblshienchiashav* (Princely Born) Attack Speeder made its debut during the Fourth Frontier War. The Speeder is a good example of Zhodani Military craft design philosophy: fast and deadly. In addition, the *Preblshienchiashav* has exceptional armour. This vehicle and its cousin the *Adrtletlvra* were responsible for more fear and panic than any other Zhodani war machine During the Fourth Frontier War.

Vehicle	TL	Skill	Agility	Speed	Range	Crew Pass	/ engers	Cargo	Oper	ו? Hu	all s	Structure	Cost (Cr.)	Shipping Size
Attack Speeder	14	Flyer (grav)	+2	650	—	2/–		—	No	35		36	29, 966, 000	35.5 tons
Armou	-													
Location		Arm	our	Weap	on		Locatio	n	I	Damag	e I	Range	Auto	Ammo
Front		60		Aeros	pace Def	fence	Top For	ward Fix	ed '	16d6		Extreme	No	N/A
Right		60		Laser			Mount							
Left		60												
Rear		60		Other	r Equipm	ent/M	odificati	ions:						
Тор		60												

Additional Armour x5, Advanced Controls, AFV, Communications (TL 8), Flares x2, Fusion Plant, Increased Speed x5, Infrared Masking II, Navigation (standard), Sensors (Advanced), Short Term Life Support, Smoke x2, Stealth II

QIKNAVRA **G**RAV **T**ANK

60

Bottom

The Qiknavra (named after the smaller of Zhdant's continents) is one of the Consulate's newest grav tank designs. Intended to provide an inexpensive, yet robust vehicle. To date the full details of this vehicle have been kept a tightly guarded secret against the Imperium.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Qiknavra	14	Flyer (grav)	+3	580	—	3/-	_	No	45	45	41, 549, 000	45 tons

Location	Armour	Weapon	Location	Damage	Range	Auto	Ammo		
Front	125	Aerospace	Top Forward	16d6	Extreme	No	N/A		
Right	80	Defence Laser	Fixed Mount						
Left	80	VRF Gauss Gun	Right Small	5d6 AP	Distant	12	20, 000		
Rear	70		Turret						
Тор	45	VRF Gauss Gun	Left Small	5d6 AP	Distant	12	20, 000		
Bottom	35		Turret						
Right Turret Front	70								
Right Turret Side/Rear	60	Other Equipment	t/Modification	s:					
Left Turret Front	70	Additional Armour x6, Advanced Controls, AFV, Communications (TL 10), Fusion Plan							
Left Turret Side/Rear	60								

Additional Armour x6, Advanced Controls, AFV, Communications (TL 10), Fusion Plant, Increased Agility, Increased Speed x4, Long Term Life Support, Navigation (standard), Prismatic Aerosols x2, Sensors (advanced), Smoke x2

VLEZJAQ SCOUT SLED

A small, lightly armoured, high-speed military grav vehicle usually employed for scouting and armed reconnaissance. It is armed with a light gauss cannon. The *Vlezjaq* is named after a winged predator native to Zhdant's eastern desert that resembles a cross between a Terran bat and a scorpion.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Carg	jo Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Scout Sled	12	Flyer (grav)	+2	1, 075	3, 000	2/-	—	No	4	4	2, 950, 000	4 tons
Armou	r											
Location	1	Arm	our	Weap	on	Location		Damage	Ra	nge	Auto	Ammo
Front		60		VRF C	Gauss Gu	n Top Forwa	ard	5d6 AP	Dis	stant	12	20, 000
Right		30				Fixed Mo	unt					
Left		30		Light 7	Fac Missil	e Top Dedic	cated	9d6 Super A	AP Ve	ry Distant	No	
Rear		30		(Anti-A	Armour) x	2 Missile Ba	ay					
Тор		60										
Bottom		30		Other	Equipm	ent/Modificat	ions:					

Additional Armour x7, Advanced Controls, Communications (TL 8), Decrease Speed x5, Navigation (standard), Prismatic Aerosol x2, Sensors (Advanced), Short Term Life Support, Smoke x2, Stealth II, Streamlined

YONCHOBO UTILITY GRAV SLED

This medium-weight 'grav truck' is used by many civilian concerns within Zhodani space, as well as by the Zhodani military. The Yonchobo grav sled is noted for its ruggedness and safety in a wide range of planetary conditions.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Grav Sled	12	Flyer (grav)	+2	340	3, 000	2/	5 tons	No	14	14	3, 877, 000	12 tons

Armour

Location	Armour
Front	25
Right	25
Left	25
Rear	25
Тор	25
Bottom	25

Other Equipment/Modifications:

Additional Armour x4, Advanced Controls, Increased Speed, Navigation (basic), Sensors (standard), Short Term Life Support



FRAKT CARGO TRUCK

This medium cargo truck is capable of carrying a full ton of cargo for Sword Worlder civilisations who cannot afford the cost or complication of larger vehicles and grav transporters such as the Vinlander and the Milliphant.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Frakt Cargo Truck	9	Drive (wheeled)	0	120	500	1/5	1 ton	No	4	4	17, 960	4 tons

Armour

Location	Armour
Front	3
Right	3
Left	3
Rear	3
Тор	3
Bottom	3

Other Equipment/Modifications:

Decreased Speed x4, Entertainment System Cr. 200, Navigation (basic), Short Term Life Support

HNAEFIR AIR/RAFT

The staple civilian aircraft in the sword worlds, the Hnaefir is a simple variant with two ideas in mind- cheap and sturdy. Lightly armoured, basic electronics and somewhat unforgiving controls, the Hnaefir model is hardly the most comfortable of rides.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Air/ Raft	9	Flyer (grav)	+1	2, 000	2, 600	1/5	—	No	3	3	1, 341, 000	3 tons

Armour

Location	Armour
Front	8
Right	8
Left	8
Rear	8
Тор	8
Bottom	8

Other Equipment/Modifications:

Communications (basic), Double Capacity Seating x2, Fuel Efficient x3, Increased Armour, Navigation (basic), Sensors (basic), Streamlined, Short Term Life Support

KRALLE GRAV TANK

A typical Sword World tank, the *Kralle* is not heavily armed or armoured enough to take on Imperial or Darrian armoured regiments but can easily handle enemy grav vehicles and armoured infantry. Bringing to bear impressive firepower, for its low production costs.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Struct	ure	Cost (Cr.)	Shipping Size
Kralle Grav Tank	9	Flyer (grav)	0	1, 045	1, 000	3/-	—	No	10	8		10, 225, 000	7 tons
Armoui	-												
Location		Arr	nour	Weap	on	Location	Dan	nage	Range		Auto		Ammo
Front		48		7.7mm	n EMF	Large Top	4d6-	-2	Medium		8		400
Right		48		Minigu	ın	Turret							
Left		48		100mm		Large Top	6d6		Distant	No	No		N/A
Rear		48			omagnetio	Turret	ret						
Тор		48		Canno	n								
Bottom		48		•									
Turret Fro	nt	48	Other Equipment/Modifications:										
Turret Side	urret Side/Rear 48 Large Turret: 1 Crew, Improved Fire Control +1 (electromagnetic cannon)												

Additional Armour x7, AFV, Streamlined, Communications (TL 8), Decreased Agility, Decreased Speed x3, Increased Hull x3, Increased Structure, Navigation (basic), Prismatic Aerosol x2, Sensors (Advanced), Smoke x2, Stealth Class II, Visual Camouflage 1

MILLIPHANT CARGO HAULER

The *Milliphant* is a gigantic, long-distance cargo mover used by Sword Worlders from all aspects of life. A common sight in all inhabited areas of the subsector, especially wherever large trains must keep moving between settlements.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Milliphant	9	Flyer (grav)	0	600	2, 000	2/	6 tons	No	13	12	1, 118, 500	16.5 tons

Armour

Location	Armour
Front	4
Right	4
Left	4
Rear	4
Тор	4
Bottom	4

Other Equipment/Modifications:

Communications (TL 6), Decreased Agility, Decreased Hull x3, Decreased Structure x5, Increased Speed x6, Navigation (basic), Sensors (basic), Short Term Life Support
MJOLNIR ARTILLERY PLATFORM

Built to overwhelm point-defence systems, the Mjolnir is packed to the brim with HEAT rocket rounds that it hurls in great numbers from its quad-array multiple rocket launchers. It can punch through the armour and defences of most main battle tanks and makes a ruin of lighter targets.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Mjolnir Artillery	9	Flyer (grav)	0	970	1, 000	5/—	4 tons	No	11	10	4, 097, 625	14.5 tons
Armou	ır											

Location	Armour	Weapon	Location	Damage	Range	Auto	Ammo
Front	30	200mm Automatic	Front Dedicated	5d6	Very Distant	6	
Right	30	Rocket Launchers x4	Rocket Bay				
Left	30	4mm Flechette Minigun	Small Top Turret	4d6	Short	12	10, 000
Rear	30						
Тор	30						
Bottom	30	Other Equipment/Mod	ifications:				
Turret Front	30						
Turret Side/Rear	30	Small Turret: Improved F	-ire Control +1				

Additional Armour x4, AFV, Streamlined, Communications (TL 8), Decreased Agility, Decreased Hull x3, Decreased Speed x4, Decreased Structure x5, Navigation (basic), Sensors (Advanced), Short Term Life Support, Smoke x2, Stealth Class II, Visual Camouflage I

SCRAMASAX GRAV TANK DESTROYER

The greatly feared *Scramasax* grav tank is fast and deceptively lethal when it gets to pick and choose its target. Its design is bent on moving quickly to a heavier targets flank, unleashing a brutal salvo and then move quickly out of the line of fire.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Scramasax	9	Flyer (grav)	0	1, 490	1, 000	3/-	3 tons	No	22	22	26, 330, 550	10 tons

Armour

Turret Side/Rear

72

Location	Armour	Weapon	Location	Damage	Range	Auto	Ammo
Front	72	7.7mm EMF	Front Fixed	4d6-2	Medium	8	400
Right	72	Minigun x2	Mount				
Left	72	200mm	Large Top	8d6	Very Distant	No	N/A
Rear	72	Electromagnetic	Turret				
Тор	72	Cannon					
Bottom	72						
Turret Front	72	Other Equipmer	nt/Modificatio	ns:			

Large Turret: 1 Crew, Improved Fire Control +1

Additional Armour x11, AFV, Streamlined, Communications (TL 8), Decreased Agility, Increased Hull x2, Increased Structure x2, Navigation (basic), Prismatic Aerosol x4, Sensors (Advanced), Smoke x2, Stealth Class II, Visual Camouflage I

SKOELD WHEELED ARMOURED PERSONNEL CARRIER

A medium sized cargo hauler that has been converted for troop transport for use in lower threat areas or non-critical deployments. The Skoeld (meaning shield in Sagamaal) is only one step up from being a civilian vehicle.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Skoeld S APC	9	Drive (wheeled)	0	185	500	2/5	0.75 ton	No	7	8	207, 000	7.5 tons
Armour												
Location			ır	Weapon		Location	Damage		Range	Auto	Am	nmo
Front		18		7.7 mm EMF		Top small	4d6–	2 L	.ong	8	200)
Right		18		Minigu	un	Turret						
Left		18										
Rear		18		Other	Equipm	ent/Modification	ons:					
Тор		18							(T I A)			
Bottom	•					our x2, AFV, C				Increased S	Speed x4	, Navigation
Turret Fror	Turret Front 18			(Dasic)	, Sensors	s (basic), Short		e Suppoi	π			
Turret Side/Rear 18												

SKRAALING ARMOURED PERSONEL CARRIER

Similar to the civilian Vinlander, the Skraaling is a practical and efficient troop transport when dealing with the hostile conditions of the Sword Worlds. While lacking in long term life support, the Skraaling boasts many variants to meet every situation.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Grav Van	9	Flyer (grav)	+1	1, 165	1, 000	2/12	1.5 tons	No	8	8	1, 980, 825	11.5 tons

Armour

Armour
36
36
36
36
36
36
36
36

Weapon	Location	Damage	Range	Auto	Ammo					
7.7mm EMF Minigun	Small Turret Top	4d6–2	Medium	8	400					
Other Equipment/Modifications:										
Additional Armour x3,	,		``							

Decreased Structure x4, Decreased Speed x3, Navigation (basic), Prismatic Aerosol x2, Sensors (Advanced)

SLAETTLAND RANGE TRUCK

The Sports Utility Vehicle (SUV) is a large wheeled drive car designed to seat eight people in comfort. This ,and its off road capability, make it a favoured choice of mercenaries and travellers alike.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Range Truck	9	Drive (wheeled)	+1	180	500	1/4	0.25 tons	No	3	3	28, 600	3 tons

Armour

Location	Armour
Front	3
Right	3
Left	3
Rear	3
Тор	3
Bottom	3

Other Equipment/Modifications:

Double Occupancy Seating, Entertainment System Cr. 200, Increased Agility, Navigation (basic), Off-road Capability, Short Term Life Support

TUSENFOT TRACKED ALL-TERRAIN VEHICLE

Called the 'Thousand-Foot' ATV due to its multi-plated track construction, this vehicle is the chief hostile-environment peoplemover in the Sword Worlds.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Tusenfot	9	Drive (tracked)	0	140	1, 500	2/10	10 tons	No	34	34	2, 296, 140	34 tons

Armour

Location	Armour
Front	20
Right	20
Left	20
Rear	20
Тор	20
Bottom	20

Other Equipment/Modifications:

Additional Armour x4, Air Lock x2, Communications (TL 8), Corrosive Environment Protection, Double Capacity Seating x5, Fresher, Greater Fuel Capacity x6, Improved Agility, Increased Speed x7, Insidious Environment Protection, Life Support (long term), Navigation (standard), Sensors (standard)

VINLANDER GRAV VAN

The Vinlander is the standard civilian grav-based vehicle seen all over the Sword Worlds. Because of its sealed body compartment, simplistic frame construction and assorted Skraaling-compatible components, a skilled mechanic can easily modify the Vinlander into a light APC.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Grav Van	9	Flyer (grav)	0	520	2, 000	2/12	1.25 tons	No	5	5	677, 600	8 tons

Other Equipment/Modifications:

Armour

Location	Armour
Front	4
Right	4
Left	4
Rear	4
Тор	4
Bottom	4

Decreased Agility, Decreased Hull x3, Decreased Structure x3, Double Capacity Seating x6, Increased Speed x3, Navigation (basic)

VITTNE COMMAND CAR

A slightly militarised version of the common range truck, the command car is a good example as to how Sword Worlders make use of their peacetime assets.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Command Car	9	Drive (wheeled)	+1	160	500	1/4	_	No	3	3	43, 700	3 tons

Armour

Location	Armour
Front	9
Right	9
Left	9
Rear	9
Тор	9
Bottom	9

Weapon	Location	Damage	Range	Auto	Ammo
Thermal Smoke discharger x2	Top Fixed Mount	Clouds the visible spectrum and stops Lasers	Short	No	4
Other Equipmen	t/Modificati	ons:			

Additional Armour x2, Double Occupancy Seating, Entertainment System Cr. 200, Navigation (basic), Off-road Capability, Sensors (basic), Short Term Life Support



Air/Raft Ling Standard Productions. These specialist Air/Rafts are the product of Ling Standard Productions. Dubbed the 'Venturer 628 Rigger', this model proved popular on the frontiers where its robust nature and ease of maintenance enable it to remain in service without expensive overhauls.

Vehicle 1	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Air/ Raft		Flyer (grav)	+1	550	5, 200	1/5	0.5 tons	Тор	4	4	618, 464	4 tons
Armour												
Location		Arm	our	Other	Equipm	ent/Modification	ons:					
Front		15						_				
Right		15				ur x2, Autopilo	. ,	Communic	cations (TL 8), Comp	uter /1, F	uel Efficient
Left		15		x3, Na\	ligation (basic), Sensors	s (basic)					
Rear		15										
Тор		15										
Bottom		15										

ATV LING STANDARD PRODUCTIONS

The Ling Standard Productions (LSP) All-Terrain Vehicle is a highly advanced ground vehicle for use on project Steel. With no frills or un-necessary comforts, the LSP variant contains only what is needed for getting the job done. With fusion power to give it almost unlimited range, living quarters, respectable armour and the ability to traverse almost any ground terrain, the LSP ATV is a well respected model.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
ATV Land	14	Drive (Wheeled)	0	175	_	1/7	1. 25 tons	No	17	18	1, 250, 000	17.5 tons
Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
ATV Aquatic	14	Seafarer (ocean ships)	-4	60		1/7	1. 25 tons	No	17	18	1, 250, 000	17.5 tons

Armour

Location	Armour
Front	20
Right	20
Left	20
Rear	20
Тор	20
Bottom	20

Other Equipment/Modifications:

Additional Armour x3, Aquatic drive, Bunks x4, Communications (TL 10), Fusion Plant, General Purpose Lab (4 spaces), Short Term Life Support, Mini-galley x2, Navigation (standard), Sensors (advanced)

Judge Dredd Justige Department

BANSHEE PURSUIT INTERCEPTOR

The Banshee Interceptor is the pride of the Pursuit Squad and is the fastest land vehicle in Mega-City One. The skilled megway Pursuit Squad drivers use Banshee Interceptors to chase and apprehend illegal speedsters, hot-rodders and other criminals.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Banshee	11	Drive (wheeled)	+1	490	600	2/	—	Open Top	8	9	110, 140	8.5 tons

Armour

Location	Armour	Weapon	Location	Damage	Range	Auto	Ammo				
Front	8	Dead Key*	Top Turret	—	Rifle	No	N/A				
Right	8	Tractor Gun**	Top Turret	—	Special	No	N/A				
Left	8										
Rear	8	•	* After target is hit, make an opposed Computers check to deactivate an opponents powe								
Тор	8	plant									
Bottom	8	** Has 100m of ca	ble								
Turret Front	8										
Turret Side/Rear	8	Other Equipmen	t/Modifications:								

Small Turret: Top

Additional Armour, Autopilot/3, Communications (TL 8), Computer/1 (Comms/0, Database/0, Drive/1, Navigation/1), Increased Agility, Increased Speed x10, Lower Fuel Capacity x2, Navigation (standard), Sensors (basic)

CLAW PATROL SHIP

The Claw Patrol Ship is a short range anti-gravity vehicle that is used for regular patrols within Mega-City One. Its small size allows it to land in many places where larger vehicles might be restricted. Lightly armoured but fast, allowing it to quickly deploy rapid response teams.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers		Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Claw Patrol Ship	11	Flyer (grav)	+1	2,500	3,000	2/5	_	No	7	8	7, 430, 800	7.5 tons

Armour

Left Turret Side/Rear

8

Location	Armour	Weapon	Location	Damage	Range	Auto	Ammo
Front	8	Heavy Laser	Fixed Weapon	10d6	Rifle	4	50
Right	8	Cannon x3	Mount Front				
Left	8	Hi-Ex Missile	Dedicated Missile	4d6+3	Distant	No	
Rear	8	Launcher	Вау Тор				
Тор	8	Autogun	Small Turret Right	3d6+8	Rifle	6	100
Bottom	8	Autogun	Small Turret left	3d6+8	Rifle	6	100
Right Turret Front	8						
Right Turret Side/Rear	8	Other Equipn	nent/Modifications:				
Left Turret Front	8	A 1 1'1' 1 A	A. 1				

Additional Armour, Autopilot/3, Communications (TL 8), Navigation (standard), Sensors (basic), Streamlined

GUNBIRD

A winged variant of the H-Wagon that sacrifices armour and speed for additional weaponry, serving as both a bomber and air assault vehicle. The laser cannons provide devastating fire-power that can make precise attacks against a variety of targets.

Vehicle	TL	Skill	Agility	Speed	d Range	Cre Pas	w / sengers	Cargo	Open?	Hull	Stru	cture	Cost (Cr.)	Shipping Size
Gunbird	11	Flyer (grav)	+1	400	3,000	5/—			No	15	16		7, 179, 800	15.5 tons
Armou	r													
Location			Armour		Weapon		Location		Damage	Rar	nge	Auto	Α	mmo
Front			12		Peterson H	ligh	Right Tur	ret	10d6+6	Rifle	Э	3	6	0
Right			12		Intensity Laser									
Left			12		Cannon x2									
Rear			12		Peterson H	•	Left Turre	et	10d6+6	Rifle	Э	3	6	0
Тор			12		Intensity La									
Bottom			12		Cannon x2									
Right Tur	ret Fro	ont	12		Hi-Ex Miss		Dedicated	d Missile	4d6+3	Dist	ant	No		
Right Tur	ret Sic	le/Rear	12		Launcher x		Bay Top							
Left Turre	t Fror	nt	12		Cluster Bo	mbs	Dedicated		5d6	Dist	ant	No		
Left Turre	t Side	/Rear	12				Bay Botto		0 1	D' 1				
	Urban N		Urban Nuk	е	Dedicated Bay Botto		Special (vaporises	Dist s)	ant	No				

Other Equipment/Modifications:

Small Turret Right: Improved Fire Control +3 (Peterson High Intensity Laser Cannon) Small Turret Left: Improved Fire Control +3 (Peterson High Intensity Laser Cannon)

Additional Armour x2, Autopilot/3, Communications (TL 8), Improved Fire Control +3 (Urban Nuke), Navigation (standard), Sensors (basic)

GUNBOAT

The gunboat is used exclusively by the Atlantic Division. These fast water-going vessels are used by Ocean Patrol and the Harbour Squad to patrol the Mega-City One waters, ever vigilant for pirates and smugglers.

Vehicle	T	_ Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Gunboa	at 11	Seafarer (motorboats)	0	90	800	2/4	_	Open Topped	2	3	93, 300	4.5 tons

Armour

Location	Armour	Weapon	Location	Damage	Range	Auto	Ammo			
Front	8	Hi-Ex Missile	Dedicated	4d6+3	Distant	No				
Right	8	Launcher x2	Missile Bay Top							
Left	8									
Rear	8	Other Equipme	ent/Modifications:							
Тор	8				(T I 0) Internet					
Bottom	8	Additional Armour, Autopilot/3, Communications (TL 8), Improved Fire Control +3 (Hi-Ex Missile Launcher), Navigation (standard), Sensors (basic)								

H-WAGON

The H-Wagon is an eternal sight in the skies of Mega-City, monitoring all aerial traffic and responding to emergencies that require heavy firepower. Too large to patrol the streets themselves, the H-Wagon is a highly agile vehicle that can handle attacking hovercraft and the worst weather of the cursed earth.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Struct	ture	Cost (Cr.)	Shipping Size
H- Wagon	11	Flyer (grav)	+1	1,900	3,000	3/12	_	No	13	13		11, 674, 500	13 tons
Armou	r												
Location	1	Ar	mour	W	eapon	Location		Damage	Rai	nge	Auto)	Ammo
Front		20		Hi	-Ex Missil	e Bottom Dec	dicated	4d6+3	Dis	tant	No		
Right		20		La	uncher x2	2 Missile Bay							
Left		20		He	eavy Lase	r Right Turret	t	10d6	Rifl	е	4		100
Rear		20		He	eavy Lase	r Left Turret		10d6	Rifl	е	4		100
Тор		20											
Bottom		20		O	ther Equi	pment/Modific	ations:						
Right Tur	ret Fro	ont 20											
Right Tur Rear	ret Sic	de/ 20				: 1 Space Addit : 1 Space Addit							
Left Turre	et Fror	nt 20		۰ ۸ ط	ditional A	rmour v4 Str	oomlinor	Autopilo	+/2 Co	mmunia	otion	о (TI 0	Computer/1
Left Turre Rear	et Side	e/ 20		Additional Armour x4, Streamlined, Autopilot/3, Communications (TL 8), Computer/1, Navigation (standard), Sensors (Advanced), Short Term Life Support									

ICON-WAGON

The iCON-Wagon is another variant of the H-Wagon. This vehicle is designed to transport Justice Department personnel from Mega-City One to any world-wide location and back again without needing to refuel.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
lcon- Wagon	11	Flyer (grav)	0	1,100	4,500	4/5	—	No	5	6	9, 201, 800	5.5 tons

Armour							
Location	Armour	Weapon	Location	Damage	Range	Auto	Ammo
Front	20	Cyclops Laser		10d6+6	Rifle	3	60
Right	20	Cannon x3	Mount				
Left	20		Dedicated Missile	4d6+3	Distant	No	-
Rear	20	Launcher x2	Bay Bottom				
Тор	20		Dedicated Missile	· · · · · · · · · · · · · · · · · · ·	Unlimited	No	-
Bottom	20	Launcher x2	Вау Тор	within the blast			

Other Equipment/Modifications:

Streamlined, Additional Armour x4, Autopilot/3, Communications (TL 8), Improved Fire Control +3 (Stealth Missile Launcher), More Fuel Efficiency x5, Navigation (standard), Sensors (basic)

Lawmaster

The standard issue transport for any Judge, the Lawmaster is as iconic as a Judge's helmet or Lawbringer. With its Notron 4000cc V8 engine, heavy armour, built in computer and heavy armaments the Lawmaster strikes terror into any perp on the streets of Mega-City One.

Vehicle	TL	Skill	Agility	Speed	Rang	e Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Lawmaster	11	Drive (lawmaster)	+1	365	600	1/-	—	Open Top	1	2	52, 000	1.5 tons
Armour												
Location		Armour	١	Neapon	L	_ocation	Dama	ge Ra	ange	Auto	Amm	10
Front		12	E	Bike Canno	nx2 F	Fixed Forward	3d6+8	Ri	fle	6	200	
Right		4			F	acing						
Left		4	(Cyclops La	iser F	Fixed Forward	5d6+8	Ri	fle	4	One I	ourst per
Rear		12			F	Facing					10 ro	unds
Тор		4	_									
Bottom		12	(Other Equ	ipmen	nt/Modifications:						

Additional Armour, Autopilot/3, Communications (TL 8), Computer/1, Enclosed, Motorcycle, Navigation (standard), Sensors (basic)

Lawmaster MK II, Cursed Earth Quasar

Developed for prolonged use in the Cursed Earth. The main feature of the MK II Lawmaster is the Hydra Laser Cannon, capable of rapid-fire with a faster recharge than its Cyclops predecessor.

Vehicle	TL	Skill	Agility	Speed	Rang	je	Crew / Passengers	Cargo	Open	P Hull	Str	ucture	Cost (Cr.)	Shipping Size
MK.II Lawmaster	11	Drive (lawmaster)	+1	365	600		1/	_	Open Top	1	2		54, 000	1.5 tons
Armour														
Location		Armour		Weapon		Lo	cation	Damag	je	Range		Auto	Amm	C
Front		12		Bike Can	non	Fix	ed Forward	3d6+8		Rifle		6	200	
Right		4		x2		Fac	cing							
Left		4		Cyclops		Fix	ed Forward	5d6		Distant		6	One b	urst every
Rear		12		Laser*		Fac	cing						two ro	unds.
Тор		4			-44									
Bottom		12		*+1 DM to	attac	K rc	DIIS.							

Other Equipment/Modifications:

Additional Armour, Autopilot/3, Communications (TL 8), Computer/1, Enclosed, Motorcycle, Navigation (standard), Sensors (basic)

MANTA PROWL TANK

Support, Internal Vehicle Bay (4.5 tons), Operating Theatre (2 patient

capacity)

The justice departments answer to growing crime rates. Often regarded as a mobile, flying fortress of anti-crime measures. This anti-grav tank comes fully armed with foam jets, twin-linked laser lances, Gas Grenade Launchers and a Petersen Heavy Laser to deal with heavy armour. With cells onboard for a small riots worth of perps, this tank is a true symbol of a Judge's absolute authority.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Manta Prowl Tank	11	Flyer (grav)	+1	350	1,500	8/20	_	No	50	50	22, 177, 000	50 tons
Armou	ır											
Location	า	Arm	our	Weapon	1	Location	Dama	ige	R	ange	Auto	Ammo
Front Right		24 24		Laser La	ince x2	Front Fixed Mount	6d6+3	3	Ri	fle	No	12
Left Rear		24 24		Petersor Intensity Cannon	0	Top Turret	10d6+	⊦6	Ri	fle	3	60
Bottom Top Turre	Top24Bottom24Top Turret Front24Top Turret Side/Rear24				aster x2	Top Turret	Streng Test 1 Incapa	0	Μ	edium	N/A	40
TOP TUTTE	·			Foam Bl	aster x3	Right Front Fixed Mount	Streng Test 1	gth	М	edium	N/A	40
Other Ec	Other Equipment/Modifications:			Foam Bl	aster x3	Left Front Fixed Mount	Streng Test 1	gth	М	edium	N/A	40
Top Turret: 1 Space Additional Ammunition			Stumm Gas Grenade Launcher x4		Right Fixed Mount	Endur Test 1	rance	SI	nort	No	3	
Autopilot/ Computer	Additional Armour x2, AFV, Autopilot/3, Communications (TL 8), Computer/1, Navigation (standard), Sensors (advanced), Short Term Life				Gas e er x4	Left Fixed Mount	Endur Test 1 Incapa		SI	nort	No	3

ROADLINER, MEAT WAGON

Of similar design to the Pat Wagon, a Meat Wagon is specifically equipped to haul away casualties from the scene of an incident. Equipped with life support facilities and a defensive cannon in case the incident hasn't drawn to a close.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Carg	o Open?	Hull	Structur	e Cost (Cr.)	Shipping Size	
Meat Wagon	11	Drive (wheeled)	-1	210	600	2/2	—	No	13	14	403, 630	13.5 tons	
Armour	1												
Location		Armo	ur	Weapo	n	Location		Damage	Range		Auto	Ammo	
Front		20		Street Cannon Top Small Turret 3d6+8 Rifle 6 200								200	
Right		20											
Left		20		Other E	Equipme	nt/Modificatio	ns:						
Rear		20											
Тор		20		Small Tu	urret: 1 S	pace Additiona	ll Amn	nunition					
Bottom		20		۸ ddition			ination			1. Increa	and Cran		
Turret From	nt	20		Additional Armour x4, Communications (TL 8), Computer/1, Increased Speed x10, Low									
Turret Side	e/Rea	ar 20		Berth x2, Navigation (standard), Sensors (basic)									

ROADLINER, PAT WAGON - MK III

The Mk III Pat-Wagon is the most commonly sighted justice department vehicle, save perhaps the Lawmaster. Designed for flexibility, the Pat Wagon is respected by Judges for its ability to bring the law to rioting citizens and armoured perps alike. With enough room for a squad of judges and any perps who weren't smart enough to run.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Pat Wagon	11	Drive (wheeled)	-1	210	600	2/10	—	No	13	14	306, 150	13.5 tons

Armour

Location	Armour
Front	20
Right	20
Left	20
Rear	20
Тор	20
Bottom	20
Turret Front	20
Turret Side/Rear	20

Weapon	Location	Damage	Range	Auto	Ammo
Street Cannon	Top Small Turret	3d6+8	Rifle	6	200
Foam Blaster	Top Small Turret	Strength Test 12+ or Incapacitated	Medium	N/A	40

Other Equipment/Modifications:

Small Turret: Additional Ammunition (1 space street cannon, 1 space foam blaster)

Additional Armour x4, Communications (TL 8), Computer/1, Increased Speed x10, Navigation (standard), Sensors (basic)

RIOT WAGON

The Riot Wagon is a smaller variant of the H-Wagon and is used by Riot Squads to suppress large unruly crowds. Armed with Riot Foam and Stumm Gas Dispenser, the Riot Wagon is capable of controlling crowds over a much greater area than can be achieved by ground forces alone.

Vehicle	TL	Skill	Agility	Speed	Range	Crev Pass	v / sengers	Cargo	Open?	Hull	Stru	cture	Cost (Cr.)	Shipping Size
Riot Wagon	11	Flyer (grav)	+1	700	3,000	3/—	U	—	No	5	5		845. 800	5 tons
Armou	r													
Location		Armou	ır	Weap	on		Locatio	n	Damage		R	ange	Auto	Ammo
Front		12		Foam	Blaster		Bottom	Small	Strength Te	est 12+	Μ	ledium	N/A	40
Right		12					Turret		or Incapac	tated				
Left		12		Stumr	n Gas		Bottom	Small	Endurance	Test 11	1+ S	hort	No	3
Rear		12		Grena	de Launo	cher	Turret		or Incapac	tated				
Тор		12												
Bottom		12		Other	⁻ Equipm	ent/M	odificati	ons:						
Turret Fro	ont	12												

Additional Armour x2, Autopilot/3, Communications (TL 8), Computer/1, Increased Speed x4, Navigation (standard), Sensors (Advanced)

SIROCCO CITI-DEF GUNSHIP

12

Heavily armed, highly manoeuvrable and capable of deploying small Judge squads right into the heart of a fire fight, the Sirocco Citi-Def Gunship is the perfect vehicle, save for its tendency to destroy the surrounding buildings along with the perps. While this unfortunate set back is causing the Sirocco to be phased out, many Citi-Def squads still cling to them.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	•	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Sirocco	11	Flyer (grav)	+1	400	3,000	3/8	0.50 tons	No	8	8	3, 902, 500	8 tons

Armour

Turret Side/Rear

Location	Armour	Weapon	Location	Damage	Range	Auto	Ammo				
Front	24	Heavy	Right Small	3d6	Rifle	4	120				
Right	24	Spitgun x2	Turret								
Left	24	Heavy	Left Small Turret	3d6	Rifle	4	120				
Rear	24	Spitgun x2									
Тор	24	Hi-Ex Missile	Bottom Dedicated	4d6+3	Distant	No					
Bottom	24	Launcher x2	Missile Bay								
Right Turret Front	24										
Right Turret Side/Rear	24	Other Equip	ment/Modifications	S:							
Left Turret Front	24	Small Turrati Improved Fire Control 12									
Left Turret Side/Rear	24		Small Turret: Improved Fire Control +2 Small Turret: Improved Fire Control +2								

Additional Armour x2, Autopilot/3, AFV, Communications (TL 8), Computer/1, Increased Agility, Navigation (standard), Sensors (advanced)

S-WAGON

Also known as the 'Night Owl', the S-Wagon is a stealth surveillance craft used to monitor activities throughout Mega-City One where conventional technology is insufficient.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
S- Wagon	11	Flyer (grav)	+1	450	3,000	2/6	—	No	5	5	1, 617, 000	5 tons

Armour

Location	Armour
Front	8
Right	8
Left	8
Rear	8
Тор	8
Bottom	8

Other Equipment/Modifications:

Additional Armour, Autopilot/3, Communications (TL 8), Computer/1, Infrared Masking III Navigation (standard), Sensors (Advanced), Short Term Life Support, Stealth Class II, Visual Camouflage II

Yo-Yo

These small hover-bikes might be slow and lack any armaments but their small size makes them ideal to transport on medium sized vehicles like the iCON-Wagon for short range reconnaissance.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Yo-Yo	12	Flyer (grav)	+1	500	3, 000	1/—	_	Frame	0	1	50, 000	0.5 tons

Armour

Location	Armour
Front	1
Right	1
Left	1
Rear	1
Тор	1
Bottom	1

Other Equipment/Modifications:

Judge Dredd Gmuan Grav Vehigues

Hoverbus

A perpetual sight in the skies of Mega-City One, for those citizens unable to afford their own vehicle, the hoverbus often provides the most convenient way to move across a city sector.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Hoverbus	11	Drive (wheeled)	0	200	750	1/70	0.25 tons	No	14	17	382, 100	17.5 tons

Armour

Location	Armour
Front	4
Right	4
Left	4
Rear	4
Тор	4
Bottom	4

Other Equipment/Modifications:

Communications (TL 8), Computer/1, Decreased Hull x3, Decreased Speed x5, Decreased Structure x2, Double Capacity Seating x25 (seat spaces), Navigation (basic), Reduced Fuel Efficiency x3

Hovercar Foord Falcon Giah

Wealthier families often choose a hover car such as the Falcon, leaving the crowded streets far below and travelling at great speed to any destination in the city. Many critics have noted that the Falcon has a very basic and even 'cheep' feel to it compared to the credits needed to purchase one.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Foord	11	Flyer	0	400	750	1/4	0.25	No	2	3	1, 125,	3
Falcon		(grav)					tons				110	

Armour

Location	Armour
Front	4
Right	4
Left	4
Rear	4
Тор	4
Bottom	4

Other Equipment/Modifications:

Autopilot/1, Computer/1, Decreased Agility, Decreased Hull, Decreased Speed x2, Entertainment System Cr. 300, Navigation (basic), Reduced Fuel Efficiency x3

JUDGE DREDD CIVILIAN GRAV VEHICLES



HOVERPOD MERCURY NINE-TEN

Often Regarded as a flying buggy, hoverpods meet with little of the same derision, no doubt to their expense. Although quite comfortable, the Nine-Ten is little more than an enclosed seat inside a bubble, strapped on to an anti-grav powerplant that all but strains to get a single occupant aloft.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Nine- Ten	11	Flyer (grav)	0	150	750	1/—	0.25 tons	No	1	1	12, 500	0.5 tons

Armour

Location	Armour
Front	4
Right	4
Left	4
Rear	4
Тор	4
Bottom	4

Other Equipment/Modifications:

Decreased Agility x1, Decreased Speed x5, Entertainment System Cr. 300, Reduced Fuel Efficiency x1

Merchant Hovership

Almost without exception, every hovership is owned by one of the large mercantile corporations that trades regularly between Brit-Cit and Mega-City One with occasional forays to other cities of the world. However the justice department is known to own a couple of refitted hoverships, as are several billionaires who use them for luxury yachts.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Hovership (sea)	11	Seafarer (ocean ships)	-2	100		50/50	172.5 tons	No	500	500	21, 081, 000	1, 000 tons
Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size

Armour

Location	Armour
Front	12
Right	12
Left	12
Rear	12
Тор	12
Bottom	12

Weapon	Location	Damage	Range	Auto	Ammo			
Heavy Laser	Top Powered Pintle Mount	10d6	Rifle	4	-			
Other Equipment/Modifications:								
Additional Armour x2, Bunks x50, Computer/1 x2, Full Galley (serves 50), Entertainment								

Additional Armour x2, Bunks x50, Computer/1 x2, Full Galley (serves 50), Entertainment System Cr.1, 000 (communal), Fresher x4, Fusion Plant

SKY TRUCK, MERCURY KARMACK

What better way to avoid the eternal traffic jams of the city then to fly over head. With faster delivery times, the Karmack is a welcome addition in any business. Those companies that can afford to replace their ground vehicles won't soon regret it.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Sky Truck	11	Flyer (grav)	0	400	3,000	1/2	6 tons	No	10	10	607, 800	13.5 tons

Armour

Location	Armour
Front	4
Right	4
Left	4
Rear	4
Тор	4
Bottom	4

Other Equipment/Modifications:

Decreased Agility, Decreased Hull x3, Decreased Structure x4, Entertainment System Cr. 300

Judge Dredd Gmuan Ground Vehicues

BLOCK BUGGY

The block buggy is a simple, two person vehicle with storage space for 100kg of goods. A necessity for navigating and traversing the streets of Mega-City One, the block buggy uses a rechargeable battery with enough power for up to 8 hours operation.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Block Buggy	11	Drive (wheeled)	+1	200	798	1/1	0.25 tons	Тор	1	1	7, 320	1.5

Armour

Location	Armour
Front	4
Right	4
Left	4
Rear	4
Тор	4
Bottom	4

Other Equipment/Modifications:

Communications (TL 6), Decreased Speed x2, Greater Fuel Capacity, Increased Agility, Navigation (standard)

GROUND CAR FOORD SLABSTER

The Slabster is one of the most common vehicles found on the streets of Mega-City One and every family who cannot hope to afford the latest roadster or hovercar aspires to the freedom a ground car can give- for many the car gives the first opportunity to leave their city block.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Foord Slabster	11	Drive (wheeled)	0	250	600	1/4	0.25 tons	No	3	3	8, 800	3 tons

Armour

Location	Armour
Front	4
Right	4
Left	4
Rear	4
Тор	4
Bottom	4

Other Equipment/Modifications:

Computer/1, Entertainment System Cr. 300, Navigation (basic)

GROUND CAR FOORD STRATO

For many critics, Foord's entry into the roadster market was an expensive disaster but by just slightly altering the marketing of the Strato, the company managed to create a highly desirable ground car for the citizen who wanted the looks and performance of a hot rod but without the expense and prestige.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Foord Strato	11	Drive (wheeled)	0	350	600	1/1	0.25 tons	No	3	3	11, 200	3
Armou	r											
Location	1	Armo	ur	Oth	ner Equir	ment/Modifica	tions:					
Front		4										
Right		4		Con	nputer/1,	Entertainment S	System C	r. 300, Ind	creased	d Speed x4,	Navigatio	n (basic)
Left		4										
Rear		4										
Тор		4										
Bottom		4										

GROUND CAR OOSTIN MACRO

A common sight on the streets of Mega-City One (as are similar, two-seater micro cars) the Oostin Macro is a cheap, two-door ground car light on luxury but noted for its long lived reliability. The Macro has earned the distinction of being the car most young citizens aim to purchase as their first ground car due to its low selling price and growing fan-club.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Oostin	11	Drive	0	250	150	1/1	0.25	No	2	2	4, 320	2 tons
Macro		(wheeled)					tons					

Armour

Location	Armour
Front	4
Right	4
Left	4
Rear	4
Тор	4
Bottom	4

Other Equipment/Modifications:

Computer/1, Entertainment System Cr. 300, Navigation (basic), Reduced Fuel Efficiency x3

JUGGER JCD 939

Sometimes called the two-laner, the 939 is the workhorse of large corporations, ferrying raw materials and finished goods from sector to sector, forming the vital backbone of commerce in Mega-City One.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
JCD 939	11	Drive (wheeled)	-2	175	1,590	1/2	30 tons	No	72	72	135, 120	75 tons

Armour

Location	Armour
Front	4
Right	4
Left	4
Rear	4
Тор	4
Bottom	4

Other Equipment/Modifications:

Decreased Agility, Decreased Structure x3, Decreased Hull x3, Entertainment System Cr. 300, Greater Fuel Capacity x15

ROAD BUGGY, MERCURY TYPE 102

Considered a lethal contraption by all but its most devoted of fans, the Type 102 is still present on many of the roads of Mega-City One due to its inherent cheapness. The proud owner of this buggy enjoys few thrills as it lacks many basic features and is not even legal to travel on the megways and the Type 102 has been known to be crushed by larger vehicles without their owners even knowing the buggy was there.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Type 102	11	Drive (wheeled)	0	125	600	1/—	0.25 tons	Open Frame	1	1	600	1.5

Armour

Location	Armour
Front	1
Right	1
Left	1
Rear	1
Тор	1
Bottom	1

Other Equipment/Modifications:

Decreased Speed x5

ROADLINER, ROADLINERS INC. 'FAT BOY'

Running alongside the much larger juggers, the Roadliner is a vehicle designed purely to transport great amounts of cargo from one part of the city to another, as quickly as possible.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Fat Boy	11	Drive (wheeled)	–1	210	600	1/2	10 tons	No	22	23	162, 000	22.5 tons
Armour												
Location		Armo	ur	Other	Equipme	nt/Modificatio	ons:					
Front		4			• •							
Right		4		Increase	ed Speed	x2						
Left		4										
Rear		4										
Тор		4										

ROADSTER, NIRVANA BKJ3000 TYPE-Z

4

Every young Juve with but a passing interest in vehicles is likely to have the latest vid slug of a Type-Z being put through its paces on a crowded megway. This is *The* Car to own in Mega-City One. Although it gives a lot away in speed to the fastest hovercars, the adrenaline rush from dodging high speed traffic is the ultimate thrill.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers		Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Type-Z	11	Drive (wheeled)	0	500	600	1/—	0.25 tons	Open Top	6	6	25, 100	6 tons

Armour

Bottom

Location	Armour
Front	4
Right	4
Left	4
Rear	4
Тор	4
Bottom	4

Other Equipment/Modifications:

Entertainment Cr. 300, Increased Speed x 10

STREET BIKE, KRAPSAKI TF-4 The dream of many young juves, the Krapasaki is known for being a cheap, no-frills bike designed only for thrilling speeds. Despite many Lightweight measures taken, the Krapsaki can't hope to match the raw output of the Otomo or Lawmaster.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Krapsaki	11	Drive (wheeled)	+1	375	600	1/1	—	Frame	1	1	4, 800	1

Armour

Location	Armour
Front	0
Right	0
Left	0
Rear	0
Тор	0
Bottom	0

Other Equipment/Modifications:
Motorcycle



Vieniques of The Cursed Earth

GROUND CAR 1920's AUTOMOBILE

These old cars usually conjure images of old gangsters from the prohibition era of America. Although a few have survived from those times, latter day revivals of retro fashions led to a resurgence of the 1920s and 1930s style automobiles. Ironically, these vehicles are most often used by the modern day gangsters in places like Las Vegas where the mafia runs the town.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Ground Car	5	Drive (wheeled)	0	100	200	1/4	0.25 tons	No	3	3	9, 216	4 tons
Armou	r											
Location	1	Armo	ur	Othe	r Equipn	nent/Modificat	tions:					
Front		6										
Right		6		Additi	onal Arm	our x2, Increas	ed Spee	d x2, Dec	reased	Hull, Decrea	ased Strue	cture
Left		6										
Rear		6										
Тор		6										
Bottom		6										
		-										

HUMWEE

These four-wheel drive military vehicles are typically scavenged from abandoned military bases save for a few civilian versions used as multipurpose off-road vehicles.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Humwee	7	Drive (wheeled)	0	160	572	1/4	1.5 tons	No	3	3	19, 680	3 tons

Armour

Location	Armour
Front	15
Right	15
Left	15
Rear	15
Тор	15
Bottom	15

Other Equipment/Modifications:

Additional Armour x3, Fuel Efficiency, Greater Fuel Capacity, Off-road Capability

LA-SAW MOBILE

The LA-Saw mobile is a saucer shaped hover vehicle with laser saws that spin around its diameter. A single pilot sits on the top in a domed plastiglass cabin. These vehicles were developed during the 21st century and were most notably used to carve President Carter's face in the Mount Rushmore National Memorial.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size	
LA-Saw	8	Flyer (grav)	+1	300	1,000	1/-	0.25 tons	Closed	2	2	124, 000	1.5 ton	
Armou	r												
Location		Ar	mour	V	Veapon	Location	Dam	age	Range	Auto)	Ammo	
Front		3		L	a-saw	Surround,	6d6		Melee	N/A		N/A	
Right		3				Front, Righ	nt,	ıt,					
Left		3				Left, Rear							
Rear		3											
Тор		3		C	ther Equ	ipment/Modif	ications						
Bottom		3											
				ln In	creased H	Hull							

PICK-UP TRUCK

These 20th Century pickup trucks have a small cab and an open-topped rear bed for storing cargo or additional passengers. With four-wheel drive making off-road travel easy, these vehicles are popular with gangs and town militia alike.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Pick-up Truck	6	Drive (wheeled)	0	100	200	1/2	1 ton	Cargo Bed	4	3	9,200	3 tons

Armour

Location	Armour
Front	3
Right	3
Left	3
Rear	3
Тор	3
Bottom	3

Other Equipment/Modifications:

Double Occupancy Seating, Increased Hull

SCHOOL BUS

A surprising number of these iconic yellow buses have survived and been repaired for use today. Many have been converted and the seats removed, making them perfect vehicles for merchants to transport their wares.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
School bus	6	Drive (wheeled)	0	140	200	1/10	2.75 tons	No	7	8	29, 120	10 tons

Armour

Location	Armour
Front	3
Right	3
Left	3
Rear	3
Тор	3
Bottom	3

Other Equipment/Modifications:

Decreased Hull x3, Decreased Structure x2, Double Occupancy Seating x5, Increased Speed x4,

SCHOOL BUS (MERCHANT VERSION)

A surprising number of these iconic yellow buses have survived and been repaired for use today. Many have been converted and the seats removed, making them perfect vehicles for merchants to transport their wares.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	•	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
School bus	6	Drive (wheeled)	0	140	200	1/2	3.75 tons	No	7	8	29, 120	10 tons

Armour

Location	Armour
Front	3
Right	3
Left	3
Rear	3
Тор	3
Bottom	3

Other Equipment/Modifications:

Decreased Hull x3, Decreased Structure x2, Double Occupancy Seating, Increased Speed x4,

STRONTIUM DOG

ATV QUAD BIKE

Another frontier vehicle, this rugged off-road quad bike is designed as a single-person all terrain vehicle with enough power to tackle the nastiest of surface conditions and extremely steep inclines with relative ease.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
ATV Quad Bike	10	Drive (wheeled)	–1	220	500	1/	—	Frame	2	2	4, 560	2 ton

Armour

Location	Armour
Front	1
Right	1
Left	1
Rear	1
Тор	1
Bottom	1

Other Equipment/Modifications:

Decreased Agility, Increased Speed x2, Off Road Capability, Towing Capacity

CITY GRAV-SEDAN

A common form of grav vehicle found in cities across Earth and the terraformed worlds across the galaxy. The grav-sedan is sleek, with clean lines and capable of transporting the average family in comfort.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Grav- Sedan	10	Flyer (grav)	0	400	2, 000	1/4	0.5 tons	No	3	3	228, 225	3 tons

Armour

Location	Armour
Front	4
Right	4
Left	4
Rear	4
Тор	4
Bottom	4

Other Equipment/Modifications:

Decreased Agility, Double Capacity Seating x1, Entertainment System Cr. 300, Navigation (basic)

FLOATER

A floater is a single-person, sled-like grav vehicle that is essentially a weapon's platform. The occupant lies, face down, on the floater, controlling its height and speed with a combination of arm and knee movements on the pressure controls of the main board.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Floater	10	Flyer (grav)	+2	400	2, 000	1/-		Frame	1	1	120, 000	1 tons
Armou	I											
Location	1	Arr	nour	Weapo	n	Location	Damag	e Ra	ange	Auto	Amn	10

Location	Armour	Weapon	Location	Damage	Range					
Front	1	_		—						
Right	1									
Left	1	Other Equipment/Modifications:								
Rear	1									
Тор	1	Advanced Co	ntrols, One spa	ce Unspecified	weaponry					
Bottom	1									

GRAV **S**PORTSTER

A two person sports vehicle, the grav sportster is good at making a fashion or status statement, a speedy getaway or simply cruising around with the top down.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Sportster	10	Flyer (grav)	0	480	2, 000	1/1	0.5 tons	Open Topped	3	3	255, 300	3 tons

Armour

Location	Armour
Front	4
Right	4
Left	4
Rear	4
Тор	4
Bottom	4

Other Equipment/Modifications:

Decreased Agility, Entertainment System Cr. 300, Increased Speed x2

GUGGY

The grav buggy (or Guggy as it's often known) is a four person, open grav-sled for sedate travel over short distances. The seating configuration may confuse at first with the first two passengers facing forwards and that the rear two facing backwards. Both sets of seats have controls to pilot the vehicle, allowing it to be driven in either direction (as long as the rear passenger knows how to drive a grav car).

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Guggy	10	Flyer (grav)	+1	400	2, 000	1/4	0.25 tons	Frame	1	1	78, 077	1 ton
Armou	r											
Location		Arm	our	Othe	e <mark>r Equip</mark> n	nent/Modifica	tions:					
Front		1		-								
Right		1		Decre	eased Sp	eed x3, Enterta	ainment	System Cr.	300			
Left		1										
Rear		1										
Тор		1										
Bottom		1										

HOPPER

A frontier and colony world grav vehicle, hoppers are high-capacity (cargo and passengers) workhorses that are a frequent sight on the far flung worlds of the galaxy. The internal space is easily converted between cargo and passenger space.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Hopper	10	Flyer (grav)	–1	350	2, 000	1/50	2 tons	No	14	14	700, 120	17 tons

Armour

Location	Armo ur
Front	4
Right	4
Left	4
Rear	4
Тор	4
Bottom	4

Other Equipment/Modifications:

Decreased Agility x2, Decreased Hull x3, Decreased Structure x3, Double Occupancy Seating x25, Entertainment System Cr. 200, Navigation (basic)

HOPPER (CARGO CARRIER)

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Hopper	10	Flyer (grav)	-1	350	2, 000	1/50	8.25 tons	No	14	14	650, 120	17 tons

Armour

Location	Armour
Front	4
Right	4
Left	4
Rear	4
Тор	4
Bottom	4

Other Equipment/Modifications:

Decreased Agility x2, Decreased Hull x3, Decreased Structure x3, Entertainment System Cr. 200, Navigation (basic)

SLED BIKE

The sled bike is a ubiquitous form of personal transportation that is common and popular on frontier worlds. With all vital components fully enclosed within, the sled bike is well protected, durable and reliable in the toughest, dustiest or coldest environments.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Sled Bike	10	Flyer (grav)	+1	520	3, 000	1/—	—	Frame	2	2	460, 000	2 tons

Armour

Location	Armour
Front	1
Right	1
Left	1
Rear	1
Тор	1
Bottom	1

Other Equipment/Modifications:

Increased Speed x3, More Fuel Efficient x5

UNICOPTER

Used for short-range aerial surveillance, the unicopter is a single, rotary wing helicopter that contains an auto- stabilisation gyroscope. Able to carry a few passengers, the unicopter is often fitted with small sensor arrays within the nose.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Unicopter	10	Flyer (rotor)	+1	200/ 500	3,000	1/2	0.25 tons	No	1	2	38, 250	5 tons

Take-off Radius: 22m

Armour

Location	Armour
Front	3
Right	3
Left	3
Rear	3
Тор	3
Bottom	3

Other Equipment/Modifications:

Communications (TL 6), Decreased Agility, Navigation (basic), Sensors (Advanced)

GROUND VIEHIGUES OF Hammer's Slammers

SABRE HEAVY TANK

Launched by the weapon foundries of New Ukrania, the Sabre is a fusion-powered tank. Mounting an R88 Coilgun modified for greater range, a series of Kestrel rockets and a small anti-personnel 1cm Coilgun.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Sabre Heavy Tank	11	Drive (tracked)	-2	60		3/-	2 tons	No	25	25	2, 636, 350	25 tons

Armour

Location	Armour	Weapon	Location	Damage	Range	Auto	Ammo			
Front	170	22cm Coilgun	Top Large Turret	14d6 MegaAP	Long	No	20			
Right	140	KP21 1cm	Top Powered	3d6	Rifle	4	400			
Left	140	Coilgun	Ring Mount							
Rear	120	Kestrel	Dedicated	12d6	Medium	_	8			
Тор	130	Rocket	Missile Bay							
Bottom	64									
Large Top Turret Front	130	Other Equipment/Modifications:								
Large Top Turret Side/Rear	130	Additional Arm		ammunications (7		mutar/2	Deerseed			

Additional Armour x15, AFV, Communications (TL 8), Computer/3, Decreased Agility, Fusion Plant, Improved Fire Control +2 (22cm Coilgun), Increased Speed x5, Navigation (basic), Sensors (standard)

TR6BKU-1 BLACK SKORPION

Built upon the TR6 chassis, the Skorpion tank is a specialised tank killer. Replacing the turret with a massive 22cm Kuiper R88 coilgun. This weapon pushes the limits of what the medium tank can do.

Vehicle TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
	Drive (tracked)	-1	115	—	2/-	2 tons	No	25	25	2, 329, 700	25 tons
Armour											
Location	Arr	nour	We	apon	Locatior	n	Damage		Range	Auto	Ammo
Front	40		220	cm Coilgu	In Top Forw	vard	14d6 Meg	aAP	Medium	No	20
Right	40			-	Fixed Mo	ount	-				
Left	40		KP	21 1cm	Front Fix	ed	3d6		Rifle	4	400
Rear	40		Co	ilgun	Mount						
Тор	40		R2	6 Coilgun	Top Sma	ll Turret	4d6 Super	ΆP	Rifle	6	400
Bottom	40										
Turret Top Front	40		Ot	ner Equip	oment/Modifi	cations:					
Turret Top Side/	Rear 40		-		_						
			Sm	all Turret:	Тор						

Additional Armour x4, AFV, Communications (TL 8), Computer/2, Fusion Plant, Improved Fire Control +2 (22cm Coilgun), Increased Speed x5, Navigation (basic), Sensors (standard)

172

T-11 THYSSEN COLONIAL LIGHT TANK

The Thyssen Colonial Light Tank is a tracked, light howitzer tank. Using an internal combustion engine and armoured with both older and modern compounds. Simplistic but functional, the Colonial Light tank is a common defence on many recently settled planets.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structu	re Co (Cr	
T-11	8	Drive (tracked)	-1	81	400	2/-	2 tons	No	15	15	658 500	,
Armou	r											
Location		Armo	our	Weap	on	Location		Damage		Range	Auto	Ammo
Front		30		10cm	Howitzer	Top Large	Turret	8d6 Supe	rАР	Long	No	15
Right		30		Autoc	annon	Top Large	Turret	4d6 AP		Rifle	4	100
Left		30										
Rear		30		Other	r Equipm	ent/Modificat	ions:					
Тор		30		1	Turnel	0		O and the loss	(
Bottom		30		0		Crew, Improve	ed Fire	Control +2	(Autoc	annon), II	mproved	Fire Control +2
Turret Fro	ont	30		(Howit	zer)							
Turret Sic	le/Rea	ar 30			onal Arm), Sensor		Commu	nications	(TL 8),	Increase	d Speed	I x4, Navigation

TR6A4 THYSSEN GLADIUS LIGHT TANK

This fusion powered tank fully replaces the earlier colonial model. Bringing to bear greater firepower, improved internal systems and enough armour to stand its ground against the more popularly mentioned Supertanks.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Gladius Light Tank	10	Drive (tracked)	–1	105	—	2/-	2 tons	No	25	25	2, 432, 000	25 tons

Armour

Location	Armour	Weapon	Location	Damage	Range	Auto	Ammo
Front	150	6cm Railgun	Top Large Turret	8d6 MegaAP	Medium	No	20
Right	140	Autocannon	Top Large Turret	4d6 AP	Rifle	4	100
Left	140	KP21. 1cm	Front Fixed	3d6 SuperAP	Rifle	4	400
Rear	120	Railgun	Mount				
Тор	130						
Bottom	80	Other Equipmer	nt/Modifications:				
Turret Front	132				、 .		
Turret Side/Rear	132	Large Turret: 1 C (6cm Railgun)	rew, Improved Fire	e Control +2 (Auto	cannon), Imp	proved Fire	e Control +2

Additional Armour x15, AFV, Communications (TL 8), Computer/2, Fusion Plant, Increased Speed x8, Navigation (basic), Sensors (standard)

Hovergraff of Hammer's Slammers

FABRIQUE NATIONAL A21 1100K JEEP

The A21 series of hover jeeps is used by the Slammers and several other merc units. These rugged vehicles have steel armour over a ceramic-beryllium sandwich, trading speed for protection. The rear compartment can be fitted with a variety of weapons.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
A21 1100K	9	Drive (hover)	+1	165	500	1/1	0.25 tons	Open Topped/ Bed	1	1	193, 250	3.5 tons
Armou	r											
Location	1	Arm	nour	Wea	pon	Location	Dama	age Ra	ange	Auto	Ar	nmo
Front		12		_						_		
Right		12										
Left		12		Othe	r Equipn	nent/Modificat	tions:					
Rear		12										
Тор		12		Additional Armour x3, Communications (TL 6), Computer/2, Increased Speed x2, Naviga							2, Navigation	
Bottom		12		(basic	(basic), Powered Pintle Mount (undefined weapon), Sensors (basic)							

M1A1

Bottom

12

The M1 was one of the first blower tanks built by Icarus Industries of Hamburg on Terra. Ushering in a new era of tanks and armoured warfare, the M1A1 may lack in firepower and advanced systems but the enhanced movement of the hoverframe gives it an unparalleled advantage over older forms of heavy AFV.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
M1A1	11	Drive (hover)	+1	127	2,100	3/—	2 tons	No	13	14	9, 249, 850	20.5 tons

Armour

Location	Armour						
Front	128	Weapon	Location	Damage	Range	Auto	Ammo
Right	104	15-cm	Top Large	15d6+15 Super	Long	No	20
Left	104	Powergun	Turret	Destructive			
Rear	104	Flechette	Top Powered	4d6	Rifle	8	200
Тор	104	gun	Pintle Mount				
Bottom	80						
Turret Front	104	Other Equip	ment/Modificat	ions:			
Turret Side/Rear	104	Larga Turratu	1 Crow Imagenes	d Fire Control 10			
		Large Turret:	i Crew, Improve	ed Fire Control +2			

Additional Armour x12, AFV, Communications (TL 6), Computer/2, Greater Fuel Capacity x3, ERA II, Navigation (basic), Sensors (basic)

M2A 1

The M2 'Ursa' series is the backbone of the Slammer's arsenal. The archetype of the modern supertank, with a cast-iridium hull offering superior armour and armaments and an upgraded computer system.

Vehicle	TL	Skill	Agility	Speed	Range	Crev Pass	w / sengers	Cargo	Open?	Hull	Stru	icture	Cost (Cr.)	Shipping Size
M2A1	11	Drive (hover)	+1	112	2,100	2/—		2 tons	No	13	13		8, 834, 700	20 tons
Armou	r													
Location	1	Arn	nour	Wea	apon		Location	า	Damag	ge		Range	Auto	Ammo
Front		180		20-0	cm Power	rgun	Top Larg	e Turret	20d6+2	20 Supe	r	Long	No	20
Right		150							Destru	ctive				
Left		150		Tribarrel			Top Pintl	e Mount	4d6+4	Destruc	tive	Rifle	6	200
Rear		150												
Тор		140		Oth	er Equip	ment	/Modifica	ations:						
Bottom		70												
Turret Fro	ont	140		Larg	e Turret:	1 Cre	w, Improv	/ed Fire (Control +3	5				
Turret Sid	de/Rea	ar 140							nications (nsors (sta	, , ,	Comp	outer/2, C	Greater F	uel Capacity

M2A4

The main production model of the Ursa tank. With greater armour, additional rocket batteries and a complete overhaul, the M2A4 is a larger and fearsome upgrade on its predecessor.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Carg	o Open?	Hull	Structure	Cost (Cr.)	Shipping Size
M2A4	12	Drive (hover)	+1	120	2,450	2/-	4 tons	s No	20	20	17, 119, 900	30 tons
Armou	r											
Location		Arm	our	Wea	pon	Location	C)amage		Range	Auto	Ammo
Front		200		20-cr	n	Top Large Tur	ret 2	0d6+20 Sup	ber	Long	No	20
Right		180		Powe	ergun		D	Destructive				
Left		180		Triba	rrel	Top Pintle Mo	unt 4	d6+4 Destru	uctive	Rifle	6	200
Rear		160		Grou	nd	Right Dedicate	ed 1	2d6		Medium	No	
Тор		160		Pene	trating	ng Rocket Bay						
Bottom		80		Rock	et							
Turret Fro	ont	160		Grou	nd	Right Dedicate	ed 1	2d6		Medium	No	
Turret Sic	le/Rea	ar 160		Pene Rock	etrating et	Rocket Bay						

Other Equipment/Modifications:

Large Turret: 1 Crew, Improved Fire Control +3

Additional Armour x15, AFV, Communications (TL 10), Computer/3, Greater Fuel Capacity x3, ERA II, Increased Speed x4, Navigation (standard), Sensors (standard)

M9 Combat Car

Icarus Industries M9-series of combat cars is the latest in their range of air cushioned fighting vehicles. The M9-series is the largest and most heavily armoured in the series, girded in cast iridium and armed with three powerful tri-barrel powerguns.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Struct	ure	Cost (Cr.)	Shipping Size
M9 Combat Car	11	Drive (hover)	+1	142	900	4/—	0.5 tons	Open Bed	5	6		1, 814, 450	5.5 tons
Armour													
Location		Armour		Weapon	Loca	tion	Damage		Ran	ge	Aut	o A	mmo
Front		80		Tribarrel	Top F	Powered	4d6+4 Des	structive	Rifle		6	2	00
Right		80			Pintle	e Mount							
Left	_eft 80			Tribarrel	el Top Powered		4d6+4 Destructive		Rifle		6	2	200
Rear		80			Pintle Mount								
Тор		80		Tribarrel	Top F	Powered	4d6+4 Des	structive	Rifle		6	2	00
Bottom		80			Pintle	e Mount							
Front Gunshi	eld	22											
Right Gunshi	eld	22		Other Eq	uipment	/Modificatio	ns:						
Left Gunshie	ld	22		Additional Sensors (I		(9, AFV, Com	munication	s (TL 6),	Comp	uter/2, E	RAI	l, Naviga	tion (basic),

SKIMMER

Skimmers are small one-man hoversleds used by the Slammers infantry. Skilled riders can operate their skimmers with one hand and fire a sidearm at the same time.

Vehicle	TL	Skill	Agility	Speed	Range	Crew / Passengers	Cargo	Open?	Hull	Structure	Cost (Cr.)	Shipping Size
Skimmer	9	Drive (hover)	+1	240	500	1/—	0.25 tons	Frame	1	1	72, 000	1.5 tons

Armour

Location	Armour
Front	1
Right	1
Left	1
Rear	1
Тор	1
Bottom	1

Other Equipment/Modifications:

Increased Speed x2

Supplement 5-6: The Vehicle Handbook

Completely rewritten with an all new flexible and easy to get to grips with design system, the Vehicle Handbook is a central resource for the Traveller RPG. As well as providing details of every vehicle published for the Traveller RPG, along with many new designs, the Vehicle Handbook also contains a complete construction system allowing you to build any vehicle in any setting, from a simple bicycle to advanced power armour, from a floating aircraft carrier to a massive piloted robot. The Vehicle Handbook is designed to become an integral part of the Traveller RPG.



US \$39.99

