Chapter 13: Standard Designs

This chapter contains examples of standard computers, vehicles and spacecraft in use throughout the Traveller universe.

VEHICLE DATA BLOCK

Every vehicle uses the following data block for easy reference to commonly used information during play. They have been designed to fit well on a standard 3"x5" index card. The information presented in the leftmost column is that which will be most used during normal operation of travel, trade, and commerce. The information in the middle column is the data that will be most needed when the vessel is engaged in combat. The rightmost column is used to detail the vehicle's offensive weapon systems. At the bottom of each block will be a listing of any other equipment or supplies installed or stored aboard the vessel, that have not already been detailed.

Class:		EP Outpu	t:	
Cost:		Agility:		
Tech Level:		Initiative:		
Size:		AC:		
Streamlining:		AR:		
Pressurized?		SI:		
Climate Control?		Visual:		
Drive Train:				
Crew:				
Passengers:		Sensors:		
Cargo Space:				
Fuel:				
Range:		Comm.:		
Speeds:				
Acceleration =				
Offroad =	Very Slow	=	Slow =	
Cruising =	Fast =		Maximum =	
Other Equipment:				
				Vahiele Dete (Commencial)
TAS Form 3.1v (Cor	naensea)			Vehicle Data (Commercial)

STARSHIP AND SPACECRAFT DATA BLOCK

Every starship and spacecraft uses the following data block for easy reference to commonly used information during play. They have been designed to fit well on a standard 3"x5" index card. The information presented in the leftmost column is that which will be most used during normal operation of travel, trade, and commerce. The information in the middle column is the data that will be most needed when the vessel is engaged in combat. The rightmost column is used to detail the ship's offensive weapon systems. At the bottom of each block will be a listing of any other equipment or supplies installed or stored aboard the vessel, that have not already been detailed.

Class:	EP Output:	
Tech Level:	Agility:	
Size:	Initiative:	
Streamlining:	AC:	
Jump Range:	Repulsors:	
Acceleration:	Nuclear Dampers:	
Fuel:	Meson Screens:	
Duration:	Black Globes:	
Crew:	AR:	
Staterooms:	SI:	
Small Cabins:	Main Computer:	
Bunks:	Sensor Range:	
Couches:	Comm. Range:	
Low Berths:	_	
Cargo Space:	Cost:	
Atmospheric Speeds:	NoE =	
Cruising =	Maximum =	
Other Equipment:		
TAS Form 3.1 (Condensed	1)	Ship's Data (Commercial)

Standard Computers

Hand Computer

0.135vl. A small hand-held computer system, complete with miniature keyboard and view screen. While technically these types of computers can be built at any TL, the effective computer power of a hand computer before TL9 is negligible. Even at this point they are little more than glorified address books with limited computing capability. It is not until about TL11 that the true hand computer becomes a standard part of most societies and capable of any real processing power.

<i>Type</i> Parallel Synaptic Adv. Synaptic	<i>TL</i> 9 11	<i>Units</i> x0.25 x0.5 x1	<i>Cost</i> 50 75	<i>Volume</i> 0.135 0.135 0.135	<i>EP</i> 0.003 0.006	CPU 2.5 5	<i>Model</i> B1 B2 B3	INT 0 0	PP 2/1 3/2
Adv. Synaptic	13	x1	100	0.135	0.009	10	B3	0	4/2
Positronic	16	x10	1000	0.135	0.009	25	B4	0	5/3

Portable Computer

1.35vl. A lightweight portable computer, complete with a full sized keyboard and small view screen. Until about TL 8 or 9, these small computers are found only in use among high ranking businessmen, executives, and government officials, but they soon become fairly commonplace with the general population. Portable computers (Portacomps) start to be replaced by the hand computer at TL11.

Туре	TL	Units	Cost	Volume	EP	CPU	Model	INT	PP
Linear	7	x1	250	1.35	0.09	2	B1	0	2/1
Parallel	9	x2.5	500	1.35	0.03	25	B4	0	5/3
Synaptic	11	x5	750	1.35	0.06	50	B7	1	8/4
Adv. Synaptic	13	x10	1000	1.35	0.09	100	B9	1	10/5
Positronic	16	x100	10,000	1.35	0.09	250	A2	2	13/7

Standard Desktop Computer

13.5vl. The desktop computer can be found at most TL and is never really replaced due to its reasonable power to size ratio when compared to other types of computers.

<i>Type</i> Linear	TL 7	<i>Units</i> x10	<i>Cost</i> 2500	Volume 13.5	<i>EP</i> 0.9	<i>CPU</i> 20	<i>Model</i> B4	INT 0	PP 5/3
Parallel	9	x25	5000	13.5	0.3	250	A2	2	13/7
Synaptic	11	x50	7500	13.5	0.6	500	A7	3	18/9
Adv. Synaptic	13	x100	10,000	13.5	0.9	1000	M1	4	28/11
Positronic	16	x1000	100,000	13.5	0.9	2500	M1	4	28/11

Miniframe Computer

135vl. Miniframes are typically found powering the computer networks for businesses, manufacturing plants, research facilities, and other locations where massive computing power is required, and size is not a major issue.

<i>Type</i> Electromechanical	TL 5	Units x10	Cost 10,000	<i>Volume</i> 135	<i>EP</i> 9	<i>CPU</i> 10	Model B3	INT 0	PP 4/2 12/6
Linear Parallel Synaptic	7 9 11	x100 x250 x500	25,000 50,000 75.000	135 135 135	9 3 6	200 2500 5000	A1 M1 M2	2 4 4	28/11 35/12
Adv. Synaptic Positronic	13 16	x1000 x10,000	100,000 1,000,000	135 135 135	9 9	10,000 25,000	M4 M6	5 6	49/13 65/14

Autopilot Computer

(Hardwired) A basic computer system capable of operating a single vehicle or vessel type safely, and with access to limited emergency maneuvers intended to bring the vehicle back under control rather than undertaking automated combat maneuvers. Software is hardwired; the computer cannot be transferred to a different type of vehicle.

<i>Type</i> Linear Parallel Synaptic Adv. Synaptic Positronic	<i>TL</i> 7 9 11 13 16	Units x112.5 x22.5 x22.5 x22.5 x22.5 x90	Cost 28,125 4500 3375 2250 9,000	Volume 151.87 12.15 6.07 3.04 1.21	EP 10.12 0.27 0.27 0.202 0.081	CPU 300 300 300 300 300	Model A3 A3 A3 A3 A3 A3	INT 2 2 2 2 2 2	<i>PP</i> 14/7 14/7 14/7 14/7 14/7
Software *Low Basic Logic *Limited Verbal Interface Driving Navigation Totals	<i>PP Cap</i> 2 2 5 5 14	Cost 1000 500 5000 5000 11,500	INT Mod +0 +0 - - +0	<i>Ability Mod.</i> - -4 (Int) -5 (Edu) -	<i>Total Skil</i> - - +1 +0 -	l Mod.			

*always operating

Targeting Computer

(Hardwired). A basic fire control computer capable of controlling missiles and other weapon systems. Programs are hardwired and cannot be upgraded.

<i>Type</i> Linear Parallel Synaptic Adv. Synaptic Positronic	<i>TL</i> 7 9 11 13 16	Units x168.75 x33.75 x33.75 x33.75 x33.75 x135	Cost 42,187 6750 5062.5 3375 13,500	Volume 227.81 18.22 9.11 4.56 1.82	<i>EP</i> 15.19 0.405 0.405 0.304 0.121	<i>CPU</i> 450 450 450 450 450	<i>Model</i> A6 A6 A6 A6 A6	INT 3 3 3 3 3 3	<i>PP</i> 17/9 17/9 17/9 17/9 17/9
Software *Low Basic Logic *Limited Verbal Interface Gunner Interact Predict Select Return Fire Anti-Missile Weapons Systems Gunnery Totals *always operating	<i>PP Cap</i> 2 1 2 1 2 1 2 1 5 1 7	Cost 1000 500 1000 7500 3000 5000 1000 4000 5000 28,000	INT Mod +0 - - - - - - - + +0	Ability Mod. - - - - - - - -5 (Wis)	Total Skill - - - - - - - - +2 (+2 Pre				

Model/M1 Robot Brain

TL12. Cr23,600. A fairly universal 'brain' used in many types of robots, with a reasonable intelligence, a few basic skills, and the ability to learn as it works. This model currently has enough data storage to hold up to 10,000 experience points. More storage capacity may be added as needed. Only the basic programming itself is provided. Additional skill programs or other software must be purchased and installed separately. Twenty of the brains 28 total PP points are constantly devoted to supporting its intelligence, leaving only 8 PP free for use with other programs.

Computer Core

Units:	Synaptic x100
Size:	24.3vl (10% reduction due to miniaturization)
Cost	Cr15,000
Total PP	28
Max PP	11
EP:	1.08 (10% reduction due to miniaturization)
CPU Output:	1000 (Model/1 Master Computer)

Data Storage

Synaptic x10
10,000XP
0.135vl
Cr2,500

Software

Programming	Cost	PP	Notes
Low Autonomous Logic	Cr7000	10	Int +2, Dex +2
Full Verbal Command	Cr5000	10	Int +2
Cost	Cr12,000	20	

Abilities

Str -, Dex +2, Con -, Int 8 (-1), Wis 0 (-5), Edu 1 (-5), Cha 0 (-5), Soc (-5)

Total Cost:	Cr29,500 (Cr23,600)
Total Size:	24.435vl
Total EP:	1.08

Standard Vehicles and Robots

All of the following vehicles and robots are commonly available (unless otherwise noted), and have been designed from the ground up using the T20 vehicle design system. Vehicles may be used as described, or be customized using the design system rules.

Vehicle and Robots	Table:					
Vehicle/Robot	TL	Cost	Size	Max Speed	SI	AC
Personal Robot	13	Cr98,801.2	100vl	10kph	14	10
Battledress	13	Cr71,655.2	300vl	10kph	25	23
Jeep	5	Cr2760	1000vl	120kph	35	10
Ground Car	5	Cr5440	2000vl	150kph	50	9
Small Cargo Truck	5	Cr12,320	5000vl	120kph	57	8
Wheeled ATV	12	Cr49,680	10,000vl	100kph	65	8
Tracked ATV	12	Cr48,080	10,000vl	80kph	65	8
Wheeled AFV	12	Cr71,080	10,000vl	100kph	65	14
Tracked AFV	12	Cr69,480	10,000vl	80kph	64	14
Hovercraft	7	Cr347,200	8000vl	150kph	61	11
Primitive Biplane	4	Cr11,840	1000vl	200kph	35	10
Cargo Plane	4	Cr364,000	10,000vl	600kph	65	8
Cargo Jet	7	MCr1.794	12,000vl	1320kph	69	8
Helicopter	5	Cr82,760	5000vl	250kph	55	8
Air/raft	8	Cr273,200	6000vl	120kph	57	8
Pressurized Air/raft	8	Cr376,000	8000vl	120kph	61	8
GCarrier	8	Cr506,880	10,000vl	120kph	65	14
Speeder	8	MCr3.950	8000vl	1320kph	61	8
Grav Belt	12	Cr9,292	200vl	120kph	12	11
Small Steamship	4	Cr334,600	150,000vl	60kph	104	2
Hydrofoil	7	Cr197,200	60,000vl	100kph	86	6
Submersible	6	MCr1.872	500,000vl	40kph (20kph)) 148	2

ROBOTS AND AUGMENTED ARMOR

Personal Service Robot (Percy)

Medium (Intelligent) Robot

TL13, Cr98,801.2, 100vl. The personal service robot, (PSR), also called a Purser (Per-Ser) or just simply a Percy, is an early robotic design that first begins to appear with the development of the synaptic computers. Its vaguely human-like appearance combined with its protocol, etiquette, and personality interfaces make the Percy well suited for a wide range of tasks that require constant interfacing with people in the performance of their duties. In private use, the Percy serves admirably as a butler, housekeeper, cook, or similar repetitive or remedial tasks. In commercial use PSRs are found in positions as waiters, cooks, and janitors. Percys also undertake jobs that may be too hazardous for a person, but which are not too complex for the Percy's limited programming. The Percy can operate for up to 72 hours before its fuel cells will require refueling.

Combat Statistics

Str 10, Dex 12, V	Vis 0, Int 8, Cha 10), Edu 5, Soc 0		
Initiative: +0	Agility: 0	AC: 10	AR: 0	SI: 14
Off-road: 7.5kph	, Very Slow: 1kph,	Slow: 2.5kph, Cruis	sing: 5kph , Fast: 7.5kpł	n, Maximum: 10kph

Initiative: +0 Agility: 0		AC: 10		AR: 0	
Off-road: 7.5kph, Very Slow:	1kph, Slov	/: 2.5kph, Cr i	uising: 5k	ph , Fast: 7.5	kph, Maxin
TL13 Design Specifications	0'	0	50	000//00	Dener
Installed Components	Size	Cost	EP	CPU/SP	Range
100vl Chassis	+100	100	-	-	
Drive Train, Legged (2)	-2.814	301.5	-0.067	-	
Adv. Fuel Cell	-9	600	+6	-	
Fuel	-21.6	-	-	-	72 hours
Holovideo Visual	-1.5	2000	-0.1	-	100m
Auditory Sensors	-0.2	200	-0.01	-	50m
Olfactory Sensor	-0.5	1500	-0.05	-	1km
Sensors, Enhanced Tactile	-4	12,000	-0.6	-	
Voder	-0.5	1200	-0.03	-	
Appendage (Str 10, Dex 10)	-5	10,000	-1		
Appendage (Str 10, Dex 10)	-5	10,000	-1		
Model/M1 Robot Brain (Int 8)	-24.435	- /	-1.08	-	
Totals	+25.451	Cr61,501.5			
Software Installed	PP	Cost	Notes		
Personality Interface (Cha 10)	5*	50,000	Cha 10		
Library Data Inter.	1*	3000	Edu +4		
Valet	2	3000			
Cooking	2	2000	P/Cookin	g-2	
Driving	2	2000	Driving-2	Ground Ca	r)
Cleaning	2	2000	P/Janitor		
-					

* Must constantly be running *Totals*

123,501.5 (Cr98,801.2 with 20% standard design discount)

Battle Dress

Large Augmented Armor

TL13, Cr71,655.2, 300vl. Battle Dress is a suit of personal armor similar in construction to Combat Armor. What sets Battle Dress apart is the fact that it is fully powered, in effect being a personal vehicle that is worn rather than driven.

Battle Dress consists of an armored frame, servo-assisted limbs, a sensor package and (sometimes) built-in weaponry. The armor is available in various configurations, from light, fast recon suits to heavy assault configurations capable of stopping almost any weapon on the battlefield. However, even the heaviest Battle Dress does not turn the wearer into an invulnerable tank. Battle Dress-equipped troops still function as infantry (albeit infantry who can shrug off smallarms fire and even some support weapons); they can thus go where tanks cannot, make use of low cover etc. Battle Dress requires special training to use and is not available to civilians.

The statistics given here are for standard TL 13 medium Battle Dress.

Battle Dress

Bullio Brood				
Class: Augmented Arm	nor	EP Output	t: 12 (5.655 excess)	
Cost: Cr71,655.2		Agility: 4 (+4 EP)		
Tech Level: 13		Initiative:	+5 (+5 agility)	
Size: Large (300vl)		AC: 23 (+10 armor, +4 agility, -1 Size)		
Streamlining: Standard	d	AR: 10		
Pressurized? Yes		SI: 25		
Climate Control? Yes		Visual: Ho	lovideo (1km), Infrared	
Drive Train: Legged (2	.)	(1km), Light Intensification (1km)		
Crew: 1				
Passengers: 0		Sensors: Auditory (50m), Tactile		
Cargo Space: 3.7vl				
Fuel: 28.8vl				
Range: 48 hours		Comm.: 2-	-way Radio (5km)	
Speeds: Acceleration = 1kph				
Offroad = 7.5kph \	,		Slow = 2.5kph	
Cruising = 5kph F			Maximum = 10kph	
Other Equipment: 2 ap	opendages	s (STR 20/+	5, DEX 10/+0).	

TAS Form 3.1v (Condensed)

Vehicle Data (Commercial)

TL13 Design Specifications

Installed Components	Size	Cost	EP	Range
300vl Chassis	+300	300	-	-
Control Systems	-110	275	-	-
TL13 Armor (AR10)	-66	3594	-	-
Pressurized Interior	-15	375	-0.375	-
Climate Control	-3	150	-0.03	
Drive Train, Legged (2)	-8.4	900	-0.2	-
Adv. Fuel Cell	-18	1200	+12	-
Fuel	-28.8	-	-	-
Appendage (Str 20, Dex 10)	-10	20,000	-2	-
Tactile Sensor	-1	3000	-0.2	-
Appendage (Str 20, Dex 10)	-10	20,000	-2	-
Tactile Sensor	-1	3000	-0.2	-
Holovideo Visual	-24.3	36,000	-1.26	1km
LI Video	-	-	-	-
IR Video	-	-	-	-
Holo Display	-0.1	500	-0.05	
Auditory Sensors	-0.2	200	-0.01	50m
Radio, 2-way	-0.5	75	-0.02	5km
Totals	+14	Cr89,569	(Cr71,655	5.2 with 20% standard design discount)

GROUND VEHICLES

Jeep

Large Ground Vehicle

TL5, Cr2760, 1000vl. A self-powered wheeled vehicle based on the ground car (see below) concept, but designed for off-road and rugged terrain use. Typically, a jeep has a cruising range of 600km at a speed of 60 kph, and has a maximum speed of 120 kph. Off-road performance is better than the standard ground car, though jeeps (other than specialist luxury models) lack creature comforts to the point where some are truly excruciating to drive. Fuel for a jeep depends on local tech level and fuel sources; it is usually chemical fuel (hydrocarbons or hydrogen), or an electric battery. A jeep can carry a driver and up to three additional passengers plus luggage (124vl). Luxury models (which are as comfortable as any ground car on the market) may be available at higher prices. The basic jeep is unpressurized, and may indeed be open-topped. Jeeps are designed to be somewhat tolerant of atmospheric and environmental conditions; they will not usually malfunction when transferred to another world, so long as it is reasonably similar to their world of origin.

Vehicle Data (Commercial)

J	e	е	p

Jeeh				
Class: Ground Vehicle	EP Outp	ut: 20 (7.9 excess)		
Cost: Cr2760	Agility: 1	(+1 EP)		
Tech Level: 5	Initiative	: +1 (+1 agility)		
Size: Large (1000vl)	AC: 10 (+	AC: 10 (+1 agility, -1 size)		
Streamlining: Standard	AR: 0			
Pressurized? No	SI: 35			
Climate Control? No	Visual: ⊢	leadlights (Beam 12m),		
Drive Train: Wheeled (4)	Brakeligh	ts (Area 1.5m)		
Crew: 1				
Passengers: 3	Sensors	:		
Cargo Space: 124vl				
Fuel: 100vl				
Range: 600km	Comm.:			
Speeds: Acceleration = 12kph				
•	Slow = 12kph	Slow = 30kph		
, , ,	= 90kph	Maximum = 120kph		
Other Equipment:				

TAS Form 3.1v (Condensed)

TL5 Design Specifications

Installed Components	Size	Cost	EP
1000vl Chassis	+1000	1000	-
Controls	-200	500	-
Drive Train, Wheeled (4)	-144	600	-12
Int. Combustion Power Plant	-100	1000	+20
Fuel	-100	-	-
Passengers Seating (3)	-330	300	-
2 Headlights, Beam (12m)	-1.6	40	-0.08
2 Brakelights, Illumination	-0.4	10	-0.02
Cargo/Luggage	-124	-	-
Totals	0	Cr3450	(Cr2760 with 20% standard design discount)

Ground Car

Large Ground Vehicle

TL5, Cr5440, 2000vl. An ordinary self-powered wheeled vehicle suitable for local use in civilized areas or on roads. Typically, a ground car has a cruising range of 1050 km at a speed of 75 kph, and has a maximum speed of 150 kph. If capable of off-road travel at all, speed is generally limited to 15 kph. Fuel for a ground car depends on local tech level and fuel sources; it is usually chemical fuel (hydrocarbons or hydrogen), or an electric battery. Most ground cars require a driver, although at higher tech levels some luxury models may be equipped to steer themselves (and on highly civilized worlds, driving under human control is illegal in cities). A car can carry five additional passengers plus luggage (268vl). Other models (convertibles, sports models, limousines, trucks, motorcycles, unicycles, vans, etc.) may be available at varying prices. The basic ground car is unpressurized. Ground cars are mass production items manufactured for a specific world; they will tend to malfunction when transferred to a world not similar to their world of origin.

At TL7, an optional Climate Control system becomes available for a cost of Cr800. It requires 20vl of space and 0.2EP of power.

Ground Car

Class: Ground Vehicle	е	EP Output	t: 35 (4.9 excess)		
Cost: Cr5440		Agility: 0			
Tech Level: 5		Initiative:	+0		
Size: Large-Huge (20	00vl)	AC: 9 (-1 s	size)		
Streamlining: Standa	ard	AR: 0			
Pressurized? No		SI: 50			
Climate Control? TL	7 Option	Visual: He	eadlights (Beam 12m),		
Drive Train: Wheeled (4)		Brakelights	Brakelights (Area 1.5m)		
Crew: 1					
Passengers: 5		Sensors:			
Cargo Space: 268vl					
Fuel: 245vl					
Range: 1050km		Comm.:			
Speeds: Acceleration = 15kph					
Offroad = 25kph Cruising = 75kph	Very Slow Fast = 112		Slow = 37kph Maximum = 150kph		
Other Equipment:					

TAS Form 3.1v (Condensed)

TL5 Design Specifications Installed Components 2000vl Chassis Controls Drive Train, Wheeled (4) Int. Combustion Power Plant Fuel Passengers Seating (5) 2 Headlights, Beam (12m) 2 Brakelights, Illumination Cargo/Luggage	Size +2000 -400 -360 -175 -245 -550 -1.6 -0.4 -268	Cost 2000 1000 1500 1750 - 500 40 10	EP - -30 +35 - - -0.08 -0.02
Cargo/Luggage Totals	-268 +0	- Cr6800 (- Cr5440 with 20% standard design discount)

Small Cargo Truck Huge Ground Vehicle

TL5, Cr12,320, 5000vl. A typical, no-frills commercial delivery/cargo truck with a 2500kg cargo capacity. The truck only has room for one passenger other than the driver. These cargo trucks have an average speed of 60kph and are capable of top speeds reaching 120kph. At cruising speed, a cargo truck has a range of 480km.

At TL7, an optional Climate Control system becomes available for a cost of Cr2000. It requires 50vl of space and 0.5EP of power.

Small Cargo T	ruck			
Class: Ground Vehic	cle	EP Outpu	It: 65 (4.9 excess)	
Cost: Cr12,320		Agility: 0		
Tech Level: 5		Initiative:	+0	
Size: Huge (5000vl)		AC: 8 (-2	size)	
Streamlining: Stand	lard	AR: 0		
Pressurized? No		SI: 57		
Climate Control? TL	_7 Option	Visual: He	eadlights (Beam 12m),	
Drive Train: Wheele	d (6)	Brakelight	s (Area 1.5m)	
Crew: 1				
Passengers: 1 Se		Sensors:		
Cargo Space: 2523	/			
Fuel: 260vl				
Range: 480km		Comm.:		
Speeds: Acceleration = 12kph	ı			
Offroad = 12kph Cruising = 60kph	Very Slow Fast = 80k		Slow = 40kph Maximum = 120kph	
Other Equipment:				

TAS Form 3.1v (Condensed)

TL5 Design Specifications			
Installed Components	Size	Cost	EP
5000vl Chassis	+5000	5000	-
Controls	-1000	2500	-
Drive Train, Wheeled (6)	-780	4500	-60
Int. Combustion Power Plant	-325	3250	+65
Fuel	-260	-	-
Passengers Seating (1)	-110	100	-
2 Headlights, Beam (12m)	-1.6	40	-0.08
2 Brakelights, Illumination	-0.4	10	-0.02
Cargo/Luggage	-2523	-	-
Totals	+0	Cr15,400) (Cr12,320 with 20% standard design discount)

Wheeled All Terrain Vehicle

Huge Ground Vehicle

TL12, Cr49,680, 10,000vl. An 8-wheeled vehicle intended for world surface exploration, or for transport across undeveloped areas. An all terrain vehicle (abbreviated ATV) has a range of 5000 km, cruises on roads at 50 kph, and can achieve a maximum speed of 100 kph. Off roads, speed depends on terrain; on open plain, it will approach normal road performance while in difficult terrain average speed will be 25 kph or less. An ATV may be powered by a battery recharged from a ship's power plant, or it may contain a small fusion pack requiring hydrogen or water for fuel. The ATV is designed to serve on many different worlds under widely varying conditions, including vacuum and insidious atmospheres, and high or low gravity. An ATV requires one driver and may carry up to 16 passengers. The interior of the vehicle is fully pressurized and contains complete (though cramped) eating, sleeping, and travel facilities for eight. The wheeled ATV typically has 8 large, gel-filled tires. These are self-sealing and provide sufficient buoyancy to allow the ATV to float in reasonably calm water. Slow headway can be made using water jet propulsion.

Wheeled All Terrain Vehicle (ATV)

	main ve				
Class: Ground Vehicle	e	EP Output	t: 120 (6.4 excess)		
Cost: Cr52,880		Agility: 0	Agility: 0		
Tech Level: 12		Initiative: +0			
Size: Huge (10,000vl)		AC: 8 (-2 s	AC: 8 (-2 size)		
Streamlining: Standa	rd	AR: 0	AR: 0		
Pressurized? Yes		SI: 65			
Climate Control? Yes	3	Visual: He	adlights (Beam 12m),		
Drive Train: Wheeled	(8)	Brakelights	Brakelights (Area 1.5m)		
Crew: 1					
Passengers: 8 (16)		Sensors:			
Cargo Space: 2138vl					
Fuel: 600vl					
Range: 5000km		Comm.:			
Speeds:					
Acceleration = 10kph					
•	Very Slow	•	Slow = 25kph		
Cruising = 50kph		•	•		
Other Equipment: Ga	alley facilitie	es for 16, fre	sher.		

TAS Form 3.1v (Condensed)

Vehicle Data (Commercial)

TL12 Design Specifications

Installed Components	Size	Cost	EP
10,000vl Chassis	+10,000	10,000	-
Pressurized Interior	-500	12,500	-12.5
Climate Control	-100	5,000	-1
Drive Train, Wheeled (8)	-1400	10,000	-100
Advance Fuel Cell	-180	12,000	+120
Fuel	-600	-	-
Controls	-2000	5000	-
Passengers Seating (8)	-880	800	-
Passengers Bunks (8)	-1200	2000	-
Galley Facilities (8)	-800	4000	-
Fresher Facilities (1)	-200	750	-
2 Headlights, Beam (12m)	-1.6	40	-0.08
2 Brakelights, Illumination	-0.4	10	-0.02
Cargo/Luggage	-2138	-	-
Totals	+0	Cr62,100) (Cr49,680 with 20% standard design discount)

Tracked All Terrain Vehicle

Huge Ground Vehicle

TL12, Cr48,080, 10,000vl. The tracked ATV is a somewhat slower version of the wheeled ATV, but with better off-road speed and handling. An all terrain vehicle (abbreviated ATV) has a range of 5000 km, cruises on roads at 40 kph, and can achieve a maximum speed of 80 kph. Off roads, speed depends on terrain; on open plain, it will approach normal road performance, while in difficult terrain, average speed will be 25 kph or less. An ATV may be powered by a battery recharged from a ship's power plant, or it may contain a small fusion pack, requiring hydrogen or water for fuel. The ATV is designed to serve on many different worlds under widely varying conditions, including vacuum and insidious atmospheres, and high or low gravity. A tracked ATV requires one driver, and may carry up to 16 passengers. The interior of the vehicle is fully pressurized and contains complete (though cramped) eating, sleeping, and travel facilities for eight. Harsh terrain performance is better than for the wheeled variant, but a tracked ATV cannot float.

Tracked All Terrain Vehicle (ATV)

		••••		
Class: Ground Vehicle	EP Outp	ut: 180 (6.4 excess)		
Cost: Cr51,280	Agility: (Agility: 0		
Tech Level: 12	Initiative	Initiative: +0		
Size: Huge (10,000vl)	AC: 8 (-2	AC: 8 (-2 size)		
Streamlining: Standard	AR: 0	AR: 0		
Pressurized? Yes	SI: 65			
Climate Control? Yes	Visual: ⊦	leadlights (Beam 12m),		
Drive Train: Tracked (2)	Brakeligh	nts (Area 1.5m)		
Crew: 1				
Passengers: 8 (16)	Sensors	:		
Cargo Space: 1483vl				
Fuel: 1125vl				
Range: 5000km	Comm.:	Comm.:		
Speeds:				
Acceleration = 8kph				
•	y Slow = 8kph	Slow = 20kph		
Cruising = 40kph Fas		Maximum = 80kph		
Other Equipment: Galley	facilities for 16, f	resher.		

TAS Form 3.1v (Condensed)

TL12 Design Specifications

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Installed Components	Size	Cost	EP
Chassis	+10,000	10,000	-
Pressurized Interior	-500	12,500	-12.5
Climate Control	-100	5,000	-1
Drive Train, Tracked (2)	-1440	2,000	-160
Advance Fuel Cell	-270	18,000	+180
Fuel	-1125	-	-
Controls	-2000	5000	-
Passengers Seating (8)	-880	800	-
Passengers Bunks (8)	-1200	2000	-
Galley Facilities (8)	-800	4000	-
Fresher Facilities (1)	-200	750	-
2 Headlights, Beam (12m)	-1.6	40	-0.08
2 Brakelights, Illumination	-0.4	10	-0.02
Cargo/Luggage	-1483	-	-
Totals	+0	Cr60,100	(Cr48,080 with 20% standard design discount)
			. ,

Wheeled Armored Fighting Vehicle

Huge Ground Vehicle

TL12, Cr71,080, 10,000vl. Many designs of armored fighting vehicle (abbreviated AFV) exist, at a range of tech levels and capabilities. This representative design is similar to the wheeled ATV, and can be used as an exploration vehicle. It has a range of 5000 km, cruises on roads at 50 kph, and can achieve a maximum speed of 100 kph. Off roads, speed depends on terrain; on open plain, it will approach normal road performance, while in difficult terrain, average speed will be 13 kph or less. An AFV may be powered by a battery recharged from a ship's power plant, or it may contain a small fusion pack, requiring hydrogen or water for fuel. Mid-tech AFVs are local to a single world; higher-tech versions are usually designed to be tolerant of varying conditions and can thus serve on many worlds and under widely varying conditions, including vacuum and insidious atmospheres, and high or low gravity. An AFV requires one driver, may carry one additional crewmember that operates the weapon system, and is capable of transporting up to 22 soldiers. The interior of the vehicle is fully pressurized. Like its ATV cousin, the Wheeled AFV can float and make headway in calm water.

Wheeled Armored Fighting Vehicle (AFV)

Class: Ground Vehicl	e		t: 120 (2.2 excess)	Heavy Manned Turret:
Cost: Cr71,080		Agility: 0	. ,	Medium Lasers (x3),
Tech Level: 12		Initiative:	+0	Attack Bonus +0,
Size: Huge (10,000vl)		AC: 14 (+6	6 armor, -2 size)	Damage 5d10.
Streamlining: Standa	ard	AR: 6		
Pressurized? Yes		SI: 65		
Climate Control? Yes	s	Visual: He	eadlights (Beam 12m),	
Drive Train: Wheeled	(8)	Brakelights	s (Area 1.5m)	
Crew: 1				
Passengers: 22		Sensors:		
Cargo Space: 798vl				
Fuel: 600vl				
Range: 5000km		Comm.:		
Speeds: Acceleration = 10kph				
Offroad = 25kph Cruising = 50kph	Very Slow Fast = 75k		Slow = 25kph Maximum = 100kph	
Other Equipment:				

TAS Form 3.1v (Condensed)

TL12 Design Specifications	
Installed Components	Si

Installed Components	Size	Cost	EP
Chassis	+10,000	10,000	-
TL12 Armor (AR6)	-1400	15,600	-
Pressurized Interior	-500	12,500	-12.5
Climate Control	-100	5,000	-1
Drive Train, Wheeled (8)	-1400	10,000	-100
Advance Fuel Cell	-180	12,000	+120
Fuel	-600	-	-
Controls	-2000	5000	-
Passengers Seating (22)	-2420	2200	-
2 Headlights, Beam (12m)	-1.6	40	-0.08
2 Brakelights, Illumination	-0.4	10	-0.02
Heavy Manned Turret	-600	6000	-1.2
Medium Lasers (3)	(-300)	10,500	-3
Cargo/Luggage	-798	-	-
Totals	+0	Cr88,850	(Cr71,080 with 20% standard design discount)

Tracked Armored Fighting Vehicle

Huge Ground Vehicle

TL12, Cr69,480, 10,000vl. The tracked AFV is a somewhat slower version of the wheeled AFV, but with better off-road speed and handling. It has a range of 5000 km, cruises on roads at 40 kph, and can achieve a maximum speed of 80 kph. Off roads, speed depends on terrain; on open plain, it will approach normal road performance, while in difficult terrain, average speed will be 20 kph or less. An AFV may be powered by a battery recharged from a ship's power plant, or it may contain a small fusion pack, requiring hydrogen or water for fuel. The AFV is designed to serve on many different worlds under widely varying conditions, including vacuum and insidious atmospheres, and high or low gravity. An AFV requires one driver, may carry one additional crewmember that operates the weapon system, and is capable of transporting up to 22 soldiers. The interior of the vehicle is fully pressurized but has no eating, sleeping, etc facilities for four. Tracked AFVs do not float.

Tracked Armored Fighting Vehicle (AFV)

In a children of a filler	où i igii	ing to		
Class: Ground Vehicle	e	EP Output	t: 180 (2.2 excess)	Heavy Manned Turret:
Cost: Cr69,480		Agility: 0		Medium Lasers (x3),
Tech Level: 12		Initiative:	+0	Attack Bonus +0,
Size: Huge (10,000vl)		AC: 14 (+6	6 armor, -2 size)	Damage 5d10.
Streamlining: Standa	rd	AR: 6		
Pressurized? Yes		SI: 65		
Climate Control? Yes	5	Visual: He	eadlights (Beam 12m),	
Drive Train: Tracked	(2)	Brakelights	s (Area 1.5m)	
Crew: 1				
Passengers: 22		Sensors:		
Cargo Space: 143vl				
Fuel: 1125vl				
Range: 5000km		Comm.:		
Speeds:				
Acceleration = 8kph				
Offroad = 25kph	Very Slow	= 8kph	Slow = 20kph	
Cruising = 40kph	Fast = 60k	(ph	Maximum = 80kph	
Other Equipment:				

TAS Form 3.1v (Condensed)

TL12 Design Specifications

TETE Besign opcomoutons			
Installed Components	Size	Cost	EP
Chassis	+10,000	10,000	-
TL12 Armor (AR6)	-1400	15,600	-
Pressurized Interior	-500	12,500	-12.5
Climate Control	-100	5,000	-1
Drive Train, Tracked (2)	-1440	2,000	-160
Advance Fuel Cell	-270	18,000	+180
Fuel	-1125	-	-
Controls	-2000	5000	-
Passengers Seating (22)	-2420	2200	-
2 Headlights, Beam (12m)	-1.6	40	-0.08
2 Brakelights, Illumination	-0.4	10	-0.02
Heavy Manned Turret	-600	6000	-1.2
Medium Lasers (3)	(-300)	10,500	-3
Cargo/Luggage	-143	-	-
Totals	+0	86,850 (6	59,480 with 20% standard design discount)

AIR CUSHION VEHICLES

Hovercraft

Huge Air Cushion Vehicle TL7, Cr347,200, 8000vl. Hovercraft are supported on a cushion of air (at about 1 to 3 meters altitude). Usable only on worlds with an atmosphere of 4 or greater, a hovercraft is capable of cruise speeds of 75kph, with bursts of speed up to 150kph. Distance between refuelings is 375km. Hovercraft may move over both land and water with equal ease, but encounter difficulty with broken ground, precipices, or storms. A crew of one is sufficient to operate the vehicle; hovercraft can carry up to 15 passengers plus the operator. Cargo capacity is 2905kg. No armor or weaponry is generally provided.

Hovercraft

Class: Air Cushion Ve	ehicle	EP Outpu	t: 400 (98.47 excess)		
Cost: Cr347,200		Agility: 3	Agility: 3		
Tech Level: 7		Initiative:	Initiative: +3 (+3 agility)		
Size: Huge (8000vl)		AC: 11 (-2	AC: 11 (-2 size, +3 agility)		
Streamlining: Standa	ird	AR: 0	AR: 0		
Pressurized? No		SI: 61			
Climate Control? Yes	S	Visual: Sp	ootlight (Beam 120m)		
Drive Train: Air Cushi	ion				
Crew: 1					
Passengers: 15		Sensors:	Radar (5km)		
Cargo Space: 2905vl					
Fuel: 500vl					
Range: 375km		Comm.: 2	-way Radio (500km)		
Speeds: Acceleration = 15kph					
Offroad = 47kph Cruising = 75kph	Very Slow Fast = 112		Slow = 37kph Maximum = 150kph		
Other Equipment:					

TAS Form 3.1v (Condensed)

TL7 Design Specifications

Installed Components	Size	Cost	EP
8000vl Chassis Climate Control Drive Train, Air Cushion Turbine Power Plant Fuel Controls Passengers Seating (15) Spotlight, Beam (120m) Radar 2-way Radio (500km) Cargo/Luggage	+8000 -80 -450 -500 -1600 -1650 -8 -5 -2 -2905	8000 4000 126,000 40,000 - 4000 1500 200 250,000 300 -	- -0.8 -300 +400 - - - -0.4 -0.25 -0.08
Totals	+0	01434,00	00 (Cr347,200 with 20% standard design discount)

AIRCRAFT

Primitive Biplane

Large Aircraft TL5, Cr11,840, 1000vl. A very small early model aircraft. It can achieve a cruise speed of 100kph, with bursts up to a maximum of 200kph; range is 300km or roughly 3 hours flying time at cruising speed. The biplane's engine depends on chemical fuel. The plane carries two; the pilot and a passenger, and can also carry up to 549kg of cargo.

Primitive Bipla	ne			
Class: Aircraft		EP Output	t: 14 (4 excess)	
Cost:		Agility: 1		
Tech Level: 5		Initiative:	+1 (+1 agility)	
Size: Large (1000vl)		AC: 10 (+1	agility, -1 size)	
Streamlining: Standa	ird	AR: 0		
Pressurized? No		SI: 35		
Climate Control? No		Visual:		
Drive Train: Propeller	•			
Crew: 1				
Passengers: 1		Sensors:		
Cargo Space: 549vl				
Fuel: 21vl				
Range: 300km		Comm.:		
Speeds:				
Acceleration = 20kph				
Offroad = n/a	Stall = 20k	kph	Slow = 50kph	
Cruising = 100kph	Fast = 150)kph	Maximum = 200kph	
Other Equipment:				

TAS Form 3.1v (Condensed)

Vehicle Data (Commercial)

TL5 Design Specifications

Installed Components	Size	Cost	EP
1000vl Chassis	+1000	1000	-
Drive Train, Propeller	-50	12,500	-10
Int. Combustion Power Plant	-70	700	+14
Fuel	-21	-	-
Controls	-200	500	-
Passengers Seats (1)	-110	100	-
Cargo/Luggage	-549	-	-
Totals	+0	Cr14,800	0 (Cr11,840 with 20% standard design discount)

Cargo Plane Huge Aircraft TL5, Cr364,000, 10,000vl. A twin propeller monowing aircraft intended for cargo transport. The plane cruises at 300kph (maximum speed is 600kph) with a range of 3600km. Fuel is standard chemical fuel. The craft requires a crew of two (only one of whom needs pilot skill and the appropriate vehicle feat) and carry six passengers and roughly 2 metric tons of cargo.

Class: Aircraft		EP Output	:: 330 (29.92 excess))
Cost: Cr364,000		Agility: 0		
Tech Level: 5		Initiative:	+0	
Size: Huge (10,000vl)		AC: 8 (-2 s	size)	
Streamlining: Partial		AR: 0		
Pressurized? No		SI: 65		
Climate Control? No		Visual:		
Drive Train: Propeller	⁻ (2)			
Crew: 2				
Passengers: 6		Sensors:		
Cargo Space: 1948vl				
Fuel: 1980vl				
Range: 3600km		Comm.: 2-	way Radio (500km)	
Speeds:				
Acceleration = 60kph				
Offroad = n/a	Stall = 60k	ph	Slow = 150kph	
Cruising = 300kph	Fast = 450	kph	Maximum = 600kph	ı I
Other Equipment:				

TAS Form 3.1v (Condensed)

Vehicle Data (Commercial)

TL5 Design Specifications

		- ·	
Installed Components	Size	Cost	EP
10,000vl Chassis	+10,000	10,000	-
Partial Streamlining	-	10,000	-
Drive Train, Propeller (2)	-1650	412,500	-300
Int Combustion Power Plant	-1650	16,500	+330
Fuel	-1980	-	-
Controls	-2000	5000	-
Passengers Seats (7)	-770	700	-
2-way Radio (500km)	-2	300	-0.08
Cargo/Luggage	-1948	-	-
Totals	+0	Cr455,00	00 (Cr364,000 with 20% standard design discount)

Cargo Jet Huge Aircraft TL7, MCr1.794, 12,000vl. A twin jet monowing aircraft intended for cargo transport. The plane cruises at 660kph, has a maximum safe speed of 1100kph (technically 1320 but limited by the airframe configuration) with a range of 3960km. Fuel is standard chemical jet fuel. The craft requires a crew of two, only one of whom needs pilot skill and the appropriate vehicle feat, carries up to six passengers and roughly 5 metric tons of cargo.

Cargo Jet				
Class: Aircraft		EP Outpu	t: 230 (14.67 excess)	
Cost: Cr1,794,400		Agility: 0		
Tech Level: 6		Initiative:	+0	
Size: Huge (12,000vl)		AC: 8 (-2 s	size)	
Streamlining: Airfram	ne	AR: 0		
Pressurized? Yes		SI: 69		
Climate Control? No		Visual:		
Drive Train: Jet (2)				
Crew: 2				
Passengers: 6		Sensors:	Radar (5km)	
Cargo Space: 5218vl				
Fuel: 345vl				
Range: 3960km		Comm.: 2	-way Radio (500km)	
Speeds:				
Acceleration = 132kpł	า			
Offroad = n/a	Stall = 132	2kph	Slow = 330kph	
Cruising = 660kph	Fast = 990	Okph	Maximum = 1320kph	
Other Equipment:				

TAS Form 3.1v (Condensed)

Vehicle Data (Commercial)

TL6 Design Specifications

· _ · · · · · · · · · · · · · · · ·			
Installed Components	Size	Cost	EP
12,000vl Chassis	+12,000	12,000	-
Airframe	-	36,000	-
Pressurized Interior	-600	15,000	-15
Drive Train, Jet (2)	-2200	MCr1.9	-200
Turbine Power Plant	-460	23,000	+230
Fuel	-345	-	-
Controls	-2400	6000	-
Passengers Seats (7)	-770	700	-
Radar	-5	250,000	-0.25
2-way Radio (500km)	-2	300	-0.08
Cargo/Luggage	-5218	-	-
Totals	+0	Cr2,243,	000 (Cr1,794,400 with 20% standard design discount)

Helicopter Huge Aircraft

TL5, Cr82,760, 5,000vl. Single engine rotary wing aircraft capable of vertical take-off and landing, as well as maneuvering in tight places. The helicopter can cruise at 125kph with a top speed of 250kph; range is 750km at cruising speed or roughly 6 hours. The vehicle requires a crew of 1 (the pilot) and can carry 7 passengers and up to roughly additional 1 metric ton of cargo.

Helicopter Class: Aircraft		EP Output	t: 225 (15 excess)	
Cost: Cr82,760		Agility: 0		
Tech Level: 5		Initiative:	+0	
Size: Huge (5000vl)		AC: 8 (-2 s	size)	
Streamlining: Standa	rd	AR: 0		
Pressurized? No		SI: 55		
Climate Control? No		Visual:		
Drive Train: Rotary W	/ing			
Crew: 1				
Passengers: 7		Sensors:		
Cargo Space: 905vl				
Fuel: 675vl				
Range: 750km		Comm.:		
Speeds: Acceleration = 25kph				ĺ
Offroad = n/a Cruising = 125kph	Very Slow Fast = 187	•	Slow = 62kph Maximum = 250kph	
Other Equipment:				

TAS Form 3.1v (Condensed)

Vehicle Data (Commercial)

TL5 Design Specifications

TEO Design Opeemoutons			
Installed Components	Size	Cost	EP
5000vl Chassis	+5,000	5,000	-
Drive Train, Rotary WIng	-525	84,000	-210
Int Combustion Power Plant	-1125	11,250	+225
Fuel	-675	-	-
Controls	-1000	2500	-
Passengers Seats (7)	-770	700	-
Cargo/Luggage	-905	-	-
Totals	+0	Cr103,45	50 (Cr82,760 with 20% standard design discount)

GRAV VEHICLES

Air/raft

Huge Grav Vehicle

TL8, Cr273,200, 6000vl. A light anti-gravity ("grav") vehicle which uses null-grav modules (often known as "lifters") to counteract gravity for lift and propulsion. An air/raft can cruise at 60kph (but is extremely subject to wind effects), with some capable of higher speed to about 120kph. An air/raft can reach orbit in several hours (number of hours equal to planetary size digit in the UWP); passengers must wear vac suits for this journey. Interplanetary travel in an air/raft is not possible. Range on a world is effectively unlimited, requiring refueling once per week. An air/raft can carry the pilot and up to 3 passengers plus roughly 4 metric tons of cargo. They are usually unpressurized and open-topped.

Air/raft

Class: Grav Vehicle		EP Output	t: 10 (2.8 excess)	
Cost: Cr273,200		Agility: 0		
Tech Level: 8		Initiative:	+0	
Size: Huge (6000vl)		AC: 8 (-2 s	size)	
Streamlining: Standa	rd	AR: 0		
Pressurized? No		SI: 57		
Climate Control? No		Visual:		
Drive Train: Grav				
Crew: 1				
Passengers: 3		Sensors:		
Cargo Space: 4001.2	vl			
Fuel: 420vl				
Range: 1 week		Comm.:		
Speeds:				
Acceleration = 12kph				
	Very Slow		Slow = 30kph	
Cruising = 60kph	Fast = 90k	ph	Maximum = 120kph	
Other Equipment:				

TAS Form 3.1v (Condensed)

Vehicle Data (Commercial)

TL8 Design Specifications

Installed Components	Size	Cost	EP
6000vl Chassis Drive Train, Grav Turbine Power Plant Fuel Controls	+6000 -28.8 -20 -420 -1200	6000 331,200 1000 - 3000	- -7.2 +10 -
Passengers Seats (3) Cargo/Luggage <i>Totals</i>	-330 -4001.2 +0	300 - Cr341,50	- - 00 (Cr273,200 with 20% standard design discount)

Pressurized Air/raft

Huge Grav Vehicle TL8, Cr376,000, 8000vl. A slightly larger, enclosed and pressurized version of the basic air/raft. Performance, cargo and passenger capacities are roughly the same as the basic air/raft.

Pressurized Air	r/raft			
Class: Grav Vehicle		EP Output	t: 21 (0.6 excess)	
Cost: Cr376,000		Agility: 0		
Tech Level: 8		Initiative:	+0	
Size: Huge (8000vl)		AC: 8 (-2 s	size)	
Streamlining: Standa	rd	AR: 0		
Pressurized? Yes		SI: 61		
Climate Control? Yes	3	Visual:		
Drive Train: Grav				
Crew: 1				
Passengers: 3		Sensors:		
Cargo Space: 4627.6				
Fuel: 882vl				
Range: 1 week		Comm.:		
Speeds:				
Acceleration = 12kph				
Offroad = n/a	Very Slow		Slow = 30kph	
Cruising = 60kph	Fast = 90k	ph	Maximum = 120kph	1
Other Equipment:				

TAS Form 3.1v (Condensed)

Vehicle Data (Commercial)

TL8 Design Specifications

TLo Design Specifications			
Installed Components	Size	Cost	EP
8000vl Chassis	+8000	8000	-
Pressurized Interior	-400	10,000	-10
Climate Control	-80	4,000	-0.8
Drive Train, Grav	-38.4	441,600	-9.6
Turbine Power Plant	-42	2100	+21
Fuel	-882	-	-
Controls	-1600	4000	-
Passengers Seats (3)	-330	300	-
Cargo/Luggage	-4627.6	-	-
Totals	+0	Cr470,00	00 (376,000 with 20% standard design discount)

GCarrier

Huge Grav Vehicle

TL8, Cr506,880, 10,000vl. An enclosed military or quasi-military grav vehicle. The GCarrier is an armored air/raft type vehicle intended originally for troop carrier duties. Performance is similar to that of the air/raft, but the vehicle generally has a gun mount and is armored. It requires a crew of one (with pilot skill and the Vessel/grav feat), plus a gunner for the craft's weapon, if any. It can carry 14 persons (including the driver and gunner), plus roughly 1.1 metric tons of cargo.

GCarrier

••••				
Class: Grav Vehicle		EP Outpu	t: 30 (0.3 excess)	Heavy Manned Turret:
Cost: Cr506,880		Agility: 0		Medium Lasers (x3),
Tech Level: 8		Initiative:	+0	Attack Bonus +0,
Size: Huge (10,000vl)	AC: 14 (+6	6 armor, -2 size)	Damage 5d10.
Streamlining: Standa	ard	AR: 6		
Pressurized? Yes		SI: 65		
Climate Control? Ye	S	Visual:		
Drive Train: Grav				
Crew: 2				
Passengers: 12		Sensors:		
Cargo Space: 1092v	I			
Fuel: 1260vl				
Range: 1 week		Comm.:		
Speeds:				
Acceleration = 12kph				
Offroad = n/a	Very Slow	= 12kph	Slow = 30kph	
Cruising = 60kph	Fast = 90k	kph	Maximum = 120kph	
Other Equipment:				

TAS Form 3.1v (Condensed)

TL8 Design Specifications			
Installed Components	Size	Cost	EP
10,000vl Chassis	+10,000	10,000	-
TL8 Armor (AC6)	-2800	28,200	-
Pressurized Interior	-500	12,500	-12.5
Climate Control	-100	5,000	-1
Drive Train, Grav	-48	552,000	-12
Turbine Power Plant	-60	3000	+30
Fuel	-1260	-	-
Controls	-2000	5000	-
Passengers Seats (14)	-1540	1400	-
Heavy Manned Turret	-600	6000	-1.2
Medium Lasers (3)	(-300)	10,500	-3
Cargo/Luggage	-1092	-	-
Totals	+0	Cr633,60	00 (Cr506,880 with 20% standard design discount)

Speeder

Huge Grav Vehicle

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TL8, MCr3.950, 8000vl. A streamlined grav-powered craft intended for high-speed transport between points on a world's surface. Similar in principle to the air/raft and the GCarrier, the speeder is streamlined and optimized for speed. It is capable of 720 kph cruise speed, with a top speed of 1320kph (though maximum safe speed is only 1100kph), and has a virtually unlimited range. Refueling is required only once per week. The speeder carries a pilot (who requires the pilot skill and the Vessel/grav feat), a single passenger, and 238kg of cargo. The speeder is capable of reaching orbit within an hour.

Speeder					
Class: Grav Vehicle		EP Outpu	EP Output: 117 (0.2 excess)		
Cost: Cr3,950,240		Agility: 0	Agility: 0		
Tech Level: 8		Initiative:	+0		
Size: Huge (8000vl)		AC: 8 (-2 s	size)		
Streamlining: Airfram	ne	AR: 0			
Pressurized? Yes		SI: 61			
Climate Control? Yes	s	Visual:			
Drive Train: Grav					
Crew: 1					
Passengers: 1		Sensors:			
Cargo Space: 238vl					
Fuel: 4872vl					
Range: 1 week		Comm.:			
Speeds: Acceleration = 132kpt	ı				
Offroad = n/a Cruising = 660kph	Very Slow	= 132kph)kph	Slow = 330kph Maximum = 1320kph		
Other Equipment:		·			

TAS Form 3.1v (Condensed)

Vehicle Data (Commercial)

TL8 Design Specifications

	Lo Design Specifications			
1	Installed Components	Size	Cost	EP
8	3000vl Chassis	+8000	8000	-
1	Airframe	-	24,000	-
I	Pressurized Interior	-400	10,000	-10
(Climate Control	-80	4,000	-0.8
I	Drive Train, Grav	-424	MCr4.87	6-106
-	Turbine Power Plant	-234	11,700	+117
I	Fuel	-4914	-	-
(Controls	-1600	4000	-
ł	Passengers Seats (1)	-110	100	-
(Cargo/Luggage	-238	-	-
	Totals	+0	Cr4,937,	800 (Cr3,950,240 with 20% standard design discount)

Grav Belt

Medium Grav Vehicle

TL12, Cr9292, 200vl. Personal anti-gravity transportation using a single null-gravity module and a personal harness. Performance is similar in speed to the air/raft, but with a four-week operational range.

Grav Belt

Olur Bolt				
Class: Grav Vehicle		EP Output	t: 1 (0.76 excess)	
Cost: Cr9292		Agility: 1		
Tech Level: 12		Initiative:	+1 (+1 agility)	
Size: Medium (200vl)		AC: 11 (+1	1 agility)	
Streamlining: Standa	ard	AR: 0		
Pressurized? No		SI: 12		
Climate Control? No		Visual:		
Drive Train: Grav				
Crew: 1				
Passengers: 0		Sensors:		
Cargo Space: 53.94v	rl			
Fuel: 33.6				
Range: 4 weeks		Comm.:		
Speeds:				
Acceleration = 12kph				
Offroad = n/a	Very Slow		Slow = 30kph	
Cruising = 60kph	Fast = 90k	rph	Maximum = 120kph	
Other Equipment:				

TAS Form 3.1v (Condensed)

Vehicle Data (Commercial)

TL12 Design Specifications

TETE Design opecifications	3		
Installed Components	Size	Cost	EP
200vl Chassis	+200	200	-
Drive Train, Grav	-0.96	11,040	-0.24
Adv Fuel Cell Power Plant	-1.5	100	+1
Fuel	-33.6	-	-
Controls	-110	275	-
Cargo/Luggage	-53.94	-	-
Totals	+0	Cr11,615	6 (Cr9292 with 20% standard design discount)

WATERCRAFT

Small Steamship

Colossal Watercraft TL4, Cr334,600, 150,000vl. Vessels of this type vary widely; most are capable of 30 kph for up to a week of travel, and a maximum speed of 60kph. Fuel is some form of basic combustible. The ship can carry a crew of five, ten passengers, and approximately 46 metric tons of cargo.

Small Steamship			
Class: Watercraft	EP Outp	out: 460 (10 excess)	
Cost: Cr334,600	Agility:	0	
Tech Level: 4	Initiative	e: +0	
Size: Colossal (150,000vl)	AC: 2 (-8	3 size)	
Streamlining: Standard	AR: 0		
Pressurized? No	SI: 104		
Climate Control? No	Visual:		
Drive Train: Surface Water			
Crew: 5			
Passengers: 10	Sensors	:	
Cargo Space: 46,730vl			
Fuel: 19,320vl			
Range: 1 week	Comm.:		
Speeds: Acceleration = 6kph			
Offroad = n/a Very Sk Cruising = 30kph Fast = 4	ow = 6kph 15kph	Slow = 15kph Maximum = 60kph	
Other Equipment:			

TAS Form 3.1v (Condensed)

TL4 Design Specifications

IL+ Design Specifications			
Installed Components	Size	Cost	EP
150,000vl Chassis	+150,000	150,000	-
Drive Train, Surface Water	-11,250	56,250	-450
Steam Power Plant	-11,500	11,500	+460
Fuel	-19,320	-	-
Controls	-30,000	75,000	-
Passenger Small Cabins (15)	-30,000	120,000	-
Galley Facilities (8)	-800	4000	-
Fresher Facilities (2)	-400	1500	-
Cargo/Luggage	-46,730	-	-
Totals	+0	Cr418,25	0 (Cr334,600 with 20% standard design discount)

Hydrofoil Gargantuan Watercraft TL7, Cr197,200, 60,000vl. The hydrofoil can cruise at 50kph, with bursts of speed to 100kph. The ship's engines depend on local fuel sources, such as hydrocarbons or electric batteries; with a full tank of fuel, a hydrofoil can operate for a week at cruising speed. A crew of three operates the craft, which carries eight passengers and nearly 5 metric tons of cargo.

Hydrofoil				
Class: Watercraft		EP Outpu	t: 310 (10 excess)	
Cost: Cr197,200		Agility: 0		
Tech Level: 7		Initiative:	+0	
Size: Gargantuan (60	,000vl)	AC: 6 (-4 :	size)	
Streamlining: Standa	ard	AR: 0		
Pressurized? No		SI: 86		
Climate Control? No	ı	Visual:		
Drive Train: Surface	Water			
Crew: 3				
Passengers: 8		Sensors:		
Cargo Space: 4,860	/I			
Fuel: 13,020vl				
Range: 1 week		Comm.:		
Speeds: Acceleration = 10kph				
Offroad = n/a	Very Slow	= 10kph	Slow = 25kph	
Cruising = 50kph	Fast = 75k	ph	Maximum = 100kph	
Other Equipment:				
TAS Form 3 1v (Con	doneod)			Vehicle Data (Commercia

TAS Form 3.1v (Condensed)

Vehicle Data (Commercial)

TL7 Design Specifications

TEr Design opecifications			
Installed Components	Size	Cost	EP
60,000vl Chassis	+60,000	60,000	-
Drive Train, Surface Water	-7500	37,500	-300
Turbines	-620	31,000	+310
Fuel	-13,020	-	-
Controls	-12,000	30,000	-
Passenger Small Cabins (11)	-22,000	88,000	-
Cargo/Luggage	-4,860	-	-
Totals	+0	Cr246,50	0 (Cr197,200 with 20% standard design discount)

Submersible

Colossal Watercraft

TL6, MCr1.872, 500,000vl. Underwater vessels intended to avoid surface weather conditions for safety and convenience. On worlds with large water percentages (especially level A) submersibles ply the routes between underwater domed cities. The submersible is capable of a maximum speed of 40kph on the surface in good weather, and about half that underwater. It has an average 9-day endurance (72 hours submerged), and depends on local energy sources for refueling or recharging. It has a crew of five and facilities for ten passengers and approximately 51 metric tons of cargo.

Submersible

Capillolololo				
Class: Watercraft		EP Output 1650 (25 e	t: 2650 (25 excess) / excess)	
Cost:		Agility: 0		
Tech Level: 6		Initiative: +0		
Size: Colossal (500,0	00vl)	AC: 2 (-8 s	size)	
Streamlining: No		AR: 0		
Pressurized? Yes		SI: 148		
Climate Control? No		Visual:		
Drive Train: Water				
Surface/Subsurface				
Crew: 5				
Passengers: 10		Sensors:		
Cargo Space: 51,030	vl			
Fuel: 178,200vl				
Range: 216 hours / 72	2 hours	Comm.:		
Speeds:				
Acceleration = 4kph				
Underwater = 20kph			Slow = 10kph	
Cruising = 20kph	Fast = 30	kph	Maximum = 40kph	
Other Equipment:				

TAS Form 3.1v (Condensed)

TL6 Design Specifications

120 Boolgii opooliiouliolio			
Installed Components	Size	Cost	EP
500,000vl Chassis	+500,000	500,000	-
Pressurized Interior	-25,000	625,000	-625
Drive Train, Surface Water	-25,000	125,000	-1000
Drive Train, Subsurface Water	-20,000	250,000	-2000
Int Combustion Power Plant	-8250	82,500	+1650
Crude Batteries	-76,320	381,600	+2650
Fuel	-178,200	-	-
Controls	-100,000	250,000	-
Passengers Small Cabins (15)	-15,000	120,000	-
Galley Facilities (8)	-800	4000	-
Fresher Facilities (2)	-400	1500	-
Cargo/Luggage	-51,030	-	-
Totals	+0	Cr2,339,60	0 (Cr1,871,680 with 20% standard design discount)

Smallcraft Designs

<i>Type</i> Launch (lifeboat) Ship's Boat Slow Boat Pinnace Slow Pinnace Modular Cutter ATV Module Fuel Module Open Module Shuttle	<i>TL</i> 9 9 10 9 - - -	Cost MCr11.282 MCr33.552 MCr27.842 MCr48.402 MCr28.882 MCr15.16 MCr1.8 MCr1 MCr2 MCr55.902	Size 20 tons 30 tons 30 tons 40 tons 40 tons 50 tons 30 tons 30 tons 30 tons 95 tons	Acceleration 1-G 6-G 3-G 5-G 2-G 2-G - - 3-G 3-G 2-O	SI 77 80 80 82 82 92 - - - 96	AC 12 15 14 16 14 11 - - 13
Fighter	9	MCr11.88	15 tons	6-G	77	17

Launch (Lifeboat)

Small Spacecraft

TL9, MCr11.282, 20 tons. The Launch is a small, slow vessel capable of fulfilling a wide range of roles from cargo and passenger transfer to lifeboat, search-and-rescue or starport utility work. Attempts to use a Launch as weapons platform is generally unsuccessful due to a lack of maneuverability. Typically a launch will be capable of 1G acceleration, has an operational duration of 4 weeks before needing to refuel, and can carry approximately 8 tons of cargo. It requires a crew of two, at least one of whom must have a Pilot skill rank of one or higher, and takes 5 months to build.

Launch		
Class: Smallcraft	EP Output: 0.4 (0.2 excess)	Triple Turret: empty
Tech Level: 9	Agility: 1 (+1 EP)	
Size: Small (20 tons)	Initiative: +1 (+1 agility)	
Streamlining: Streamlined	AC: 12 (+1 agility, +1 size)	
Jump Range: None	Repulsors: None	
Acceleration: 1-G	Nuclear Dampers: None	
Fuel: 0.4 tons	Meson Screens: None	
Duration: 4 weeks	Black Globes: None	
Crew: 2	AR: 0	
Staterooms: 0	SI: 77	
Small Cabins: 1	Main Computer: Model/2	
Bunks: 0	Sensor Range: Short (Model/2)	
Couches: 2	Comm. Range: Short (Model/2)	
Low Berths: 0		
Cargo Space: 8.1 tons	Cost: MCr11.282 (new)	
Atmospheric Speeds:	NoE = 275kph	
Cruising = 200kph	Maximum = 375kph	
Other Equipment: Fresher,	missile magazine	

TAS Form 3.1 (Condensed)

TL9 Design Specifications						
U .	Size	Cost	EP	Notes		
20-ton streamlined cylinder hull	+20	MCr2.1	-	-		
Bridge Controls	-4	MCr0.1	-	-		
Model/2 Computer	-0.2	MCr8	-	Model/2		
Flight Avionics	-0.8	(MCr1.8)	-	Model/2		
Short Range Sensors	-0.6	(MCr1.2)	-	Model/2		
Short Range Communications	-0.4	(MCr1)	-	Model/2		
1-G Acceleration	-0.4	MCr0.6	-0.2 EP	-		
TL9 Fusion Power Plant	-0.6	MCr1.8	+0.4 EP	-		
Fuel	-0.4	-	-	-		
2 Small Craft Couches	-1	MCr0.05	-	-		
1 Small Cabin	-2	MCr0.25	-	-		
Fresher	-0.5	MCr0.002	-	-		
1 Hardpoint	-	MCr0.1	-	-		
Triple Turret	-	MCr1	-	-		
Missile Magazine	-1	MCr0.1	-	-		
Cargo	-8.1	-	-	-		
Totals	+0	MCr14.102 (MCr1	1.282 with 20% star	ndard design discount)		

Ship's Boat Small Spacecraft

TL9, MCr33.522, 30 tons. Larger and much faster than the Launch, the Ship's Boat has little room for cargo and is highly expensive. They are mainly used as "prestige" passenger shuttles, for military personnel transfers between vessels, and as rescue craft. The vessel requires a crew of two, at least one of whom must have at least a Pilot skill rank of one or higher, and requires 5 months to build.

Class: Smallcraft	EP Output: 4 (1.2 excess)	Triple Turret: empty
Tech Level: 9	Agility: 4 (+4 EP)	
Size: Small (30 tons)	Initiative: +4 (+4 agility)	
Streamlining: Streamlined	AC: 15 (+4 agility, +1 size)	
Jump Range: None	Repulsors: None	
Acceleration: 6-G	Nuclear Dampers: None	
Fuel: 4 tons	Meson Screens: None	
Duration: 4 weeks	Black Globes: None	
Crew: 2	AR: 0	
Staterooms: 0	SI: 80	
Small Cabins: 1	Main Computer: Model/3	
Bunks: 0	Sensor Range: Medium (Model/3)	
Couches: 2	Comm. Range: Medium (Model/3)	
Low Berths: 0		
Cargo Space: 1.8 tons	Cost: MCr33.522 (new)	
Atmospheric Speeds:	NoE = 275kph	
Cruising = 200kph	Maximum = 375kph	
Other Equipment: Fresher	, missile magazine	

TAS Form 3.1 (Condensed)

TL9 Design Specifications						
•	Size	Cost	EP	Notes		
30-ton streamlined cylinder hull	+30	MCr3.15	-	-		
Bridge Controls	-6	MCr0.15	-	-		
Model/3 Computer	-0.3	MCr15.3	-1 EP	Model/3		
Flight Avionics	-0.8	(MCr1.8)	-	Model/2		
Medium Range Sensors	-0.9	(MCr1.8)	-	Model/3		
Medium Range Communications	-0.6	(MCr1.5)	-	Model/3		
6-G Acceleration	-5.1	MCr2.55	-1.8 EP	-		
TL9 Fusion Power Plant	-6	MCr18	+4 EP	-		
Fuel	-4	-	-	-		
2 Small Craft Couches	-1	MCr0.05	-	-		
1 Small Cabin	-2	MCr0.25	-	-		
Fresher	-0.5	MCr0.002	-	-		
1 Hardpoint	-	MCr0.1	-	-		
Triple Turret	-	MCr1	-	-		
Missile Magazine	-1	MCr0.1	-	-		
Cargo	-1.8	-				
Totals	+0	MCr40.652 (MCr3	2.522 with 20% stan	dard design discount)		

Slow Boat

Small Spacecraft TL9, MCr27.842, 30 tons. The Slow Boat is more affordable than its faster cousin, and cargo space is better. These craft are often used by larger merchant ships. The vessel requires a crew of two, at least one of whom must have at least a Pilot skill rank of one or higher, and requires 5 months to build.

Class: Smallcraft	EP Output: 3 (1.1 excess)	Triple Turret: empty
Tech Level: 9	Agility: 3 (+3 EP)	
Size: Small (30 tons)	Initiative: +3 (+3 agility)	
Streamlining: Streamlined	AC: 14 (+3 agility, +1 size)	
Jump Range: None	Repulsors: None	
Acceleration: 3-G	Nuclear Dampers: None	
Fuel: 3 tons	Meson Screens: None	
Duration: 4 weeks	Black Globes: None	
Crew: 2	AR: 0	
Staterooms: 0	SI: 80	
Small Cabins: 1	Main Computer: Model/3	
Bunks: 0	Sensor Range: Medium (Model/3)	
Couches: 2	Comm. Range: Medium (Model/3)	
Low Berths: 0		
Cargo Space: 7 tons	Cost: MCr24.842 (new)	
Atmospheric Speeds:	NoE = 275kph	
Cruising = 200kph	Maximum = 375kph	
Other Equipment: Fresher,	missile magazine	
TAS Form 2.1 (Condensed)		Shin'a Data (Commorai

TAS Form 3.1 (Condensed)

TL9 Design Specifications

0	Size	Cost	EP	Notes
30-ton streamlined cylinder hull	+30	MCr3.15	-	-
Bridge Controls	-6	MCr0.15	-	-
Model/3 Computer	-0.3	MCr15.3	-1 EP	Model/3
Flight Avionics	-0.8	(MCr1.8)	-	Model/2
Medium Range Sensors	-0.9	(MCr1.8)	-	Model/3
Medium Range Communications	-0.6	(MCr1.5)	-	Model/3
3-G Acceleration	-2.4	MCr1.2	-0.9 EP	-
TL9 Fusion Power Plant	-4.5	MCr13.5	+3 EP	-
Fuel	-3	-	-	-
2 Small Craft Couches	-1	MCr0.05	-	-
1 Small Cabin	-2	MCr0.25	-	-
Fresher	0.5	MCr0.002	-	-
1 Hardpoint	-	MCr0.1	-	-
Triple Turret	-	MCr1	-	-
Missile Magazine	-1	MCr0.1	-	-
Cargo	-7	-	-	-
Totals	+0	MCr 34.802 (MCr	27.842 with 20% sta	ndard design discount)

Pinnace

Small Spacecraft TL10, MCr48.402, 40 tons. A larger craft designed for high performance in atmosphere or in space, the Pinnace is fairly uncommon among small craft due to its high cost. Requires a crew of two.

Pinnace				
Class: Smallcraft	EP Output: 4	(2 excess)	Triple Turret:	empty
Tech Level: 10	Agility: 5 (+5			- 1-9
Size: Small (40 tons)	Initiative: +5 (
Streamlining: Streamlined	AC: 16 (+5 ag	0,1/		
Jump Range: None	Repulsors: No			
Acceleration: 5-G	Nuclear Damp	pers: None		
Fuel: 6 tons	Meson Screen	ns: None		
Duration: 4 weeks	Black Globes	: None		
Crew: 2	AR: 0			
Staterooms: 0	SI: 82			
Small Cabins: 1	Main Compute	er: Model/4		
Bunks: 0		e: Long (Model/4)		
Couches: 2		e: Medium (Model/3)		
Low Berths: 0		. ,		
Cargo Space: 3.7 tons	Cost: MCr48.4	102 (new)		
Atmospheric Speeds:	NoE = 275kph			
Cruising = 200kph	Maximum = 37	5kph		
TAS Form 3.1 (Condensed)			Ship's Data (Co	ommercial)
IL10 Design Specifications				
TL10 Design Specifications	Size	Cost	EP	Notes
40-ton streamlined cylinder hull	+40	MCr4.2	EP -	Notes -
40-ton streamlined cylinder hull Bridge Controls	+40 -8	MCr4.2 MCr0.2	-	-
40-ton streamlined cylinder hull Bridge Controls Model/4 Computer	+40 -8 -0.4	MCr4.2 MCr0.2 MCr24.8	- - -2 EP	- - Model/4
40-ton streamlined cylinder hull Bridge Controls Model/4 Computer Flight Avionics	+40 -8 -0.4 -0.8	MCr4.2 MCr0.2 MCr24.8 (MCr1.8)	-	- - Model/4 Model/2
40-ton streamlined cylinder hull Bridge Controls Model/4 Computer Flight Avionics Long Range Sensors	+40 -8 -0.4 -0.8 -1.2	MCr4.2 MCr0.2 MCr24.8 (MCr1.8) (MCr2.4)	- - -2 EP	- - Model/4 Model/2 Model/4
40-ton streamlined cylinder hull Bridge Controls Model/4 Computer Flight Avionics Long Range Sensors Medium Range Communications	+40 -8 -0.4 -0.8 -1.2 s -0.8	MCr4.2 MCr0.2 MCr24.8 (MCr1.8) (MCr2.4) (MCr2)	- - -2 EP - - -	- - Model/4 Model/2
40-ton streamlined cylinder hull Bridge Controls Model/4 Computer Flight Avionics Long Range Sensors Medium Range Communications 5-G Acceleration	+40 -8 -0.4 -0.8 -1.2 5 -0.8 -5.6	MCr4.2 MCr0.2 MCr24.8 (MCr1.8) (MCr2.4) (MCr2) MCr2.8	-2 EP - - - - - -2 EP	- - Model/4 Model/2 Model/4
40-ton streamlined cylinder hull Bridge Controls Model/4 Computer Flight Avionics Long Range Sensors Medium Range Communications 5-G Acceleration TL9 Fusion Power Plant	+40 -8 -0.4 -0.8 -1.2 5 -0.8 -5.6 -9	MCr4.2 MCr0.2 MCr24.8 (MCr1.8) (MCr2.4) (MCr2)	- - -2 EP - - - - -2 EP +6 EP	- - Model/4 Model/2 Model/4
40-ton streamlined cylinder hull Bridge Controls Model/4 Computer Flight Avionics Long Range Sensors Medium Range Communications 5-G Acceleration TL9 Fusion Power Plant Fuel	+40 -8 -0.4 -0.8 -1.2 5 -0.8 -5.6 -9 -6	MCr4.2 MCr0.2 MCr24.8 (MCr1.8) (MCr2.4) (MCr2) MCr2.8 MCr27	-2 EP - - - - - -2 EP	- - Model/4 Model/2 Model/4
40-ton streamlined cylinder hull Bridge Controls Model/4 Computer Flight Avionics Long Range Sensors Medium Range Communications 5-G Acceleration TL9 Fusion Power Plant Fuel 2 Small Craft Couches	+40 -8 -0.4 -0.8 -1.2 s -0.8 -5.6 -9 -6 -1	MCr4.2 MCr0.2 MCr24.8 (MCr1.8) (MCr2.4) (MCr2) MCr2.8 MCr27 - MCr0.05	- - -2 EP - - - - -2 EP +6 EP	- - Model/4 Model/2 Model/4
40-ton streamlined cylinder hull Bridge Controls Model/4 Computer Flight Avionics Long Range Sensors Medium Range Communications 5-G Acceleration TL9 Fusion Power Plant Fuel 2 Small Craft Couches 1 Small Cabin	+40 -8 -0.4 -0.8 -1.2 s -0.8 -5.6 -9 -6 -1 -2	MCr4.2 MCr0.2 MCr24.8 (MCr1.8) (MCr2.4) (MCr2) MCr2.8 MCr27 - MCr0.05 MCr0.25	- - -2 EP - - - - -2 EP +6 EP	- - Model/4 Model/2 Model/4
40-ton streamlined cylinder hull Bridge Controls Model/4 Computer Flight Avionics Long Range Sensors Medium Range Communications 5-G Acceleration TL9 Fusion Power Plant Fuel 2 Small Craft Couches 1 Small Cabin Fresher	+40 -8 -0.4 -0.8 -1.2 s -0.8 -5.6 -9 -6 -1	MCr4.2 MCr0.2 MCr24.8 (MCr1.8) (MCr2.4) (MCr2) MCr2.8 MCr27 - - MCr0.05 MCr0.25 MCr0.022	- - -2 EP - - - - -2 EP +6 EP	- - Model/4 Model/2 Model/4
40-ton streamlined cylinder hull Bridge Controls Model/4 Computer Flight Avionics Long Range Sensors Medium Range Communications 5-G Acceleration TL9 Fusion Power Plant Fuel 2 Small Craft Couches 1 Small Cabin Fresher 1 Hardpoint	+40 -8 -0.4 -0.8 -1.2 s -0.8 -5.6 -9 -6 -1 -2 -0.5	MCr4.2 MCr0.2 MCr24.8 (MCr1.8) (MCr2.4) (MCr2) MCr2.8 MCr27 - MCr0.05 MCr0.25	- - -2 EP - - - - -2 EP +6 EP	- - Model/4 Model/2 Model/4
40-ton streamlined cylinder hull Bridge Controls Model/4 Computer Flight Avionics Long Range Sensors Medium Range Communications 5-G Acceleration TL9 Fusion Power Plant Fuel 2 Small Craft Couches 1 Small Cabin Fresher 1 Hardpoint Triple Turret	+40 -8 -0.4 -0.8 -1.2 -0.8 -5.6 -9 -6 -1 -2 -0.5 -	MCr4.2 MCr0.2 MCr24.8 (MCr1.8) (MCr2.4) (MCr2) MCr2.8 MCr27 - - MCr0.05 MCr0.25 MCr0.022 MCr0.02	- - -2 EP - - - - -2 EP +6 EP	- - Model/4 Model/2 Model/4
40-ton streamlined cylinder hull Bridge Controls Model/4 Computer Flight Avionics Long Range Sensors Medium Range Communications 5-G Acceleration TL9 Fusion Power Plant Fuel 2 Small Craft Couches 1 Small Cabin Fresher 1 Hardpoint	+40 -8 -0.4 -0.8 -1.2 5 -0.8 -5.6 -9 -6 -1 -2 -0.5 - -	MCr4.2 MCr0.2 MCr24.8 (MCr1.8) (MCr2.4) (MCr2) MCr2.8 MCr27 - - MCr0.05 MCr0.05 MCr0.025 MCr0.002 MCr0.1 MCr0.1	- - -2 EP - - - - -2 EP +6 EP	- - Model/4 Model/2 Model/4

Slow Pinnace

Small Spacecraft

TL9, MCr28.882, 40 tons. The Slow Pinnace carries far more cargo than its faster cousin, and at a lower price. Performance in atmosphere is still good, and with the extra cargo capacity of a Slow Boat in a hull only 10 tons larger, the Slow Pinnace sees some use as a cargo lighter for merchant ships that cannot enter atmosphere. Requires a crew of two.

lass: Smallcraft	EP Output: 3 (1.2 excess)	Triple Turret: empty
ech Level: 9	Agility: 3 (+3 EP)	
Size: Small (40 tons)	Initiative: +3 (+3 agility)	
treamlining: Streamlined	AC: 14 (+3 agility, +1 size)	
ump Range: None	Repulsors: None	
cceleration: 2-G	Nuclear Dampers: None	
uel: 3 tons	Meson Screens: None	
Juration: 4 weeks	Black Globes: None	
rew: 2	AR: 0	
taterooms: 0	SI: 82	
mall Cabins: 1	Main Computer: Model/3	
Bunks: 0	Sensor Range: Medium (Model/3)	
ouches: 2	Comm. Range: Medium (Model/3)	
ow Berths: 0		
argo Space: 15.4 tons	Cost: MCr28.882 (new)	
tmospheric Speeds:	NoE = 275kph	
Cruising = 200kph	Maximum = 375kph	
Other Equipment: Fresher,	missile magazine	

TL9 Design Specifications

Size EΡ Cost Notes MCr4.2 40-ton streamlined cylinder hull +40 -**Bridge Controls** -8 MCr0.2 Model/3 Computer -0.3 MCr15.3 -1 EP Model/3 Flight Avionics -0.8 (MCr1.8) Model/2 -Model/3 Medium Range Sensors (MCr1.8) -0.9 -Medium Range Communications -0.6 (MCr1.5) Model/3 2-G Acceleration MCr1.4 -0.8 EP -2 **TL9 Fusion Power Plant** -4.5 MCr13.5 +3 EP _ Fuel -3 -2 Small Craft Couches -1 MCr0.05 -_ 1 Small Cabin -2 MCr0.25 _ _ Fresher -0.5 MCr0.002 _ _ 1 Hardpoint MCr0.1 -_ -Triple Turret MCr1 _ Missile Magazine -1 MCr0.1 _ _ Cargo 15.4 Totals +0 MCr 36.102 (MCr 28.882 with 20% standard design discount)

Modular Cutter

Small Spacecraft TL9, MCr15.16, 50 tons. The Modular Cutter is a highly versatile design used in many Port Authority, mercantile and military applications. The 30-ton module bay can carry a range of standard and custom modules (purchased separately) for cargo transfer, passenger or more specialist applications. Requires a crew of two.

Class: Smallcraft	EP Output: 1	(no excess)	Triple Turret: en	npty
Tech Level: 9	Agility: 0			
Size: Small (50 tons)	Initiative: +0			
Streamlining: Streamlined				
Jump Range: None	Repulsors: N			
Acceleration: 2-G	Nuclear Dam	pers: None		
Fuel: 1 tons	Meson Scree	ns: None		
Duration: 4 weeks	Black Globes	: None		
Crew: 2	AR: 0			
Staterooms: 0	SI: 92			
Small Cabins: 1	Main Comput	er: Model/2		
Bunks: 0	Sensor Rang	e: Close (Model/1)		
Couches: 3	Comm. Rang	e: Close (Model/1)		
Low Berths: 0				
Cargo Space: 0.5 tons	Cost: MCr15.	16 (new)		
Atmospheric Speeds: Cruising = 200kph	NoE = 275kph Maximum = 37			
Other Equipment:				
TAS Form 3.1 (Condensed)			Ship's Data (Com	imercial)
esign Specifications	C 1	a /		
	Size	Cost	EP	Notes
streamlined cylinder hull	+50	MCr5 25	El	1101

	Size	Cost	EP	Notes
50-ton streamlined cylinder hull	+50	MCr5.25	-	-
Bridge Controls	-10	MCr0.25	-	-
Model/2 Computer	-0.2	MCr5.8	-	Model/2
Flight Avionics	-0.8	(MCr1.8)	-	Model/2
Close Range Sensors	-0.3	(MCr0.6)	-	Model/1
Close Range Communications	-0.2	(MCr0.5)	-	Model/1
2-G Acceleration	-2.5	MCr1.75	-1 EP	-
TL9 Fusion Power Plant	-1.5	MCr4.5	+1 EP	-
Fuel	-1	-	-	-
2 Small Craft Couches	-1.0	MCr0.05	-	-
1 Small Cabin	-2	MCr0.25	-	-
1 Hardpoint	-	MCr0.1	-	-
Triple Turret	-	MCr1	-	-
Cargo	-0.5	-	-	-
Module Options				
30 ton ATV Module (w/ATV)	-30	MCr1.8	-	
30 ton Fuel Module	-30	MCr1	-	
30 ton Open Module	-30	MCr2	-	
Totals	+0	MCR 18.95 (MCr	15.16 with 20% stan	dard design discount)

Shuttle

Cargo

Totals

Smattle Small Spacecraft TL10, MCr55.902, 95 tons. The Shuttle is a bulk cargo or passenger transfer craft. Reasonably fast, shuttles can undertake almost any task required of them and can be customized to meet an even wider range of needs. Requires a crew of two. Takes 7 months to build.

	Shuttle				
	Class: Smallcraft	EP Output: 7	(2.15 excess)	Triple Turret: er	npty
	Tech Level: 10	Agility: 2 (+2	ÉP)		
	Size: Small (95 tons)	Initiative: +2	(+2 agility)		
	Streamlining: Streamlined	AC: 13 (+2 ag	jility, +1 size)		
	Jump Range: None	Repulsors: N	lone		
	Acceleration: 3-G	Nuclear Dam	pers: None		
	Fuel: 7 tons	Meson Scree	ns: None		
	Duration: 4 weeks	Black Globes	: None		
	Crew: 2	AR: 0			
	Staterooms: 0	SI: 96			
	Small Cabins: 1	Main Comput	ter: Model/4		
	Bunks: 0	Sensor Rang	e: Long (Model/4)		
	Couches: 2	Comm. Rang	e: Long (Model/4)		
	Low Berths: 0				
	Cargo Space: 43.6 tons	Cost: MCr55.	902 (new)		
	Atmospheric Speeds:	NoE = 275kpl			
	Cruising = 200kph	Maximum = 3			
	Other Equipment: Fresher, n	nissile magazir	ne		
	TAS Form 3.1 (Condensed)			Ship's Data (Con	nmercial)
TI 10	Design Specifications				
	Design opeenieutione	Size	Cost	EP	Notes
95-tor	n streamlined wedge hull	+95	MCr11.4	-	-
	e Controls	-19	MCr0.475	-	-
	l/4 Computer	-0.4	MCr21.2	-2 EP	Model/4
	-light Avionics	-0.4	(MCr0.9)	-	Model/1
L	ong Range Sensors	-1.2	(MCr2.4)	-	Model/4
Ν	Medium Range Communications	-0.8	(MCr2)	-	Model/4
3-G A	cceleration	-7.6	MCr3.8	-2.85 EP	-
TL9 F	usion Power Plant	-10.5	MCr31.5	+7 EP	-
Fuel		-7	-	-	-
	all Craft Couches	-1	MCr0.05	-	-
	all Cabin	-2	MCr0.25	-	-
Fresh		-0.5	MCr0.002	-	-
	dpoint	-	MCr0.1	-	-
	Triple Turret	-	MCr1	-	-
Missile Magazine		-1	MCr0 1	-	-

MCr0.1 MCr1 ------Missile Magazine -1 MCr0.1 ---43.6 _ MCR 69.877 (MCr 55.902 with 20% standard design discount) +0

Fuel

Cargo

Totals

Close Range Sensors

6-G Acceleration

1 Hardpoint

TL9 Fusion Power Plant

1 Small Craft Couches

Triple Turret

Close Range Communications

Fighter Small Spacecraft

TL9, MCr11.88, 15 tons. Fighters come in a range of sizes, from 15 or 20-ton light models up to 50-ton strike fighters. The 15-ton light fighter is the commonest design in use. Extremely fast and maneuverable, fighters are however very fragile and are primarily useful for screening and patrol work, and for policing merchant traffic. Even en masse, fighters are little threat to a major warship, but to an unruly Free Trader or a small commerce raider they may be an effective deterrent.

Fighter				
Class: Smallcraft	EP Output: 1	.9 (1 excess)	Triple Turret:	empty
Tech Level: 9	Agility: 6 (+6	EP)		
Size: Small (15 tons)	Initiative: +6	(+6 agility)		
Streamlining: Streamlined	AC: 17 (+6 a	gility, +1 size)		
Jump Range: None	Repulsors: N	lone		
Acceleration: 6-G	Nuclear Dam	pers: None		
Fuel: 1.9 tons	Meson Scree	ns: None		
Duration: 4 weeks	Black Globe	s: None		
Crew: 1	AR: 0			
Staterooms: 0	SI: 77			
Small Cabins: 0	Main Compu	ter: Model/1		
Bunks: 0	Sensor Rang	je: Close (Model/1)		
Couches: 1		e: Close (Model/1)		
Low Berths: 0				
Cargo Space: 2.2 tons	Cost: MCr11	.88 (new)		
Atmospheric Speeds: Cruising = 200kph	NoE = 275kp Maximum = 3			
Other Equipment: None				
TAS Form 3.1 (Condensed)		Ship's Data (C	ommercial)
TL9 Design Specifications				
	Size	Cost	EP	Notes
15-ton streamlined wedge hull	+15	MCr1.8	-	-
Bridge Controls	-4	MCr0.1	-	-
Model/1 Computer	-0.1	MCr2	-	Model/1
Flight Avionics	-0.4	(MCr0.9)	-	Model/1

(MCr0.6)

(MCr0.5)

MCr1.275

MCr0.025

MCr0.1

MCr1

MCr8.55

-0.9 EP

+1.9 EP

MCr 14.85 (MCr 11.88 with 20% standard design discount)

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Model/1

Model/1

-

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-0.3

-0.2

-2.55

-2.85

-1.9

-0.5

-2.2

+0

-

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Starship Designs The following are all starship designs common in Charted Space. Crew requirements are minimal, and for maximum efficiency extra crew should be carried. Typically these personnel include extra engineers, a backup pilot (or a dedicated pilot to avoid the strain and distraction of having to pilot and astrogate a starship). Larger ships may have specialist command personnel, small craft pilots, technicians, cargo handlers, additional stewards etc, and any vessel mounting weapons will need gunners to operate them.

TABLE: Common Starships and Spacecraft									
Ship	ΤĹ	Ċost	Size	Acceleration	Jump	Cargo			
Scout/Courier	11	MCr42.578	100 tons	2-G	2	20			
Seeker	11	*	100 tons	1-G	2	35			
Far Trader	11	MCr68.138	200 tons	2-G	2	66			
Free Trader	9	MCr51.36	200 tons	1-G	1	96			
Safari Ship	11	MCr67.884	200 tons	1-G	2	50			
System Defense Boat	14	MCr201.16	200 tons	6-G	-	18.3			
Yacht	9	MCr75.074	200 tons	1-G	1	47			
Corsair	11	*	400 tons	3-G	2	159.9			
Laboratory Ship	11	MCr191.662	400 tons	1-G	2	32.4			
Patrol Cruiser	12	MCr227.76	400 tons	4-G	3	24.8			
Subsidized Merchant	9	MCr96.426	400 tons	1-G	1	236.5			
Subsidized Liner	12	MCr238.386	600 tons	1-G	3	202.4			
Mercenary Cruiser	12	MCr412.675	800 tons	3-G	3	165.2			

Scout/Courier (Type S)

Medium-Size Starship

The Type S Scout/Courier is the most commonly seen ship in Charted Space. Small, cheap, and reasonably economical to operate, these ships have become a workhorse for both the government and military fleets; some are encountered in commercial use. Most Scout/Couriers are actually former Scout Service vessels either purchased as surplus from the government or are assigned for the private use of former Scouts currently on Detached Duty. In return for use of the ship the Scouts (and the ship itself) are subject to recall at any time for temporary or indefinite duty, as the Scout service requires.

The ship itself is built using the smallest available hull for a starship, 100-tons. The vessel carries a Maneuver drive capable of up to 2-G acceleration and a Jump-2 drive. The power plant provides just enough energy to power the maneuver drives or the Jump drive. If laser or energy weapons are installed, a larger power plant will be needed. Most ex-Scout vessels have had their powerful computer and sensor arrays removed and replaced with a standard Model/1bis computer. 4 staterooms are available for crew and passengers. Small cargoes may also be carried in the ship's compact 25-ton cargo hold. The vessel also carries a small vehicle bay, usually containing an air/raft.

The Scout/Courier requires a crew of one to operate; the pilot who must assume the duties of pilot and astrogator, and also oversees the highly automated drive section. A second crewmember is desirable. The Type S costs MCr42.578 new, and takes 5 months to build.

Scout/Courier

Class: Starship, type S	EP Output: 4 (2 excess)	Double Turret: empty.
Tech Level: 11	Agility: 2 (+2 EP)	
Size: Medium (100 tons)	Initiative: +2 (+2 agility)	
Streamlining: Streamlined	AC: 12 (+2 agility)	
Jump Range: 1 x Jump-2	Repulsors: 0	
Acceleration: 2-G	Nuclear Dampers: 0	
Fuel: 24 tons	Meson Screens: 0	
Duration: 4 weeks	Black Globes: 0	
Crew: 1	AR: 0	
Staterooms: 4	SI: 100	
Small Cabins: 0	Main Computer: Model/1bis	
Bunks: 0	Sensor Range: Close (Model/1)	
Couches: 0	Comm. Range: Close (Model/1)	
Low Berths: 0		
Cargo Space: 20 tons	Cost: MCr42.578 (new)	
Atmospheric Speeds:	NoE = 275kph	
Cruising = 825kph	Maximum = 1100kph	
Other Equipment: Air/raft, fu	iel scoops.	

TAS Form 3.1 (Condensed)

Ship's Data (Commercial)

Design Specifications

Installed Components	Tonnage	Cost	EP	Notes
100-ton Hull (Wedge)	+100	MCr12	-	-
Bridge	-20	MCr0.5	-	-
Computer	-0.1	MCr4	-	Model/1bis
Flight Avionics	-0.4	(MCr0.9)	-	Model/1
Sensors	-0.3	(MCr0.6)	-	Model/1
Communications	-0.2	(MCr.0.5)	-	Model/1
Jump Drive 2	-3	MCr12	-2	-
Jump Fuel	-20	-	-	-
Maneuver Drive 2	-5	MCr3.5	-2	-
TL9 Power Plant	-6	MCr18	+4	-
Power Plant Fuel	-4	-	-	-
Fuel Scoops	-	MCr0.1	-	-
1 Hard Point	-	MCr0.1	-	-
Double Turret	-	MCr0.75	-	-
Air/Raft	-5	MCr0.273	-	-
Staterooms (4)	-16	MCr2	-	-
Cargo	-20	-	-	-
Totals	+0	MCr53.223 (MCr42.578	with 20% standard design discount)

Seeker (type J)

Medium-Size Starship The Type J Seeker is adapted from the standard Scout/Courier design to create a vessel suitable for lone prospectors or small teams. Ore sampling equipment is fitted, and the air-raft is usually replaced with a pressurized buggy for ground expeditions. The Seeker requires a crew of one to operate, the pilot who may assume the duties of both pilot and Astrogator. If built new, the ship would cost MCr34.498 and takes 9 months to build, but most are highly modified Scout/Couriers. Seekers do not fetch very high sale prices; around MCr20 depending on the state of the craft.

Seeker

OCCINCI			
Class: Starship, type J	EP Output: 2 (0.5 excess)	Double Turret: Single	
Tech Level: 11	Agility: 1	Mining Laser; Attack	
Size: Medium (100 tons)	Initiative: +1	Bonus +1 (+1 USP),	
Streamlining: Streamlined	AC: 11 (+1 agility)	Damage: 1d6, Range	
Jump Range: 1 x Jump-2	Repulsors: None	Increment: 15,000km.	
Acceleration: 1-G	Nuclear Dampers: None		
Fuel: 22 tons	Meson Screens: None		
Duration: 4 weeks	Black Globes: None		
Crew: 1	AR: 0		
Staterooms: 2	SI : 100		
Small Cabins: 0	Main Computer: Model/1bis		
Bunks: 0	Sensor Range: Close (Model/1)		
Couches: 0	Comm. Range: Close (Model/1)		
Low Berths: 0			
Cargo Space: 35 tons	Cost: see description		
Atmospheric Speeds: Cruising = 825kph	NoE = 275kph Maximum = 1100kph		
Other Equipment: Air/raft.			

TAS Form 3.1 (Condensed)

Design Specifications

2 congin op controlatione				
Installed Components	Tonnage	Cost	EP	Notes
100-ton Hull (Wedge)	+100	MCr12	-	-
Bridge	-20	MCr0.5	-	-
Computer	-0.1	MCr4	-	Model/1bis
Flight Avionics	-0.4	(MCr0.9)	-	Model/1
Sensors	-0.3	(MCr0.6)	-	Model/1
Communications	-0.2	(MCr.0.5)	-	Model/1
Jump Drive 2	-3	MCr12	-2	-
Jump Fuel	-20	-	-	-
Maneuver Drive 1	-2	MCr3	-1	-
TL9 Power Plant	-3	MCr9	+2	-
Power Plant Fuel	-2	-	-	-
1 Hard Point	-	MCr0.1	-	-
Double Turret	-	MCr0.75	-	-
Mining Laser	-1	MCr0.5	-0.5	-
Air/Raft	-5	MCr0.273	-	-
Staterooms (2)	-8	MCr1	-	-
Cargo	-35	-	-	-
Totals	+0	MCr43.123 (MCı	34.498 with	20% standard design discount)
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Far Trader (Type A2) *Medium-Size Starship* The Jump-2 Far Trader sacrifices some cargo space for engines and fuel, meaning that it cannot really compete on a main. However, A2s can be encountered almost anywhere. They are particularly common in backwater regions where larger vessels are uneconomical. On the frontier, many Far Traders are armed. The Far Trader requires a crew of four: the pilot, astrogator and engineer to operate the ship along with a medic/steward to attend to the passengers. The ship cost MCr68.138 new, and takes 9 months to build.

Class: Starship, type A2	EP Output: 4	Double Turret: Empty.
Fech Level: 11	Agility: 0	Double Turret: Empty.
Size: Medium (200 tons)	Initiative: +0	
Streamlining: Streamlined	AC: 10	
Jump Range: 1 x Jump-2	Repulsors: None	
Acceleration: 2-G	Nuclear Dampers: None	
Fuel: 44 tons	Meson Screens: None	
Duration: 4 weeks	Black Globes: None	
Crew: 4	AR: 0	
Staterooms: 10	SI: 115	
Small Cabins: 0	Main Computer: Model/1bis	
Bunks: 0	Sensor Range: Close (Model/1)	
Couches: 0	Comm. Range: Close (Model/1)	
ow Berths: 4		
Cargo Space: 66 tons	Cost: MCr68.138 (new)	
Atmospheric Speeds: Cruising = 825kph	NoE = 275kph Maximum = 1100kph	

TAS Form 3.1 (Condensed)

Design Specifications

Installed Components	Tonnage	Cost	EP	Notes
200-ton Hull (Wedge)	+200	MCr24	-	-
Bridge	-20	MCr1	-	-
Computer	-0.1	MCr4	-	Model/1bis
Flight Avionics	-0.4	(MCr0.9)	-	Model/1
Sensors	-0.3	(MCr0.6)	-	Model/1
Communications	-0.2	(MCr.0.5)	-	Model/1
Jump Drive 2	-6	MCr24	-4	-
Jump Fuel	-40	-	-	-
Maneuver Drive 2	-10	MCr7	-4	-
TL9 Power Plant	-6	MCr18	+4	-
Power Plant Fuel	-4	-	-	-
2 Hard Points	-	MCr0.2	-	-
2 Double Turrets	-	MCr1.5	-	-
Staterooms (10)	-40	MCr5	-	-
Low Berths (4)	-2	MCr0.2	-	-
Air/Raft	-5	MCr0.273	-	-
Cargo	-66	-	-	-
Totals	+0	MCr85.173 (MCr68.13	38 with 20% standard design discount)

Free Trader (Type A)

Computer

Flight Avionics

Communications

Sensors

Maneuver Drive 1

TL9 Power Plant

Power Plant Fuel

Staterooms (10)

Low Berths (20)

2 Hard Points

Cargo

Totals

Jump Drive 1

Jump Fuel

-0.1

-0.4

-0.3

-0.2

-4

-4

-3 -2

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-40

-10

-96

+0

-20

Medium-Size Starship Jump-1 Free Traders, of Type A and other designs, are very common starships. They ply the Jump-1 mains making a living from speculative trade and picking up the odd small shipment after the Corporate freighters have passed through. Many Free Traders are heavily modified as a result of their advancing age and non-standard refits. On the frontier, most vessels will be armed with at least a single laser. The Free Trader requires a crew of four: pilot, astrogator and engineer to operate the ship along with a medic/steward to attend to the passengers. The ship cost MCr51.36 new, and takes 9 months to build.

Model/1

Model/1

Model/1

Model/1

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MCr64.2 (MCr51.36 with 20% standard design discount)

Free Trader

	Class: Starship, type A			EP Output: 2			No turrets or weapons
	Tech Level: 9		Agility: 0				installed.
	Size: Medium (200) tons)	Initiative: +0				
	Streamlining: Stre	eamlined	AC: 10				
	Jump Range: 1 x	Jump-1	Repulsors	: None			
	Acceleration: 1-G	i	Nuclear Da	ampers: N	one		
	Fuel: 22 tons		Meson Screens: None				
	Duration: 4 weeks	3	Black Globes: None				
	Crew: 4		AR: 0				
	Staterooms: 10		SI: 115				
	Small Cabins: 0		Main Com	puter: Moc	lel/1		
	Bunks: 0		Sensor Ra				
	Couches: 0		Comm. Ra	nge: Close	e (Model/1)	
	Low Berths: 20						
	Cargo Space: 96		Cost: MCr	•)		
	Atmospheric Spe		NoE = 275	•			
	Cruising = 825kph		Maximum =	= 1100kph			
	Other Equipment	: None.					
	TAS Form 3.1 (Co	ondensed)					Ship's Data (Commercial)
Desia	n Specifications						
	ed Components	Tonnage	Cos	st	EP	Notes	
	n Hull (Wedge)	+200	MC	r24	-	-	
Bridge		-20	MC	r1	-	-	

MCr2

(MCr0.9)

(MCr0.6)

(MCr.0.5)

MCr16

MCr6

MCr9

MCr0.2

MCr5

MCr1

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+2

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Safari Ship (Type K)

Medium-Size Starship

The Safari Ship is somewhat less common than other small vessels. Its most common function is as a "poor person's yacht"; a small personal transport with a modest cargo capacity. However, this is not its designed function. Safari ships are intended to be used as a mobile base from which to conduct private exploration, surveying, hunting (of a photographic or lethal sort) and safari missions. Accommodation is fairly luxurious, reflecting the fact that many owners hire themselves and their ship to parties of wealthy people seeking a nice, safe adventure in the wilds. Cargo space can be configured to include pens for captured wildlife, and separate climate control exists for the cargo bay to keep catches alive. The Safari Ship requires a crew of three: pilot/astrogator and engineer to operate the ship along with a medic/steward to attend to the passengers. The ship costs MCr67.884 when new and takes 9 months to build.

Safari Ship

Class: Starship, type K	EP Output: 4 (+2 excess)	No turrets or weapons
Tech Level: 11	Agility: +1 (+1 EP)	installed.
Size: Medium (200 tons)	Initiative: +1 (+1 agility)	
Streamlining: Streamlined	AC: 11 (+1 agility)	
Jump Range: 1 x Jump-2	Repulsors: None	
Acceleration: 1-G	Nuclear Dampers: None	
Fuel: 44 tons	Meson Screens: None	
Duration: 4 weeks	Black Globes: None	
Crew: 3	AR: 0	
Staterooms: 11	SI: 115	
Small Cabins: 0	Main Computer: Model/1bis	
Bunks: 0	Sensor Range: Close (Model/1)	
Couches: 0	Comm. Range: Close (Model/1)	
Low Berths: 0		
Cargo Space: 50 tons	Cost: MCr67.884 (new)	
Atmospheric Speeds:	NoE = 275kph	
Cruising = 825kph	Maximum = 1100kph	
Other Equipment: Air/raft, 2	0-ton launch	

TAS Form 3.1 (Condensed)

Ship's Data (Commercial)

Design Specifications

Installed Components	Tonnage	Cost	EP	Notes
200-ton Hull (Flattened Sphere)	+200	MCr16	-	-
Bridge	-20	MCr1	-	-
Computer	-0.1	MCr4	-	Model/1bis
Flight Avionics	-0.4	(MCr0.9)	-	Model/1
Sensors	-0.3	(MCr0.6)	-	Model/1
Communications	-0.2	(MCr.0.5)	-	Model/1
Jump Drive 2	-6	MCr24	-4	-
Jump Fuel	-40	-	-	-
Maneuver Drive 1	-4	MCr6	-2	-
TL9 Power Plant	-6	MCr18	+4	-
Power Plant Fuel	-4	-	-	-
2 Hard Points	-	MCr0.2	-	-
Staterooms (11)	-44	MCr5.5	-	-
Air/Raft	-5	MCr0.273	-	-
20-ton Launch	-20	MCr9.842	-	-
Launch Hanger	-	MCr0.04	-	-
Cargo	-50	-	-	-
Totals	+0	MC84.855 (M	Cr67.884 v	vith 20% standard design discount)

System Defense Boat (type SDB)

Medium-Size Spaceship

A system defense boat, or SDB, is a ship that is used exclusively for planetary and star system defense, trading off the lack of jump drives for heavy armor, faster acceleration, and heavier weaponry in its place. There is no real 'standard' design for SDBs, as they are often of local manufacture or may be former starships pressed into local defense forces after having their jump drives removed. Most such conversions have additional armament and upgrades installed. Most SDBs are streamlined allowing them to also be used for orbital and air support for local ground troops.

If the need arises to move an SDB to another star system, it will usually be loaded onto a bulk freighter and shipped as large cargo, but this is very slow and inefficient and is not wise if the SDB is expected to go into action immediately upon arrival. In cases where rapid deployment at the destination is needed, *Jump Pods* can be built and strapped to the SDB, providing it with temporary jump capability. Upon arrival, the pods can be quickly and easily jettisoned, allowing the ship to move into action immediately. The pod would contain Jump drives large enough to Jump both the SDB and the pod itself, along with the requisite fuel needed to make the Jump.

A generic TL14 SDB like the one detailed here would cost MCr201.16 new, and take 11 months to build. It requires a crew of 6: Captain, Pilot, Engineer, 2 gunners and a missile technician who doubles as medic.

System Defense Boat

Class: Spacecraft, type SDB	EP Output: 36 (12 excess)	Triple Turret: Missile Racks (x3), Attack Bonus	
Tech Level: 14	Agility: 6 (+6 EP)	+2 (+2 USP), Damage	
Size: Medium (200 tons)	Initiative: +6 (+6 agility)	2d6.	
Streamlining: Airframe	AC: 30 (+6 agility, +14 armor)	Triple Turret: Beam	
Jump Range: None	Repulsors: None	Lasers (x3), Attack Bonus	
Acceleration: 6-G	Nuclear Dampers: None	+3 (+3 USP), Damage	
Fuel: 36 tons	Meson Screens: None	3d8.	
Duration: 4 weeks	Black Globes: None		
Crew: 6	AR: 14		
Staterooms: 4	SI: 115		
Small Cabins: 0	Main Computer: Model/8		
Bunks: 0	Sensor Range: System-wide (Mod/7)		
Couches: 0	Comm. Range: System-wide (Mod/8)		
Low Berths: 0	Low Berths: 0		
Cargo Space: 18.3 tons Cost: MCr201.16 (new)			
Atmospheric Speeds: NoE = 1475kph			
Cruising = 4425kph	Maximum = 5900kph		
Other Equipment: Missile			

TAS Form 3.1 (Condensed)

Design Specifications

Installed Components	Tonnage	Cost	EP	Notes
200-ton Hull	+200	MCr24	-	-
Airframe	-10	MCr2.4	-	-
Armor (AR14)	-15	MCr1.8	-	-
Bridge	-20	MCr1	-	-
Computer	-0.8	MCr87.2	-9	Model/8
Flight Avionics	-1.2	(MCr2.7)	-	Model/3
Sensors	-2.1	(MCr4.2)	-	Model/7
Communications	-1.6	(MCr4)	-	Model/8
Maneuver Drive 6	-34	MCr17	-12	-
TL13 Power Plant	-36	MCr108	+36	-
Power Plant Fuel	-36	-	-	-
2 Hard Points	-	MCr0.2	-	-
Triple Turret	-	MCr1	-	-
Missile Rack (x3)	-3	MCr2.25	-	-
Triple Turret	-	MCr1	-	-
Missile Magazine (x3)	-3	MCr0.3	-	-
60 Missiles	-	MCr0.3	-	-
Beam Laser (x3)	-3	MCr3	-3	-
Staterooms (4)	-16	MCr2	-	-
Cargo	-18.3	-	-	-
Totals	+0	MCr251.45 (M	ICr201.16	with 20% standard design discount)
	-			

Yacht (type Y)

Medium-Size Starship A Yacht is not a commercially viable vessel. It serves as personal transport for a rich individual, and sometimes as their home. As status symbols, many yachts are finely decorated and contain expensive furnishings, paintings and so on. Many are armed. The Yacht requires a crew of three to operate, the pilot (who doubles as astrogator), an engineer and a medic/steward to attend to the passengers. The ship cost MCr75.074 new, and takes 11 months to build.

Yacht

Class: Starship, type Y	EP Output: 2	No turrets or weapons
Tech Level: 9	Agility: 0	installed.
Size: Medium (200 tons)	Initiative: +0	
Streamlining: Streamlined	AC: 10	
Jump Range: 1 x Jump-1	Repulsors: None	
Acceleration: 1-G	Nuclear Dampers: None	
Fuel: 22 tons	Meson Screens: None	
Duration: 4 weeks	Black Globes: None	
Crew: 3	AR: 0	
Staterooms: 14	SI: 115	
Small Cabins: 0	Main Computer: Model/1	
Bunks: 0	Sensor Range: Close (Model/1)	
Couches: 0	Comm. Range: Close (Model/1)	
Low Berths: 0		
Cargo Space: 47 tons	Cost: MCr75.074 (new)	
Atmospheric Speeds:	NoE = 275kph	
Cruising = 825kph	Maximum = 1100kph	
Other Equipment: Air/raft, tr	acked ATV, 30 ton ship's boat.	

TAS Form 3.1 (Condensed)

Design Specifications

Installed Components	Tonnage	Cost	EP	Notes
200-ton Hull (Cone)	+200	MCr22	-	-
Bridge	-20	MCr1	-	-
Computer	-0.1	MCr2	-	Model/1
Flight Avionics	-0.4	(MCr0.9)	-	Model/1
Sensors	-0.3	(MCr0.6)	-	Model/1
Communications	-0.2	(MCr.0.5)	-	Model/1
Jump Drive 1	-4	MCr16	-2	-
Jump Fuel	-20	-	-	-
Maneuver Drive 1	-4	MCr6	-2	-
TL9 Power Plant	-3	MCr9	+2	-
Power Plant Fuel	-2	-	-	-
1 Hard Points	-	MCr0.1	-	-
Staterooms (14)	-56	MCr7	-	-
30-ton Ship's Boat	-30	MCr30.362	-	-
Ship's Boat Hanger	-	MCr0.06	-	-
ATV (Tracked)	-8	MCr0.047	-	-
Air/Raft	-5	MCr0.273	-	-
Cargo	-47	-	-	-
Totals	+0	MCr93.842 (M	1Cr75.074	with 20% standard design discount)
				- ,

Corsair (type P)

Medium-Size Starship A corsair has one purpose – to attack merchant ships and take their cargo. Though the ship has good cargo capacity, it is not viable in normal commerce. Some Corsairs are constructed for use by mercenary units, as transport and support. Without a merc license it is almost impossible to find (legal) funding for a Corsair. The vessel is fast and well armed but not quite up to military standards – a warship of the same tonnage would defeat it in a straight fight. Of course, pirates never fight fair... The Corsair requires a crew of six to operate, the pilot, an astrogator, 3 engineers and a medic. The ship cost MCr156.44 new, and takes 14 months to build.

Ship's Data (Commercial)

Corsair

Class: Starship, type P	EP Output: 15	Triple Turret: Beam
Tech Level: 11	Agility: 0	Lasers (x1), Attack Bonus
Size: Medium (400 tons)	Initiative: +0	+1 (+1 USP), Damage
Streamlining: Partial	AC: 10	1d8.
Jump Range: 1 x Jump-2	Repulsors: None	Triple Turret: Beam
Acceleration: 3-G	Nuclear Dampers: None	Lasers (x1), Attack Bonus
Fuel: 95 tons	Meson Screens: None	+1 (+1 USP), Damage
Duration: 4 weeks	Black Globes: None	1d8.
Crew: 6	AR: 0	Triple Turret: Beam Lasers (x1), Attack Bonus +1 (+1 USP), Damage 1d8. Triple Turret: Missile
Staterooms: 10	SI: 145	
Small Cabins: 0	Main Computer: Model/2	
Bunks: 0	Sensor Range: Short (Model/2)	
Couches: 0	Comm. Range: Short (Model/2)	Racks (x3), Attack Bonus
Low Berths: 20		+2 (+2 USP), Damage
Cargo Space: 159.9 tons	Cost: see description	2d6.
Atmospheric Speeds:	NoE = 75kph	
Cruising = 200kph	Maximum = 300kph	
Other Equipment: Missile N		

TAS Form 3.1 (Condensed)

Design Specifications

Design opeemeutions	-	a (•• •
Installed Components	Tonnage	Cost	EP	Notes
400-ton Hull (Cylinder)	+400	MCr40	-	-
Bridge	-20	MCr2	-	-
Computer	-0.2	MCr6.2	-	Model/2
Flight Avionics	-0.4	(MCr0.9)	-	Model/1
Sensors	-0.6	(MCr1.2)	-	Model/2
Communications	-0.4	(MCr1)	-	Model/2
Jump Drive 2	-12	MCr48	-8	-
Jump Fuel	-80	-	-	-
Maneuver Drive 3	-32	MCr16	-12	-
TL9 Power Plant	-22.5	MCr67.5	+15	-
Power Plant Fuel	-15	-	-	-
4 Hard Points	-	MCr0.4	-	-
4 Triple Turrets	-	MCr4	-	-
3 Missile Racks	-3	MCr2.25	-	-
1 Missile Magazine	-1	MCr0.1	-	-
20 Missiles	(-1)	MCr0.1	-	-
3 Beam Lasers	-3	MCr3	-3	-
Staterooms (10)	-40	MCr5	-	-
Low Berths (20)	-10	MCr1	-	-
Cargo	-159.9	-	-	-
Totals	+0	MCr195.55 (I	MCr156.44	with 20% standard design discount)
		(-		· · · · · · · · · · · · · · · · · · ·

Laboratory Ship (type L)

Medium-Size Starship Various types of laboratory ship exist; most are small, like the 400-ton design detailed here. The sole purpose of this vessel is scientific research; it cannot make its way in commerce, nor is it viable in combat. Lab ships are sometimes built to particular requirements, but are usually configurable to a user's immediate needs. The lab ship requires a crew of five; a pilot, astrogator, two engineers and a medic/steward to look after the research staff. There are 15 staterooms available for scientists, technicians and assistants, though some of these areas are usually turned into additional lab spaces. General lab equipment is assumed to be included with the ship's build cost, but very specialized equipment will have to be purchased separately. The ship costs MCr 192.622 new, and takes 11 months to build.

Class: Starship, type L	EP Output: 8 (4 excess)	No turrets or weapons
Tech Level: 11	Agility: 1 (+1 EP)	installed.
Size: Medium (400 tons)	Initiative: +1 (+1 agility)	
Streamlining: Partial	AC: 11 (+1 agility)	
Jump Range: 1 x Jump-2	Repulsors: None	
Acceleration: 1-G	Nuclear Dampers: None	
Fuel: 88 tons	Meson Screens: None	
Duration: 4 weeks	Black Globes: None	
Crew: 5	AR: 0	
Staterooms: 20	SI: 145	
Small Cabins: 0	Main Computer: Model/2	
Bunks: 0	Sensor Range: Short (Model/2)	
Couches: 0	Comm. Range: Short (Model/2)	
Low Berths: 0		
Cargo Space: 32.4 tons	Cost: MCr192.622 (new)	
Atmospheric Speeds: Cruising = 200kph	NoE = 75kph Maximum = 300kph	

TAS Form 3.1 (Condensed)

Design Specifications	

Installed Components	Tannaga	Cont	_ D	Natao
Installed Components	Tonnage	Cost	EP	Notes
400-ton Hull (Cylinder)	+400	MCr40	-	-
Bridge	-20	MCr2	-	-
Computer	-0.2	MCr6.2	-	Model/2
Flight Avionics	-0.4	(MCr0.9)	-	Model/1
Sensors	-0.6	(MCr1.2)	-	Model/2
Communications	-0.4	(MCr1)	-	Model/2
Jump Drive 2	-12	MCr48	-8	-
Jump Fuel	-80	-	-	-
Maneuver Drive 1	-8	MCr12	-4	-
TL9 Power Plant	-12	MCr36	+8	-
Power Plant Fuel	-8	-	-	-
4 Hard Points	-	MCr0.4	-	-
Staterooms (20)	-80	MCr10	-	-
40-ton Pinnace	-40	MCr45.552	-	-
Pinnace Hanger	-	MCr0.08	-	-
Air/Raft	-10	MCr0.546	-	-
12 Laboratories	-96	MCr40	-	-
Cargo	-32.4	-	-	-
Totals	+0	MCr240.778	(MCr192.6	22 with 20%standard design discount)
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Patrol Cruiser (type T)

Medium-Size Starship

The Patrol Cruiser is a very common escort and patrol ship encountered throughout Charted Space. Many are owned by mercenaries or private escort firms, but most are in Navy hands. The ship requires a crew of 12: Captain, pilot, astrogator, three engineers, four gunners, a medic and a missile technician. Eight troops are usually also carried for boarding and customs duty. Although there are 20 stateroom-equivalents aboard, only four are single-occupancy (these are used by the captain, astrogator, chief engineer and commander of troops. The rest of the crew share staterooms in pairs, with all the troops barracked in a triple-sized "sardine can" stateroom. The other 9 stateroom-equivalents are used as an armory, sickbay, wardroom and common areas for the overcrowded crew. The ship costs MCr227.76 new and takes 14 months to build.

Patrol Cruiser

Class: Starship, type P	EP Output: 26 (4 excess)	Triple Turret: Missile
Tech Level: 12	Agility: 1 (+1 EP)	Rack (x3), Attack Bonus
Size: Medium (400 tons)	Initiative: +1 (+1 agility)	+2 (+2 USP), Damage
Streamlining: Partial	AC: 11 (+1 agility)	2d6.
Jump Range: 1 x Jump-3	Repulsors: None	Triple Turret: Missile
Acceleration: 4-G	Nuclear Dampers: None	Rack (x3), Attack Bonus
Fuel: 140 tons	Meson Screens: None	+2 (+2 USP), Damage
Duration: 4 weeks	Black Globes: None	2d6. Triple Turret: Beam Laser (x3), Attack Bonus +3 (+3 USP), Damage 3d8.
Crew:	AR: 0	
Staterooms: 20	SI: 145	
Small Cabins: 0	Main Computer: Model/3	
Bunks: 0	Sensor Range: Medium (Model/3)	Triple Turret: Beam
Couches: 0	Comm. Range: Medium (Model/3)	Laser (x3), Attack Bonus
Low Berths: 20		+3 (+3 USP), Damage
Cargo Space: 24.8 tons	Cost: MCr227.76 (new)	3d8.
Atmospheric Speeds: Cruising = 200kph	NoE = 75kph Maximum = 300kph	
Other Equipment: Missile M	•	

TAS Form 3.1 (Condensed)

Design Specifications				
Installed Components	Tonnage	Cost	EP	Notes
400-ton Hull (Cylinder)	+400	MCr40	-	-
Bridge	-20	MCr2	-	-
Computer	-0.3	MCr12.6	-1	Model/3
Flight Avionics	-0.4	(MCr0.9)	-	Model/1
Sensors	-0.9	(MCr1.8)	-	Model/3
Communications	-0.6	(MCr1.5)	-	Model/3
Jump Drive 3	-16	MCr64	-12	-
Jump Fuel	-120	-	-	-
Maneuver Drive 4	-44	MCr22	-16	-
TL9 Power Plant	-39	MCr117	+26	-
Power Plant Fuel	-26	-	-	-
4 Hard Points	-	MCr0.4	-	-
4 Triple Turrets	-	MCr4	-	-
6 Beam Lasers	-6	MCr6	-6	-
6 Missile Racks	-6	MCr4.5	-	-
6 Missile Magazines	-6	MCr0.6	-	-
120 Missiles	(-6)	MCr0.6	-	-
Staterooms (20)	-80	MCr10	-	-
Low Berths (20)	-10	MCr1	-	-
Cargo	-24.8	-	-	-
Totals	+0	MCr284.7 (MC	Cr227.76 v	vith 20% standard design discount)

Subsidized Merchant (type R)

Medium-Size Starship The "Subbie" is built on the "cargo van" principle. Designed as little more than a cargo bay with engines, Subbies are very common on Jump-1 trade routes. Most ply a fixed route subsidized by the worlds on it, ensuring regular mail and freighting services. Many Subbies are armed and configured to carry mail. The Subsidized Merchant requires a crew of five to operate; the pilot, engineer, and an astrogator along with a medic and steward to attend to the passengers. Since the vessel is larger and carries more passengers than the Type A or A2, the steward has a full-time job. The medic often assists or doubles as an assistant to relieve the load on the chief engineer. The ship cost MCr98.426 new, and takes 14 months to build.

Subsidized Mercha		
Class: Starship, type R	EP Output: 4	No turrets or weapons
Tech Level: 9	Agility: 0	installed.
Size: Medium (400 tons)	Initiative: +0	
Streamlining: Partial	AC: 10	
Jump Range: 1 x Jump-1	Repulsors: None	
Acceleration: 1-G	Nuclear Dampers: None	
Fuel: 44 tons	Meson Screens: None	
Duration: 4 weeks	Black Globes: None	
Crew: 5	AR: 0	
Staterooms: 13	SI: 145	
Small Cabins: 0	Main Computer: Model/1	
Bunks: 0	Sensor Range: Close (Model/1)	
Couches: 0	Comm. Range: Close (Model/1)	
Low Berths: 9		
Cargo Space: 236.5 tons		
Atmospheric Speeds:		
Cruising = 200kph	Maximum = 300kph	
Other Equipment: 20 ton la		

TAS Form 3.1 (Condensed)

Design Specifications

Installed Components	Tonnage	Cost	EP	Notes
1	Tonnage		LP	110105
400-ton Hull (Cylinder)	+400	MCr40	-	-
Bridge	-20	MCr2	-	-
Computer	-0.1	MCr2	-	Model/1
Flight Avionics	-0.4	(MCr0.9)	-	Model/1
Sensors	-0.3	(MCr0.6)	-	Model/1
Communications	-0.2	(MCr.0.5)	-	Model/1
Jump Drive 1	-8	MCr32	-4	-
Jump Fuel	-40	-	-	-
Maneuver Drive 1	-8	MCr12	-4	-
TL9 Power Plant	-6	MCr18	+4	-
Power Plant Fuel	-4	-	-	-
2 Hard Points	-	MCr0.2	-	-
Staterooms (13)	-52	MCr6.5	-	-
Low Berths (9)	-4.5	MCr0.45	-	-
20-ton Launch	-20	MCr9.842	-	-
Launch Hanger	-	MCr0.04	-	-
Cargo	-236.5	-	-	-
Totals	+0	MCr123.032	(MCr98.42	26 with 20%standard design discount)

Subsidized Liner (type M) Medium-Size Starship The Subsidized Liner is almost always tied to a fixed route. Liners carry cargo as well as passengers. Three hardpoints are fitted for turrets, but except out on the frontiers or in troubled regions, liners usually carry no armament. The Subsidized Liner requires a crew of eight: the pilot and astrogator along with 2 engineers, a medic, and 3 stewards to attend to the passengers. The ship cost MCr238.386 new, and takes 22 months to build.

Subsidized Liner		
Class: Starship, type M	EP Output: 18 (12 excess)	No turrets or weapons
Tech Level: 12	Agility: 2 (+2 EP)	installed.
Size: Medium (600 tons)	Initiative: +2 (+2 agility)	
Streamlining: Streamlined	AC: 12 (+2 agility)	
Jump Range: 1 x Jump-3	Repulsors: None	
Acceleration: 1-G	Nuclear Dampers: None	
Fuel: 198 tons	Meson Screens: None	
Duration: 4 weeks	Black Globes: None	
Crew: 8	AR: 0	
Staterooms: 21	SI: 175	
Small Cabins: 0	Main Computer: Model/3	
Bunks: 0	Sensor Range: Medium (Model/3)	
Couches: 0	Comm. Range: Medium (Model/3)	
Low Berths: 20		
Cargo Space: 202.4 tons	Cost: MCr238.386 (new)	
Atmospheric Speeds:	NoE = 275kph	
Cruising = 825kph	Maximum = 1100kph	
Other Equipment: 20 ton la	unch.	
TAS Form 3.1 (Condensed		Shin's Data (Commorcial)

TAS Form 3.1 (Condensed)

Design Specifications

Installed Components	Tonnage	Cost	EP	Notes
600-ton Hull (Cylinder)	+600	MCr63	-	-
Bridge	-20	MCr0.1	-	-
Computer	-0.3	MCr12.6	-1	Model/3
Flight Avionics	-0.8	(MCr1.8)	-	Model/2
Sensors	-0.9	(MCr1.8)	-	Model/3
Communications	-0.6	(MCr1.5)	-	Model/3
Jump Drive 3	-24	MCr96	-18	-
Jump Fuel	-180	-	-	-
Maneuver Drive 1	-12	MCr18	-6	-
TL9 Power Plant	-27	MCr81	+18	-
Power Plant Fuel	-18	-	-	-
3 Hard Points	-	MCr0.3	-	-
Staterooms (21)	-84	MCr10.5	-	-
Low Berths (20)	-10	MCr1	-	-
20-ton Launch	-20	MCr9.842	-	-
Launch Hanger	-	MCr0.04	-	-
Cargo	-202.4	-	-	-
Totals	+0	MCr297.982	(MCr238.	386 with 20% standard design discount)

Mercenary Cruiser (type MC)

Medium-Size Starship Designed to fit the needs of mobile merc units, the Mercenary Cruiser can carry a platoon of ground troops or act as an escort-vessel-for-hire. The ship has a good Jump range and high acceleration for a non-Naval vessel. Almost all Mercenary Cruisers carry at least one weapons turret (up to 8 can be shipped) and most will have boat pilots for the cutters. This will raise the crew requirement beyond the minimum listed here. The Mercenary Cruiser requires a crew of eight: the pilot, astrogator, 5 engineers and a medic. The ship cost MCr412.675 new, and takes 25 months to build.

Ship's Data (Commercial)

Mercenary Cruiser		
Class: Starship, type MC	EP Output: 30	Triple Turret: Empty.
Tech Level: 12	Agility: 0	Triple Turret: Empty.
Size: Medium (800 tons)	Initiative: +0	Triple Turret: Empty.
Streamlining: Partial	AC: 10	Triple Turret: Empty.
Jump Range: 1 x Jump-3	Repulsors: None	Triple Turret: Empty.
Acceleration: 3-G	Nuclear Dampers: None	Triple Turret: Empty.
Fuel: 270 tons	Meson Screens: None	Triple Turret: Empty.
Duration: 4 weeks	Black Globes: None	Triple Turret: Empty.
Crew: 8	AR: 0	
Staterooms: 25	SI: 205	
Small Cabins: 0	Main Computer: Model/5	
Bunks: 0	Sensor Range: Very Long (Mod/5)	
Couches: 0	Comm. Range: Very Long (Mod/5)	
Low Berths: 0		
Cargo Space: 165.2 tons	Cost: MCr412.675 (new)	
Atmospheric Speeds:	NoE = 75kph	
Cruising = 200kph	Maximum = 300kph	
Other Equipment: Modular	Cutter (x2).	

TAS Form 3.1 (Condensed)

Design Specifications

Installed Components	Tonnage	Cost	EP	Notes
800-ton Hull (Sphere)	+800	MCr56	-	-
Bridge	-20	MCr4	-	-
Computer	-0.5	MCr36.5	-3	Model/5
Flight Avionics	-0.8	(MCr1.8)	-	Model/2
Sensors	-1.5	(MCr3)	-	Model/5
Communications	-1	(MCr2.5)	-	Model/5
Jump Drive 3	-32	MCr128	-24	-
Jump Fuel	-240	-	-	-
Maneuver Drive 3	-64	MCr32	-24	-
TL9 Power Plant	-45	MCr135	+30	-
Power Plant Fuel	-30	-	-	-
8 Hard Points	-	MCr0.8	-	-
8 Triple Turrets	-	MCr8	-	-
Staterooms (25)	-100	MCr12.5	-	-
Modular Cutter (2)	-100	MCr102.844	-	-
Cutter Hangers (2)	-	MCr0.02	-	-
Cargo	-165.2	-	-	-
Totals	+0	MCr515.344 ((MCr412.0	675 with 20% standard design discount)