Endworld PnP

loosely/rp driven with 3d10 system by Maric This is a rough draft, version 0.1 Rulebook

The EndWorld

[[someone has to still write flufftext... its gonna be meeeee]]

- a few hundred years after WW III
- Taint that slowly kills everyone breathing the air and degrades tech over time
- Supervivo called snobby "pure" humans in plexiglass domes, protected by militia mechs
- Wild Tribespeople who have "adapted" and live a short and kind of feral life since they cant use technology, cultivated monsterlike animals and ability to influence Taint in some
- Alacast (puryfying raction with taint in catalysts), drinking Water (since taint affects water) and Scrap are valuable, no interregional Money, Credits are used in only one Dome and maybe can be transferred within one Region
- Anomalies all over the place with less Taint, more gravity, singular heat point, singular cold point, radiation, decreased structural integrity and so on

Rules

Rolling and Checks

This System uses 3 ten sided dice. A Check is a roll of one to three ten sided dice, interpreted in a certain way, with the result describing how successfull on a scale of 1-10 the attempted action was. 1-4 are usually bad, 5 is usually neutral and above that are degrees of actual success. This may change depending on situation, judged by the Gamemaster.

The number of dice rolled and the way they are interpeted varies with Advantage. Circumstances that are highly favourable for the action may give Advantage, while circumstances that are highly unfavourable may subtract from that Advantage (give Disadvantage). Minor factors are usually expressed in a change of the required result of the check. Under certain circumstances (like good roleplay or similar) the Gamemaster may grant reroll, which allows the player to choose one die of the Check after it has been rolled and reroll it. The new result counts instead of the old one.

How many dice are rolled for a Check and how they are interpreted can be found in the table:

Advantage	Dice	Interpretation
-2	3	take lowest
-1	2	take lowest
+0	1	
+1	2	take highest
+2	3	take highest

Proficiencies

Proficiencies represent the aspects of the gameworld that the character has an advantage in. Each point of proficiency is worth a one point advantage while doing a Check related to it. A character can have a maximum of two points per Proficiency for a maximum of two points of Advantage. Having no points in a Proficiency is called not having Proficiency, having one point is called having Proficiency and havint two points is called having Mastery,

Proficiencies are grouped into Priorities. The Priorities a character can have are: Tech, Social,

Combat, Mind, Physical and Practical. The related Proficiencies can be found in the table below.

Priorities	Tech	Social	Combat	Mind	Physical	Practical
Proficiencies	Technology Science Engineering	Negotiate Expression Slyness		Perception Resonance Willpower	Athletics Stealth Endurance	Knowledge Profession Survival

Trade

These entries in the table below are more or less equivalent. Rolling for price variance might be done if there is no in-world reason why certain things might be more or less expensive. If that is the case the prices vary by $((-1)^{1d10} \cdot 1d10 \cdot 5)\%$. Additionally everyone a character trades with has self interest and will keep $10 \cdot (10-[\text{Negotiation-Check}])\%$ of the tradevalue.

Goods, at 100% value each line is equivalent to one another and equivalent to 1 character creation point

Storage	Article
100g	Alacast
500g	Experimental Tech Scrap (ETS)
1kg	High Tech Scrap (HTS)
5kg	Medium Tech Scrap (MTS)
50kg	Low Tech Scrap (LTS)
500kg	Base Tech Scrap (BTS)
1000L/1t	drinking Water (500days of drinking)
500L/35kg	Liquid Hydrogen
1t	Coal
150L	LiquidCombustionFuel
200kg	High Energy Rations (0.4kg/(day·person))
1t	Normal Food (1.5 kg / (day·person))
1	Medium Quality Blueprint

If a player has a good idea maybe that.

Example:

Character A wants to get rid of 5 tonnes of Base Tech Scrap in favor of more easily transportable Alacast in a local Dome. Since the Gamemaster is lazy there are no storyelements influencing the prices, so they are rolled. First, the value of the BTS is determined to be (Roll: 6, 4) $((-1)^6 \cdot 4 \cdot 5)\% = +20\%$. Then the value of Alacast is determined to be (Roll: 10, 3) $((-1)^{10} \cdot 3 \cdot 5)\% = +15\%$. The result is that Character As scrap is worth $105 \cdot 5 = 525$ grams of Alacast. He negotiates (in which he has Proficiency) with a local merchant and manages to negotiate terms in which the merchant retains (Roll: $4, 9 \Rightarrow 9$) $10 \cdot (10 - 9)\% = 10\%$ of the Traded value. He decides to trade and gets 472.5 grams of Alacast.

Combat

Life:

Every entity has a Lifepool. A Lifepool describes how far away that entity is from its failure point. In the case of a Mech, Mount or Human, that would mean being unable to fight or act in an effective manner. Living entities start dying when their Life reaches 0. How fast something dies is decided by the Gamemaster who may consult a Willpower-Check.

If a character gets damaged, the Gamemaster may call for an Endurance Check (aided by armour) against the amount of inflicted damage. If it fails, a wound with a level of the difference between Check and damage is inflicted on that character.

Rounds:

Combat is done in rounds. Each round is usually about 3-5 seconds long. Every character present acts in turn (determined by circumstances or a Stealth, Perception, Willpower or other situational

check) and can usually move and do an action (an attack or action that can be done in the remaining time).

Combat against grunt groups/hordes:

The mob rolls its performance depending on their Advantage/Disadvantage

The fighting character decides (if he can, as appropriate by his gear/the situation) to fight offensively, defensively or passively and rolls the respective combat stat, then the differences between each of the rolled dice of the combat roll and the groups performance value is calculated.

- Offensive style: For each positive difference (character roll > group performance) the character makes as many group members unable to continue fighting as the difference is. The biggest negative difference (character roll < group roll) is applied to the characters Lifepool as damage.
- Defensive style: For each positive difference (character roll > group performance) the character makes one group member unable to continue fighting. The difference between the best die and the group performance if negative is applied to the characters Lifepool as damage.
- Passive style: Grants one reroll and one disadvantage for the attacker. Same as defensive, no damage is inflicted.

Quick combat against single enemies:

Each round both parties roll their combat roll(one die if disadvantaged and agressive). If both are in an aggressive style add it up and whoever has less total takes the difference in damage. If both are defensive, interpret the roll according to advantage, the difference is applied as damage to the Lifepool of the character whose Check came up less. If one character is fighting agressively and the other defensively, proceed as if both were defensive, but the defensive character looses ground each round. A character who fighting passively (as in dodging and running) will gain one reroll, never inflict damage and otherwise be treated like he is fighting defensively.

Detailed combat: The attacking character makes their to hit check (meele or ranged in most cases). The defending character Checks for the same Proficiency with which they were attacked (for now, maybe not forever) If the attacker wins, they hit, on a draw the attack grazes. On a hit roll weapon damage. The dice are added together and applied as Combat damage. Attacking upwards in size (human sized weaponry against a Mech or Mount) halves that damage (rounded down), Attacking downwards in size (Mech sized weaponry against a human) doubles that damage.

Health and Taint

Healing:

Humans have a base life regeneration of 1 per day, wounds heal depending on the wound type with a normal speed if treated. If a wound is left untreated it stops health regeneration and may get infected (daily Endurance Check against level of the wound) and start inflicting damage each day. An infected wound that is treated will count as an (untreated)normal wound for as long as it is treated and will not infect further. If treatment stops it counts as infected again. If it is permanently treated it then can count as a normal wound and if treated again will count as a treated wound. If there is any infected or untreated normal wound the passive life regeneration stops. Healing of wounds can be sped by with a daily Profession[Medical] Check:

- 1, 2 inflict a point of damage and infect the wound
- 3, 4 inflict one point of damage
- 5, 6 treat the wound for that day
- 7, 8 treat the wound for that day and heal one lifepoint
- 9 treat the wound for that day and heal two lifepoints
- 0 treat the wound permanently and heal two lifepoints

This check can be done for non wounded characters to restore lifepoints. In that case a Check of 1

or 2 simply inflicts damage.

Categories:

Every Character has a Category ranging from A to C. So called CatA Humans are usually Supervivo, CatBs are outlaws or for some reason living outside and CatCs are Tribals. Every Entity that can be affected by Taint from buildings over technology to living things have Category ratings. The Taintresitances of Categories A, B and C are 1, 2 and 3 respectively.

Taint:

Taint is a term used to describe the amalgamation of technology destroying nanoweapons, radiation, pollution and general environmental hazard. Taint is airborne, waterborne, bloodborne and permeates pretty much everything in the environment. It is usually assigned a level describing its intensity. Only within the Domes of the Supervivo, inside a Mech or in a similarily purified environment the Taintlevel is 0. Levels 1-4 are rare areas of low Taint, like Mines, Airlocks, outdoor markets, outdoor settlements and so on. Levels 5-8 are the most common and usually uninhabited. Levels 9 and higher are found in Oceans, Deserts, and somewhat secluded areas. There is no upper limit for Taintlevels.

If an entity is in an area with Taint, every hour Taintresistance is checked. If the Check fails, the entity takes one point of Taint damage (healing normally if applicable). If the check fails with a difference of 10 or more, additional damage might be taken.

Taintdamage: Anytime the a character receives Taint damage check Taintresistance without external modifiers. If it fails against the Taint damage currently on the character, the character increases in Charactertaint. Charactertaint is applied as an internal bonus on the Taintresistance Check.

Taintcheck: Taintresistance with no bonuses from external sources or Charactertaint, but +2 for CatB and +4 for CatC ist tested against Charactertaint. If it fails, one point of Taint damage is inflicted. If it fails with a difference of 10 or more, additional damage is inflicted. On a draw no damage is applied, but for the next day or until Taint damage is taken Taintresistance is modified by -1.

Every day a Taintcheck occurs for every character with Charactertaint (unless the bonuses add up to the Charactertaint or greater). Every started hour a character directly interacts with an entity, the Charactertaint of that character is applied as Taint damage, resisted by a Taintresistance Check.

A hermetical seal of a level of X lowers the level of the Taint behind it by X (they are usually from 6 upwards) Taint still penetrates weak hermetical seals since it is radiation and nanoparticles. Air has to be purified separately or enriched with oxygen. (One human consumes about 500-600 litres of oxygen per day.) The Domes of the Supervivo for example have a level 25 hermetical seal with purified and oxygenenriched air.

Examples of external roll bonuses

- 1 An alacast infused rag or a shut wooden door (although oxygen may run out)
- 2 a breathermask or a simple airlock (again, oxygen)
- 3 a full gasmask or an airtight airlock
- 4 a gasmask with enhanced scrubbing (a little backpack) or air a basic air filtering facility
- 5 a high tech air intake or scrubbing plant
- 6+ some truly experimental stuff

(for roll bonuses shift the right side of the table down by the bonus)

Approximate survival durations (with 0 Charactertaint and without increases in Charactertaint):

Category A		Cate	egory B	Category C		
Taint level	Duration	Taint level	Duration	Taint level	Duration	
0	indefinite	0	indefinite	0	indefinite	
1	tainting	1	indefinite	1	indefinite	
2	7 and a half days	2	indefinite	2	indefinite	
3	2 and a half days	3	tainting	3	indefinite	
4	1 and a half days	4	13 days	4	tainting	
5	1 day and 4 hours	5	5 days	5	1 month 1 week	
6	21 hours	6	3 days	6	1 week 3 days	
7	17 hours	7	2 days	7	4 and a half days	
8	15 hours	8	1 day 9 hours	8	2 and a half days	
9	13 hours	9	1 day	9	1 and a half days	
10	11 hours	10	19 hours	10	29 hours	
11+x	10 hours - x	11+x	18 hours -x	11+x	28 hours -x	

(reference: $X/(24\cdot(1-(Y))-1)$ where X is the base HP and Y is the % chance of rolling the Taint level or better; X HP divided by 24 hours in a day times lost health in a day minus 1 (normal healing))

Tech

Electrolysis splits 1 L H2O into 622.22 L Oxygen und 1244.4 using 3.7037 kwh 1pp=40watts

Blueprints:

Blueprints are required for most engineering tasks. To create a blueprint a character needs the appropriate materials (usually a computer of some sort) the time required is based on the complexity of the project. To find out if the blueprint is within the capabilities of the character check Science against the difficulty of the project. The bonus the blueprint provides is [Science Check]/2(rounded up)-3. Even a blueprint with a negative bonus is usefull, since it enables the ability to build the item in question at all.

A blueprint states the name of the Item, its category, its bonus on a Taintresistance check and the required materials.

Engineering:

Building something requires a blueprint, the required materials, a workshop or something similar. Check Engineering modified by the blueprint bonus and the conditions (having nothing but a makeshift wrench in the desert might be -5, having state of the art tools in an antigravpowere workshop might be +3). The result times 10 is the efficiency percentage at which the build functions. (for example damage per round, lifepoints, poweroutput and so on)

Character Creation

First, get a general idea who your character is and what they do. Note your Character name, your name, the name of the Campaign and your concept for the character on the Sheet. This will help you choose in the following steps.

Step 1 - Categories

Choose Category:

If you have grown up without being in contact with Taint you are probably a Dome dwelling Category A Supervivo.

Pro: can use all Tech

Contra: very weak versus Taint

If you have a past of spending time outside in the less tainted areas, forcedly or of your own acchord you might be an outlaw, a bandit or just someone lucky enough to survive outside on their

own.

Pro: can use Tech up to Midtech; limited access to Taintworks; HP +5

Contra: Not excelling at anything.

If you are a member of the great Tribes, enduring the Taint, hunting your food without reliance on frail Technology, you are a Category C "Tribal". You may also be born by a mother who spent most of her pregnancy in an area with 3 or more Taint.

Pro: Access to Taintworks; HP +10; strong versus Taint

Contra: can use only Basetech

Your Lifepoint maximum is 10 + your Category Bonus.

Note your Category and Lifepoint maximum on your Sheet. You may choose your starting Taint from 0-5 at no cost and note it aswell. (although you will start dying if it is too much, read up on Charactertaint in the chapter Taint)

Step 2 - Proficiencies

Put your Priorities (Tech, Social, Combat, Mind, Physical and Practical) in the order that you think they are most usefull to your character concept. Note the order of the Priorities with the digits 1 through 6 in the boxes on the charactersheet.

In your primary priority you get 3 skillpoints, in your secondary priority you get 2 skillpoints and in your tertiary priority you get 1 skillpoint. Choose any 3 Priorities (you can choose a Priority twice or even thrice), you get another skillpoint in those Priorities.

Within a Priority you can spend 1 skillpoint to gain a Proficiency and spend 2 more skillpoints to gain Mastery in something you have Proficiency in.

Later you can buy one skillpoint in a Priority for (9+ the number in the box next to it)XP

Step 3 - Endworldpoints

You get 50 Endworldpoints, you can spend these on: 1 Mecha OR 1 Beast (see table below) Goods (see table in chapter Trade)
Taintworks (see list below)
XP (1 XP for 1 point)

—TAINTWORKS

To be able to work Taint is to be able to controll the Nanoswarms that make up part of the Taint. A character wishing to employ a certain technique first has to let the Taint flood through them and make a connection. The Charactertaint living in their body has to be used to imprint their will onto the Taint around them. To do so puts the body in great peril.

Immediately do a Taintcheck (see chapter Taint in Health and Taint). Then, Check Resonance +Charactertaint. If the result is higher than the complexity of the technique, it succeeds with a degree of success depending the amount by which the roll exceeded the complexity. If the result was not higher than the complexity, the difference is dealt to the character as damage(not Taint damage).

Effects marked as passive have specific start and end conditions.

Effects marked as sustained stay for as long as the character focusses on them. Each sustained effect is applied as a -1 modifier to all subsequent rolls. Once a day a Willpower Check can be made, the result of which reduces the modifiers from sustained effects.

List of Taintworks(incomplete):

- Achieve Symbiosis: Complexity 18, required ambient Taint: 8
Passive. Begins after meditating for at least an hour. As long as at least 1 Charactertaint remains inside the Character, they dont roll the daily Taintcheck anymore.

- Concentrate: Complexity 11, required ambient Taint: 1
 Sustained. After concentrating on a place in line of sight for one round, raise ambient Taint at target by [degree of success]. Covers about a cubic meter.
- Infuse: complexity 12, does not require ambient Taint Restores [degree of success] LP to touched target. Raises Charactertaint of target characters by 1. Inflicts [degree of success]+1 Taint damage over 10 days to target constructs.
- Expunge: complexity 15, does not require ambient Taint Expunges up to [degree of success] Charactertaint, dealing twice the expunged amount as Taint damage.
- Gravitation: complexity 15, required ambient Taint: 6
 Sustained. After conentrating on a place in line of sight for three rounds, the local gravity at that place raises by [degree of success]G. covers about ten times ambient Taint above 5 square meters.

-MECHA

When choosing a system that has a higher Tech level than the mecha base the Endworld points are doubled for each step up.

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Tech	Endworld Point Cost	System Slots	Base Cargo Capacity	Base Health (Failure- point)	Fuel (in combat, OOC takes 1/10)
В	5	15	50 m3	500	Coal/Charcoal in 1 tonne/h
L	6	13	25 m3	200	Liquid Combustion Fuel in 50 L/hour
M	7	11	12 m3	100	Hydrogen (PEM Stacks) in 62 L/hour
Н	8	9	6 m3	80	Alacast in 100g/hour (AC)
Ε	9	7	3 m3	50	Something experimental (cold fusion? zero point energy?)

System

	Endworld	
Tech	Point	Examples
В	Cost 1	Water Destillery, Rail based movement system, simple wheels, Manned gun, Ramshield, Floatation, Extra Armorplating (50), Extra Cargo (10% of base), steam engine (for rotation), passive cooling
L	2	Lowtech Detox-Detaint Equip(LDDE; +1), suspended wheels, tracks, bipedal, Dynamo (for electricity), Autoturret, Jumpjets, Mech sized Sword, water cooling circle(-3/r), lowtech Heatsink (+20)
M	3	Shields (+20, +1d10/round), flexible/balanced bipedal, Boostjets, Deployable Solar Panel, Sensorarray, MDDE (+2), Base AI system, Mech sized Weaponry (Advanced (Vibro/electro/Monofilament) Sword), Rocketlauncher, Water venting system(-10/r;active), midtech Heatsink(+50)
Н	4	BCI, Advanced AI, WeaponLaser, Sustained Flight, Advanced Shields (+30, +2d10/round), Nano Repair Cloud, Automedic, overdrive mode (when heat caps out), Hightech Heatsink (+150)
Е	5	Quantum Lookahead Sensors, Blink Teleporter, Timerift Shields (Delays Damage 1d10 rounds), EnergySword

Systems:

A Mech needs a movement system, a hermetical seal and a heat system and should probably have weapons and Supportsystems

Movement Systems:

Type	Fuel	Speed	heat/r	Notes
	Con-		in	
	sumption		combat	
Basetech				
railbased movement system	50%	80 km/h	1	confined to rails
simple wheels	50%	30 km/h	1	requires sufficiently flat terrain
floatation system	150%	15 km/h	1	allows movement on water
Lowtech				
suspended wheels	50%	50 km/h	1	requires more or less flat terrain
tracks	150%	50 km/h	2	requires far less flat terrain
bipedal	100%	20 km/h	2	requires nonvertical terrain
jumpjets	100000%	$100~\mathrm{km/h}$	10	flying about 80m, consumes 0.8 times base consumption per round
Midtech				
flexible bipedal	100%	30 km/h	1	maneuvrable like a large human
boostjets	60000%	150 km/h	20	flying about 120m/r consumes 0.5 times
				base consumption per round
Hightech				
sustained flight	500%	500 km/h	5	requires starting and landing (3 turns each), Disadvantage 1 in combat, doubles environmental Taint before soaking

Hermetical Seals:

Tech	Seal Level
Base	5
Low	7
Mid	10
High	20
Experimental	50

Heatsystems:

Type	Effect
Basetech	
passive heatsink	heat capacity (10),
	heat dissipation 1/round (passive)
Lowtech	
water cooling circle	heat capacity (10) ,
	heat dissipation 3/round(passive, controllable)
large heatsink	heat capacity (20),
	heat dissipation 1/round(passive)
Midtech	
optimized heatsink	heat capacity (50),
	heat dissipation 2/round(passive)
water venting system	heat capacity (30), vent 10 water/round
	to dissipate 10 heat/round (requires water)
Hightech	
fractal heatsink	heat capacity(100),
	heat dissipation 3/round(passive)
OVERDRIVE	heat capacity(80), heat dissipation 1(passive, controllable while not in overdrive.)
	when at heatcap, gain [heat] Overdrivepoints, able to act(incl moving)
	at double speed while spending action points instead of gaining heat. When
	Overdrivepoints reach 0, Mech shuts down for 2d10(added) rounds

Furthermore

Weaponsystems:

Type	Size/ Heat	Ra	ange	Bonuses	Damage	e Note
Sword	H 1	0	- 3m	0A	2d10	BT
ChainSword	Н 3	0	- 3m	0A	3d10	LT
LaserSword	H 4	0	- 3m	1A	3d10	HT
VibroSword	H 3	0	- 3m	1A	2d10	MT
BroadSword	$_2^{\mathrm{H}}$	0	- 3m	1D	3d10	BT
Handgun	Н	1	- 30m	0A	2d10	
	1	31 50	- 50m - 100m	1D n 2D	$\begin{array}{c} 1d10 \\ 1d10/2 \end{array}$	reload 1 after 17 shots
Shotgun	H 1	1 6 16 31	- 5m - 15m - 30m - 50m	0A 1A 2A 0A	3d10 2d10 1d10 1d10/2	+2 against groups(spread) reload 1r after 2 shots

Assault Rifle	Н	3 - 60m 1A	2d10	+1 against groups(fast)
	2	81 - 150m 0A	2d10	reload 1r after 10 bursts
		151 - 250m OA	1d10	
Sniper Rifle	Н	10 - 50m 1D	2d10	can't move and shoot, -1 against groups(slow)
	2	50 - 250m 0A	2d10	reload 2r after 5 shots
		250 - 1000m1A	2d10	Willpower Check \geq 9crits for +1d10 damage
Gauss Rifle	Н	15 - 50 2D	2d10	can't be shot if moving this or last round
	3	51 - 150 1D	3d10	reload 3r after 2 shots
		151 - 300 OA	3d10	Willpower Check \geq 9crits for +1d10 damage
		301 - 1500 1A	3d10	-2 against groups(heavy,slow)
Laser Pulser	Н	1 - 30 1D	3d10	+1 against groups(fast)
	2	31 - 50 1A	2d10	no reload
		51 - 100 OA	1d10	
Laser Beam	Н	5 - 50 2D	3d10	-1 against groups(heavy)
	3	51 - 100 OA	3d10	no reload
		101 - 200 1A	2d10	
Sword	M	0 - 3m 0A	2d10	BT
	1			
ChainSword	M 1	0 - 3m 0A	3d10	LT
LaserSword	M	0 - 3m 1A	3d10	HT
200012014	4	0 0111 111	5410	
VibroSword	${\bf M}$	0 - 3m 1A	2d10	MT
	4			
BroadSword	Μ	0 - 3m - 1D	3d10	BT
	4			
Blaster	M	5 - 30m 1A	2d10	
2100001	2	31 - 50m 0A	1d10	reload instant with 500g MTS after 20 Blasts
		50 - 100m 1D	1d10	
		101 - 200m 1D	1d10/2	
Blunderbuss	Н	1 - 10m 0A	3d10	+2 against groups (spread)
	1	11 - 25m 1A	3d10	reload 1r with 10 kg BTS/rubble after 1 shots
		26 - 50m 2A	2d10	
		51 - 100m 0A	1d10	
Repeater	M	5 - 80m 1A	2d10	+1 against groups (fast)
Cannon				
	2	81 - 130m 0A	2d10	reload 1r with 2 kg LTS after 15 bursts
		131 - 200m OA	1d10	
		201 - 500m 1D	1d10	
AntiTank	M	10 - 80m 1D	2d10	can't move and shoot, -1 against groups(slow)
Rifle		01 800 11	0.140	1 10 11 100 1100 111 100 6 7 1
	4	81 - 500m 1A	3d10	reload 2r with 500 g MTS and 1kg LTS after 5 sh
		500 - 1800m1A	2d10	Willpower Check \geq 9crits for +1d10 damage

Gauss Can- non	Μ	15 - 100	2D	2d10	can't be shot if moving this or last round		
11011	5	101 - 250	1D	3d10	reload 3r with 100g HTS and 2 kg BTS after 4 shots		
	Ŭ	251 - 1000		3d10	Willpower Check \geq 9crits for +1d10 damage		
		1001- 2500		3d10	-2 against groups(heavy, slow)		
		1001 2000	, 111	0410	2 agambe groups (nearly, storr)		
Laser	Μ	1 - 50	1D	3d10	+1 against groups(fast)		
Burster							
	3	51 - 100	1A	2d10	no reload		
		101 - 200	0A	1d10			
Laser Beam	Μ	5 - 50	2D	3d10	+1 against groups(slow, cutting, spread)		
	6	51 - 200	1A	3d10	no reload		
		201 - 500	0A	2d10			
Miscellaneo	us Sy	stems:					
Type Heatcost			Descr	iption			
Basete							
Water Destille	=ry	-		-	eat and "burned off" electricity to convert 0.5 liters		
					er into drinkable water per hour		
					: If this is the only active system, the water/hour		
			increa	ases to 10) L/h.		
M1 C			Λ	1 4			
Manned Gun as weapon			A manual turret with a human sized gun (the gun gets +20% Range and +20% (rounded down) damage)				
			(the g	gun gets	+20% Range and +20% (rounded down) damage)		
Ramshie	old		+ 20 T	D Con l	be used to ram into other objects		
Hamsin	ciu	-			10 km/h 1d10 damage is inflicted on target		
					amage is inflicted on ramming character		
			and 1	u10/2 ua	unage is innicted on raintining character		
Ext	tra.	_					
Armourplating		inreases LP by 50					
TITIII of provi	8		1111 000	.00 11 0,			
Ext	${ m tra}$	-					
Cargo			increases Cargo capacity by 10% (of base Cargo capacity)				
	~						
Steam Engi	ine	-	neede	d to use	powered Lowtech Systems		
					•		
Lowtech							
LDDE	5,	/r Low	tech De	etox Deta	aint Equipment.		
		Pow	erRero	ute: If th	is is the only active system, Every hour Converts		
					0 kg tainted food into		
		[Sur	vival C	heck +1	(maximum 10)kg normal food		
Dynamo	-	need	led to ı	ise powei	red Midtech Systems		
		~		. ~			
Autoturret	as we				, can be controlled from cockpit,		
		can	be auto	omated w	with AI		

Midtech					
Shields	5	can store up to 20 points of shielding. when used generates 1d10 of shielding on Collapse generates 1d10 of Heat only active in combat mode. (full fuel consumption)			
Deployable Solar Panel	$1/\mathrm{r}$	provides up to 0.2 Base fuel consumption while active active for 4-10 hours per day deploying/undeploying takes 3 turns. If deployed when damaged (except shields), system needs repairs			
Sensorarray	3/sweep or 1/r passive	more information about surroundings Radar, infrared, Taint, sound, camera zoom, +2 to Perception Checks			
MDDE	$5/\mathrm{r}$	Midtech Detox Detaint Equipment various uses. PowerReroute: If this is the only active system, Every hour Converts 5 gram Alacast + 50 kg tainted food into ([Survival Check +2](maximum 10))·5kg normal food			
Base AI System	-	a basic AI, capable of doing scripted tasks, image recognition, manning an autoturret and general assistance-AI Jobs			
Hightech					
BCI	you o a bor	n computer Interface. If you have the right implants, can directly interface(with a Resonance Check) and get nus on every action you do while interfaced .2; 3-4:-1; 5:0; 6-7:+1; 8-9:+2; 10:+3)			
Advanced AI System	but i	lo everythin a Base AI can, s more proficient s able to act with small amounts of independence			
Advanced Shields	when on C	8 can store up to 30 points of shielding when used generates 2d10 of shielding on Collapse generates 2d10 of Heat only active in combat mode (full fuel consumption)			
Nano Repair Cloud	 4/r A cloud of Nanobots that can repair the Mech Use 100g HTS, declare what you want to repair, Make a Technology Check: 1-2: just consumes needed repair materials without repairing; 3-4: nothing happens, System is still active for 1d10 rounds; 5-6: consumes four times the needed repair materials, starts repairing 7-8: consumes twice the needed repair materials, starts repairing 9-10: consumes the needed repair materials, starts repairing while repairing the cloud consumes 100g Repair Material /round and uses it to repair damage at that rate until the allocated materials are empty or the mech overheats 				
Automedic	inclurolls provi provi when	utomated, portable medbay capable of most medical procedures, ding detaint treatment and ressurection, given supplies 1d10(or 2d10 if an advanced AI is present) +3 when automatic or des +3 for a Profession[Medical] roll des advantage for easier medical procedures a running in assistance mode emulate an MDDE			

Experimentaltech		
Quantum		Provides the same basic functionality as the Sensor array (for the same cost)
Lookahead	10	But is able to sensor sweep the future make predictions about the next
Sensors		1d10 rounds.
Blink Teleporter	20	Teleports 1d10d10(added) or less meters in a direction.
Timerift	5/r	While active all incoming damage gets delayed for 1d10 rounds before it is applied. shields

a 10L-HydrogenFuelCell(HFC-10) Cylinder 20cm diameter, 38 cm height =11.94L(Midtech)

provides 30,000pp at 3pp/s, used to power up basic systems (like hydrogen gas pumps for the PEM Stacks)

HFC 100 have 300,000 at 5 pp/s

HFC Powered mechs typically generate negative heat (they warm up to 80 c but liquid H2 is drawing heat while expanding) while in operation.