

Extractor Resource R →	Basic Industry Facility Product P1	Planet Types	Planets
Aqueous Liquids	Water	B G I O S T	B = Barren
Autotrophs	Industrial Fibers	T	G = Gas
Base Metals	Reactive Metals	B G L P S	I = Ice
Carbon Compounds	Biofuels	B O T	L = Lava
Complex Organisms	Proteins	O T	O = Oceanic
Felsic Magma	Silicon	L	P = Plasma
Heavy Metals	Toxic Metals	I L P	S = Storm
Ionic Solutions	Electrolytes	G S	T = Temperate
Micro Organisms	Bacteria	B I O T	
Noble Gas	Oxygen	G I S	
Noble Metals	Precious Metals	B P	
Non-CS Crystals	Chiral Structures	L P	
Planktic Colonies	Biomass	I O	
Reactive Gas	Oxidizing Compound	G	
Suspended Plasma	Plasmoids	L P S	
3000 units	20 units per cycle (1800s)		

Advanced Industry Facility Product P2 ←	1. Input Product P1	2. Input Product P1	Planet Types Exclusivity*	Input 1.(P1) + 2.(P1)
Biocells	Biofuels	Precious Metals	B	(B O T)+(B P)
Construction Blocks	Reactive Metals	Toxic Metals	LP	(B G L P S) + (I L P)
Consumer Electronics	Toxic Metals	Chiral Structures	LP	(I L P) + (L P)
Coolant	Electrolytes	Water	GS	(G S) + (B G I O S T)
Enriched Uranium	Precious Metals	Toxic Metals	P	(B P) + (I L P)
Fertilizer	Bacteria	Proteins	OT	(B I O T) + (O T)
Gen. Enhanced Livestock	Proteins	Biomass	O	(O T) + (I O)
Livestock	Proteins	Biofuels	OT	(O T) + (B O T)
Mechanical Parts	Reactive Metals	Precious Metals	BP	(B G L P S) + (B P)
Microfiber Shielding	Industrial Fibers	Silicon	T+L	(T) + (L)
Miniature Electronics	Chiral Structures	Silicon	L	(L P) + (L)
Nanites	Bacteria	Reactive Metals	B	(B I O T) + (B G L P S)
Oxides	Oxidizing Compound	Oxygen	G	(G) + (G I S)
Polyaramids	Oxidizing Compound	Industrial Fibers	G+T	(G) + (T)
Polytextiles	Biofuels	Industrial Fibers	T	(B O T) + (T)
Rocket Fuel	Plasmoids	Electrolytes	S	(L P S) + (G S)
Silicate Glass	Oxidizing Compound	Silicon	G+L	(G) + (L)
Super Conductors	Plasmoids	Water	S	(L P S) + (B G I O S T)
Supertensile Plastics	Oxygen	Biomass	I	(G I S) + (I O)
Synthetic Oil	Electrolytes	Oxygen	GS	(G S) + (G I S)
Test Cultures	Bacteria	Water	BIOT	(B I O T) + (B G I O S T)
Transmitter	Plasmoids	Chiral Structures	LP	(L P S) + (L P)
Viral Agent	Bacteria	Biomass	IO	(B I O T) + (I O)
Water-Cooled CPU	Reactive Metals	Water	BGS	(B G L P S) + (B G I O S T)
5 units per cycle (3600s)	40 units	40 units		

Advanced Industry Facility Product P3 ←	1. Input Product P2	2. Input Product P2	3. Input Product P2	Planet Types Exclusivity
Biotech Research Reports	Nanites	Livestock	Construction Blocks	B+O T+L P
Camera Drones	Silicate Glass	Rocket Fuel		G+L
				G

Condensates	Oxides	Coolant		
Cryoprotectant Solution	Test Cultures	Synthetic Oil	Fertilizer	OT+GS
Data Chips	Supertensile Plastics	Microfiber Shielding		I+T+L
Gel-Matrix Biopaste	Oxides	Biocells	Super Conductors	G+B+S
Guidance Systems	Water-Cooled CPU	Transmitter		BGIOST+LP
Hazmat Detection Systems	Polytextiles	Viral Agent	Transmitter	T+O+LP
Hermetic Membranes	Polyaramids	Gen. Enhanced Livestock		G+T+IO
High-Tech Transmitters	Polyaramids	Transmitter		G+T+LP
Industrial Explosives	Fertilizer	Polytextiles		T
Neocoms	Biocells	Silicate Glass		B+G+L
Nuclear Reactors	Microfiber Shielding	Enriched Uranium		T+L+P
Planetary Vehicles	Supertensile Plastics	Mechanical Parts	Miniature Electronics	I+BP+L
Robotics	Mechanical Parts	Consumer Electronics		P
Smartfab Units	Construction Blocks	Miniature Electronics		L
Supercomputers	Water-Cooled CPU	Coolant	Consumer Electronics	GS+LP
Synthetic Synapses	Supertensile Plastics	Test Cultures		I
Transcranial Microcontroller	Biocells	Nanites		B
Ukomi Super Conductors	Synthetic Oil	Super Conductors		S
Vaccines	Livestock	Viral Agent		O
3 units per cycle (3600s)	10 units	10 units	10 units	

High Tech Production Plant Product P4 <	1. Input Product P3/P1	2. Input Product P3	3. Input Product P3/P1	Planet Types Exclusivity
Broadcast Node	Neocoms	Data Chips	High-Tech Transmitters	B+G+L+T+IO
Integrity Response Drones	Gel-Matrix Biopaste	Hazmat Detection Systems	Planetary Vehicles	G+B+L+T+O
Nano-Factory	Industrial Explosives	Ukomi Super Conductors	Reactive Metals	T+ S
Organic Mortar Applicators	Condensates	Robotics	Bacteria	G+P+BIOT
Recursive Computing Module	Synthetic Synapses	Guidance Systems	Transcranial Microcontrollers	I+B+LP
Self-Harmonizing Power Core	Camera Drones	Nuclear Reactors	Hermetic Membranes	G+L+T+B+IO
Sterile Conduits	Water	Smartfab Units	Vaccines	BGS+L+O
Wetware Mainframe	Supercomputers	Biotech Research Reports	Cryoprotectant Solution	G+LP+OT
1 unit per cycle	6 units (or 40 P1 units)	6 units	6 units (or 40 P1 units)	

### PI Structures:

	CPU	Power	Storage	Abbr.	Costs (ISKs)	
Command Center 0-5	var	var	500	(P)CC		
Extractor	200	800		EXR	45,000.00	
Basic Industry Facility	200	800		BasIF	75,000.00	
Advanced Industry Facility	500	700		AdvIF	250,000.00	
High Tech Production Plant	1100	400		HPP	525,000.00	(Barren, Temperate only)
Storage Facility	500	700	5000	STO	250,000.00	
Launchpad	3600	700	10000	LPad	900,000.00	

### Command Centers (\* one for each type of planet)

Name	Size	Powergrid	CPU	CC Upgrades Skill
Basic	50 m³	6000 MW	1675 tf	0
Limited	100 m³	9000 MW	7057 tf	1
Standard	200 m³	12000 MW	12136 tf	2
Improved	400 m³	15000 MW	17215 tf	3
Advanced	800 m³	17000 MW	21315 tf	4
Elite	1600 m³	19000 MW	25415 tf	5