



partName	Title	Mod	Category	Variants	Stock	Di	Block	Le	Cost	Mass	newMass	Volume	Surface	Notes	File	Configurator	ECM
H2_psdTrussPort	T4000 Radial Truss Connection Mechanism	HabTech2															
H2_truss_0	ST550-0 Semi-Hexagonal Truss Section	HabTech2															
H2_truss_01	ST600 Semi-Hexagonal Truss Section	HabTech2															
H2_truss_02	ST1000-2 Hexagonal Truss Section	HabTech2															
H2_truss_21	ST-Z Control Block	HabTech2															
H2_trussPot	T4000 Truss Connection Mechanism	HabTech2															
truss-circular-01	Annular Modular Truss XL	NConstruction	Truss - Annular	Core: Hollow, Solid - Truss: Solid, Saddle, Hollow - UpperCap: Hollow, Solid - LowerCap: Hollow, Solid										8 Truss lengths			
truss-circular-02	Annular Modular Truss	NConstruction	Truss - Annular	Core: Hollow, Solid - Truss: Solid, Saddle, Hollow - UpperCap: Hollow, Solid - LowerCap: Hollow, Solid										4 Truss lengths			
truss-circular-03	Annular Modular Truss Mini	NConstruction	Truss - Annular	Core: Hollow, Solid - Truss: Solid, Saddle, Hollow - UpperCap: Hollow, Solid - LowerCap: Hollow, Solid										2 Truss lengths			
truss-circular-04	Annular Modular Truss Micro	NConstruction	Truss - Annular	Core: Hollow, Solid - Truss: Solid, Saddle, Hollow - UpperCap: Hollow, Solid - LowerCap: Hollow, Solid										1 Truss length			
truss-circular-adapter-01	Annular Truss Adapter	NConstruction	Adapter - Truss - Annular	Core: Hollow, Solid										3.75 to 5m			
truss-circular-adapter-02	Annular Truss Adapter V2	NConstruction	Adapter - Truss - Annular	Core: Hollow, Solid										3.75 to 5m Flat			
truss-hex-01	Hexa-Girder Modular Truss L1	NConstruction	Truss - Hexa	Solid, Hollow, TANK										Contains a tank, 2 fighting, likely should be hidden transforms			
truss-hex-02	Hexa-Girder Modular Truss M1	NConstruction	Truss - Hexa	Solid, Hollow, TANK										Contains a tank			
truss-hex-03	Hexa-Girder Modular Truss S1	NConstruction	Truss - Hexa	Solid, Hollow													
truss-hex-adapter-01	Hexa-Girder Truss Adapter	NConstruction	Adapter - Truss - Hexa											1.25m to Hex			
truss-hex-01	Cubic-Family Large Strut	NConstruction	Truss - Cubic	Square, Triangular, Planar										4 Truss lengths (Cubic Octagonal)			
truss-hex-02	Cubic-Family Medium Strut	NConstruction	Truss - Cubic	Square, Triangular, Planar										2 Truss lengths (Cubic Octagonal)			
truss-ocb-01	Octo-Girder Modular Truss XL	NConstruction	Truss - Octo-Girder	Solid, Hollow, Saddle, Open, TANK										8 Truss lengths			
truss-ocb-02	Octo-Girder Modular Truss	NConstruction	Truss - Octo-Girder	Solid, Hollow, Saddle, Open, TANK										4 Truss lengths			
truss-ocb-03	Octo-Girder Modular Truss Mini	NConstruction	Truss - Octo-Girder	Solid, Hollow, Saddle, Open										2 Truss lengths			
truss-ocb-04	Octo-Girder Modular Truss Micro	NConstruction	Truss - Octo-Girder	Solid, Hollow										1 Truss length			
truss-ocb-adapter-crew-01	Octo-Girder Pressurized Adapter	NConstruction	Truss - Octo-Girder Pressurized	Textures										2.5m to Octo-Girder Pressurized, Habitat			
truss-ocb-angled-01	Octo-Girder Modular Angular Connector	NConstruction	Truss - Octo-Girder	90 Degrees, 45 Degrees, 30 Degrees													
truss-ocb-angled-crew-01	Octo-Girder Pressurized Angular Connector	NConstruction	Truss - Octo-Girder Pressurized	90 Degrees, 45 Degrees, 30 Degrees													
truss-ocb-crew-01	Octo-Girder Pressurized Truss XL	NConstruction	Truss - Octo-Girder Pressurized	Solid, Hollow, Open										Habitat, 4 Truss lengths			
truss-ocb-crew-02	Octo-Girder Pressurized Truss	NConstruction	Truss - Octo-Girder Pressurized	Solid, Hollow, Open										Habitat, 2 Truss lengths			
truss-ocb-crew-03	Octo-Girder Pressurized Truss Mini	NConstruction	Truss - Octo-Girder Pressurized	Solid, Hollow, Open										Habitat, 1 Truss lengths			
truss-ocb-hub-01	Octo-Girder Modular Hub	NConstruction	Hub - Truss - Octo-Girder														
truss-ocb-hub-crew-01	Octo-Girder Pressurized Hub	NConstruction	Hub - Truss - Octo-Girder Pressurized														
truss-spiral-01	Spiral Modular Truss	NConstruction	Truss - Spiral	None, Solid										4 Truss lengths			
truss-spiral-02	Spiral Modular Truss Mini	NConstruction	Truss - Spiral	None, Solid										2 Truss length			
truss-spiral-03	Spiral Modular Truss Micro	NConstruction	Truss - Spiral	None, Solid										1 Truss length			
truss-spiral-adapter-01	Spiral Truss Series-3 Adapter	NConstruction	Adapter - Truss - Spiral	None, Solid										3.75m to Spiral			
truss-spiral-adapter-02	Spiral Truss Series-2 Adapter	NConstruction	Adapter - Truss - Spiral	None, Solid										2.5m to Spiral			
strutCube	Cubic-Family Strut	NConstruction (Edited from Stock)	Truss - Cubic	Square, Triangular, Planar										1 Truss lengths (Cubic Octagonal)			
stationHub	Rickonax HubMax	Stock	Hub														
trussAdapter	Modular Girder Adapter	Stock	Adapter - Truss - Girder											1.25m to Cubic			
trussPiece1x	Modular Girder Segment	Stock	Truss - Girder	Truss, Insulated										1 Truss lengths			
trussPiece2x	Modular Girder Segment XL	Stock	Truss - Girder	Truss, Insulated										3 Truss lengths			
stationHubLarge	Extra Large Rickonax HubMax	Vers	Hub														
strutCubeLarge	Cubic Octagonal Strut Mk IV	Vers	Truss - Cubic											8 Truss lengths			
strutCubeMedium	Cubic Octagonal Strut Mk III	Vers	Truss - Cubic											4 Truss lengths			
strutCubeSmall	Cubic Octagonal Strut Mk II	Vers	Truss - Cubic											2 Truss lengths			



Module	Type	Diameter	Length	Mass (kg)	Surface Area	kg per m <sup>2</sup>
Quest	Airlock	4	5.5	9923	94.24777961	105.2863
Cupola	Cupola	3	1.5	1880	28.27433388	66.49139845
Pirs	Docking	2.55	4.9	3838	49.46830332	77.5850341
Poisk (MRM2)	Docking	2.55	4.9	3795	49.46830332	76.71579062
Harmony	Habitat	4.3	6.7	14787	119.5533084	123.6854102
Zvezda	Habitat	4.2	13.1	24604	200.559275	122.6769492
Mir	Habitat	4.15	13.13	20400	198.2368526	102.9072028
Unity	Hub	4.3	5.5	11895	103.3426903	115.1024805
BEAM	Inflatable	3.23	4.02	1412.99	57.18028497	24.71113953
B330	Inflatable	6.7	16.88	23000	425.8146099	54.01411663
Destiny	Lab	4.3	8.5	14515	143.8692356	100.8902281
Columbus	Lab	4.5	6.9	10300	129.3550775	79.62578816
Kibo (PM)	Lab	4.4	11.2	15900	185.2283029	85.8400134
Kibo (ELM-PS)	Lab	4.4	4.2	4200	88.46724913	47.47519609
Tranquility	Life Support	4.3	6.7	17992	119.5533084	150.4935349
PMM	Storage	4.5	6.67	4428	126.1035291	35.11400538
Rassvet (MRM1)	Storage	2.35	6	5075	52.97117913	95.80681577
Zarya	Storage, Propulsi	4.1	12.99	24968	193.7231694	128.8849448

Experiment	Craft	Description	Discipline	Length	Year
Longterm Effects of Microgravity on Humans	Salyut 1				1971
Hydroponic Farming	Salyut 1				1971
In-Space Welding Tests	Soyuz 6				
High Resolution Photo Reconnaissance	Salyut 3				
Spectrographic Study of Aerosol Particles in Earth's Atmosphere	Salyut 3				
Bacteria Culturing	Salyut 3				
Water Recycling	Salyut 3				
Microgravity Metal Smelting	Salyut 5				
Crystal Growth	Salyut 5				
Biological Experiments on Fish, Plants, Fruit Flies	Salyut 5				
Algae Growth	Salyut 5				
Plant Growth	Salyut 5				
Materials Processing Furnace	Salyut 6				
Infrared-sensitive Semiconductor Manufacturing	Salyut 6				
Edible Plant Growth	Salyut 6				
Zero Gravity Shower	Skylab				
White-Light Coronagraph	Skylab	Apollo Telescope	Solar Studies		
X-Ray Spectrographic Telescope	Skylab	Apollo Telescope	Solar Studies		
UV Scanning Polychromator Spectroheliometer	Skylab	Apollo Telescope	Solar Studies		
X-Ray Telescope	Skylab	Apollo Telescope	Solar Studies		
Extreme UV Spectroheliograph	Skylab	Apollo Telescope	Solar Studies		
Ultraviolet Spectrograph	Skylab	Apollo Telescope	Solar Studies		
UV Stellar Astronomy	Skylab	Orbital Workshop	Stellar Astronomy		
Galactic X-Ray Mapping	Skylab	Instrument Unit	Stellar Astronomy		
UV Panorama Telescope	Skylab	Orbital Workshop	Stellar Astronomy		
Nuclear Emulsion Package	Skylab	Multiple Docking	Space Physics		
UV Airglow Horizon Photography	Skylab	Orbital Workshop	Space Physics		
Gegenschein and Zodiacal Light	Skylab	Orbital Workshop	Space Physics		
Micrometeoroid Particle Collection	Skylab	Orbital Workshop	Space Physics		
Transuranic Cosmic Rays	Skylab	Orbital Workshop	Space Physics		
Magnetospheric Particle Composition	Skylab	Apollo Telescope	Space Physics		
Multispectral Photographic Cameras	Skylab	Multiple Docking	Earth Resources Experiments		
Earth Terrain Camera	Skylab	Orbital Workshop	Earth Resources Experiments		
Infrared Spectrometer	Skylab	Multiple Docking	Earth Resources Experiments		
Multispectral Scanner	Skylab	Multiple Docking	Earth Resources Experiments		
Microwave Radiometer/Scatterometer and Altimeter	Skylab	Multiple Docking	Earth Resources Experiments		
L-Band Radiometer	Skylab	Multiple Docking	Earth Resources Experiments		
Mineral Balance	Skylab	Orbital Workshop	Life Sciences Projects		
Bioassay of Body Fluids	Skylab	Orbital Workshop	Life Sciences Projects		
Specimen Mass Measurement	Skylab	Orbital Workshop	Life Sciences Projects		
Bone Mineral Measurement	Skylab	Orbital Workshop	Life Sciences Projects		
Lower Body Negative Pressure Device	Skylab	Orbital Workshop	Life Sciences Projects		
Vectorcardiogram	Skylab	Orbital Workshop	Life Sciences Projects		
Cytogenic Studies of the Blood	Skylab	Orbital Workshop	Life Sciences Projects		
Man's Immunity In-Vitro Aspects	Skylab	Orbital Workshop	Life Sciences Projects		
Blood Volume and Red Cell Life Span	Skylab	Orbital Workshop	Life Sciences Projects		
Red Blood Cell Metabolism	Skylab	Orbital Workshop	Life Sciences Projects		
Special Hematological Effects	Skylab	Orbital Workshop	Life Sciences Projects		
Human Vestibular Function	Skylab	Orbital Workshop	Life Sciences Projects		
Sleep Monitoring	Skylab	Orbital Workshop	Life Sciences Projects		
Time and Motion Study	Skylab	Orbital Workshop	Life Sciences Projects		
Metabolic Activity	Skylab	Orbital Workshop	Life Sciences Projects		
Body Mass Measurement	Skylab	Orbital Workshop	Life Sciences Projects		
Effect of Zero-Gravity on Single Human Cells	Skylab	Orbital Workshop	Life Sciences Projects		
Circadian Rhythm, Pocket Mice	Skylab	Orbital Workshop	Life Sciences Projects		
Circadian Rhythm, Vinegar Gnats	Skylab	Orbital Workshop	Life Sciences Projects		
Zero-Gravity Flammability	Skylab	Multiple Docking	Material Science & Manufacturing in Space		
Materials Processing Facility	Skylab	Multiple Docking	Material Science & Manufacturing in Space		
Metals Melting	Skylab	Multiple Docking	Material Science & Manufacturing in Space		
Exothermic Brazing	Skylab	Multiple Docking	Material Science & Manufacturing in Space		
Sphere Forming	Skylab	Multiple Docking	Material Science & Manufacturing in Space		

Gallium Arsenide Crystal Growth	Skylab	Multiple Docking	Material Science & Manufacturing in Space	
Multipurpose Electric Furnace System	Skylab	Multiple Docking	Material Science & Manufacturing in Space	
Vapor Growth of II-VI Compounds	Skylab	Multiple Docking	Material Science & Manufacturing in Space	
Immiscible Alloy Compositions	Skylab	Multiple Docking	Material Science & Manufacturing in Space	
Radioactive Tracer Diffusion	Skylab	Multiple Docking	Material Science & Manufacturing in Space	
Microsegregation in Germanium	Skylab	Multiple Docking	Material Science & Manufacturing in Space	
Growth of Spherical Crystals	Skylab	Multiple Docking	Material Science & Manufacturing in Space	
Whisker-Reinforced Composites	Skylab	Multiple Docking	Material Science & Manufacturing in Space	
Indium Antimonide Crystals	Skylab	Multiple Docking	Material Science & Manufacturing in Space	
Mixed III-V Crystal Growth	Skylab	Multiple Docking	Material Science & Manufacturing in Space	
Halide Eutectics	Skylab	Multiple Docking	Material Science & Manufacturing in Space	
Silver Grids Melted in Space	Skylab	Multiple Docking	Material Science & Manufacturing in Space	
Copper-Aluminum Eutectic	Skylab	Multiple Docking	Material Science & Manufacturing in Space	
Habitability/Crew Quarters	Skylab	Orbital Workshop	Zero-Gravity Systems Studies	
Astronaut Maneuvering Equipment	Skylab	Orbital Workshop	Zero-Gravity Systems Studies	
Crew-Activities and Maintenance Study	Skylab	Orbital Workshop	Zero-Gravity Systems Studies	
Manual Navigation Sightings	Skylab	Orbital Workshop	Zero-Gravity Systems Studies	
Absorption of Radiant Heat in the Earth's Atmosphere.	Skylab	Orbital Workshop	Student Projects	
Space Observation and Prediction of Volcanic Eruptions.	Skylab	Orbital Workshop	Student Projects	
Photography of Libration Clouds	Skylab	Orbital Workshop	Student Projects	
Possible Confirmation of Objects within Mercury's Orbit.	Skylab	Orbital Workshop	Student Projects	
Spectrography of Selected Quasars	Skylab	Orbital Workshop	Student Projects	
X-Ray Content in Association with Stellar Spectral Classes	Skylab	Orbital Workshop	Student Projects	
X-Ray Emission from the Planet Jupiter	Skylab	Orbital Workshop	Student Projects	
A Search for Pulsars in Ultraviolet Wavelengths	Skylab	Orbital Workshop	Student Projects	
Behavior of Bacteria and Bacterial Spores in the Skylab Space Environments	Skylab	Orbital Workshop	Student Projects	
As In-Vitro Study of Selected Isolated Immune Phenomena	Skylab	Orbital Workshop	Student Projects	
A Quantitative Measure of Motor Sensory Performance During Prolonged Flight in	Skylab	Orbital Workshop	Student Projects	
Web Formation in Zero Gravity	Skylab	Orbital Workshop	Student Projects	
Plant Growth in Zero Gravity	Skylab	Orbital Workshop	Student Projects	
Phototropic Orientation of an Embryo Plant in Zero Gravity	Skylab	Orbital Workshop	Student Projects	
Cytoplasmic Streaming in Zero Gravity	Skylab	Orbital Workshop	Student Projects	
Capillary Action Studies in a State of Free Fall	Skylab	Orbital Workshop	Student Projects	
Zero Gravity Mass Measurement	Skylab	Orbital Workshop	Student Projects	
Earth Orbital Neutron Analysis	Skylab	Orbital Workshop	Student Projects	
Wave Motion Through a Liquid in Zero Gravity	Skylab	Orbital Workshop	Student Projects	



partName	Title	Mod	Notes	X	Y	Z	Top Node	How	Type
	Inon-ACS Avionics and Control System	BDB	AVIONICS - Hollow	1.875		1.875		Assets	Avionics
	Inon-TG-ACS Avionics and Control System	BDB	AVIONICS - Hollow	2.5		2.5		Assets	Avionics
	Kanaloa-AARDV-CACB Control Block	BDB	AVIONICS - Spoke Style	2.5		2.5		Assets	Avionics
	MOS-CBS Control Block Segment	BDB	AVIONICS - Spoke Style	1.875		1.875		Assets	Avionics
bluedog_O	HLR-OOG Sanisco Probe Core	BDB	Tall Skinny Rectangle					Assets	Probe Core
	OST-3 Paneer Probe Core	TT	Triangular					Assets	Probe Core
	Pathfinder-I "Sienno" Satellite	BDB	Explorer 1					Assets	Probe Core
	Pilgrim-P4 "Amba"	BDB	Pioneer 0-1					Assets	Probe Core
	Pilgrim-P5 "Marble"	BDB	Pioneer 5					Assets	Probe Core
barca	CA-Q1300 Barca	Coatl						Assets	Probe Core
MAriner10_	Wayfarer-10-OPB Amru	BDB	Mariner 10					Assets	Probe Core



partName	Title	Mod	Notes	X	Y	Z	Top Node	How	Type
	0.3125m Spin Motor Decoupler	BDB	Decoupler attached with spin motors for SRM Spin Up						Spin Motor
	AOO-RBM Balance Boom	BDB	Small RCS Quad mounted on a deployable boom						Deployable RCS
	HLR-OOG Attitude Control Thruster	BDB	Small RCS 3-way mounted on a deployable boom						Deployable RCS
	HLR-PCS Attitude Control Thruster	BDB	3-way Probe RCS						RCS
	HLR-RT1D Attitude Control Thruster	BDB	Double Linear RCS						RCS
	HLR-RT1R Attitude Control Thruster	BDB	Single Radial						RCS
	HLR-RT1V	BDB	Single Thruster						RCS
	HLR-RT2A	BDB	2-way 45-degree						RCS
	HLR-RT2V	BDB	2-way Vertical						RCS
	HLR-RT3A	BDB	3-way 45-degree						RCS
	HLR-RT3N	BDB	3-way						RCS
	HLR-RT3R	BDB	3-way, L,R,Out						RCS
	HLR-RT4A	BDB	4-way Angled						RCS
	HLR-RT4N	BDB	4-way						RCS
	Kane-DTS RCS Thruster Quad	BDB	4-way Apollo Style						RCS
	Kane-LTS Linear RCS Thruster	BDB	Single Radial						RCS
	Kane-LTS Linear RCS Thruster	BDB	Double Radial						RCS
	Leo-F-OAMS RCS Control Block	BDB	4-Way Large Unit						RCS
	Leo-F-OAMS45 RCS Control Block	BDB	4-Way Angled Large Unit						RCS
	Pilgrim-PIO6E-PAT Folding RCS Boom	BDB	RCS Quad mounted on a deployable boom						Deployable RCS
	SG9-LRC Lifeboat RCS	BDB	3-way						RCS
	Spin Motor Decoupler 0.625m	BDB	Decoupler attached with spin motors for SRM Spin Up						Spin Motor
	YO-YO De-Spin Device	BDB	Extendable Weight to De-Spin Craft						INTERESTING
	Burke-L-LSL Landing Leg	BDB							Legs
	Dona-L3GG Landing Leg	BDB							Legs
	LT-9 Nano Landing Leg	NFE						Config	Legs
	AX-30 High Gain Micro-Antenna	NFE						Config	Comms
	AX-4 Pointable Helical Antenna	NFE						Config	Comms
	AX-5 Aerial Micro-Antenna	NFE						Config	Comms
BasketTrussCX	CHAKA / Equipment Truss Size A	Chaka	Not Hollow Collider - Fix						Truss
ICPSAdapterx	CHAKA / ICPS Extender Truss	Chaka	Not Hollow Collider - Fix						Truss
bluedog_Titan1_S1_EngineShroud	Prometheus-I-EHS Engine Shroud	BDB	Titan Engine Area, Mount Inside on Top						Truss
bluedog_DeltaIV_DCSS_3p125_payloadAdapter	SPA 3.125m Payload Adapter	BDB							Truss
trails_Titan2_1875mDecoupler	BDD-0150 - Janus 1.875m Stack Decoupler	Trails	Titan Decoupler (Not Hollow??)						Truss
castor_truss_decoupler_s1_1	Castor Size 1 T-Decoupler	TantaresLV	Perfect	1.25	0.625	1.25	0.3125		Truss
castor_truss_decoupler_s1p5_1	Castor Size 1.5 T-Decoupler	TantaresLV	Perfect	1.88	0.625	1.88	0.3125		Truss
castor_truss_decoupler_s1p2_1		TantaresLV	Perfect	1.5	0.625	1.5	0.3125		Truss
castor_truss_decoupler_s2_2	Castor Size 2 T-Decoupler	TantaresLV	Perfect	2.5	0.875	2.5	0.4375		Truss
FASATitanLR91Dec	Gemini Titan LR-91 Decoupler	FASA	Titan Decoupler (Not Hollow??)	2.49	0.875	2.49	0.385		Truss
bluedog_LDC_S2_Interstage	Herakles-S2SIA Interstage	BDB	Grated Interstage	3.22	3.03	3.22	1.5		Truss
bluedog_Titan2_S2_EngineDecoupler	Prometheus 1.875m Vented Stack Decoupler	BDB	Titan Decoupler	1.87	0.453	1.87	0.226		Truss
Size1p5_Strut_Decoupler	Size 1.5 Decoupler	SquadExpansion	NOT HOLLOW						Truss
	Interstage Decoupler	SSTU							
	Custom Decoupler	SSTU							
	Radial Booster Decoupler	SSTU							

Centrifuge	$m/s = \text{radius} * (\text{radians } p/s^2)$			$r/s = \text{SQRT}(m/s / \text{radius})$		
G's	$g = m/s / 9.807$					
Radians	$r = 1 * \pi / 180$					
Degrees	$\text{deg} = r * 180 / \pi$					
Gravity	Gravity	17.8	19.4	20.2	24	30
Moon	1.62	24.4447239	23.41500595	22.94665852	21.05181363	18.82931453
Mars	3.721	37.04737694	35.4867805	34.77697319	31.9052274	28.53690293
Earth	9.807	60.14447202	57.61092561	56.45859069	51.79646213	46.32816413
Half Earth	4.9	42.51338337	40.722535	39.90800202	36.61255604	32.74726565

name	Title	model	Textures	Type	Notes	Diameter	Height	bottomDiameter	upperDiameter
nfex-probe-chfr-1	Probodobodyne CHFR	NearFutureExploration/Parts/Probe/nfex-probe-chfr-1	Metal, Foil, Silver	Probe Core		1.51	0.799		
nfex-probe-stp-1	Probodobodyne STP	NearFutureExploration/Parts/Probe/nfex-probe-stp-1	Metal, Foil, Silver	Probe Core		0.996	0.431		
nfex-probe-sqr-1	Probodobodyne SQR	NearFutureExploration/Parts/Probe/nfex-probe-sqr-1	Metal, Foil, Silver	Probe Core		1.5	0.796		
nfex-probe-cyl-1	Probodobodyne CYL	NearFutureExploration/Parts/Probe/nfex-probe-cyl-1	Metal, Foil, Silver	Probe Core		1.88	0.781		
nfex-probe-dsk-1	Probodobodyne DSK	NearFutureExploration/Parts/Probe/nfex-probe-dsk-1	Metal, Foil, Silver	Probe Core		1.25	0.433		
nfex-probe-plto-1	Probodobodyne PLTO	NearFutureExploration/Parts/Probe/nfex-probe-plto-1	Metal, Foil, Silver	Probe Core		1.91	0.432		
nfex-probe-rkt-1	Probodobodyne RKT	NearFutureExploration/Parts/Probe/nfex-probe-rkt-1	Metal, Foil, Silver	Probe Core		1	0.43		
nfex-probe-md-1	Probodobodyne RND	NearFutureExploration/Parts/Probe/nfex-probe-md-1	Metal, Foil, Silver	Probe Core		0.625	0.225		0.3125
nfex-fueltank-stack-tiny-1	MLT-10	NearFutureExploration/Parts/FuelTank/nfex-fueltank-sta	Gold, Silver, Metal	Fuel Tank	Cluster of 4 Round Tanks, 0.231 diam x 4				
nfex-fueltank-radial-small-1	MLT-R20	NearFutureExploration/Parts/FuelTank/nfex-fueltank-rad	Gold, Silver, Metal	Fuel Tank	Radial - Pill Tank	0.416	1.43		
nfex-fueltank-radial-small-2			Gold, Silver, Metal	Fuel Tank	Radial - Pill Tank	0.416	0.749		
nfex-fueltank-radial-small-3			Gold, Silver, Metal	Fuel Tank	Radial - Sphere	0.416	0.416		
nfex-fueltank-radial-tiny-1			Gold, Silver, Metal	Fuel Tank	Radial - Sphere	0.233	0.233		
nfex-fueltank-stack-medium-1			Gold, Silver, Metal	Fuel Tank	Pill Tank (Tall) x 6	1.37	1.5		
nfex-fueltank-stack-medium-2			Gold, Silver, Metal	Fuel Tank	Pill Tank x 6	1.37	0.778		
nfex-fueltank-stack-medium-3			Gold, Silver, Metal	Fuel Tank	Sphere Tank x 6	1.37	0.474		
nfex-bus-adtp-1				Bus		1.88	0.437	1.88	1.25
nfex-bus-adtp-2				Bus		1.25	0.423	1.25	0.625
nfex-bus-chfr-1				Bus		1.51	0.799		
nfex-bus-chfr-2				Bus		1.51	0.413		
nfex-bus-cyl-1				Bus		1.88	0.792		
nfex-bus-cyl-2				Bus		1.88	0.407		
nfex-bus-dsk-1				Bus		1.25	0.431		
nfex-bus-dsk-2				Bus		1.25	0.215		
nfex-bus-hecs-1				Bus		0.763	0.39		
nfex-bus-hecs-2				Bus		0.763	0.196		
nfex-bus-hecs2-1				Bus		1.58	0.792		
nfex-bus-hecs2-2				Bus		1.58	0.407		
nfex-bus-okto-1				Bus		0.735	0.371		
nfex-bus-okto-2				Bus		0.735	0.188		
nfex-bus-plto-1				Bus		1.91	0.859		
nfex-bus-plto-2				Bus		1.91	0.432		
nfex-bus-qbe-1				Bus		0.478	0.558		
nfex-bus-qbe-2				Bus		0.478	0.283		
nfex-bus-rekt-1				Bus		1	0.427		
nfex-bus-rekt-2				Bus		1	0.211		
nfex-bus-rnd-1				Bus		0.625	0.412		
nfex-bus-rnd-2				Bus		0.625	0.212		
nfex-bus-sqr-1				Bus		1.5	0.802		
nfex-bus-sqr-2				Bus		1.5	0.402		
nfex-bus-stp-1				Bus		1	0.426		
nfex-bus-stp-2				Bus		1	0.21		

name	RL Title	folder	Textures	Type	Notes	Diameter	Height	bottomDiameter	upperDiameter
bluedog_Nimbus	ProbeExpansion/N	Anten	Surface Attached, Mesh, Small Rectangle						
bluedog_Nimbus	Decoupler		Decol Hollow						
bluedog_Nimbus	EarlyCommandAr	Anten	Cone Trussed						
bluedog_Nimbus	EarlyControlCore	Probe							
bluedog_Nimbus	LateCommandAn	Antenna							
bluedog_Nimbus	SBandAntenna	Antenna							
bluedog_Nimbus	SolarPanel	Solar	Hinged, Tracking						
bluedog_Nimbus	Truss								

Nimbus Early Command Antenna



Nimbus Early Control Core



Nimbus Late Control Antenna

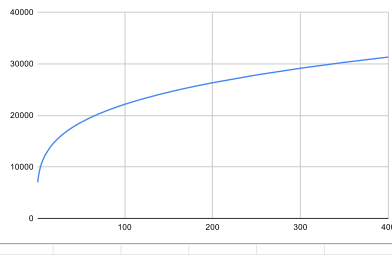


Nimbus S-Band Antenna

Name	Title	RL Part	Type	Action	CORE	Diam	Length	RL Diam	ReScale	Offset	EffectiveLength	Additional Vol	disableTrans	Configuration	Model
B10_APAS	C-100 Androgynous Docking Mech	Docking Port	Docking	Leave											Model
DIRECT_K2X	K-2X Jackdaw Engine	J-2X Engine	Engine	Leave											
DIRECT_KJ10	KJ-10 Viking OMS	AJ-10 OMS	Engine	Leave											
DIRECT_KL10_B	KL10-B Mark II Caesar	RL-10B	Engine	Leave											Model
DIRECT_SRB_2	S2 SRB-KD29k SRB	2-Segment SRB	Engine	Remove			2.2	3.7084							Model
DIRECT_SRB_4	S2 SRB-KD59k SRB	4-Segment SRB	Engine	Configure			2.2	3.7084							Model
DIRECT_SRB_5	S2 SRB-KD79k SRB	5-Segment SRB	Engine	Configure			2.2	3.7084							Model
DIRECT_SRB_decoupler	ET-SRB Radial Decoupler	STS SRB Radial Decoupler	Decoupler	Configure	STS										Model
DIRECT_SSMIE_B	S3 KS-25B Rainstorm	RS-25 Engine	Engine	Leave											Model
STS_ET_decoupler	ET-OV 100-series Radial Decoupler	STS ET Decoupler	Decoupler	Configure	STS										Model
DIRECT_sm_separator	TS-50B Slack Separator	Jupiter Decoupler	Decoupler	Create Part	Jupiter		5	0.625	8.4	0	0	0		CORE	Model
DIRECT_ares1_avionicsRing	Olympus 3000-series Avionics	Ares I Avionics	Avionics	Create Part			3.16	1				0	0	CORE (None)	Model
DIRECT_SRB_cone	Assisted Separation Nose Cone	SRB Nose Cone Separator	Nose Cone	Create Part	STS, SLS		2.2	3.7084							Model
DIRECT_sm_fairing	AE-FF2 Airstream Fairing Base	Fairing	Fairing Base	Leave											Model
DIRECT_ares1_rcsRing	TS-50B RCS Separator	Ares I RCS Ring	Decoupler	Leave	Ares										Model
DIRECT_fairingsize2-3	AE-FF2 Airstream Fairing Base	Fairing	Fairing Base	Leave											Model
DIRECT_LaunchEscapeSystem	LAS-120 Launch Abort System	Orion LAS	LAS	Leave	Orion										
DIRECT_Orion	Mk2-3 Command Pod	Orion	Command Pod	Leave											
DIRECT_Orion_FairingBase	Mk2-3 Spacecraft System Adapter	Orion Adapter	Adapter	Leave	Orion										
DIRECT_orion_LinearRCSBlock	RV-100 Dual-Linear RCS	RCS	RCS	Leave											
DIRECT_orion_RCSBlock	RV-145 RCS Thruster Block	RCS	RCS	Leave											
DIRECT_orion_ServiceModule	Mk2-3 Service Tank	Orion Service Module	Fuel Tank	Leave											
DIRECT_orionAvionicsRing	Mk2-3 Pod Decoupling Avionics Ring	Orion Ring	Decoupler	Leave	Orion										
DIRECT_orionHeatShield	Heat Shield 3.125m	Heat Shield	Heatshield	Leave	Orion										
DIRECT_orionServiceCone	Mk2-3 Pod Forward Service Cone	Orion SM Service Cone	Adapter	Leave	Orion							16.36			
DIRECT_orionSolarPanel	OX-6L 1x3 Solar Panels	Orion Solar Panels	Solar Panels	Leave	Orion										
DIRECT_SLS_ICPS	Dual-Bulkhead Cryogenic Propellant Assembly	ICSS Split Tank	Fuel Tank	Leave											
DIRECT_ares1_stage2adapter	Kerbodyne S2-3-U100 3.125m Engine Mount	Ares I Stage 2 Engine Mou	Engine Mount	Mount	Ares		3.03	1.11		-0.6123	0.65	0	0	fairing	MOUNT (Ares, SLS)
DIRECT_Jupiter_engineMount	Kerbodyne S4-A4L Linear Thrust Plate	Jupiter 4-Engine Mount	Engine Mount	Mount	Jupiter		5	5		-2.375	1.25	0	0		MOUNT (SLS)
DIRECT_JUS_engineMount	Kerbodyne S4-U610 5m Engine Plate	JUS Mount	Engine Mount	Mount	Jupiter		5	1.38		-0.5338	0	0	0	fairing	MOUNT (SLS)
DIRECT_SLS_engineMount	Kerbodyne S4-A4-5 Quad Thrust Plate	SLS Engine Mount	Engine Mount	Mount	SLS		5	4.04		-2.058	2.75	0	0		MOUNT (SLS)
DIRECT_JupiterAdapter_3-5	Kerbodyne S4-3 Adapter	Jupiter 3.75 to 3.15m (5-to-3)	Adapter	Nose 4 to 3	Jupiter		5 bot, 3.75 top	3.75		1.825	1.25	20.94			NOSE (SLS)
DIRECT_ares1_adapter3	RS-AS537 5m to 3.125m Adapter	Ares Adapter 8 to 5	Adapter	Nose 8 to 5	Ares										
DIRECT_payloadAdapter1	RS-AS537-L 5m to 3.125m Adapter	Adapter 8 to 5	Adapter	Nose 8 to 5	Ares										
DIRECT_ares1_srbAdapter	SRB-KD Structural Adapter	SRB 2.2 to 2.5m Adapter (L)	Adapter	Nose 8 to 9	Ares										
DIRECT_SRB_adapter1	SRB-KD Interface	SRB 2.2 to 2.5m Adapter	Adapter	Nose 8 to 9	Ares										
DIRECT_ares1_mainTank	Olympus S2-3-1 3.125m Cryogenic Tank	Ares I Main Tank	Fuel Tank				3.13	7		0	7	0		CORE (Ares)	
DIRECT_STSTS_tank	Olympus S4-JUMBO 5m External Cryogenic Tank	Shuttle External Tank	Fuel Tank				5	26.6	8.4	0	26.108	17.64	0	CORE (None)	
DIRECT_STSTS_tank_stack	Olympus S4-2 5m Cryogenic Tank	STS Main Tank	Fuel Tank				5	18.2	8.4	0	18.2	0	0	CORE (SLS)	
DIRECT_STSTS_endCap	Olympus S4-B 5m Cryogenic Fuel Tank End Cap	STS Tank Cap	Fuel Tank				5	1.51	8.4	-0.6208	1.5	0	0	MOUNT (SLS)	
DIRECT_ares1_interTank	Olympus S2-3-2 3.125m Cryogenic Tank	Ares I Interstage Tank	Fuel Tank				3.16	3.2		1.5	3.2	0	0	NOSE (Ares)	
DIRECT_Jupiter_tank	Olympus S4-1 5m Cryogenic Tank	Jupiter Tank	Fuel Tank				5	4.84	8.4	2.42	4.84	0	0	NOSE (SLS)	
DIRECT_JUS_tank	Olympus S4-U 5m Cryogenic Tank	Jupiter Upper Stage	Fuel Tank				5	6.35	8.4	3.175	6.35	0	0	NOSE (SLS)	
DIRECT_SLS_tank	Olympus S4-0.5 5m Cryogenic Tank	SLS Tank Addon	Fuel Tank				5	2.5	8.4	1.25	2.5	0	0	NOSE (SLS)	
DIRECT_STSTS_nose	Olympus S4-A1 5m Cryogenic Tank Nose	STS Tank Nose	Fuel Tank				5	6.8	8.4	3.175	1.558	17.64	0	NOSE (SLS)	

Name	Type	Nozzle	RP-1 Cost	Thrust (lbf)	Burn Time	Total Impulse	
Castor IVA	Strap On	Static	400	112019	55.2		
Castor 30	Upper	Vectorable	350	58200	143		
Castor 120	First	TVC	750	379000	79.5		
Castor IVA XL	Strap On	Static	500	137120	59.4		
GEM-40	Strap On	Static		112200	63.3		
GEM-40 VN	Strap On	Vectorable		107625	64.6		
GEM-46	Strap On	Static		137300	75.9		
GEM-46 CN	Strap On	Vectorable		135200	76.9		
GEM-60	Strap On	Vectorable		197539	90.8		
SRMU	Strap On	TVC		1440502	135.7		
RSRM	Strap On	Vectorable		2430456	122.2		
RSRM 1-Seg	Strap On	Vectorable		802989	115.8		
RSRM 1.5-Seg	Strap On	Vectorable		1134183	117		
RSRM 2-Seg	Strap On	Vectorable		1497451	114.1		
RSRM 2.5-Seg	Strap On	Vectorable		1849898	113.2		
RSRM 3-Seg	Strap On	Vectorable		2097755	117.4		
RSRMV	Strap On	Vectorable		2890923	131.9		
Star 9	Upper	Static		951	9.8	9212	
Star 3	Lander	Static	50	435	0.66	281.4	
Star 4G	Tiny	Static		58	10.8	595	
Star 5C	Tiny	Static	50	439	2.94	1252	
Star 13B	Upper	Static		1708	16.1	26050	
Star 15G	Upper	Static		1470	36.4	50210	
Star 17	Upper	Static	172	2460	18.6	44500	
Star 17A	Upper	Static	172	3600	20.6	71800	
Star 20 (Altair III)	Upper	Static	90	5500	31.5	173560	
Star 24	Upper	Static		4170	31.1	126000	
Star 24C	Upper	Static		4650	29.6	138000	
Star 27	Upper	Static	90	5720	37.3	213790	
Star 27H	Upper	Static		4650	47.3	219195	
Star 30BP	Upper	Static	90	5985	55	328455	
Star 30C	Upper	Static	90	7300	52	376095	
Star 30E	Upper	Static	90	7900	51.8	407550	
Star 31 (Antares)	Upper	Static	150	18500	46	840000	
Star 37FM	Upper	Static	180	10625	643.1	685970	
Star 37XFP	Upper	Static	180	8550	67	570040	
Star 48A	Upper	Static	1203	17750	88.2	1563760	Same as 48B
Star 48B	Upper	Static	1203	15430	85.2	1303700	Same as 48A
Star 48V	Upper	Vectorable	1203	15430	85.2	1303700	Same as 48A
Star 63D	Upper	Static	150	19050	108	2042450	

0.25			0.4			0.45			0.5		
Volume	Cost	Cost/Vol	Volume	Cost	Cost/Vol	Volume	Cost	Cost/Vol	Volume	Cost	Cost/Vol
1	7000	7000.000	1	7000	7000	1	7000	7000	1	7000	7000
2	8320	4160.000	2	9236.555375	4618.27	2	9562.281797	4781.14	2	9892.494957	4946.247468
3	9210	3070.000	3	10262.91902	3420.97	3	11476.31862	3825.43	3	12124.35565	4041.451584
4	9900	2475.000	4	12167.70756	3046.92	4	13262.46188	3285.61	4	14000	3500
5	10470	2094.000	5	13325.57757	2665.11	5	14442.23947	2884.44	5	15652.47594	3130.495168
6	10960	1826.667	6	14333.70758	2388.95	6	15677.1135	2612.85	6	17146.4282	2857.438033
7	11390	1627.143	7	15245.34497	2177.90	7	16803.20625	2400.45	7	18520.25918	2645.751311
8	11770	1471.250	8	16081.77697	2010.22	8	17843.84878	2230.48	8	19798.98987	2474.873734
9	12120	1346.667	9	16857.5728	1873.06	9	18815.12766	2090.56	9	21000	2333.333333
10	12450	1245.000	10	17583.20502	1758.32	10	19728.68052	1972.86	10	22135.94362	2213.594362
15	13780	918.667	15	20679.23857	1378.61	15	23677.67781	1578.51	15	27110.88342	1807.362226
20	14800	740.000	20	23201.17812	1160.06	20	26950.1718	1347.50	20	31304.95168	1565.247584
25	15650	626.000	25	25367.28823	1014.69	25	29796.89729	1191.87	25	35000	1400
30	16380	546.000	30	27286.41889	909.547	30	32344.66107	1078.15	30	38340.57903	1278.019301
35	17030	486.571	35	29021.861	829.196	35	34667.98979	990.513	35	41412.55848	1183.215957
40	17600	440.000	40	30614.13807	765.353	40	36815.01961	920.375	40	44271.88724	1106.797181
45	18130	402.889	45	32090.98485	713.132	45	38818.93991	862.643	45	46957.42753	1043.498389
50	18610	372.200	50	33472.33749	669.446	50	40703.76122	814.078	50	49497.47468	989.949937
60	19480	324.667	60	36004.64558	600.077	60	44194.10911	736.401	60	54221.76685	903.6961141
70	20250	289.286	70	38294.57518	547.065	70	47357.86967	676.540	70	58566.20186	836.6602265
80	20930	261.625	80	40395.59737	504.944	80	50290.79884	628.634	80	62609.90337	782.627921
90	21560	239.556	90	42344.30838	470.492	90	53028.23464	589.202	90	66407.83086	737.8647674
100	22140	221.400	100	44167.01411	441.670	100	55602.97643	556.029	100	70000	700
120	23170	193.083	120	47508.41466	395.903	120	60357.27175	502.977	120	76681.15805	639.0096504
140	24080	172.000	140	50529.99489	360.928	140	64692.75645	462.091	140	82825.11898	591.6079783
160	24900	155.625	160	53302.31028	333.139	160	68699.25576	429.370	160	88543.77448	553.3985605
180	25640	142.444	180	55873.64888	310.409	180	72438.70326	402.437	180	93914.85505	521.7491947
200	26320	131.600	200	58278.72452	291.393	200	75955.9042	379.776	200	98994.94937	494.9747458
250	27830	111.320	250	63719.74711	254.878	250	83979.06672	335.916	250	116279.7181	442.7188724
300	29130	97.100	300	68540.38537	228.467	300	91159.64067	303.865	300	121243.5565	404.1451884
350	30280	86.514	350	72899.61887	208.284	350	97707.67068	279.164	350	130958.0085	374.167397
400	31300	78.250	400	76899.23803	192.248	400	103758.8229	259.397	400	140000	350
									468	151433.1536	323.5751145



Starting Cost						
7000						
Part	Volume	Mass	Cost	Type	Mass/Vol	Cost/Vol
Station Science I	5.6549	3.5	8000	Lab	0.6189322534	1414.702294
MPL	81.1591	12.5	15000	Lab	0.154018465	184.822158
SXT Skylab	499.4944	28.82776	17400	Lab	0.05771388028	34.83522538
Part	Volume	Mass	Cost	Type	Mass/Vol	Cost/Vol
PPD-4	11.3097	3.5	7500	Hab	0.309468863	663.1475538
PPD-5	18.9646	6	10000	Hab	0.3836776582	589.4627636
Habitation Mod	43.2849	6.1	9000	Hab	0.1409267435	207.9247035
PPD-H	90.3208	9.5	13500	Hab	0.105180645	149.4672324