

AXM International Space Station 1:100 scale combo kit #2

Contents:

HARMONY Node 2

KIBO Lab and Robotic Arm

S0 Connectors (extra parts for S1 and P1 trusses)

External Stowage Platform -2

PMA-3 and PMA-2 covers

ORU Crane

STRELA Arms

ISS Antennas

Payloads from HTV-1, HTV-2 and HTV-3

RRM, SGANT, EOTP, SFA

Grapple Bars, UTA, MBSU, STP-H4



1 cm

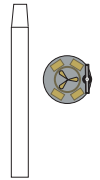
1 inch

Print on Cardstock (110 lbs)

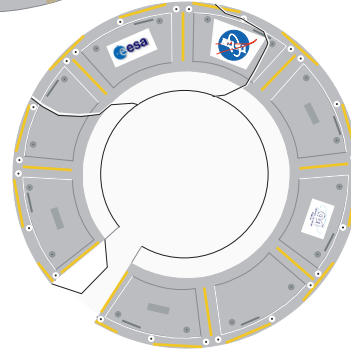
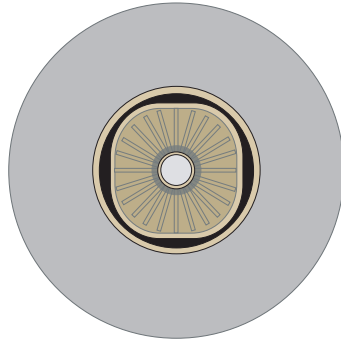
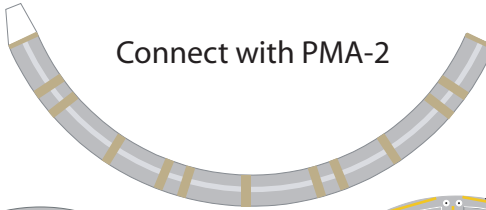
"HARMONY" Node 2



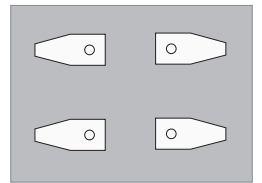
Glue Power & Data
Grapple Fixture



Connect with PMA-2

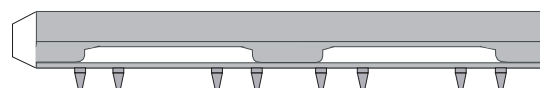
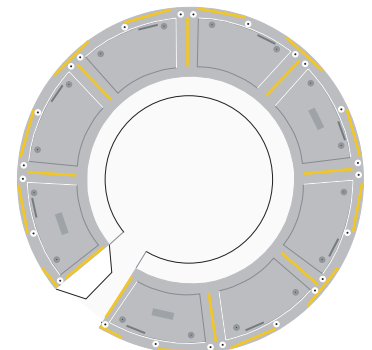
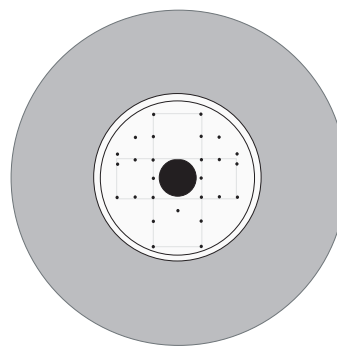
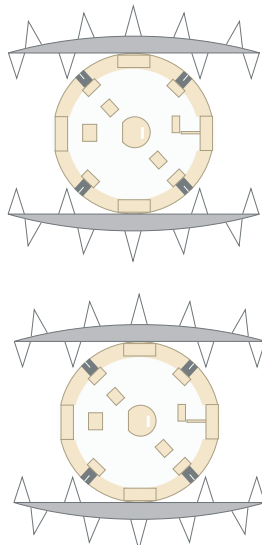
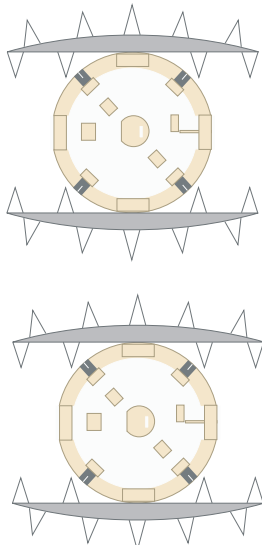
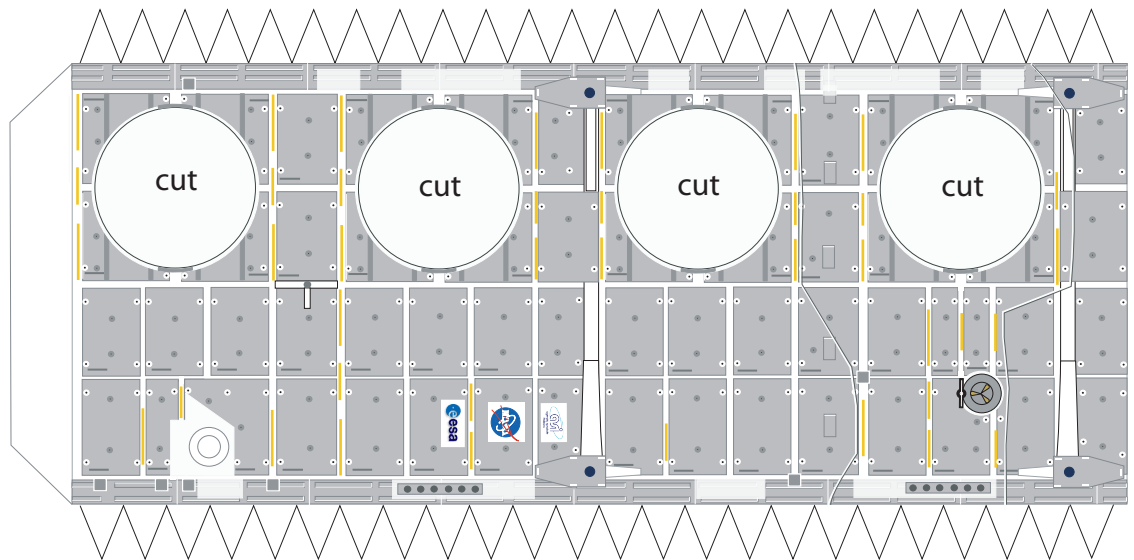
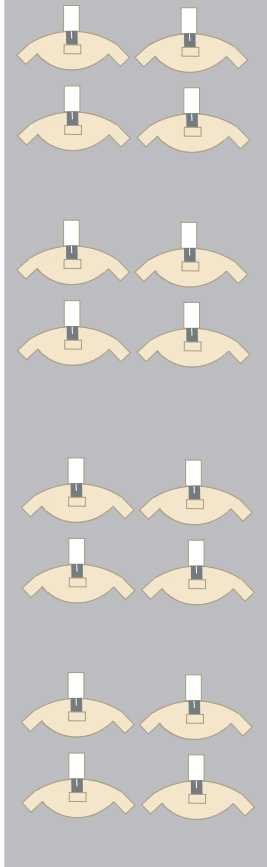


Glue trunnion
pin covers



1:100 Scale

Glue petals on
each port



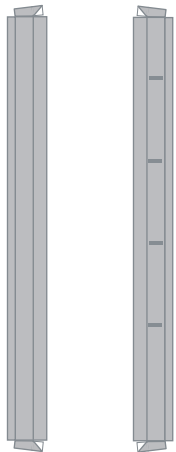
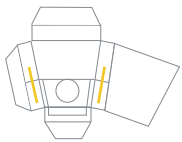


Print on Cardstock (110 lbs)



"Kibo" Lab

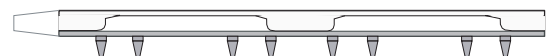
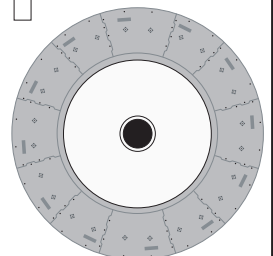
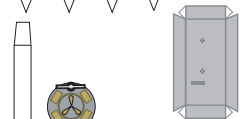
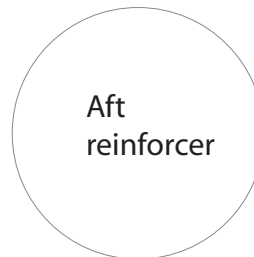
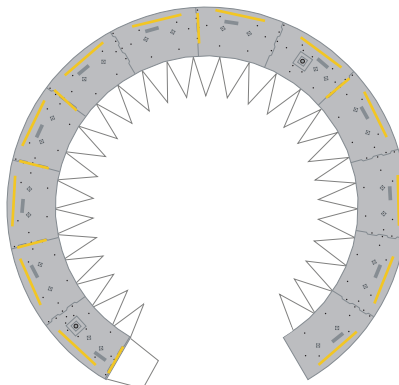
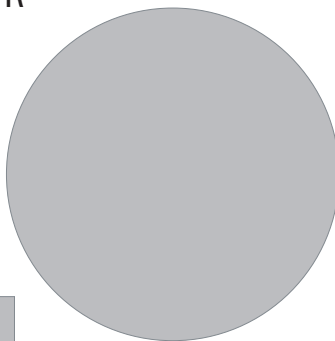
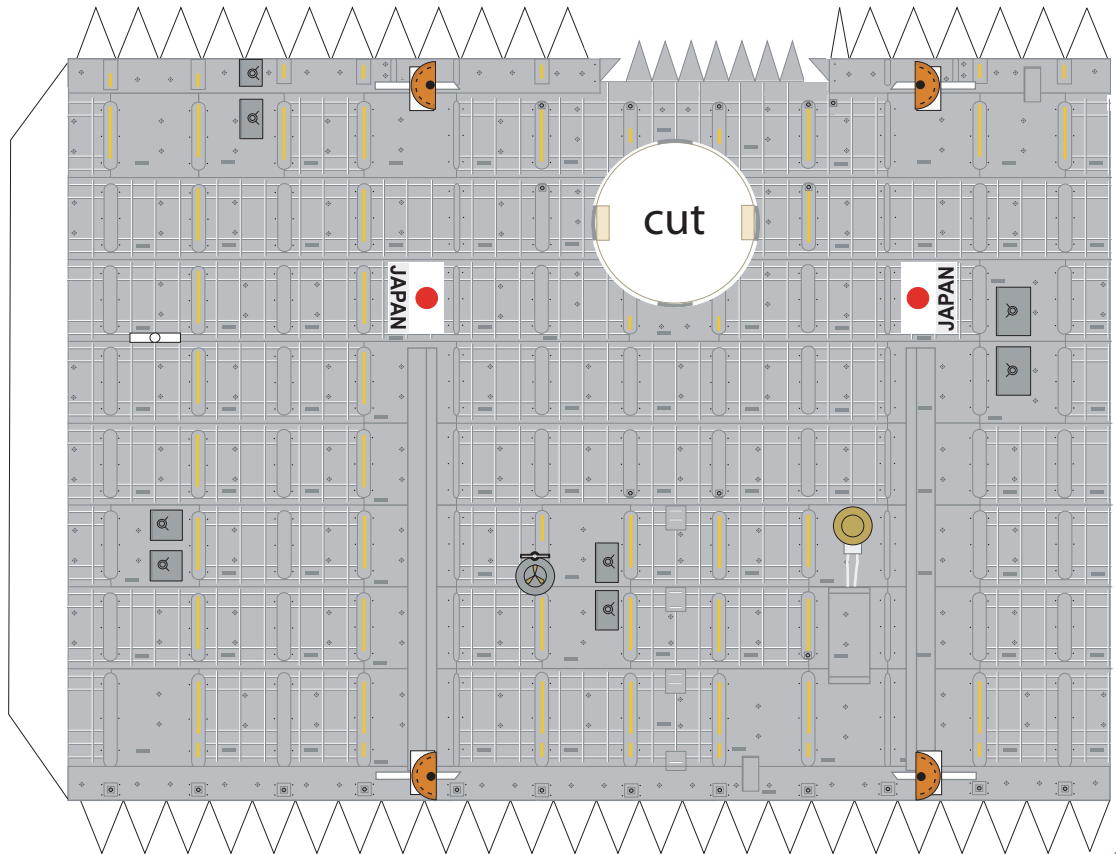
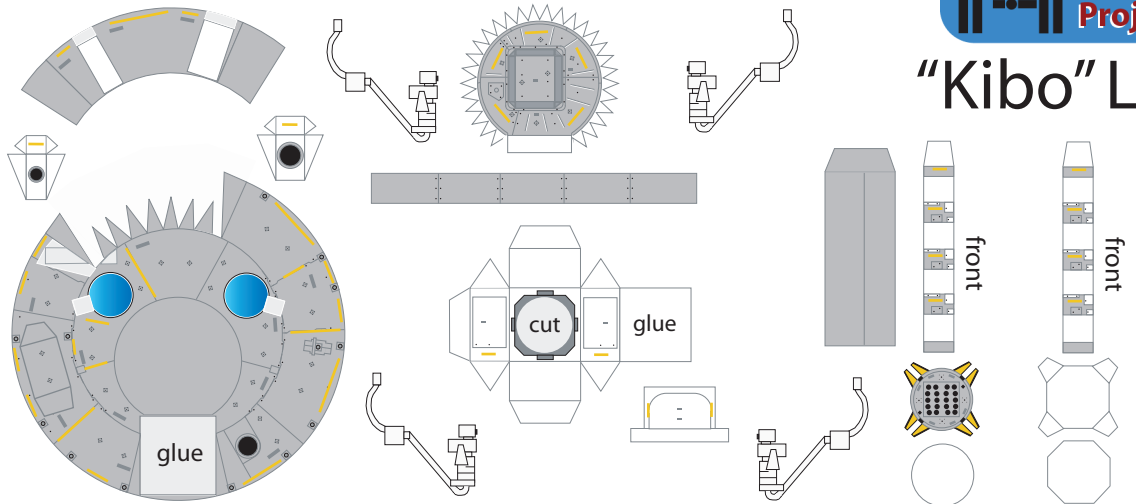
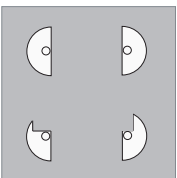
1:100 Scale



L

R

Glue trunnion
pin covers





Print on Cardstock (90 lbs)

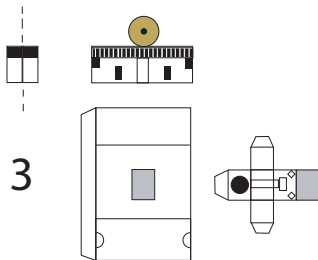
"Kibo" Remote Manipulator System



1:100 Scale

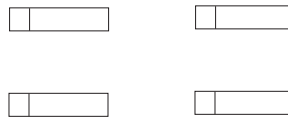


End Effector



3

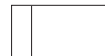
Joint Rings



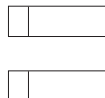
Stoppers



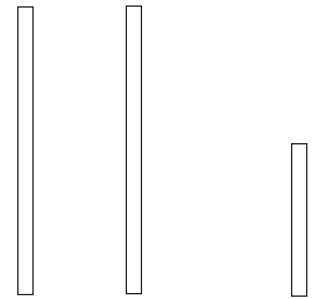
Top cylinder



Cylinders for joint between
part 2 and part 3 of main arm



Use cotton swab with
these dimensions
(2mm in diameter)



38 mm

20 mm

Optional: You can make the
arms with cottonswabs too.

Cover with paper until reaching a width of
4 mm in diameter for 1:100 scale.

Top cylinder



8 mm

Side (top)



4 mm

Cylinder that holds Arm part 3



5 mm



8 mm
(joint between
parts 1 and 2)



9 mm
Last joint



1:100 Scale

Sheet 2

1 cm

1 inch

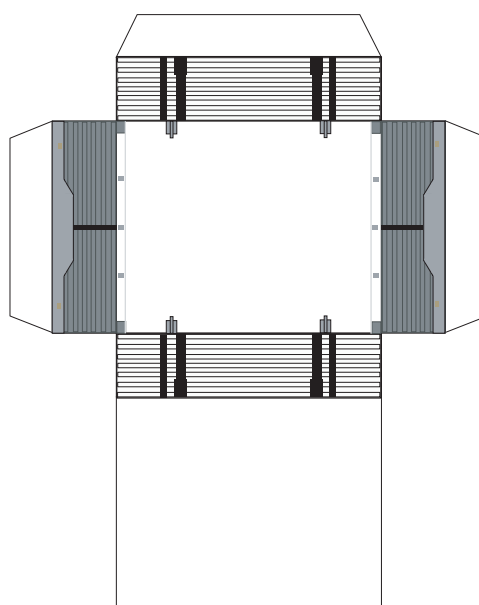
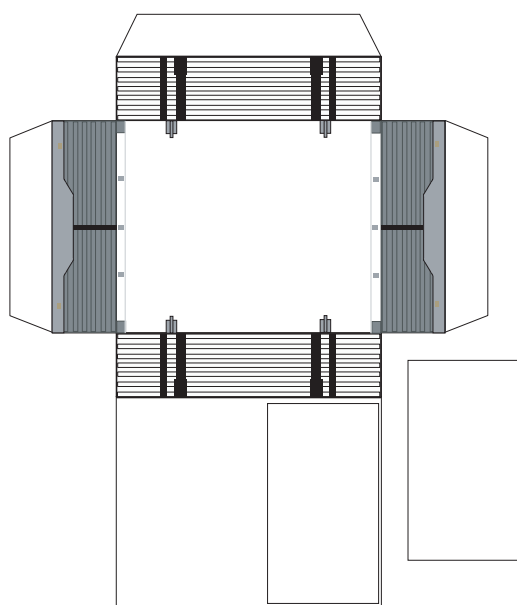
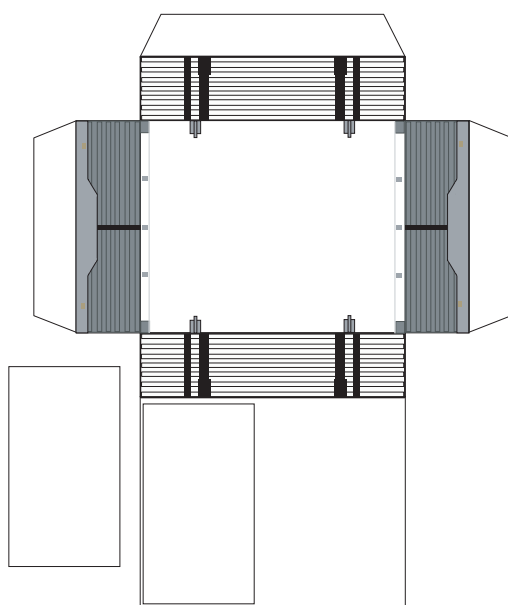
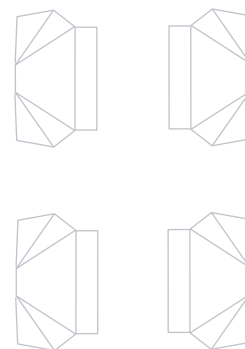
Print on Cardstock (90 lbs)

Shared parts for S1 and P1 trusses

(including the S0 Connectors)



S0 connectors



Optional parts

These folded radiators are not to be glued to the S1 or P1 trusses. These are optional parts in case there is a repair in the real ISS and any of the radiators need to be stowed.



Print on Cardstock (90 lbs) External Stowage Platform-2

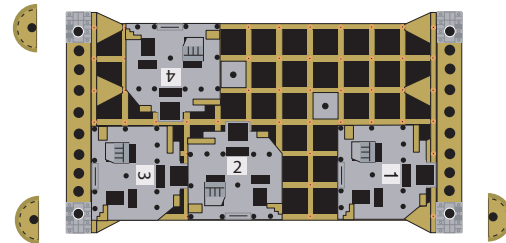
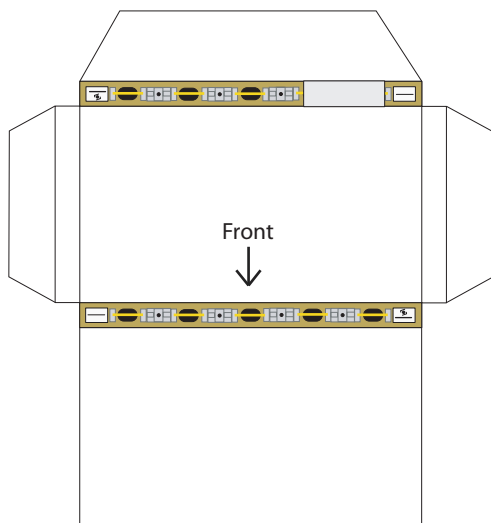
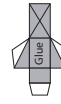
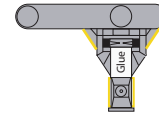
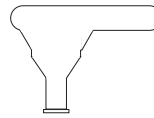
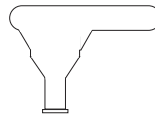
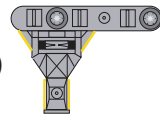
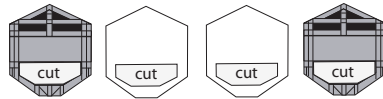


Configuration post STS-135

1:100 Scale

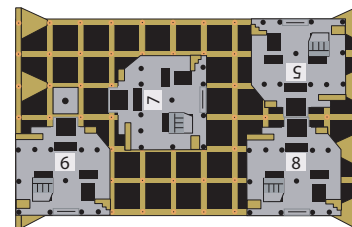


ESPAD



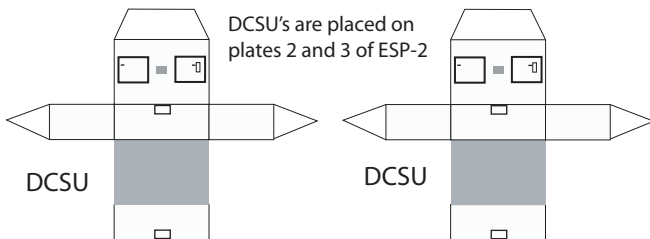
Top

Forward



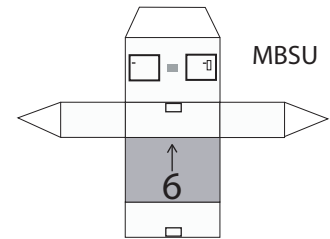
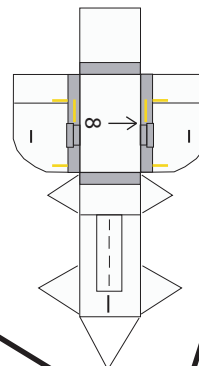
Bottom

Forward

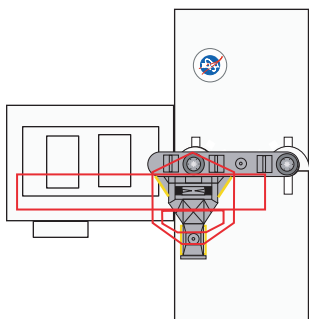


DCSU's are placed on
plates 2 and 3 of ESPAD

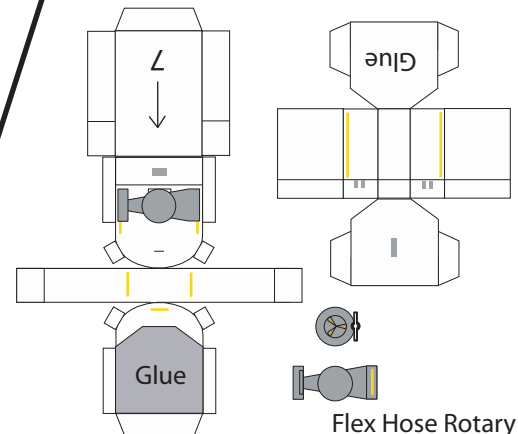
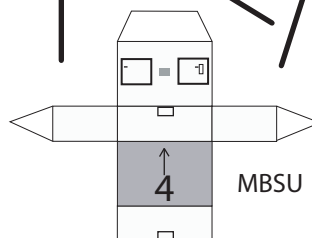
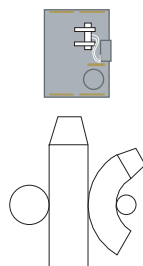
Utility Transfer
Assembly (UTA)



Diagram



Yaw Joint is placed
on plate 5 of ESPAD

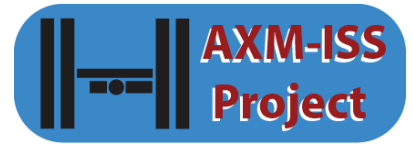


Flex Hose Rotary
Coupler



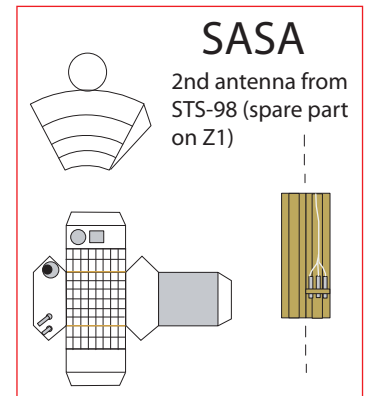
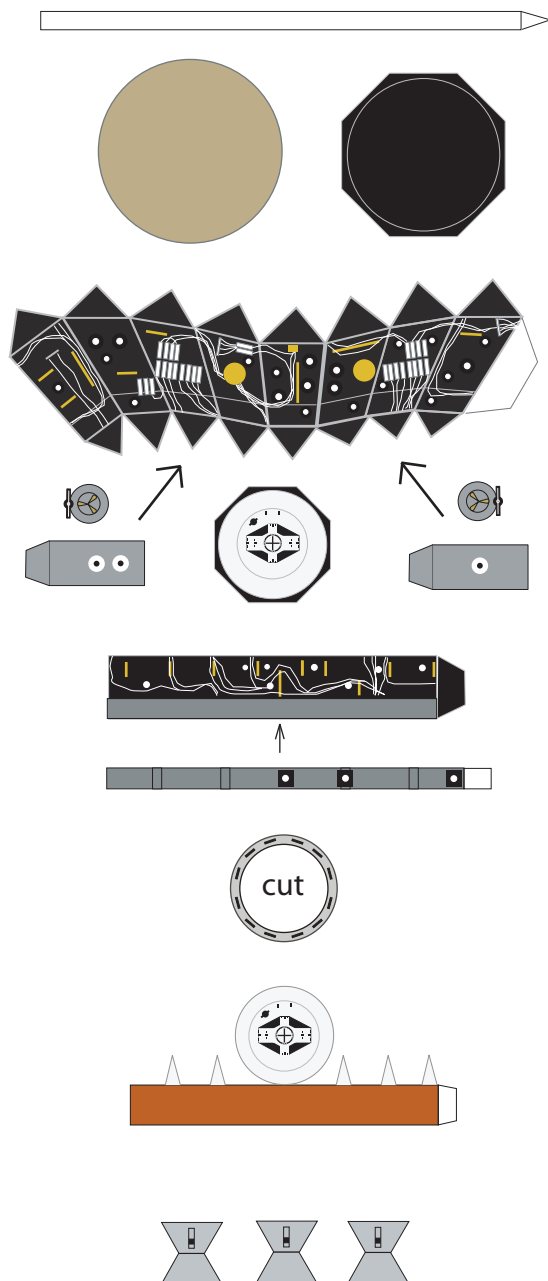
Print on Cardstock (110 lbs)

PMA-3 and Cover

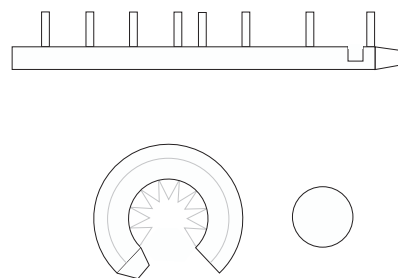


1:100 Scale

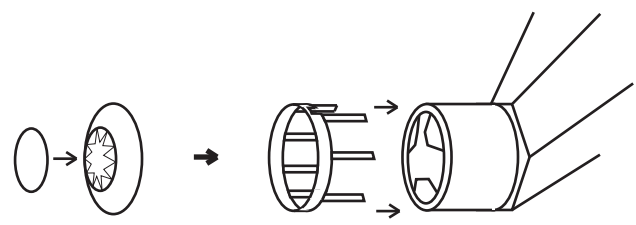
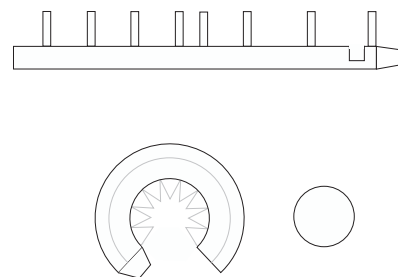
PMA-3



Cover for PMA-3



Cover for PMA-2



Step 2

Step 1



1 cm

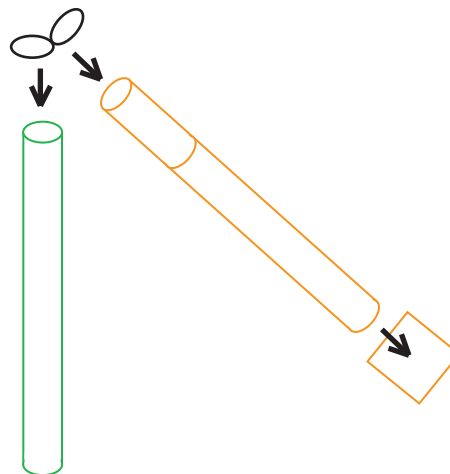
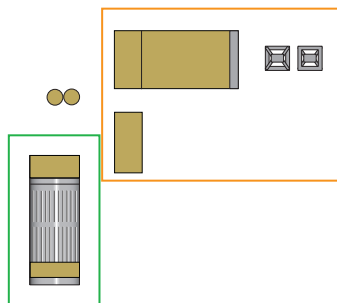
1 inch

Print on Cardstock (90 lbs)

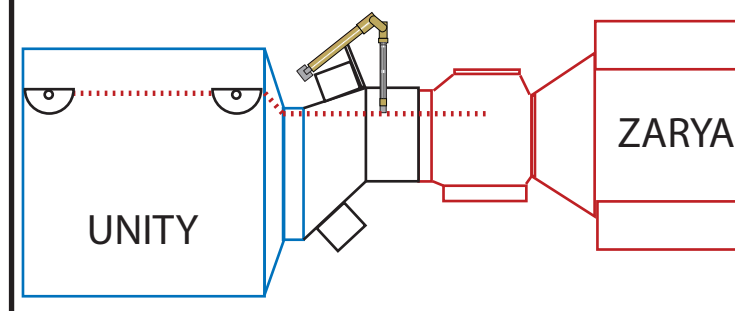


ORU CRANE

1:100 Scale



ORU Crane location on PMA-1





1 cm

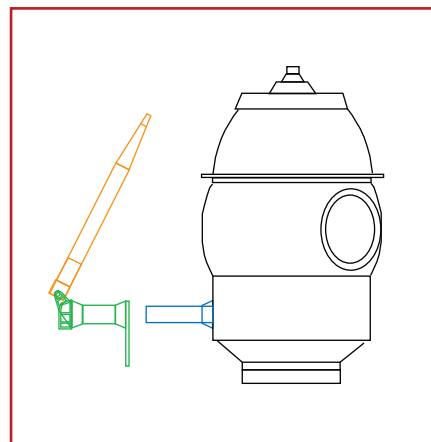
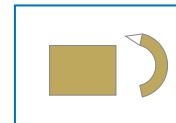
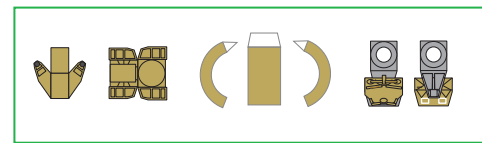
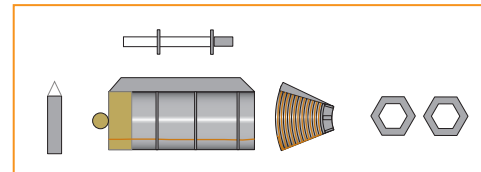
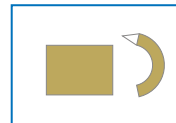
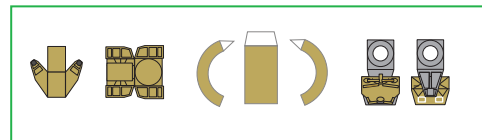
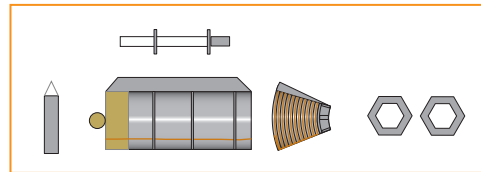
1 inch

Print on Cardstock (90 lbs)



STRELA ARMS

1:100 Scale





1 cm

1 inch

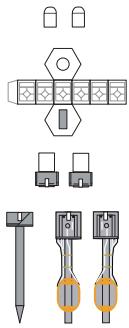
Print on Cardstock (90 lbs)

ISS Antennas

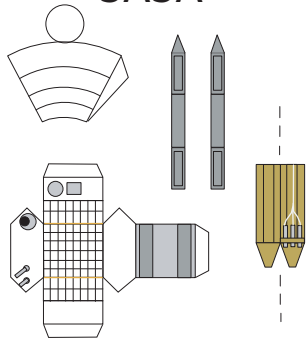


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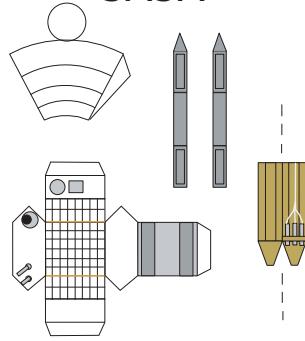
WETA
S3 truss



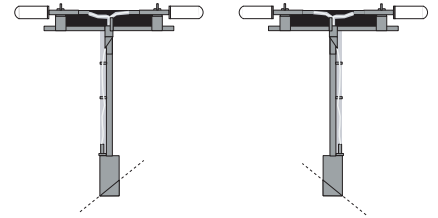
SASA S1 truss



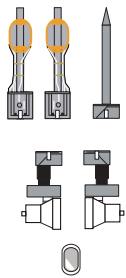
SASA P1 truss



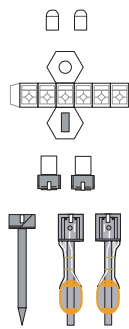
UHF Antenna for P1 truss



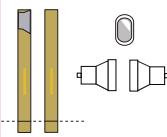
ETVCG
S1 truss



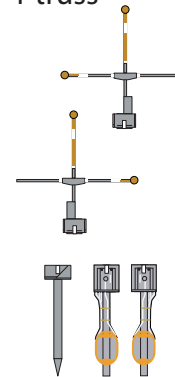
WETA
Unity



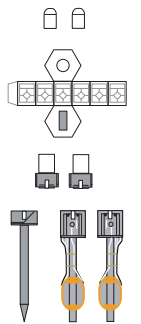
External lights
Unity



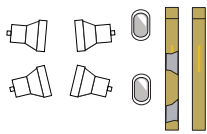
FPMU
P1 truss



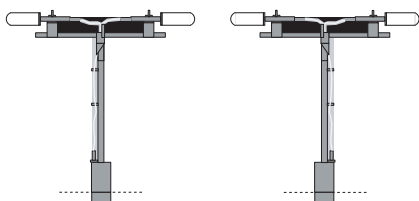
WETA
P1 truss



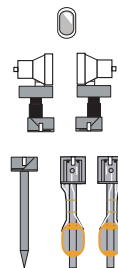
External lights
S1 truss



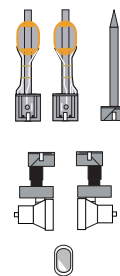
UHF Antenna for Destiny



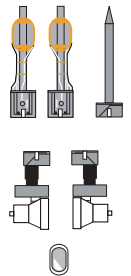
ETVCG
Destiny



ETVCG
P1 truss



ETVCG
P1 truss





Print on Cardstock (90 lbs)



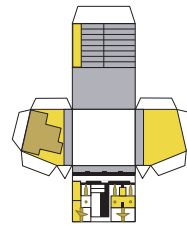
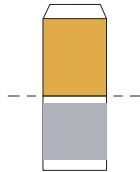
Payloads from HTV-1, HTV-2 and HTV-3

1:100 Scale

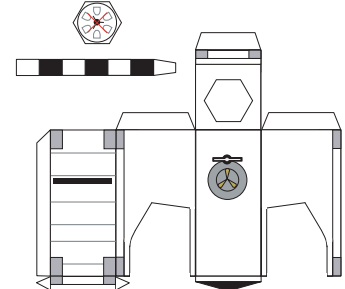


(HTV-1)

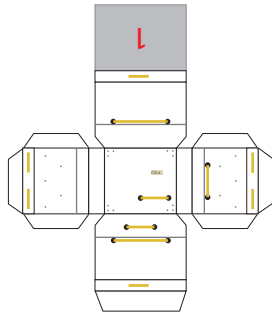
HREP
To JEM -EF



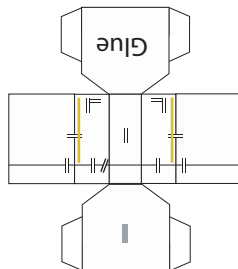
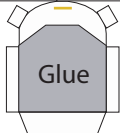
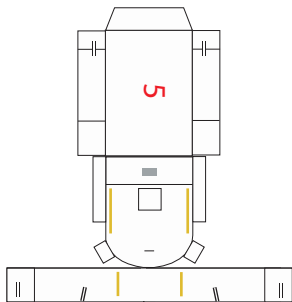
Roll into a tube
and insert into JEM-EF



CTC-4



Flex Hose Rotary Coupler
(FHRC)

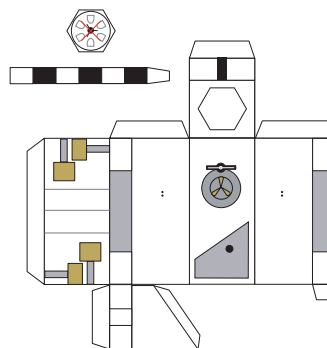


(HTV-2)

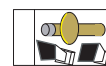
To ELC-4



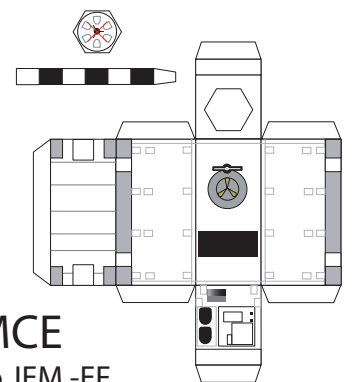
Roll into a tube
and insert into JEM-EF



SMILES
To JEM -EF

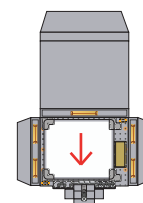
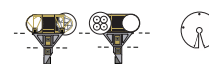
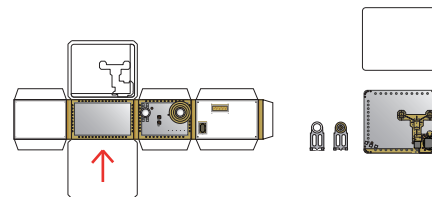


Roll into a tube
and insert into JEM-EF



MCE
To JEM -EF

SCAN Testbed
To ELC-3



(HTV-3)



1 cm

1 inch

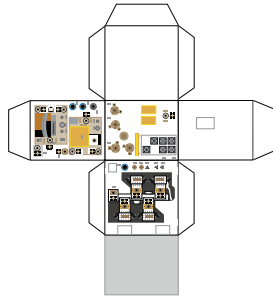
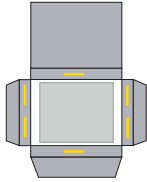
Print on Cardstock (90 lbs)



RRM, SGANT, EOTP and SFA

1:100 Scale

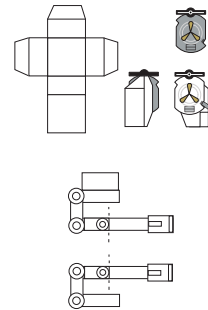
ROBOTIC REFUELING MISSION (RRM)



The RRM will be permanently attached
to ELC-4 on plate 3

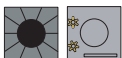
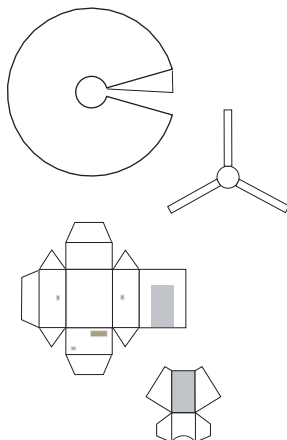
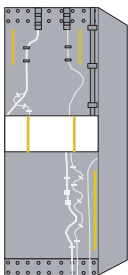
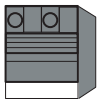
(STS-135)

SFA (Small Fine Arm)



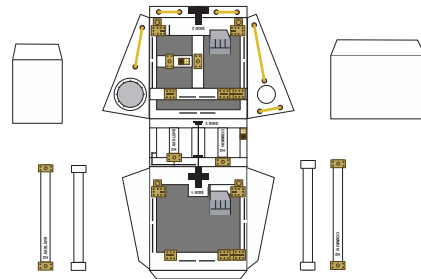
(STS-132)

SGANT Antenna

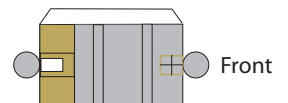


On top of Z1 next to
first SGANT antenna

EOTP



cut out
gray areas



ORU Temporary Platform
is glued on top of S0 truss



Print on Cardstock (90 lbs)



Grapple Bars, UTA, MBSU, STP-H4

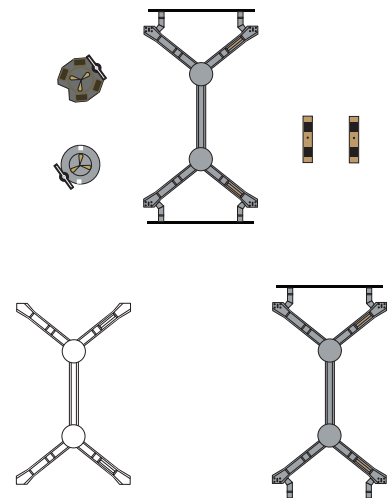
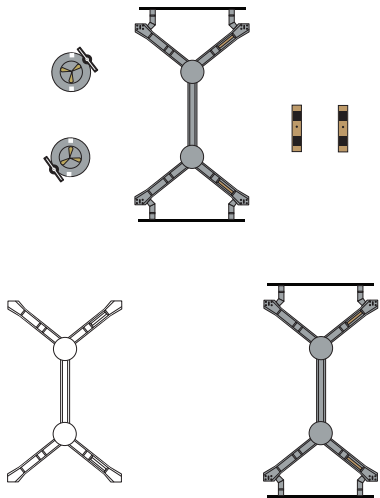
1:100 Scale

Heat Rejection Subsystem Grapple Fixtures

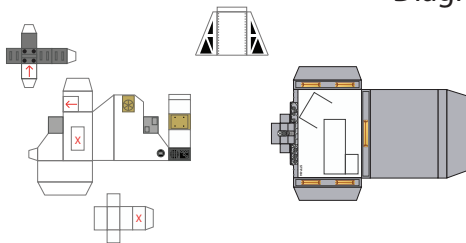
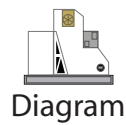
Dragon CRS-2

Grapple Bar 1 (To be placed on S1 truss)

Grapple Bar 2 (To be placed on P1 truss)

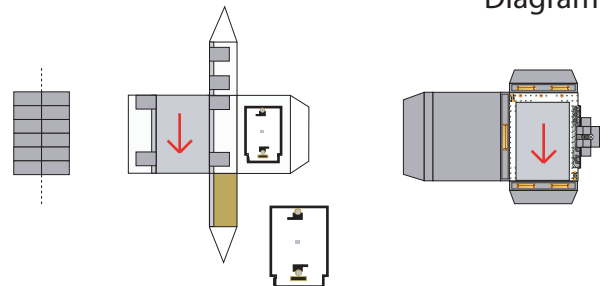
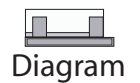


STP-H4



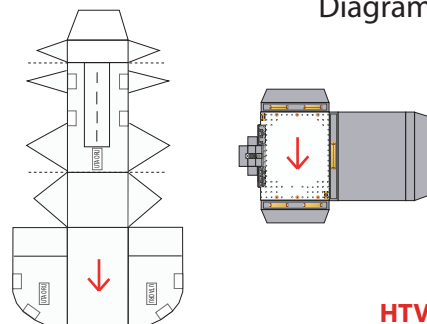
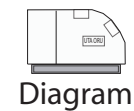
HTV-4

MBSU

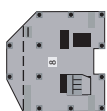


HTV-4

Utility Transfer
Assembly (UTA)



HTV-4



Use PAPER only
Use this part to patch
the space where STP-H3
was glued (ELC-3)



1 cm

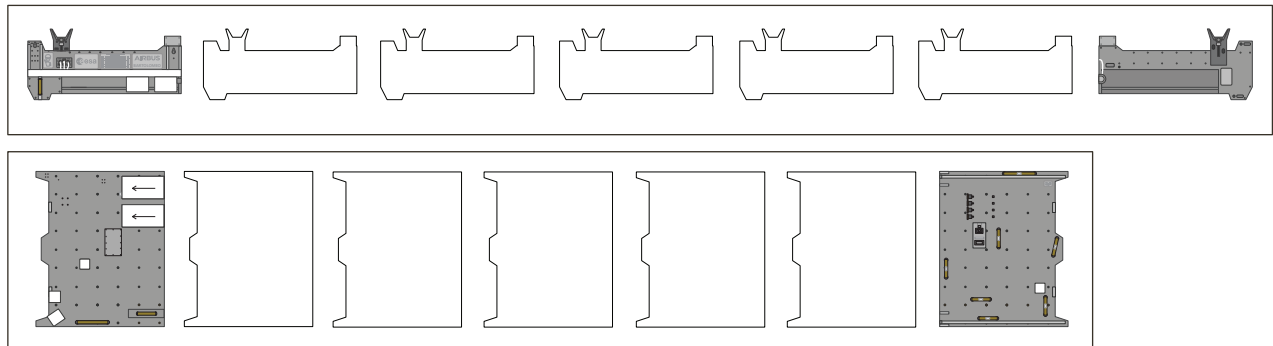
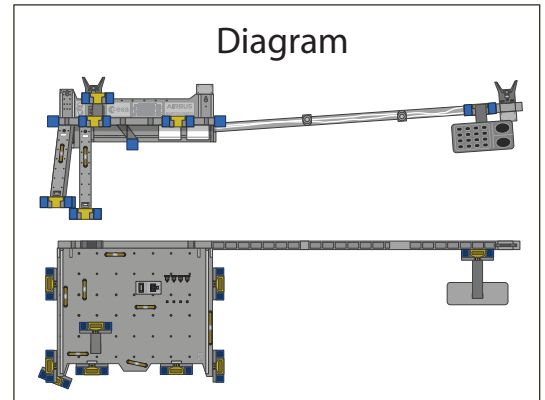
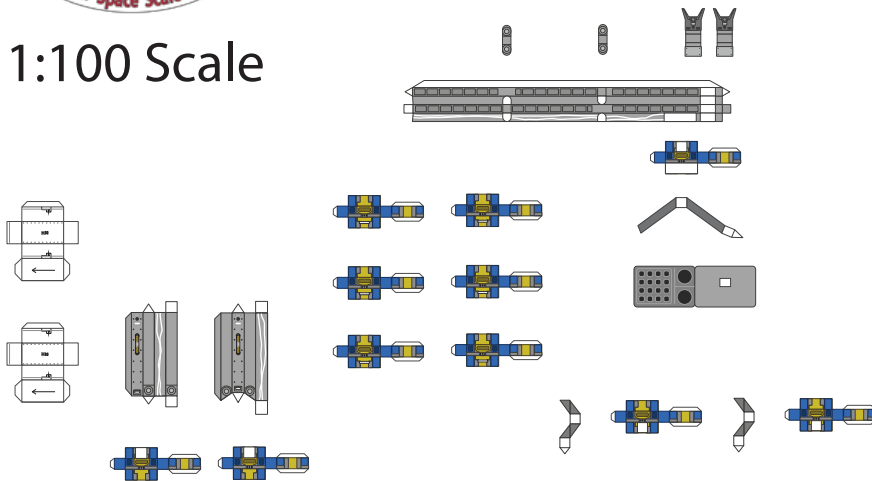
1 inch

Bartolomeo

ISS Configuration

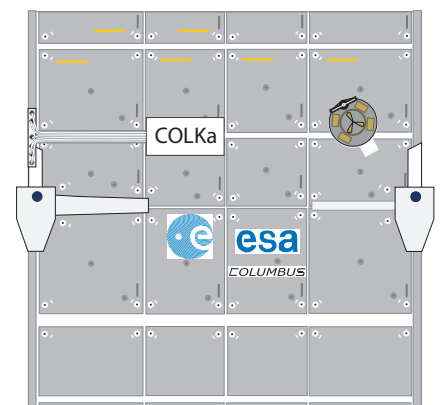
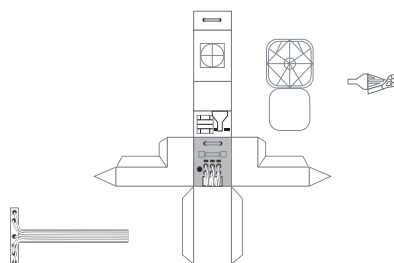
Print on Cardstock (90 lbs)

1:100 Scale



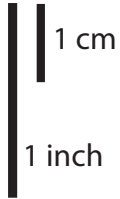
COLKa (Columbus Ka-band terminal)

Diagram





1:100 Scale



BISHOP NanoRacks Airlock

Print on Cardstock (90 lbs)

Bishop Diagram

