

2020 Space Mall Catalogue Great Ideas by



Students



Glenn Johnson

HUNCH Culinary recipes

Tested on Orbit

Tired of the same-old MREs and the humdrum rehydratables? Then **SMACK** those taste buds awake with some new flavors and recipes from the HUNCH culinary students. They pack in the flavor so you don't have to drench your food with Tabasco, wasabi or curry. Ring that dinner bell and stand out of the way as your fellow crew members rush to the table to gobble up their meal. Don't worry about messes, when it tastes this good you won't be washin' plates.

Make sure you ask the Food Lab for the entrees, deserts and breakfasts that keep you salivating for the next meal.

Turn the ho-hum into YAAAAHOOO!!!
And keep that mission running smooth!



Jamaican Coconut Rice and Beans with Shrimp



Roasted Red Pepper Risotto



Organic Harvest Hash



Blackberry Orange Croissant



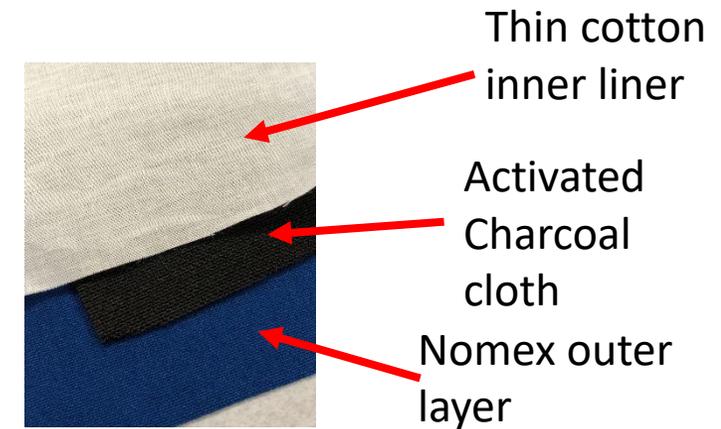
Strawberry Rhubarb Crisp

Odor Control JSB

Don't let yesterday's trash be today's stink, use the new Odor Control JSBs and keep your crew mates' gym socks to a minimum. Whether you are holding that trash for a week or 2 months, Odor Control JSBs can help keep your modules smelling like a summer breeze.

Regular JSBs are just one layer of Nomex and allow odors to flow right through to your nose. Odor Control JSBs have the same fire resistant Nomex but include an activated carbon cloth to absorb the smells that offend as well as a thin cotton liner to keep particulate from getting out.

- Moustronaut litter
- 3 day old food cans
- Tuna packages
- Gym clothes
- Left over muk tuk
- EVA Mags



Handrail Flex Clips

Your crew mates will be jealous as you organize your zero-g workspace with this handy multi clip helping hand. The Handrail Flex Clips use off the shelf ½” Lock Line for positioning your do-dads and thing-a-whats so they are where you want them for your experiment and not floating away. The base for this amazing device is a 3 position clip that fits onto any ISS handrail where it can slide or grip the handrail while holding 3 different objects where you want them.

Can be ordered with a variety of clips and lengths of Lock Line. Your choice.



US Hygiene Kit

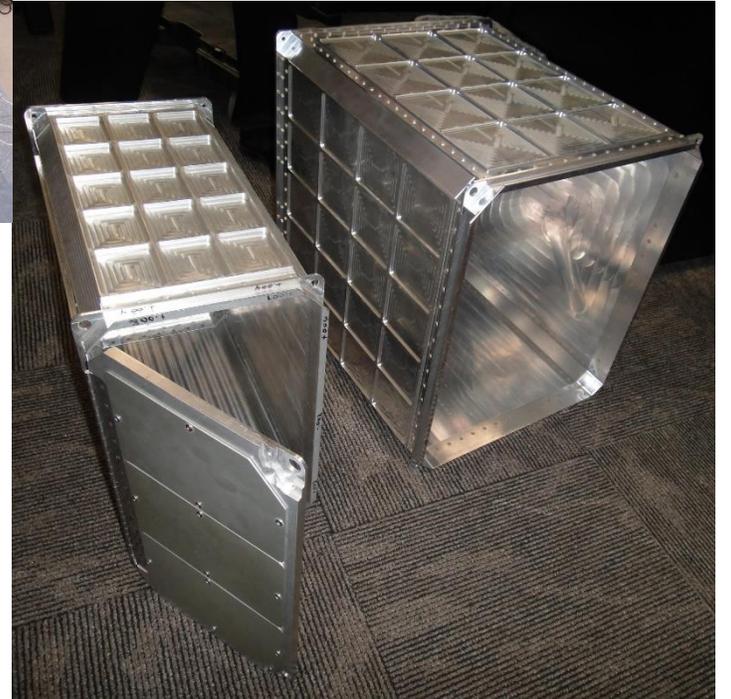
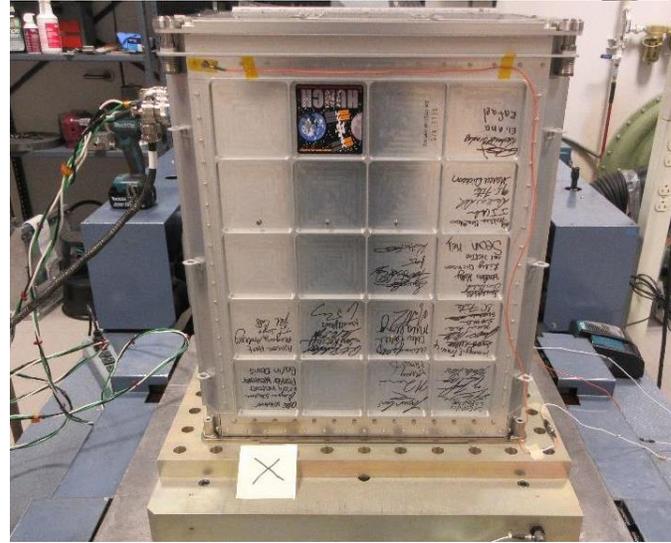
Make your Roosky Komrads envious as you organize and control your personal toiletries and unmentionables (what ever those are) in your stylish US Hygiene Kit. You want labels—use a pen you lazy bum—make it say what you want not what someone else says! This is for utilitarians that want it their way!! Choose from multiple sized pouches to fit your stuff. Split this folder in half to keep some things in your CQ and others by the WHC. Teflon windows or mesh makes seeing the pouch contents easy. Designed by Americans for Americans!! (and anyone else that wants it)



Single and Double Lockers

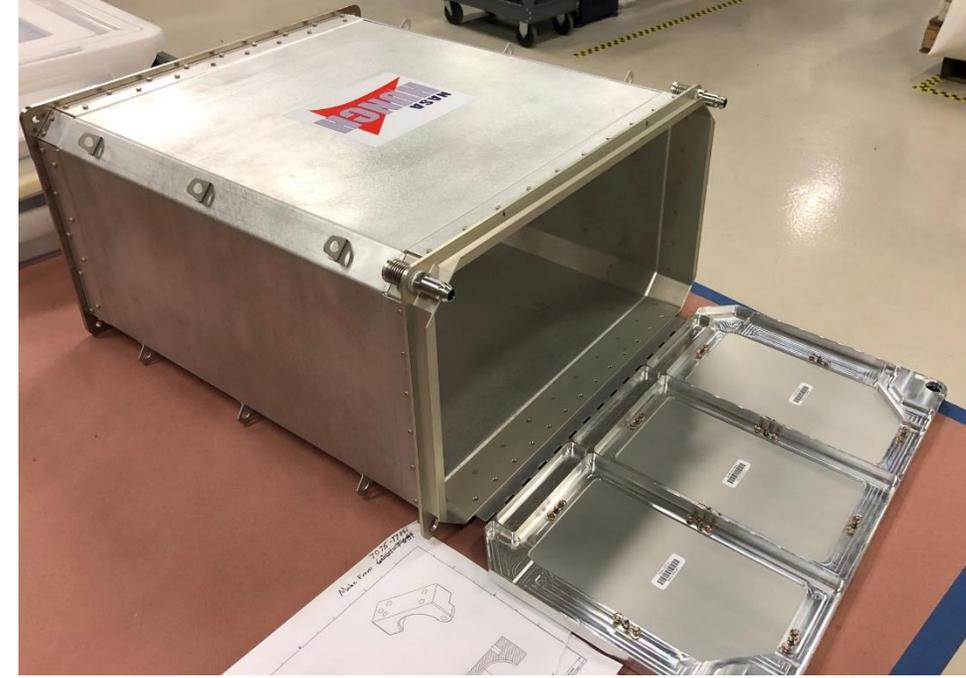
Tested on Orbit

- BOX IT UP!! Are you shipping hardware and equipment that needs a rigid structure or experiments for specialized or one of a kind equipment?
- HUNCH is the sole provider of the ISS single Lockers and we also make Double Lockers. HUNCH students make the parts that make these awesome lockers that have flown to the ISS, on the Orion Test launches and suffered the heat of testing at Glenn Research Center. Send up your experiment to save the world in the lockers NASA trusts.



Sheet metal Lockers

- Need a locker for training or testing but you don't need the expense of a flight locker— HUNCH makes lockers out of sheet metal that meet the same dimensional requirements and use the same rear and front panel faces. Train your engineers and astronauts with these rugged, aluminum lockers that will fit into EXPRESS racks or slide on a table. Fit your EDU hardware into these simpler, less expensive boxes and feel confident that your flight hardware will fit into the Flight Lockers. They are also great for displaying your equipment at trade shows. Why pay more for what you don't need?



ISS Handrails

Tested on Orbit

- Tried and true NASA Blue—Does your space station need handrails? Trying to save money by using what already exists without reinventing? Your experiment needs its own handrail? HUNCH students have experience and hardware needed to build all three lengths of the ISS Handrails meeting the specs required by NASA flight hardware. HUNCH handrails
- Fly the friendly modules care free as Superman



Cargo Transfer Bags

What's that? You want flight CTB's!!!! HUNCH students built and flew all three specialized CTB's for the ATV. Looking for something special, we do that too!

Why does it seem like there are never enough Cargo Transfer Bags? Probably because they keep getting burned up. That's ok because HUNCH students keep making more. Our most requested HUNCH items are CTB's for training. HUNCH has supplied over 300 CTB's for training in every size. Produced by students in Fashion Design Classes, these students learn to read NASA drawings, pattern and sew to NASA requirements. We train our students to be Softgoods Engineers. The only difference between our CTB's and the flight units are the materials.



ATV CTB's—A, B, C



CQ Lint Catchers

Tested on Orbit

Save yourself from hours of cleaning that Crew Quarters ducting with these easy to clean CQ Lint Catchers. Dust and debris from you and your crew mates can collect inside the ducting of the Crew Quarters clogging up the air flow and coating the sensors. These grill covers feature 24 holes per linear inch stainless steel screens to filter out the majority of the dust to keep it out of the ducting and out of your eyes.

After a week of air flow, dust can build up on these screens slowing down some of your air flow but a quick sweep with the vacuum cleaner and you are good as new. Time for the 6 month maintenance? No problem—the inside screen attaches and detaches with magnetic tape. The outside screen can be removed with 6 captive screws if needed.



Galley Table

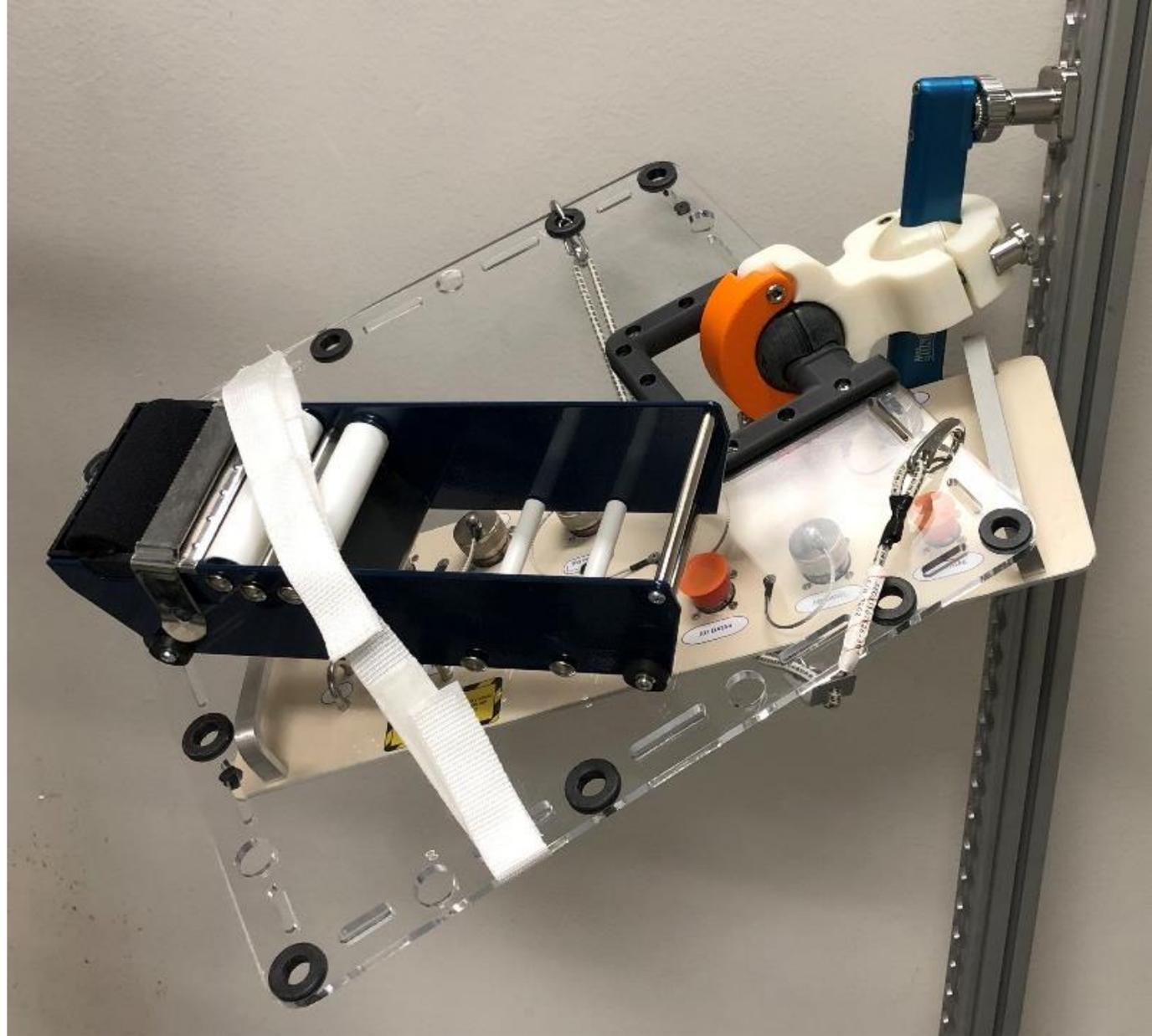
Tested on Orbit

- Don't bunch up—Spread Out. There's no little kids table here. Thanksgiving dinner feels just like home with all your best friends hanging out together. There's plenty of room around this table as a smooth and cleanable surface for those big and small meals. Flip it over and it can double up as a work space with seat track to hold down your repair parts.
- Don't need so much space for work or eating? Fold it up to almost half the length.
- Outfit your new space station with a table that lets everyone eat at once to keep that team working like one unit
- A happy crew is a productive crew!!



Ball Clamp Workstation

Outfitting your space station and don't have a lot of space? Here is a small work table that can be placed on any ISS style handrail and swivels to nearly any direction you need to work with a variable friction Double Ball Clamp. It's like a TV tray for space!! Place it where you need it, move it when you're done. Transparent so you can use both sides for your work or see what is happening on the panel behind it. Secure your hardware with Velcro straps, bungees or place Velcro where you want it. Place a few of these babies around your limited space and watch all the work get done.



Tape Dispenser

Launch Dec 2019

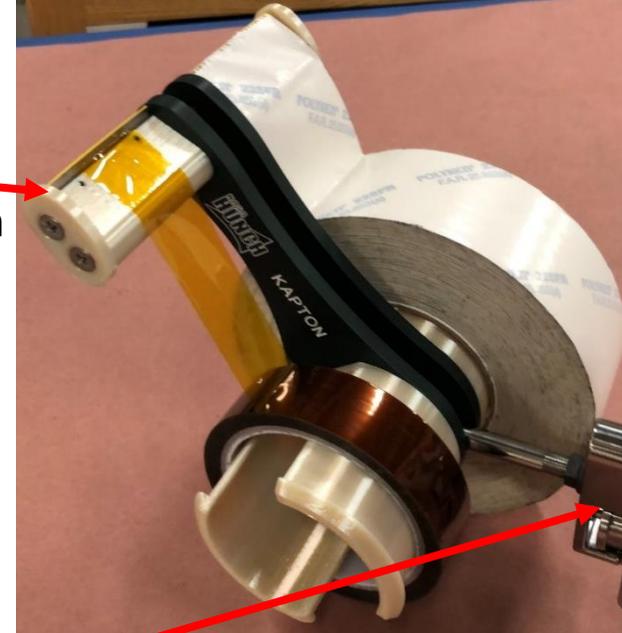
Tired of that pesky static electricity sticking your tape back onto itself? Not every job should require 2 hands. Feel like you're back in the bedroom on Christmas Eve pulling tape like one of Santa's helpers wrapping presents for the young'uns. Use the HUNCH Tape Dispenser to wrap that trash like a Christmas package without fighting with every strip of adhesive.

- This easy cutting, dual dispenser helps you keep both 2" and 1" gray tape and kapton tape where you need them without farbeling for the end of the tape.
- The one handed seat track foot will make it easy to locate this tape holder to your worksite and keep it locked in place even with the most obstinate roll of gray tape.
- Stay safe with the latest safety measures, thanks to our top engineers you should be able to cut all the tape you need quickly and easily without cutting your digits.

Blades optimized for Gray and kapton tape



Bumpers for your protection



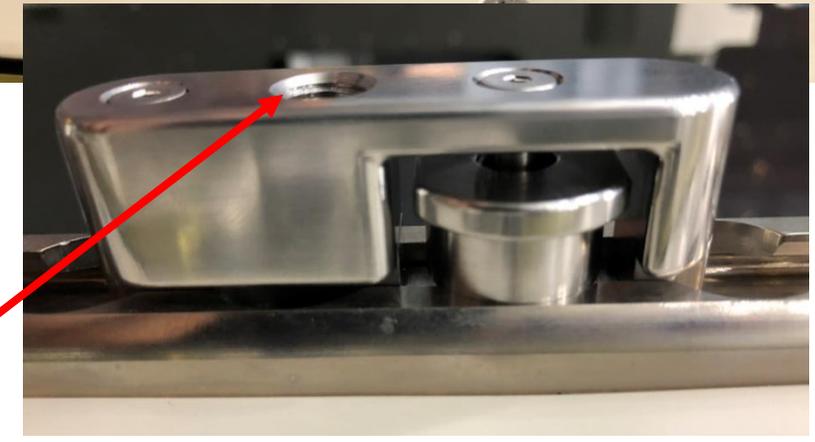
One handed seat track



One handed seat track foot

Launch in Dec 2019

- Stop farbling with the old clunky seat track feet. Sometimes its attached, sometimes its not. With the HUNCH One Handed seat track, push down and slide to hear the plunger snap into place. To remove, pull up on the plunger and slide forward. This sturdy seat track foot is designed for easy operation.
- Choose from green anodized 6061 aluminum (light weight) or electro polished 15-5 stainless (super strong).



Attach your hardware with 3/8"-24 threads

Need extra strength and stability for your hardware?---3 toes are stronger than 2.

Ball Clamp Foot Restraint

Are you having knee and shin pain from twisting in those rigid foot restraints while working from experiment to laptop? Having trouble finding a comfortable foot and leg position while using the WHC or the latest space toilet? Not enough versatility in the standard foot restraints to position yourself in the Cupola for the shot you need?

Try the Ball Clamp Foot Restraint with toe grips and multiple strap locations to give you the comfortable, temporary restraint you need for those positions in odd places. Whether you are 6' 2" or 4' 8" you can angle the Ball Clamp Foot Restraint to fit your needs while floating on the air powered throne or watching the world go by the window. Twist the night away listening to Sam Cooke or working between adjacent tasks in comfort as the ball clamp allows an adjustable friction with the ball so there is little friction for those dance moves or enough friction to practice your Sumo wrestling moves on your unsuspecting crew mates.

60 degrees of rotation from side to side
80 degrees of rotation around handrail depending on the surrounding surface.

Tested on Orbit



Ball Clamps fit on all USOS handrails

Foot Pads

Tested on Orbit

Protect the tops of your tender, rookie feet from the harshness of the rigid handrails like a seasoned steely eyed missile man with the Foot Pads. These leather and cotton pads protect the bony parts of your feet without over heating your feet or compromising the dexterity of your toes. Keep the tops of your tootsies soft and callus free the whole mission. Now with the new adjustable heel strap to keep the Foot Pad in place so you won't have to worry about your slippers slipping off.



Ball Clamp Monopod

Launch Dec 2019

Finally a restraint that allows a camera to be positioned anywhere you want it without kludging several odds and ends together. Place a camera in the hatch window, in the middle of the module, track that ground site like a sharp shooter. Suddenly those difficult or annoying setups are easy and stabilizing your camera where you want it is quick.

Features:

- Off the shelf Monfroto ball head and friction lock monopod— quality you can trust
- Extend from 22" to 64"
- Attach to any ISS handrail with the variable friction Ball Clamp
- The Ball Clamp allows you to glide to the position you want or follow in the range of motion you need to track that ground site photo op. Tighten it down for a more stable hold.
- Position into the middle of the module or out of the way in seconds.
- Easy slide camera shoe
- 4 buttons of seat track to hold your lights, another camera or to hold your iPad with your script

New easy slide
NASA style Camera
Shoe

Monfroto Ball
Head swivel

Seat track

Monfroto
Monopod

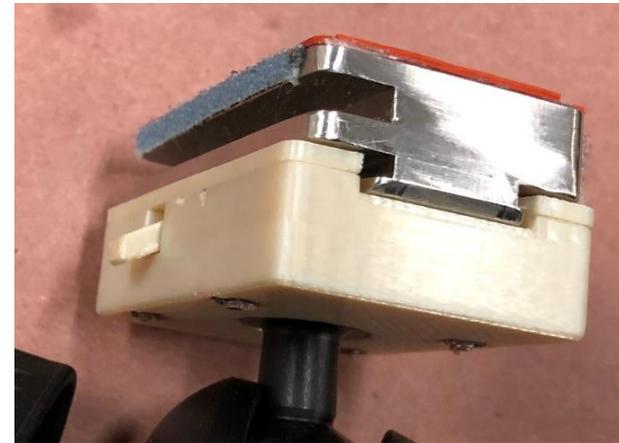
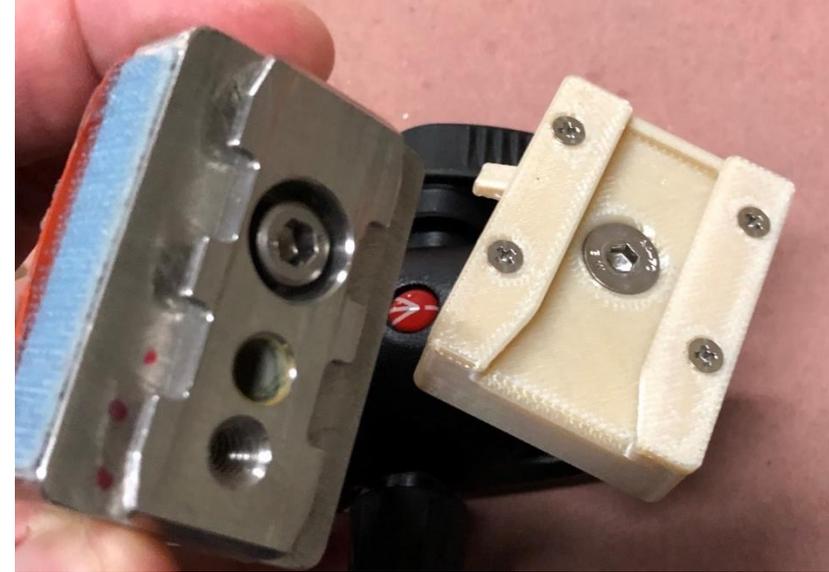
Ball Clamp fits any ISS
handrail for variable friction



EZ-Slide Camera Shoe

Launch Dec 2019

- Why are you fighting with the expensive, bulky NASA camera shoes when you can work with the light weight Easy Slide Camera Shoe? This ULTEM printed camera shoe fits all three NASA camera style feet but avoids all the stiff parts that makes the NASA camera shoe clunky and hard to work with. Cameras, PC Desks, Portable Fans, ...you name it—if its got a NASA camera foot, it will fit tight on an Easy Slide Camera Shoe.



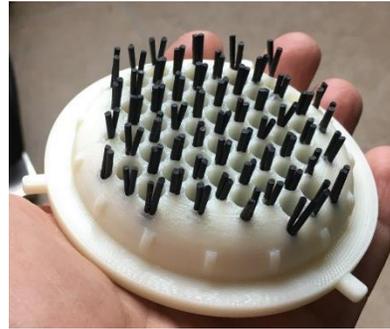
Acme Thread Cleaning Kit

Clean up those dirty, damaged threads with the Acme Thread Cleaning Kit. Using the latest Texas technology in gun cleaning and BBQ basting, this trio of tools were designed to work with the PGT for making sure the MBSU could be replaced without binding up and damaging those ORUs. First use the brush to clean out your shot gun or the debris in your Acme thread and knock off any burrs, then use the sleeved brush to apply your favorite spicy sauce (or Braycoat as required) to the inside of the nut (make sure you replace the sleeve when done to keep your suit clean), finally check the threads with the bolt to ensure your ORU won't get stuck. These brushes were designed with your gloves and safety in mind so even if a wire breaks, the double captured sharp shard won't ruin your space walk.



Vacuum Cleaner Scrub Brushes

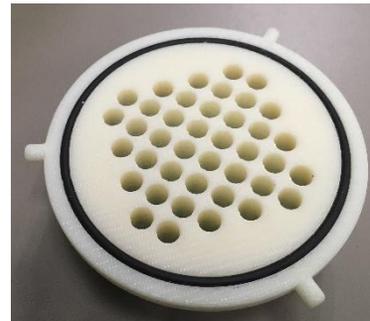
- Your mother doesn't live here so CLEAN UP THE SPACE STATION with the Vacuum Cleaner Scrub Brushes. Choose from stiff bristles to soft bristles to no bristles depending on what you are cleaning. Vacuum the dried up Sriracha sauce and the mustard on those CTBs before it flakes off and gets in your eyes by scrubbing with the stiff bristles.
- Cleaning up after an experiment couldn't be easier with the replaceable head that can be reused or disposed of depending on your needs.
- Save your crew from a cloud of skin when you remove your socks. Don't be embarrassed by those flakey on-orbit baby feet. Choose a brush that fits your tootsie's sensitivities and save it for sucking up that funky dander before it flakes off then throw the brush away when your mission is over.
- Even has an adapter to fit both styles of vacuum cleaner.



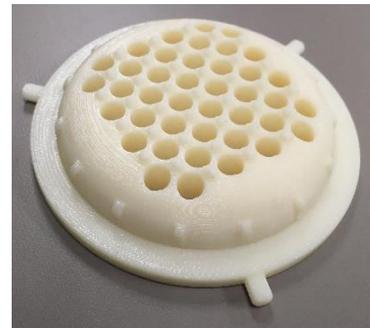
Viton bristles



Smooth vacuum head



Viton o-ring on each head



Bumpy vacuum head



30 lbs test nylon bristles



10 lbs test nylon bristles

Little parts box

Protect your eyes, ears, nose and throat from floating debris like nuts, bolts, springs, Legos, watch parts....anything that is small. Store your loose items in this handy Little Parts Box with double stick tape lining each of the interior walls to keep those little parts stuck where they are out of your way but where you need them. The hinged Teflon cover prevents dust from degrading the stickiness and the magnetic tape will keep the lid closed when not in use. The Velcro patch on the back keeps it in place either at your worksite to keep your small items organized or the inside your CQ free from clutter. If over time your Little Parts Box loses its sticky, you can either trash it and request another or replace the double stick tape with supplies on orbit.



Flat Frogs—Rack Stands

Are your racks feeling tipsy or wobbly?
Need something extra heavy to make them safe for training?

You need some Flat Frog Alabama pride!!! Flat Frogs are produced by our students near Marshall Space Flight Center. Our students do it all. Everything from the cutting and welding of the heavy steel bars, machining of stainless steel brackets to flight rack standards and then painted by our auto shop students to a beautiful NASA Blue

Each rack stand comes complete with the safety tape to give that obnoxious touch that says

“WATCH OUT FOR YOUR TOES”



CBIT—Circuit Board Inspection Table

CBIT is an off the shelf CNC milling machine with an off the shelf video camera rigged up with student designed parts and table to inspect circuit boards from nearly anywhere in the world. Its purpose is to cut down on inspectors having to travel long distances to examine parts and ensure quality. The positioning of the camera and circuit board are controlled by the inspector allowing them to scrutinize any area they deem necessary. The real trick is to have software that can connect through the firewalls without compromising the NASA and contractor systems.

Designed and built by students at Cypress Woods High School.

