

Flex Bracket Adapters



ISS014E17131

- Flex Brackets are restraints that are used often on the station because of their flexibility and ability to be extended. All of the brackets have a seat track foot on one side and a camera shoe on the other.
- Flex brackets are composed of several small segments that are snapped tightly together to make longer “hoses”. These are commercially known as Loc-Line and can be found on the internet. On the ground these hoses are used for directing coolant and lubricant fluids onto materials during the cutting process. The company sells a few kinds of adapters but are directed at fluid transport not the mechanical uses we have on the Station.
- On orbit they are mostly used for holding cameras, lights and maybe parts of experiments in a location. The tight fit of the segments have a good friction fit that allows them to hold a position they have been placed in.

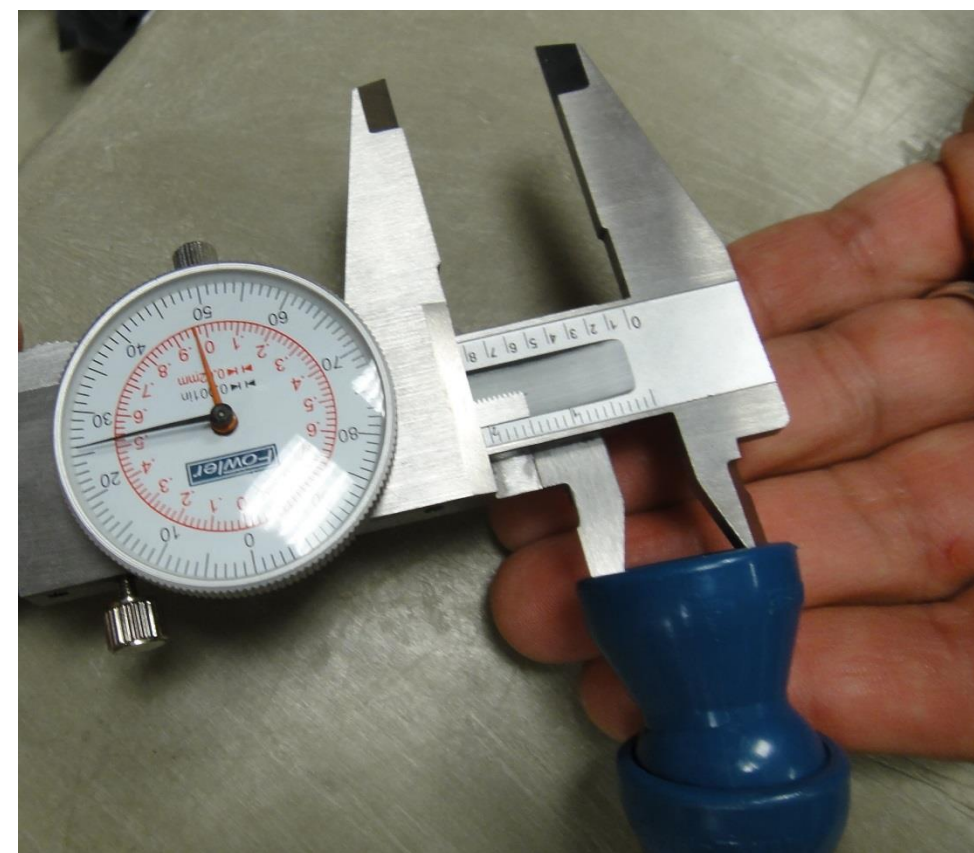
Male diameter = .838"



1.165" long



Female diameter= .826"





Seat track foot attachment

- What kind of adapters could be made that allow the crew to attach multiple camera shoes or multiple seat track feet?
- Are there other things that could be printed out that would be valuable for holding tools, paper, personal items?



Make shift male to male and female to female adapters.



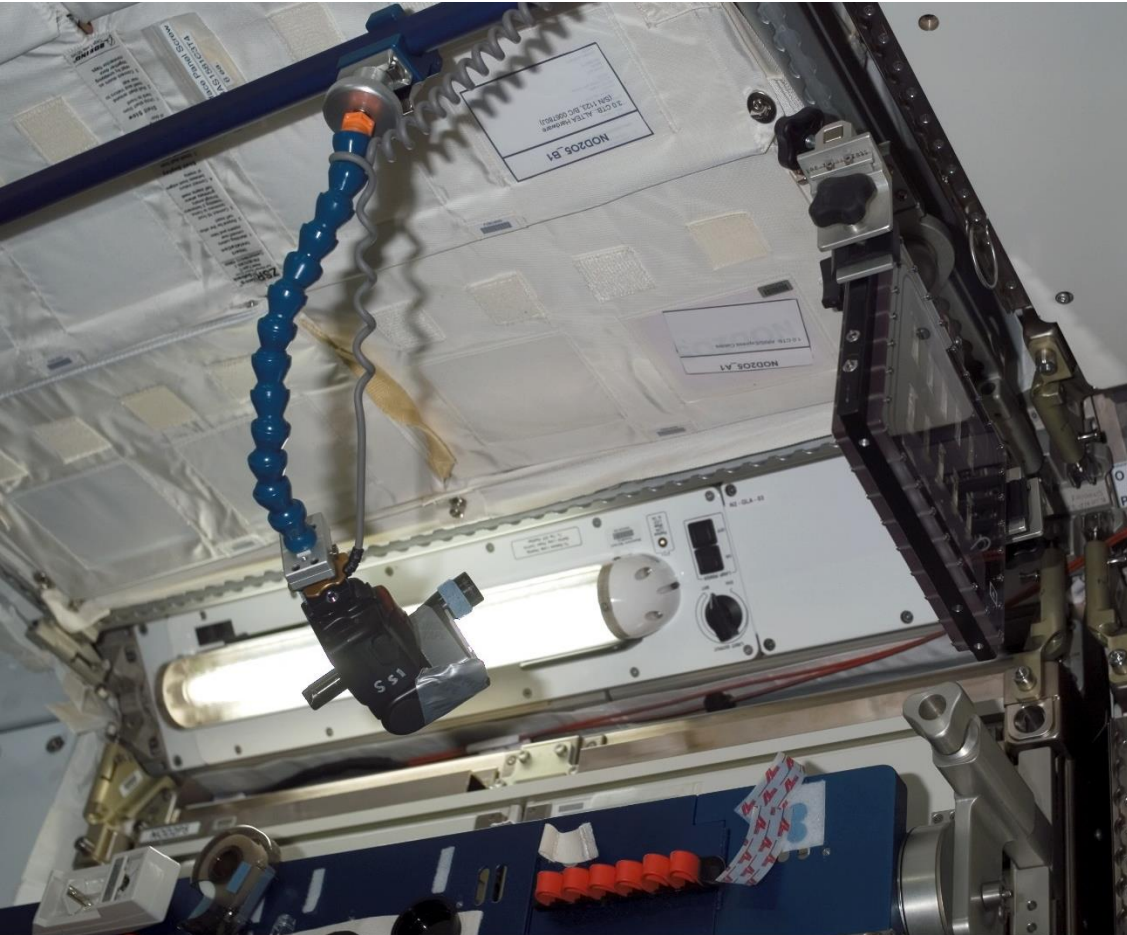
Flex Bracket on a Handrail Clamp holding a Laptop Desk

Flex bracket on an IP Clamp with Camera Shoe visible



Examples of use on orbit

Flex Bracket holding a camera flash and a flash light for the BCAT experiment



Work light on a Flex Bracket. This one is stowed using a bungee.
(Mike Barrett is vacuuming the air filters.)



All of the Flex Brackets are of the $\frac{1}{2}$ " type but there is an attachment for the vacuum cleaner that uses the $\frac{1}{4}$ " segments to reach into crevices for cleaning.

Is there any value to having adapters that would allow the $\frac{1}{4}$ " segments to attach to the $\frac{1}{2}$ " segments?

