## Type Synthesis Process

October 18, 2025

## Brief Answers to Key Design Questions

Provide one- or	two-sentence	answers	to each	question	below.	Replace t	he j	placeholder	line	after
each item.										

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1.	How many links and joints are required for the desired degrees of freedom? (See Eqn 1) Brief answer:
2.	What are the link types, and how many of each are needed for this link set? (See Eqn 2) Brief answer:
3.	How many different link sets satisfy the desired degrees of freedom?  Brief answer:
4.	How many linkage topologies can be formed from these sets of links? Brief answer:
5.	How many unique topologies are available from which to choose?  Brief answer:
6.	How many ways can a ground link be chosen for each topology? Brief answer:

for the task at hand?

Brief answer:

7. How can one predict if any topologic inversions are inherently better than all others

8. How many ways can the types of joints required to satisfy the task be distributed

9. How many different links could serve as the input drivers?

throughout the linkage?

Brief answer:

Brief answer: