



Portable Massage Table

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dc DESIGN CENTER
COLORADO

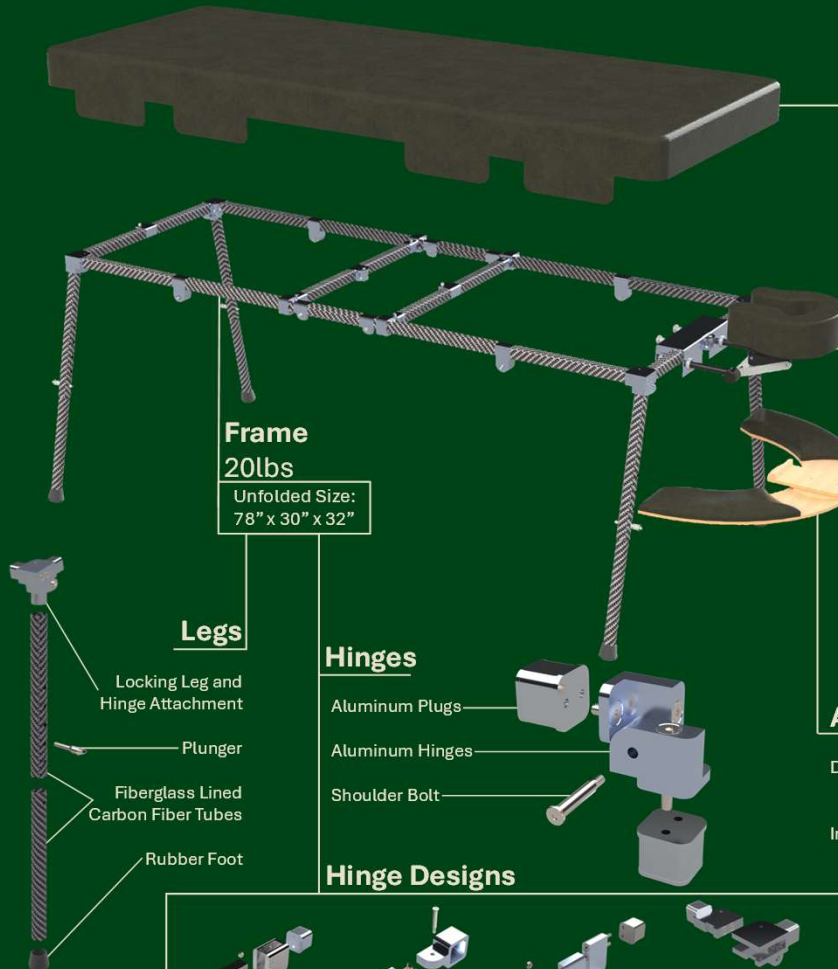
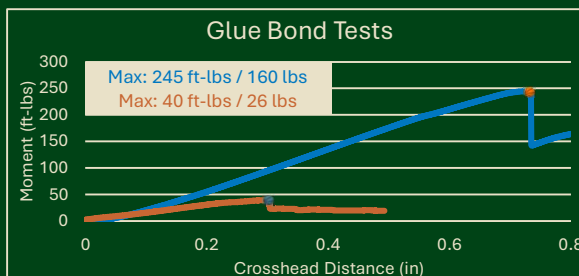
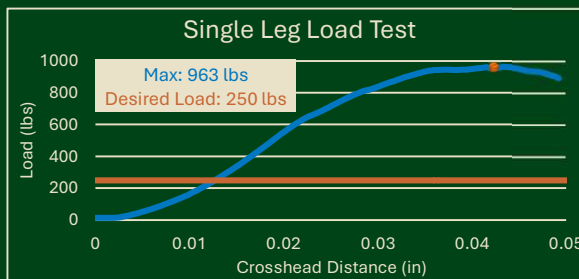
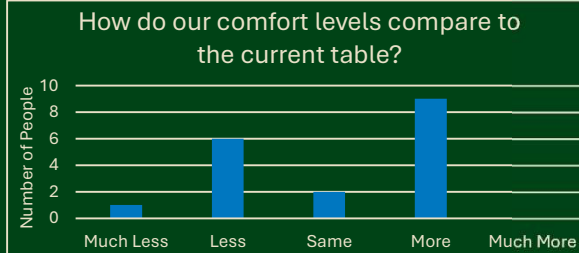
Project Background

- The Milwaukee Bucks are an NBA team from Wisconsin
- The Bucks bring a massage table to every away game
- Their current table when folded up is 2.5' x 2.5'
- This table's awkward shape makes it hard to transport
- Our team was tasked to make a more portable travel massage table

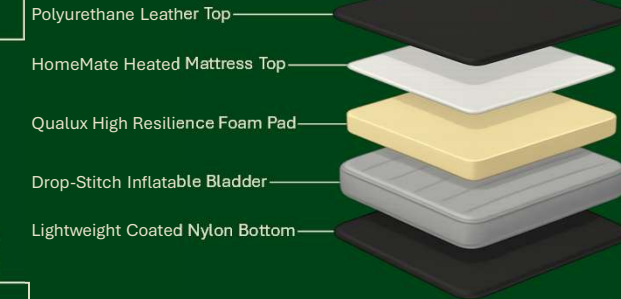
Requirements

- Massage table can be transported in checked luggage
 - <50 lbs
 - <62 linear inches (H+W+L)
- Over 500 lbs static load rating
- As comfortable as the Bucks' current table
- Under 5-minute setup / breakdown time
- Headrest attachment point rated up to 75 lbs
- Integrated heating element and power strip

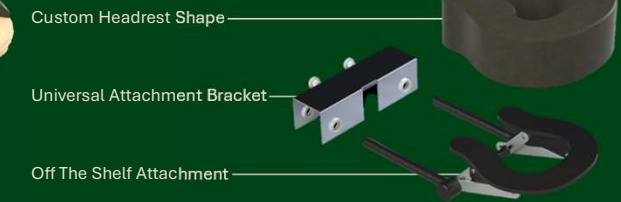
Testing



Mattress Assembly 19.5lbs



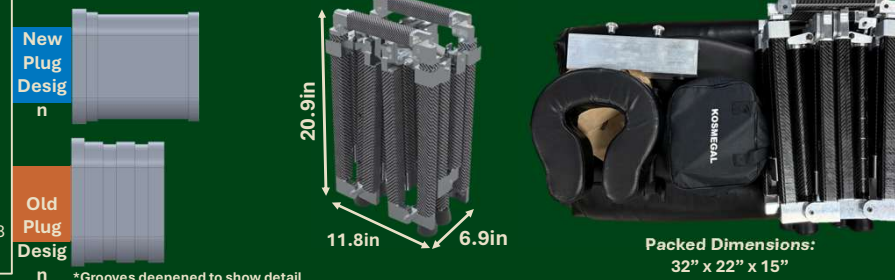
Headrest 3.5lbs



Armrest 2.75lbs



Folded Assembly



Results

- Our design's total weight is 59.3lbs, 9.3lbs overweight
- Full design currently fits inside a checked bag
- Currently rated for 160lbs maximum load
- As comfortable as current travel table
- 3-minute setup / 2-minute breakdown time
- Headrest attachment can hold 50lbs maximum load
- Integrated heat and power

Future Actions

- Increase glue bond strength to withhold 500lb load
- Optimize design for mass manufacturing
- Reduce overall weight (mattress material, armrest material)

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