

SnapNSnow



SnapNSnow is...

A **universal, hands-free** snowshoe interface that offers an **easy on and off** snowshoe experience with **quick transitions** to get you to your hot chocolate in record time.

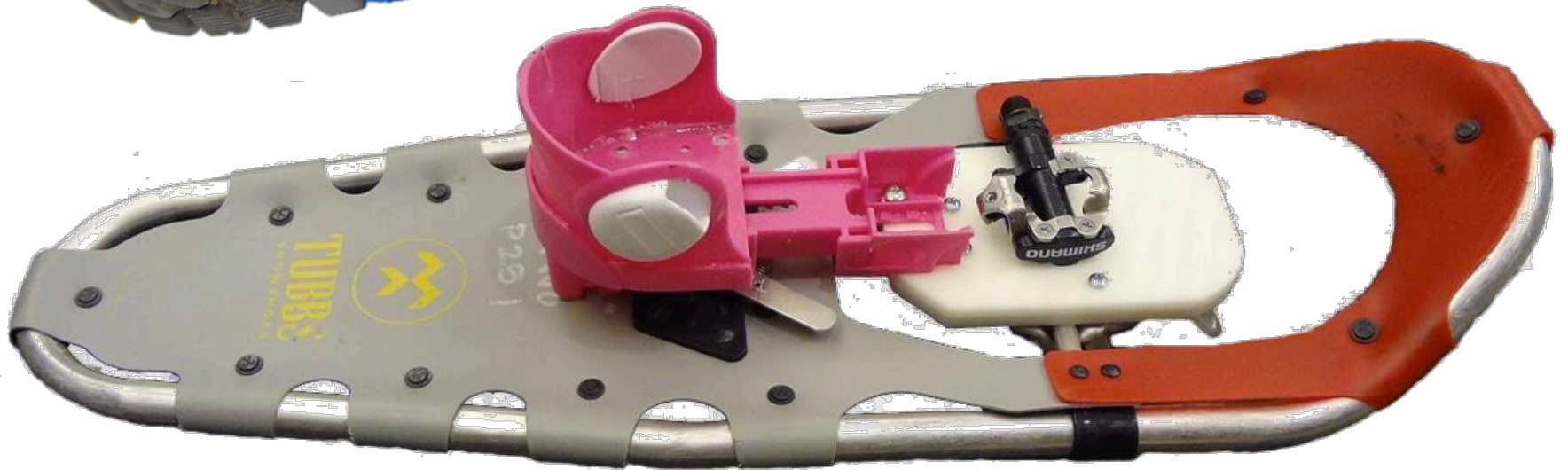
Issues with Existing Snowshoes



Cable and Ratchet



Clip and Rail





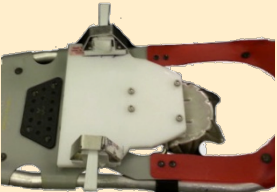
Spring Clip



Product Contract

Customer Need	Attribute	Engineering Specification
Easy On	Attachment Time	Less than 10 seconds with minimal dexterity
Easy Off	Detachment Time	Less than 5 seconds with minimal dexterity
Indoor Safe	Bottom Surface	No floor-damaging protrusions beyond the sole of the shoe
Compatibility	Adjustable	Fits shoe sizes from Mens 4-12
Reliable retention	Strength, Stability	Maximum experimental lifting force from the leg: 300N
Resists snow-packing	Geometry, Materials	Minimum spacing of 1/2 inch between parts, minimal number of cavities
Wear resistant	Durability	Materials which won't rust, degrade, or crack in cold, wet conditions

How They Meet the Specs

	Time On (<10s)	Time Off (<5s)	Withstands Lifting Force	Hands Free?	Compatibility
	✗	✗	✓	✗	✓
	✗	✓	✓	✗	✓
	✓	✓	✓	✓	✗

Moving Forward

- ✓ Refine ergonomics
- ✓ Test with users
- ✓ Improve release method
- ✓ Develop shoe strap system

