Scales 1-5, (5 being highest)

Category	Need	Importance	Difficulty	Attributes	Engineering Specification
	The ST makes running on	5	5	Tripping Safety	Falling on the ST is as safe for a blind person
Safety	treadmill safer				as falling without it is for a sighted person
	Running with ST inspires	5	3	Users of the ST will not feel in danger of	90% of users feel confident and safe
	confidence			falling or injury while using the product	
	The ST can't be used	4	3	Features communicate proper setup.	99% of blind users can tell if setup done
	improperly				properly
	The ST provides appropriate	5	4	Has appropriate displacement force	To be determined by test
	back to front feedback			curve	
	The ST provides appropriate	5	4	Has appropriate displacement force	To be determined by test
	side to side feedback			curve	
	The ST keeps users on	5	2	The ST physically prevents users from	The ST can give a guidance force of 500 N of
	treadmil			running off the treadmill	force side to side and back to front to keep
Usability	The ST doesn't interfere with	5	3	The ST allows user normal	free arm motion for 10-90% of population
	treadmill use				unhindered vertical motion of 3" total at hips
				vertical	unhindered lateral motion of 3" total in at hips
	The ST is nice to touch	5	3	No pinch points, sharp edges, nice	Corner Radii TBD, Max Pressure TBD
		_		material	
	The user can control	5	3	The user can control treadmill while	User has access to start/stop/faster and
	treadmill while using ST			using ST	slower button
	ST is compatible with	4		Can be attached	Fits 80% of widths and decks
	existing treadmills	4	3	No side rail interference	Doesn't interfere with 80% of hand rails
	ST easy to get into	4	3	ST has simple attachment and	90% of Blind users can get into installed device in 3 mins without assistance
	The OT was a long of a table	4		adjustment points	
	The ST remains comfortable	4		The ST does not raise skin temperature	2 F increase in temperature at skin (optimum)
	after extended use	4		The ST does not chafe	No noticeable abrasion after 1hr
	The CT does not draw	4		Hygenic	Machine washable
	The ST does not draw attention to the user	4		Fits in environment	Same color scheme and appearance as other
		1	2	Adjusts to different user height	exercise equipment 5' 2" to 6' 3" height
	The ST adjusts to user size	4		Aujusts to unierent user neight	3 2 10 0 3 Height
		4	1	Adjusts to different user waist	24.2 to 60.2 in circumference
	New Users can easily learn	4		Instruction	For 90 % of users amount of Instruction < 1
Market	about ST				minute