

**Engineering Specifications**

	Tilt (degrees)	Weight While Still Functional (lb)	Range of Resistance (lbf)	Line of Sight (degrees)	Brightness (lumens)	Customer Comfort with Interface Design	Center of Display (±in)	Accuracy of Speed (RPM)	Accuracy of Resistance (W)	Accuracy of Time (s)	Range of Sound Level (dB)	Resistance (±W for x sec)	Pedal Resistance Range (W)	Range of Seat Height (in)	Range of Handlebar Height (in)	Can Withstand x force	Handlebar Range of Motion (degrees)	Fatigue Analysis (life span)	Percentage of Off the Shelf Parts to Customizable Parts (%)	Tilt Range When in Locked Position (degrees)	Weight Range (lb)	Height Range (in)	Weight of Bike (lb)	Safety Analysis	Retain Current Seat Design	Customer Comfort with Sitting on Bike	Clearance Height (in)	Size of Footprint (in)
<b>Customer Requirements</b>																												
Allow Bike to Tilt	*																											
Defined Levels of Tilt	*																											
Lock and Unlock Tilt While Patient is On Bike		*																										
Resistance on Tilt			*																									
Display In Range of View				*																								
LED Brightness					*																							
Intuitive Visual Feedback Display						*																						
Center Light on Display							*																					
Show RPM Measurement								*																				
Show Resistance Measurement									*																			
Show Timer										*																		
Audio Feedback for Tilt											*																	
Adjustable Volume on Audio Feedback												*																
Consistant Pedal Resistance													*															
Pedal Resistance Level														*														
Adjustable Height Seat															*													
Adjustable Height Handlebars																*												
Locking Handlebars																	*											
Rotating Handlebars																		*										
Robust Design																		*	*									
Stable, Locked Upright Position																			*									
Accomodate Varying Patient Weights																				*								
Accomodate Varying Patient Heights																					*							
Moved by One Physical Therapist																						*						
Safe for Patient																							*					
Safe for Physical Therapist																							*					
Use Current Seat Design																							*					
Simple to Use By Physical Therapist																								*				
Step Through to Get On Bike																									*			
Same Footprint or Smaller																										*		