

Revision #: 3

Engr. Spec. #	Importance	Source	Specification (description)	Unit of Measure	Marginal Value	Ideal Value	Comments/Status
ES1	2	CN6	Arm is capable of incorporating the hand	N/A	N/A	TRUE	Either hand will fit or not
ES2	3	CN5	Human interface can be understood quickly	Minutes	20	5	Measuring learning curve for operation
ES3	1	CN1	Wrist motion replicating human motion	degrees of freedom	2	2	
ES4	1	CN2	Forearm motion resembles human motion	degrees of freedom	1	1	
ES5	1	CN3	Elbow motion resembles human motion	degrees of freedom	1	1	
ES6	1	CN7, CN8	Provides enough power to counteract forces (e.g. lifting or grasping)	lbf	20	60	

Engr. Spec. #: enables cross-referencing (traceability) and allows mapping to lower level specs within separate documents

Source: Customer need #, regulatory standard (eg. EN 60601), and/or "implied" (must exist but doesn't have an associated customer need)

Description: quantitative, measureable, testable details