

Engineering Requirements

Engineering Req #	Source	Function	Metric	Unit of Measure	Marginal	Target	Direction
ER 1	CR 1	Minimize time to move between port and starboard	Transfer time	Sec	5	2	↓
ER 2	CR 2	Access to job lines	User reach distance	in	25	15	↓
ER 3	CR 3	Complies with ISM / PSC regulations	Does design only contain mechanical parts?	Yes/No	Yes	Yes	≠
			Distance between existing bench and seat	mm	200	minimize	↓
			Does design require boat modification?	Yes/No	No	No	≠
			Is fixture permanently fastened to boat?	Yes/No	No	No	≠
ER 4	CR 3, CR 10	Lightweight	Weight	lb	100	50	↓
ER 5	CR 4	Device secure in boat	Displacement from secured position	in	180	180	↓
ER 6	CR 4, CR 5	Minimize pinch points	Number of potential pinch points	Count	180	0	↓
ER 7	CR 4	Able to see surroundings	Unobstructed field of view	%	75	100	↑
ER 8	CR 4	Safe in emergency	Boat release time	Sec	5	2	↓
ER 9	CR 4, CR 6	Secure limbs that the user can't control themselves	Are limbs secured?	Yes/No	Yes	Yes	≠
ER 10	CR 7	Minimize entry time	Time to get into seat	Sec	5	2	↓
ER 11	CR 7	Minimize exit time	Time to get out of seat	Min	5	2	↓
ER 12	CR 6, CR 10	Maximize weight capacity	Weight capacity	lb	220	260	↑
ER 13	CR 17	Corrosion-resistance	Are all components chosen for corrosion resistant properties?	Yes/No	Yes	Yes	≠
ER 14	CR 9	Easy to install	Time to install	Min	20	3	↓
			Number of installation steps	Count	180	5	↓
ER 15	CR 1, CR 2, CR 4	Maximize range of movement	Distance from boat centerline	in	23	24	↑
			Degree of rotation	Degree	+/- 30	+/- 45	↑
ER 16	CR 4	Minimize possibility of boom to head collision	Vertical distance between seat and boom	in	10	18	↑
ER 17	CR 8, CR 11, CR 12	Machining minimizes the use of specialized equipment	Percentage of custom parts used in design (custom parts cannot be purchased 'off the shelf' in a store or online)	%	25	5	↓
ER 18	CR 8, CR 11, CR 12	Design has minimal manufacturing time of components (custom parts)	Percentage of custom parts used in design (custom parts cannot be purchased 'off the shelf' in a store or online)	%	25	5	↓
ER 19	CR 10	Easy to remove device from boat	Time to remove	Min	20	3	↓
			Steps to uninstall device	Count	180	5	↓
ER 20	CR 13	Can accommodate multiple body types	% of users who find seat "comfortable"	%	60	75	↑
ER 21	CR 14, CR 15, CR 16	Designed to lower dimensions and tolerances	Secure fit in torso	Yes/No	Yes	Yes	≠

Writing Engineering Specifications

J. B. Johnson



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