

Spec	Source	Metric	Unit of Measure	Marginal Value	Ideal Value	Preferred Direction
S1	CN1	Horizontal Jump Distance	Feet	1*body length	1.5*body length	Up
S2	CN1,2	Uses Air Muscles	Binary		Yes	
S3	CN3	Sliding Distance After Landing	Inches	3	2	Down
S4	CN4,5	Self-Contained	Binary		Yes	
S5	CN3,6	Overall Weight	Lbs	50	25	Down
S6	CN3,5,6	Overall Length	Feet	4	2	Down
S7	CN3,5,6	Overall Height	Feet	2	1	Down
S8	CN3,5,6	Overall Width	Feet	1		Down
S9	CN8	Resemble a Tiger	Percent	80	100	Up
S10	CN2	Muscle Air Pressure	psi	60	60	Down
S12	CN9	Total Response Time to Jump Command	s	0.3	0.15	Down
S13	CN2,9	Solenoid Response Time	ms	50	25	Down
S14	CN2,9	Muscle Fill Time	s	.5	.25	Down
S15	CN2,7	Battery Life	# of Jumps	1	100	Up
S16	CN2,8	Two Actuated Legs	Binary		Yes	
S17	CN4,5	Tank can be filled in less than 5 minutes	Binary		Yes	Down