

System QFD

Project:	Honey Bear
Date:	9/20/2018

1	Radial Loads										
2	Thrust Loads	++									
3	Weight	+	+								
4	Volume	+	+	++							
5	Speed										
6	Cost	-	-	--	-	-					
7	Voltage					+	-				
8	Current					+	-	+			
9	Material Strenght	+	+	++				++			
10	Shaft size			+	+						-

Legend
A
B
C

		Engineering Requirements										Customer Opinion Survey					
Customer Needs		Customer Weights	Radial Loads	Thrust Loads	Weight	Volume	Speed	Cost	Voltage	Current	Material Strenght	Shaft size	1 Poor	2	3 Acceptable	4	5 Excellent
1	Meets Loading Requirement	4	9	9	3	3		1			9						
2	Needs Safety Equipment	4			3	3	1	1			9	1					
3	Needs to be portable	2	3	3	9	9		3			3	3					
4	Needs to be compatable with different bearings	4			1	3						9					
5	Needs to output torque vs loads applied	3	3	3				3									
6	Output friction vs applied loads	4	3	3				3									
7	Needs to fit in office space	2				9						3					
8	Needs to be electrical power	2							9	9							
9	Needs to rotate the bearing	3					9										
10	Affordable	1	1	1	1	1		9			9						
11	Easy Maintaince	3			3	3					3	3					
Engineering Requirement Units			Lbf	Lbf	Lbf	ft^3	Degrees/sec	\$	V	Amps	lbs/in^2	in					
Engineering Requirement Targets			8000	4000	TBD	9	10	TBD	TBD	TBD	TBC	Varies					
Absolute Technical Importance			64	64	56	82	31	44	18	18	96	61					
Relative Technical Importance			3	3	6	2	8	7	9	9	1	5					