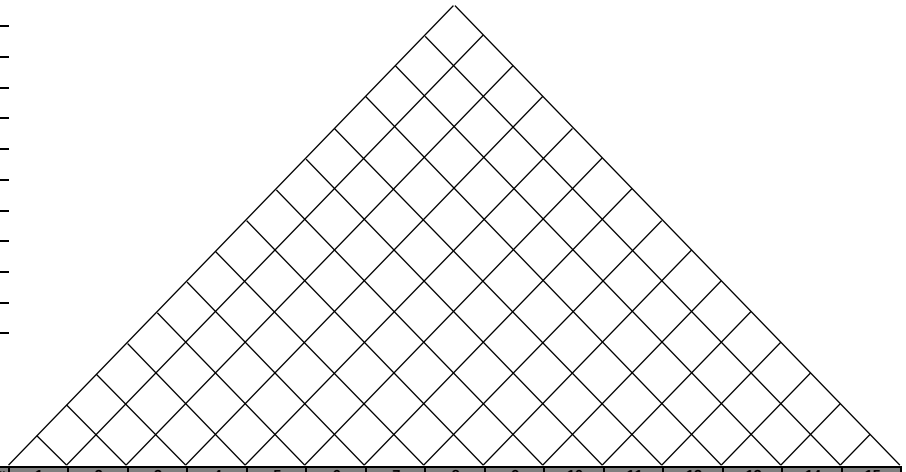
Title: Dresser-Rand Gasket Cell House of Quality

Author: Aaron Marcotte

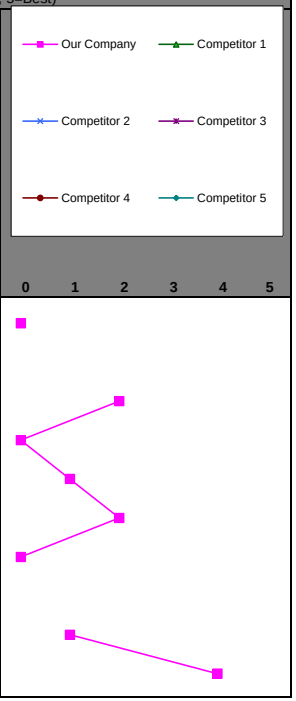
Date: 1/14/2011

Notes: Senior Design P11460



Legend		
⊙	Strong Relationship	9
O	Moderate Relationship	3
▲	Weak Relationship	1
++	Strong Positive Correlation	
+	Positive Correlation	
−	Negative Correlation	
▼	Strong Negative Correlation	
▼	Objective Is To Minimize	
▲	Objective Is To Maximize	
X	Objective Is To Hit Target	

Column #																	Competitive Analysis (0=Worst, 5=Best)						
				Direction of Improvement: Minimize (▼), Maximize (▲), or Target (x)	▼	▼	▼	▼	▼	▼	▼	▼	x	▼	▲	x	▼	▼	▲						
Row #	Max Relationship Value in Row	Relative Weight	Weight / Importance	Quality Characteristics (a.k.a. "Functional Requirements" or "Hows") / Demanded Quality (a.k.a. "Customer Requirements" or "Whats")	Square Footage of Gasket Cell	Travel Time to Supplier & Customer	Search Time for Materials	Search Time for Tools, Dies, & Patterns	Average Batch Size	Process Cycle Time	Scrap	Setup Time	Standard Work Available	Work In Process	Return on Investment	Payback Period	Operation & Maintenance Costs	Machine Time	Tool Life	Our Company	Competitor 1	Competitor 2	Competitor 3	Competitor 4	Competitor 5
1	9	13.6	9.0	Footprint Reduction	⊙															0					
2	9	13.6	9.0	Relocation to Point of Use	⊙	⊙											⊙								
3	9	13.6	9.0	Safety	▲		▲	▲					⊙							2					
4	9	13.6	9.0	Die & Pattern Organization and Standardization			▲	⊙		O		▲	▲	▲						0					
5	9	4.5	3.0	Inventory Management	▲	▲	⊙		O	O	⊙		▲	O	▲	▲				1					
6	9	4.5	3.0	Tool & Storage Organization	▲			⊙					▲						▲	2					
7	9	4.5	3.0	Upgrade Technology	▲		▲	▲	▲	O	O	⊙	⊙	▲	⊙	⊙	⊙	⊙	⊙	0					
8	9	13.6	9.0	Increase Efficiency Using Lean Principles	⊙	⊙	⊙	⊙	O	⊙	O	⊙	⊙	O	▲	▲	O								
9	9	4.5	3.0	Process Standardization			▲	▲	▲	▲	▲	O	⊙	▲						1					
10	9	13.6	9.0	Fast Response Time		⊙	⊙	⊙		⊙		⊙						O		4					
				Target or Limit Value	>50% Reduction	>%50 Reduction	2 min	2 min	20% increase	20% Decrease	25% Decrease	50% Decrease	Creation & Implementation	As Needed	11% Hurdle	2 Years	Minimized	20% Reduction	Maximized						
				Difficulty (0=Easy to Accomplish, 10=Extremely Difficult)	0	2	3	3	6	6	2	0	9	7	5	5	6	4	7						
				Max Relationship Value in Column	9	9	9	9	3	9	9	9	9	3	9	9	9	9	9						
				Weight / Importance	395.5	372.7	322.7	431.8	63.6	318.2	100.0	313.6	350.0	77.3	59.1	59.1	204.5	81.8	45.5						
				Relative Weight	12.4	11.7	10.1	13.5	2.0	10.0	3.1	9.8	11.0	2.4	1.8	1.8	6.4	2.6	1.4						



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