

Selection Criteria	Concept Variants						
	A	B	C	D	E	G	Datum(F)
Cost (4)	(+)	-	(+)	(+)	(+)	-	0
Quality (7)	0	0	0	0	0	0	0
Material (5)	0	(+)	(+)	0	0	0	0
Geometry (5)	-	0	(+)	0	0	-	0
Transport (5)	(+)	-	(+)	0	0	-	0
Ergonomics (6)	-	0	0	0	-	-	0
Safety (10)	-	(+)	0	(+)	(+)	(+)	0
Energy (7)	(+)	-	(+)	0	(+)	0	0
Operation (7)	0	0	0	0	0	0	0
Maintenance (5)	-	0	0	(+)	(+)	-	0
Assembly (6)	(+)	0	(+)	(+)	-	-	0
Ease of use (7)	-	-	(+)	-	(+)	0	0
Time (9)	0	0	-	-	0	0	0
Schedule (7)	0	0	0	0	0	0	0
Simple understanding (6)	(+)	0	(+)	0	(+)	0	0
Pluses	5	2	8	4	5	1	
Same	5	9	6	9	7	8	
Minus	-5	-4	-1	-2	-2	-6	
NET	0	-2	7	2	3	-5	
Rank	4	5	1	3	2	6	
Continue?	Yes	No	Yes	Yes	Yes	No	

		Concepts					
Selection Criteria	Weight(Percentage)	A		D		CE	
		Ranking	Weighted Score	Ranking	Weighted Score	Ranking	Weighted Score
Cost	9	2	0.18	2	0.18	4	0.36
Quality	7	3	0.21	2	0.14	3	0.21
Material	7	3	0.21	3	0.21	3	0.21
Geometry	5	2	0.1	3	0.15	3	0.15
Transport	4	2	0.08	4	0.16	2	0.08
Ergonomics	5	2	0.1	5	0.25	4	0.2
Safety	8	1	0.08	4	0.32	5	0.4
Energy	9	2	0.18	4	0.36	4	0.36
Operation	7	3	0.21	3	0.21	4	0.28
Maintenance	8	2	0.16	3	0.24	3	0.24
Assembly	6	2	0.12	3	0.18	4	0.24
Ease of use	6	1	0.06	2	0.12	3	0.18
Time	7	3	0.21	3	0.21	3	0.21
Schedule	6	3	0.18	3	0.18	3	0.18
Simple understanding	6	2	0.12	2	0.12	2	0.12
Total Sum		2.2		3.03		3.42	
Rank							
Continue?		NO		Develop		Develop	