

Weighted Matrix

Last Updated 14/04/2013

	Weighting	15	15	11	11	9	7	7	5	5	5	5	2	2	1	100
Concept No.	Concept Name	Multi-functional	Mass	Emergency Landing	Idle Power	Environmental Conditions	Perchability	Centre of Gravity	Complexity	Engaging Time	Disengaging Time	Volume	Operational Power	Multi-purpose	Cost	Total
-	Perfect System	10	10	10	10	10	10	10	10	10	10	10	10	10	10	1000
-	Worst System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	The Claw	10	3	10	10	10	10	5	7	8	8	6	6	10	2	789
5	Magno Screw	5	5	10	10	10	10	10	7	10	5	7	7	5	3	772
8	Slider	10	2	10	10	10	10	5	7	3	8	6	7	10	4	753
4	Magno Hug	10	3	10	10	10	10	5	7	8	3	6	4	5	2	750
12	Slimer	0	7	10	10	10	10	10	7	10	9	6	6	5	5	742
11	The Gecko	0	7	10	10	10	10	10	7	10	3	6	6	5	5	712
18	Snap On Cuffs	0	10	10	10	0	10	5	10	9	2	10	10	10	10	680
19	The Lock Down	0	4	10	10	10	10	10	7	5	9	7	4	5	4	672
14	The Jumper	0	7	10	10	5	10	10	7	10	3	6	10	0	5	665
6	Twister	10	1	10	10	5	10	5	7	1	2	5	4	10	1	639
7	The Hook	0	10	10	10	0	0	5	10	10	10	10	10	10	10	655
16	The Winch	0	3	10	10	10	10	10	4	0	8	6	4	5	3	606
2	The Millipede	10	4	0	0	10	10	10	4	5	5	6	4	10	1	569
21	Fly	0	4	10	10	0	10	10	10	2	3	7	3	5	3	549
13	Tesla Grip	0	3	10	0	5	10	10	7	10	10	6	1	0	5	512
1	The Balloon	10	1	0	0	10	10	5	7	2	10	4	1	10	2	499
20	Freezo	0	4	10	0	10	10	10	10	2	0	7	1	5	0	507
10	Bat Feet	0	10	0	10	0	0	5	10	10	1	9	10	10	10	495
15	Shooting Gripper	0	1	10	10	10	10	0	0	0	8	4	1	10	1	478
9	Sucker	0	2	10	0	5	10	10	7	3	4	7	1	10	5	457
17	Monkey Tail	0	3	0	0	10	10	5	4	1	5	8	2	10	1	355

7.89

Gripper Classification	
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Impactive - Clamp	
Astrictive - Magnetoadhesion	2.154626
Impactive - Clamp/Tong	4.562738
Astrictive - Magnetoadhesion	4.942966
Contigutive - Chemical	5.956907
Contigutive - Chemical	9.759189
Impactive - Clamp	13.81496
Impactive - Clamp	14.8289
Astrictive - Electroadhesion	15.7161
Impactive - Clamp	19.01141
Impactive - Clamp	16.98352
Astrictive - Magnetoadhesion	23.19392
Ingressive - Pins	27.8834
Contigutive - Fluid	30.41825
Astrictive - Electroadhesion	35.10773
Astrictive - Vacuum Suction	36.75539
Contigutive - Thermal	35.74144
Impactive - Clamp	37.26236
Impactive - Clamp	39.41698
Astrictive - Vacuum Suction	42.07858
Impactive - Clamp	55.00634