

Criteria	1	2	3	4	5	6	7	8
Distribute Powder	Dump Pile	Blade	Sift	Per Particle	Trough	w/ lead screw	w/Sifting Drum	Spray
Smooth Powder	Roller	Blade	Vibrate	Compressing Plate	Flapper			
Compress Powder	Roller	Pressurize	Vibrate	Compressing Plate	Reverse Blade			
Z axis control	Worm Gear	Hydraulic	Belt	Chain	Shims			
Move along xy plane	Worm gear	Hydraulic	Belt	Chain	Pivot	By hand		
Apply Binder	Spray Bottle	Eye dropper	brush	inkjet	stamp			
	Fast	Easy To build	Cheap	Datum	Scalable	Accurate		
Criteria	A	B	C	D	E	F		
Distribute Powder	Dump Pile	Dump Pile	Dump Pile	Blade	Trough	w/ sifting drum		
Smooth Powder	Blade	Blade	Blade	Blade	Roller	Vibrate		
Compress Powder	Roller	Reverse Blade	Reverse Blade	N/A	Roller	Compressing Plate		
Z axis control	Belt	Shims	Worm Gear	Worm Gear	Chain	Worm Gear		
Move along xy plane	By Hand	By hand	Worm Gear	Worm Gear	Chain	Worm Gear		
Apply Binder	Spray Bottle	Spray Bottle	Spray Bottle	Inkjet	Inkjet	Inkjet		
Selection Criteria	A	B	C	D	E	F		
Distribute Powder	-	-	-	0	+	+		
Smooth Powder	0	0	0	0	0	+		
Compress Powder	+	+	+	0	+	+		
Z axis control	-	-	0	0	-	0		
Move along xy plane	-	-	0	0	-	0		
Apply Binder	-	-	-	0	0	0		
Sum +'s	1	1	1	0	2	3		
Sum 0's	1	1	3	6	2	3		
Sum -'s	4	4	2	0	2	0		
Net Score	-3	-3	-1	0	0	3		
Rank	4	4	3	2	2	1		