

Revision 2.0:			
Customer Need #	Importance	Description	Comments/Status
<b>1.0</b>		<b>Automated Spreading Head System</b>	
1.1	9	System Has Motion Control	
1.2	9	Has Fine Z Axis Control	
1.3	1	Capable of Printing Large Area	
1.4	3	Maintains a Level Platform	
1.5	9	Spreader Head Can Be Swapped Easily	
1.6	1	System Collects Excess Powder	
1.7	3	High Reliability	
1.8	1	Easy to Maintain	
1.9	3	System is Easy to Control	
1.10	3	Spreads Layers as Fast as ProMetal Product	
<b>2.0</b>		<b>Spreading Head Designs</b>	
2.1	9	Spreads with Even Density	
2.2	3	Spreads with High Density	
2.3	9	Spreads a Smooth Surface	
2.4	9	Spreads without Disturbing Lower Layer	
2.5	3	Spreads Multiple Powder Types	
<b>3.0</b>		<b>Powder Selection</b>	
3.1	3	System Spreads ProMetal Powder	
<b>4.0</b>		<b>Metal Binder</b>	
4.1	9	Printed Sample Must Withstand Light Manual Handling	
4.2	9	Binder is Applied in a Consistent Layer	
4.3	9	Binder is Applied in a Thin Layer	
<b>5.0</b>		<b>Ethical Considerations</b>	
5.1	9	Do Not Share Proprietary Techniques	Includes binding, spreading, sintering
5.2	3	Environmentally Safe Binder and Powder	
5.3	9	Full Disclosure of Findings	
<b>6.0</b>		<b>Documentation</b>	
6.1	3	CAD Drawings	
6.2	9	Test Measurements	layer height, tensile strength, etc.
6.3	9	Comparison of Binding and Spreading Methods	based on prototype

