

Customer Specifications (Preliminary)

#	Description	Customer Specification	Explanation/Status
1	Actuator Power	USB Driven 2.5W ~500mA @ 5V (unpowered USB)	Probably negotiable—need to ask customer how important this is.
2	Part Sizes	Height ranges (1mm-100mm) Part diameter (40mm max)	Established—not negotiable.
3	Air Gap between part surface and fizeau	<=1mm	Established—not negotiable.
4	Budget	~\$5000	
5	Mechanical Drift	<1micron during measurement time	Must confirm with customer to refine this number. What is the magic number? How do we measure this?
6	Acceptance Tests	??	Ask customer on Friday 12/12/08
7	Vibration	??	Ask customer on Friday 12/12/08
8	Mechanical Footprint	Must fit LightGage150 granite footprint	Ask Jack Frankovich @ Corning Tropel for drawing and/or dimensions (Friday)
9	Total measurement time	<=1minute	Achievable—may be outside of scope for this project, but we can show how to do it (design refinements, etc.)
10	Tip/Tilt and Ambiguity actuator range	2mm-4mm for ambiguity. Motor resolution?	Need to ask customer on 12/12/08 for further detail.
11	Top LightGage head rotation range	??	Need to ask customer on 12/12/08.

Note: These specifications will be revised and finalized after visit with Customer on 12/12/08.