



LTS Price Structure - revised 1/3/2019

Activity	Complexity	Description	Setup Cost	Additional Cost	Per
Concept Product Design		Produce illustrative design options for iteration until feature sets are established	\$1,000-\$2,000		
	1	Basic geometry, a few features (ie. washers/brackets)	\$40		
3D CAD Model	2	Intermediate geometry, several features & operations	\$300		
	3	Complex geometry, numerous features, contours & operations	\$800		
Assembly Model			\$50	\$25	component
	1	Basic print, few dimensions, reference drawings	\$50		
Engineering Drawing	2	Intermediate print, 3-4 views, several dimensions, datums & feature callouts. Exploded assembly drawings.	\$200		
	3	Complex print, 4+ views and detail sections, multiple GD&T references, datums, feature callouts.	\$500		sheet
Gear Design		Planetary Set, full compliment Design, stress, tolerance, non standard profile definition	\$2,500		
		Spur Gear, full compliment Design, stress, tolerance, non standard profile definition	\$750		gear
Cylindrical Fit Study			\$150	\$25	fit pair
Tolerance Stackup	1	Section Map not Required	\$150	\$40	stackup
	2	Section Map Required (complex assembly, many parts, ie. >5)	\$300	\$40	stackup
BOM	1	< 50 parts	\$200		
	2	> 50 parts	\$300		
Analytical Model (Excel)	1	Basic calculator, a few variables, simple optimization routine	\$500		
	2	Multiple variables, graphical output, complex optimization algorithm, animation	\$2000+		
Finite Element Analysis	1	Basic static structural study, 1 part, simple constraints and loads	\$550	\$175	study
	2	Static structural study, contact regions, mesh refinement, unusual load and constraints	\$1,000	\$250	study
	3	Advanced static structural study, multiple parts/complex geometry, advanced load and constraint requirements	\$1,500	\$350	study
Photo Renderings	1	Single Part/Material, 800x600 max resolution	\$100		
	2	Up to 5 parts, Various Materials, Surface Finishes, 1024x768 max resolution	\$150		
	3	Large assemblies, Lighted parts, multiple surfaces, high resolution (up to and greater than 1920x1080)	\$300		
Engineering - Day Rate	1	Time secured at LTS office	\$1,600		
(Full day of dedicated work)	2	On-Site, within 60mi of Philadelphia, PA	\$2,000	+ Meals	
	3	Overnight, air or car travel	\$2,650	+ Meals & Travel	
Custom Excel/VBA Software		Every job is unique, billed on a per-project basis	\$1,000+		
Hourly Rate		General Engineering	\$200/hr		
Training		Excel / VBA / Solidworks / Design Practices: Training session customized per customer requirements	\$200/hr	+ Travel	