



## PRICE LIST

Prices effective January 1, 2025 – December 31, 2025

### **Thermal Design Services - \$350 Per item**

Thermal designs are done using various industry specific software utilizing my background in design and fabrication to determine what I consider the most cost effective design. Alternate designs or revisions to design will be done at the rate of \$125 per item. Specification sheets will be provided in Excel format for ease of modifications by customer. The estimated turn-around for thermal design services is 2 days.

### **Estimating Services - \$750 per item .**

My method of estimating is based on a combination of “exact component pricing”, “extrapolation from historical pricing” and “my judgement”. This process should provide you with competitive market pricing. You will be provided with my “estimate work sheet” and a bill-of-material of major components. The “estimate work sheet” will detail out an overall estimated cost of major materials, estimated miscellaneous overhead costs and estimated man-hours along with my suggested retail selling price. This is a method I have been using successfully for the last 5 years. I do not allow in the estimate for “contingencies”. It will be customer responsibility to review and accept hours and pricing prior to sending it to their customer. A thermal design or set of drawings (either by us or by customer) is required before an estimate can be prepared. All documents are provided in Word or Excel format. The estimated turn-around for estimating services is 3-4 days.

### **Mechanical Design and Drawing service - \$5000**

This package provides all ASME mechanical calculations plus nominal structural calculations (Wind/Seismic/Supports/Lifting Lugs); a general arrangement drawing; a complete package of shop fabrication drawings; and a complete bill-of-material needed for purchasing. The calculation and drawing package utilize standard industry specific software. The style and format of the drawings are an industry standard we have used for the past 20 years. Drawings are not to-scale and are in English language and Imperial units. The price includes 1 round of minor revisions. Major revisions impacting design pressures; design temperatures; corrosion allowances; diameter or length will be considered a new design. Special structural calculations; special drawing formats; and SI units are available for additional charges. The mechanical design package is provided in Word format. The drawing and bill of material package is provided in Autocad format and PDF. The estimated turn-around for design and drawing services is 2 weeks.

### **Special Limitations with regards to services provided**

With regards to “Mechanical Design and Drawing” work, all work will be done using my established engineering principles. There is no guarantee that your customer’s will always accept this work and may request changes. In addition, while the work is prepared and checked by me, it is impossible to guarantee 100% accuracy due to the complexity of the designs. It is highly recommended and our customer’s responsibility to review the documents for discrepancies. Discrepancies will be corrected at no cost.

All work is provided “As-Is”. There are no guarantees. If after customer’s review, customer accepts the services and uses it in their product, customer takes all liability with regards to the services.

All services are billed monthly and due immediately. A customer will have a monthly cap of \$15,000 for thermal design and estimating services. Once that cap is reached, additional thermal design and estimating services for that month will be done at No Charge. Cap does not include mechanical designs.