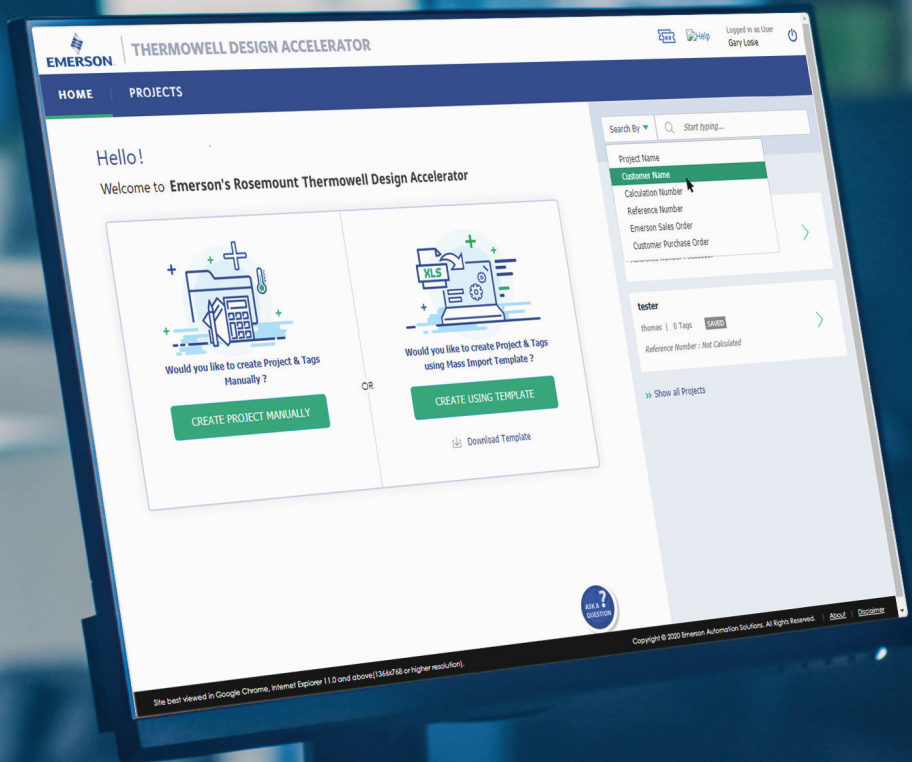


# Reduce Thermowell Design Time by more than 90%

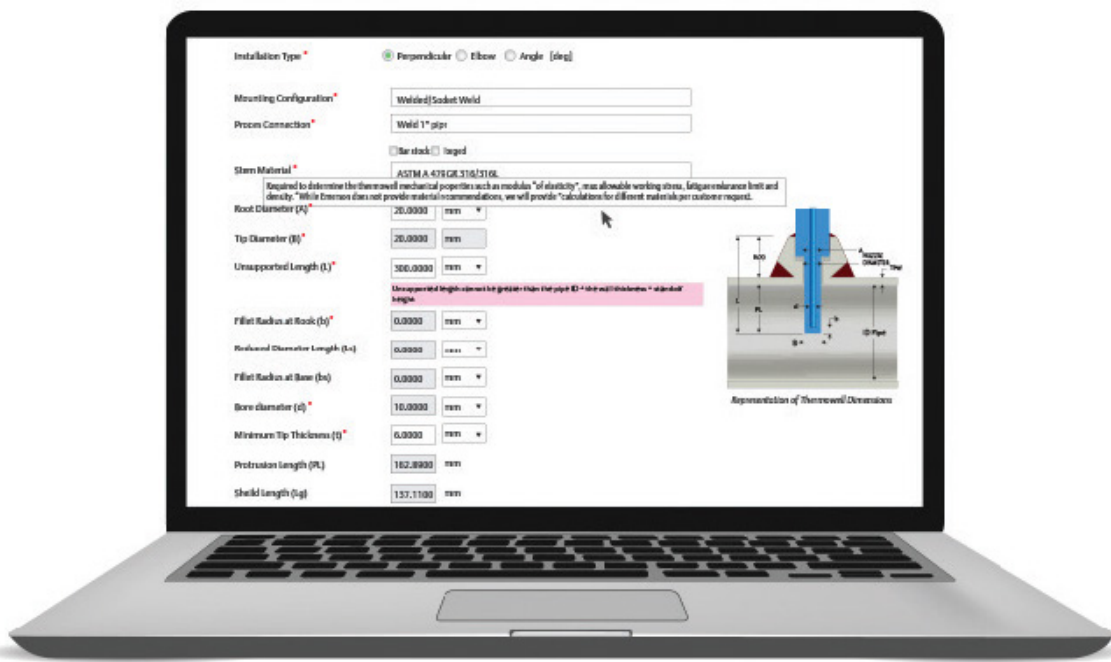


## Rosemount™ Thermowell Design Accelerator

Automatically optimize your thermowell design to ensure the most safe, reliable and accurate temperature measurement for your application.



## It's like hiring a design engineer on us



The Rosemount Thermowell Design Accelerator is a free online design tool that eliminates manual calculations facing process design engineers when sizing thermowells. It's easy to use and intuitively guides you through complex projects. You can automatically iterate up to 1,000 thermowell tags with a single click—all optimized for their process conditions.

From performing calculations, to suggesting products that work, you're guided through the entire process for thermowell designs, saving hours of valuable labor and resources. It's all you need to design, troubleshoot and evaluate a thermowell.

**ROSEMOUNT™**





The Rosemount Thermowell Design Accelerator is game changing!  
It allows us to free up engineering resources for critical process work.  
–Engineering, Procurement, Construction Project Engineer

## Design with the assurance of quality and compliance

- Ensures your design meets the latest ASME PTC 19.3 TW standards
- Efficiently guides you to industry standard designs
- Provides a systematic iteration history that's traceable and transparent for how calculations were performed
- Generates detailed analysis reports that show how solutions were optimized for process conditions

## Save time & money

- Automatic iteration of sizings until a working thermowell design is found
- Simple, intuitive online interface allows for easy interaction and fast results
- Unofficial calculation reports provide accurate input and output data with verified product model codes

## Do more with less resources

- A free service—nothing to buy or download
- Industry-first automated troubleshooting feature highlights incompatibility errors for faster designs
- No need for prior knowledge of thermowell calculations
- Automatically verified Rosemount sensor and thermowell model codes give procurement teams a quick and easy path to purchase

## Simplify your design process

- Checks multiple process conditions (startup, normal, design) per thermowell to ensure safe and reliable measurement
- Perform mass uploads for more than 1,000 thermowell tags using our handy template
- Easily switches your thermowell dimensional units between millimeters or inches and performs the unit conversion calculations



## Digital simplicity harnessed to tackle thermowell complexity

Instrumentation engineers have a lot to consider. Industry standard requirements are more complex than ever, and you need to design thermowells for sometimes complicated applications, as well as juggle unexpected changes and other hiccups in a project. You also need to train any new members of your workforce of engineers, who may lack the knowledge and experience needed for these complex tasks. Plus, having numerous different product models in your inventory adds complexity to design, purchase, install, and stock your sensors and thermowells, which increases both cost and time.

The Rosemount Thermowell Design Accelerator was created with these challenges in mind. The Accelerator does the work for you, helping to ensure you can move forward with a reliable and accurate solution. It will also help make sure your thermowell inventory is optimized to help you experience a less complicated, costly, and time consuming inventory management process.



### What's your challenge?

Determining thermowell design requirements, understanding and adhering to the industry standards, and selecting the right sensor and thermowell for your application can take an experienced person an average of 17-20 minutes per thermowell tag. Add in managing an often substantial number of unique thermowell product models in your inventory and your result is an arduous process.



### What's your opportunity?

The Rosemount Thermowell Design Accelerator automates the design and selection process, so it can take even a less experienced person an average of about 5-6 minutes per thermowell tag. It also simplifies the number of different thermowell product models for better control of your inventory.



## No need to be the expert – let the Accelerator bring the expertise.

### Automatic Calculations of Thermowell Tags



If thermowell tags fail to pass calculations and changes are needed, the Accelerator keeps iterating until it finds a solution. It automatically makes changes to the dimensional parts of the thermowell, helping avoid guess work and making sure you stay in compliance with the ASME PTC 19.3-TW standard.

### Automated Troubleshooting Assistance



The Rosemount Thermowell Design Accelerator alerts you with any calculation errors and provides suggestions for changes to the thermowell dimensions and type to help allow the calculations to pass.

### Sensor & Thermowell Product Model Suggestion



Receive valid Rosemount sensor and thermowell product models after calculations are complete, which eliminates the complexity of building model codes from catalogs or product data sheets and helps produce error-free designs.

## Receive solutions recommending alternative, innovative technologies for difficult applications.

In a situation where the Accelerator has performed all necessary thermowell calculations and cannot find an acceptable thermowell design, the Accelerator will always ensure you end with a safe, reliable, and accurate solution by suggesting the Rosemount Twisted Square™ Thermowell or Rosemount X-well™ Technology.

### Rosemount Twisted Square Thermowell



With its revolutionary design manufactured specifically to eliminate the concern of vortex induced vibration (VIV) that can lead to thermowell stem failure, the Rosemount Twisted Square dampens vibrations by over 90%, drastically reducing the dynamic stresses experienced by the thermowell. This allows the Rosemount Twisted Square to operate in process conditions that a conventional thermowell cannot.

### Rosemount X-well Technology



This non-intrusive technology removes the need for a thermowell without compromising reliable and accurate process temperature measurements. With Rosemount X-well Technology, you can introduce new temperature points where previously not possible, such as extreme applications or process conditions.

## Reduce complexity by simplifying your inventory management.



### Inventory Optimization

After the Accelerator performs the first round of calculations, you can select which thermowells you would like optimized and the Accelerator will group them based on similar properties. You will then receive a single standardized product model for each of the newly created groups, make adjustments accordingly, and optimize. By standardizing thermowell product models, this decreases the number of unique thermowell product models in your inventory and the number of design drawings for both your thermowells and sensors for greater cost and time savings.

# Automatically design thermowells with the click of a button



**ROSEMOUNT™**

Save significant time and resources with Rosemount Thermowell Design Accelerator.  
Try it today: [Emerson.com/RosemountAccelerate](https://www.emerson.com/RosemountAccelerate)



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