



# Work with Minco Engineer-to-Engineer

Let's solve today's engineering challenges – together

## Innovation Through Collaboration

Our modern world faces significant challenges. We need to discover new ways to cure disease, explore space, grow food, travel, communicate, create energy, mitigate climate change and more.

Since the early 2000s, Minco has used a strategy called Engineer-to-Engineer (E2E) to promote innovative thinking and find better ways to solve design challenges in each one of these critical fields. This E2E approach stems from our belief that our engineers can work more efficiently to solve problems when they work directly alongside in-house engineering teams—without the need for cumbersome communication channels and go-betweens.

E2E collaboration directly addresses two problematic trends affecting engineers across industries. First, it offers a solution to overcome the rapid downsizing of in-house engineering teams by providing additional engineering support and expertise. Second, this approach frees engineering teams to focus on solving key engineering problems – rather than navigating the engineering process itself. By working directly alongside your engineering teams, Minco engineers can help speed up development timelines and improve efficiency.

No matter the challenge, Minco engineers bring best practices from hundreds of similar engagements worldwide to help our customers plan, design and integrate the best solutions for their programs. From consultation to prototyping, we freely share this design and manufacturing expertise – including our proven New Product Introduction (NPI) process that combines risk assessment, experienced engineering and supply assurance to ensure we achieve the best products possible.

## Extension of Your Team

### Key Steps in the Minco E2E Collaborative Process

#### Consultation

The earlier in the process the better: Engineers from your team and from Minco engage in a discussion of your program goals.

#### Design

Experienced Minco engineers apply new ideas and best practices from hundreds of engagements worldwide to create a winning design.

#### Simulation

The integrated solutions and discrete products we design undergo thorough testing using a variety of simulation tools.

#### Prototyping

We use a series of prototyping processes to make sure our final design fits your manufacturing processes and meets or exceeds performance expectations in the field.

## E2E In Practice

In a real-life example of E2E collaboration, Minco worked with a veterinary pharmaceutical company to design a heater that could increase the temperature of a reagent formula in just five minutes. By encouraging the two engineering teams to meet early in the development process, we were able to reduce the price of the assembly by integrating a less expensive heat sink into the design. Had Minco engineers not be introduced early in the process, this important discovery would have occurred much later, resulting in a longer development timeline and more iterations.

Contact Minco today to learn more about Minco's E2E process and how early collaboration can help save valuable time and money in the long run.

## Download Ebook “The Power of E2E Collaboration & Integrated Thinking”

Read our new ebook [“The Power of E2E Collaboration & Integrated Thinking”](#) to learn more about how Minco can integrate heaters, flex circuits and sensors into one component that can be smaller, more reliable and cost less. Every

company needs to drive revenue and sustain margins to thrive. But the willingness to change the status quo and find a better way is required to help companies make important leaps in their markets.



# Let's Talk E2E

Contact us today to begin developing innovative solutions to your design challenges



In today's competitive markets, manufacturers are always looking for ways to cut costs, reduce time to market, and improve product performance. This is particularly true of technical products in fields like medical diagnostics, aerospace, power generation and military and defense where failure is simply not an option. Designers who work with these products, and others like them, recognize it takes a

willingness to acquire and leverage new ideas in order to discover innovations that can speed time to market, improve performance and ultimately help maximize profitability.

If you and your engineering team are ready to take that next step and start solving problems on the next level, Minco engineers are ready to collaborate on your next game-changing system.

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