



Debunking Common Myths About
Specifying Special Components

CHOOSING THE IDEAL COMPONENT

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Today's engineers have more choices than ever when it comes to specifying the proper components for all types of applications.

Standard components, which are manufactured to an exact industry standard, are usable on a wide range of applications. In fact, engineers specify standard components roughly 90% of the time. Trade organizations such as NFPA, ISO and others have established specific guidelines governing the tolerances and dimensions of standard components – making them predictably uniform but **impossible to manipulate or customize without added cost**.

By contrast, a **special component** is precisely designed and built to fit a specific application – allowing engineers to define the way in which the part is used. With **no limit to the size, shape or construction of the part**, these unique components account for about 10% of all specifications. Today, there has been major progress in the development of these customized components, making them an **ideal solution for an increasing number of applications**.

In the end, the advantages and disadvantages of selecting standard components or special components are largely determined by the application itself, but recent manufacturing innovations have made it possible to choose special components when it may have been impossible before. Yet many myths persist about special components – namely, how much they cost, how long it takes to produce them and whether they can be replicated.

the **COST**?

the **TIME**?

the **AVAILABILITY**?

1

MYTH:

Custom components are **more expensive** (even cost-prohibitive) than standard ones.



FACT:

Because standard components may require extra parts in order to properly mount the piece, they can **increase costs** by as much as **10-15%** on a given project. While special components may be comparatively more expensive on the front end, the **savings realized over the life** of the part are significant, with no need for extra engineering time or additional materials.

2

MYTH:

Custom components **take much longer** to produce.



FACT:

When unique circumstances arise, engineers often find themselves designing around standard components, adding considerable time to a project. But with many of today's manufacturers using manual equipment to produce low quantities without breaking into larger production runs, they can turn around a special component in **roughly the same amount of time as a standard component** – eliminating the need to work around unwieldy parts.

3

MYTH:

Spare or replacement parts for custom components **aren't readily available**.



FACT:

Manufacturers are often able to produce spare or replacement parts for application-specific components **in less time** than it took to build the original part. With **streamlined processes** and manual equipment at their disposal, these manufacturers are ensuring a **readily available supply** of additional parts for every specialized component they design and build.

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In today's market, all three of these perceived challenges are being directly addressed by special manufacturers – and engineers everywhere are discovering the benefits of conveniently ordering application-specific components within the timing and scope of their projects. With more complex and precise applications than ever, special manufacturers have largely eliminated previous obstacles to efficient production of customized components – making it **easy for engineers to get exactly the part they need, when they need it, at a competitive price.**

About **NASON**

Located in Upstate South Carolina, Nason operates a 50,000-square-foot manufacturing facility that is home to a team of expert design engineers and customer service specialists with decades of combined experience. After more than 60 years, Nason is now a proven leader in space-efficient electrical, hydraulic and pneumatic components.

Our switches, compact cylinders and transducers have set a new industry standard for quality, efficiency and flexibility – yet our biggest point of pride is our commitment to taking on new challenges for our customers. We strive to be a flexible partner – **always innovating, always customizing solutions, big and small.**

At Nason, we start with real questions, not pre-packaged answers. **Once we understand exactly what you need,** we get to work designing and engineering the perfect component for you. With Nason, you get the precise specifications you need – **putting you in control** and guaranteeing that the final product fits your application.

In fact, we're always willing to create exactly what a customer needs. That's why we're proud to offer a minimum order of just one – any order, any piece, any time. It's at the core of what we do, and we believe it's the best way to serve our customers.

NASON

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