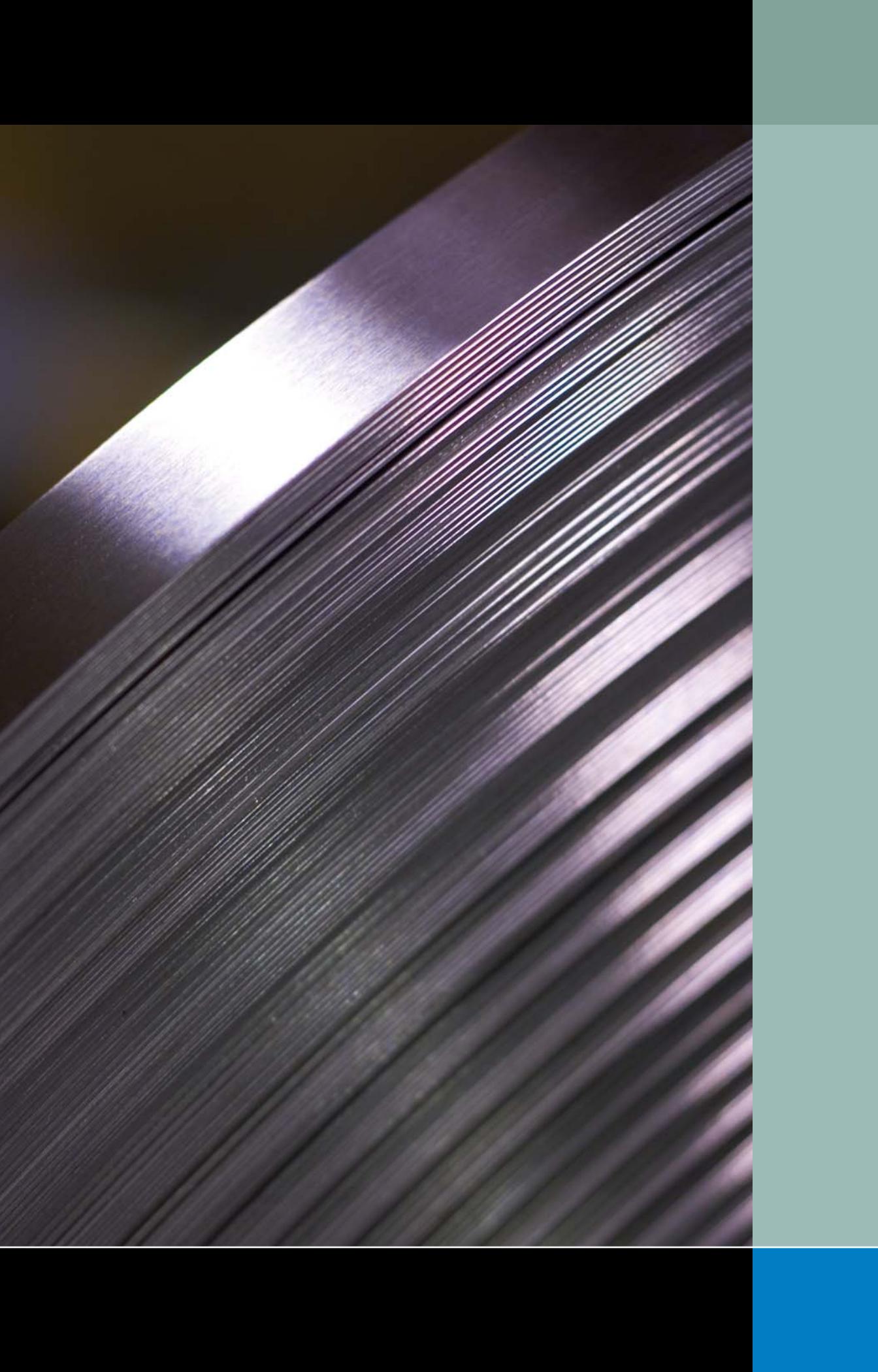


The background of the advertisement is a close-up, high-angle shot of various metal blades and tools scattered on a brushed metal surface. The blades are of different shapes and sizes, including a large flat blade, a curved blade, a small hook blade, and a comb-like blade. The lighting creates strong highlights and shadows, emphasizing the metallic texture and sharp edges of the tools.

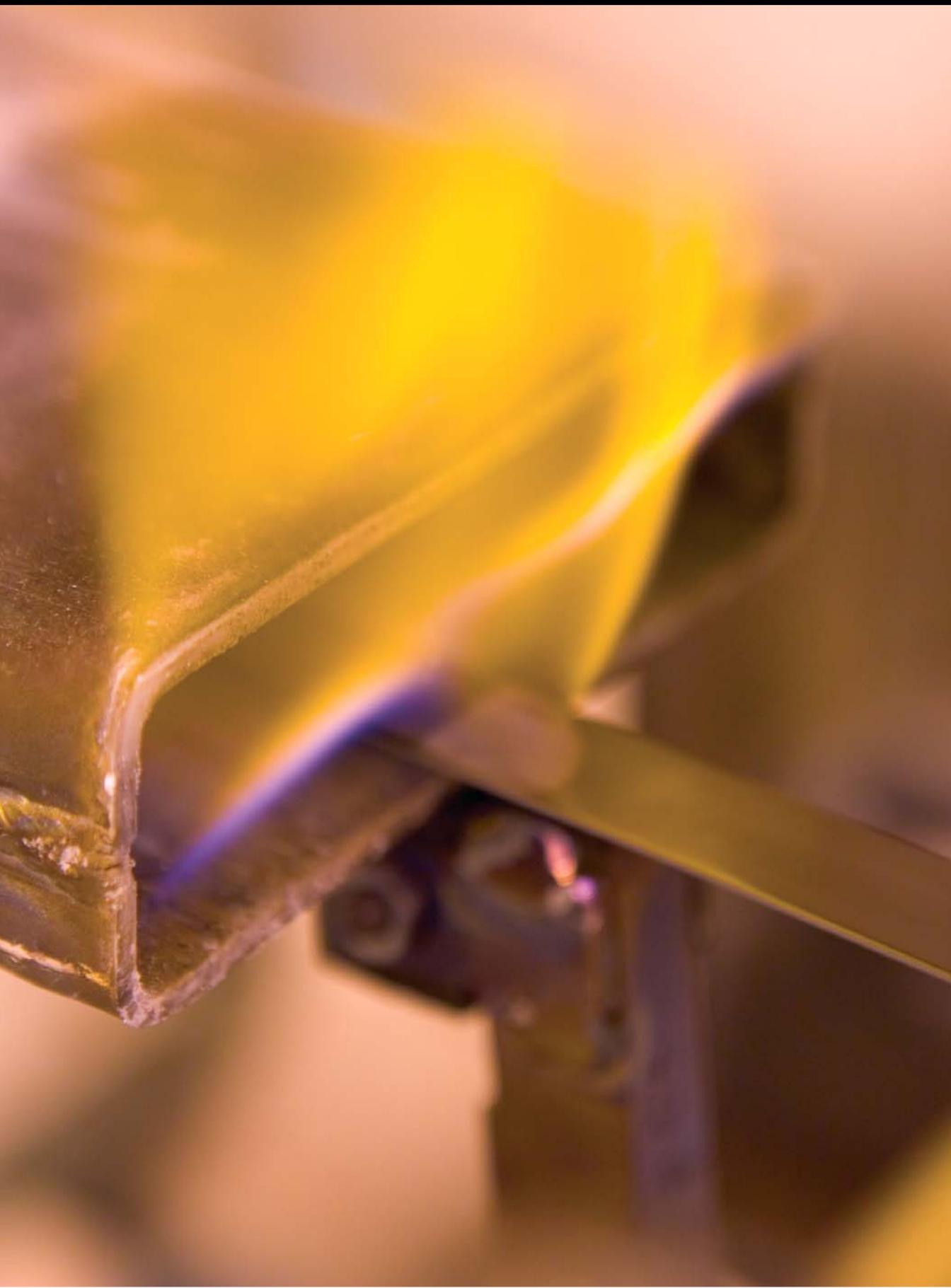
**Crescent**<sup>®</sup>  
Specialty Blades Since 1898

Custom blades made to your specifications



# Setting the standard for quality & precision.

At Crescent, we make the blades you need – transforming your concept, drawing or specifications into a finished product that meets or exceeds your requirements – every single time.



Fact is, we've been excelling in blade design, engineering and production for over 100 years, so you always get the sharpest, most consistent stainless steel blades available. Best of all, no other custom blade manufacturer can move you from concept to prototype to finished product faster or more cost-effectively.

**Medical** Crescent blades are already used in some of the world's most innovative medical applications. We've developed blades to cut biopsy sections as thin as 2 microns, cut perfect flaps in corneas, and carefully bore plaque from arteries. Even if your design is still just a picture in your mind, chances are, we can help make your blade a reality.

**Consumer / Recreational** In the bow hunting broadhead market, sharpness and strength are equally critical. If sharpness, strength and design innovation are required for your next blade project, give us a shot.

**Industrial** Some of the most exacting industrial applications rely on Crescent blades. From roofing and fiberglass chopping to dicing multi-layer ceramic capacitor chips, our blades can be tailored to meet a large assortment of industrial applications. We can also custom-design blades from scratch to your specifications.

**Food Preparation** Leading food manufacturers from around the globe rely on Crescent for the ability to custom-design blades quickly and cost-effectively. In an industry where cutting demands consistency, productivity can often be improved with the precision of Crescent blades.

In the Case Studies that follow, you'll see real-life examples of how our customization, creativity and craftsmanship set us apart in the blade-making industry. Hopefully, you'll also see one or two reasons to give us a call the next time you need a custom blade developed.

# Blades *for* Micro-Dilatation

When a prominent U.S. medical device manufacturer needed a safer and less invasive coronary intervention tool, they partnered with Crescent to overcome the technical challenges inherent in the application, and to ensure that each and every blade shipped would meet exacting requirements.

Initially, the product development team had to overcome several challenges.

- There could be no warping, bowing or corrosion in the finished product.
- The finished micro-dilatation catheter blades had to bend with the devices upon insertion.
- To ensure ductility, a specific alloy had to be used for the blades that proved to be very difficult to press, heat treat and grind.

Crescent's engineering team was able to overcome those challenges and, since then, we've been able to increase the yield of useable product for our customer from 30 percent to over 90 percent.

# Catheters





# Arrowhead Blades

When the nation's leading bow hunting broadhead producer sought the sharpest edge for their new, uniquely aerodynamic blade design, Crescent provided the ideas, innovation and expertise to do just that.

However, the production process for this newly patented design did not come without its challenges:

- New production dies were required to facilitate the blade separation from the carrier strip and to prevent cracking in the outer webs of the blades.
- Multiple modifications were made to the stamping dies to relieve stress on the steel, and a punch press was incorporated that would not damage the sharpened edges.
- Additional processing stations were added to increase sharpness and perfect blade edges.

The end result of this revolutionary process has clearly established the client's broadheads as the strongest and sharpest in bow hunting.

Back when water jets were the industry standard for cutting green ceramic for electronic capacitor chips, Crescent knew there was a better way. Working with one of the nation's largest electronics companies, we devised a plan to increase the speed, efficiency and consistency of this highly technical operation using specialized blades.

Given the chance to prove our capabilities:

- We worked closely with the client's engineering staff to define their precise cutting requirements.
- Process data sheets were provided on a regular basis to certify that quality standards were continually being met.
- Manufacturing processes were refined to exceed the client's standards for edge quality.

Today, Crescent continues to follow the most stringent standards in the industry and our customers continue to depend on us for the smoothest, sharpest and most flawless blades available.

Dicing Blades *for*



Ceramic Capacitor Chips



# Potato Chip *and* Vegetable Blades

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When a long-standing food processing customer needed to reduce blade replacement downtime, they trusted Crescent to deliver the customized blades for their new quick-release system.

- First, we sent the blade design through several drafts to meet the customer's need for handled blades.
- We then developed a unique press process to achieve the blade profile.
- In addition, we built special tools to monitor and measure stamped reliefs in the blades.
- We then custom-designed a blade separation and shuttle process to facilitate handling.
- Finally, we made additional customizations in the packaging for optimal shipping efficiency.

From the initial blade design to the packaging for shipment, Crescent combined the science of blade-making with creativity in craftsmanship to give the customer exactly what they needed.



# Crescent's 3-C Approach to Quality

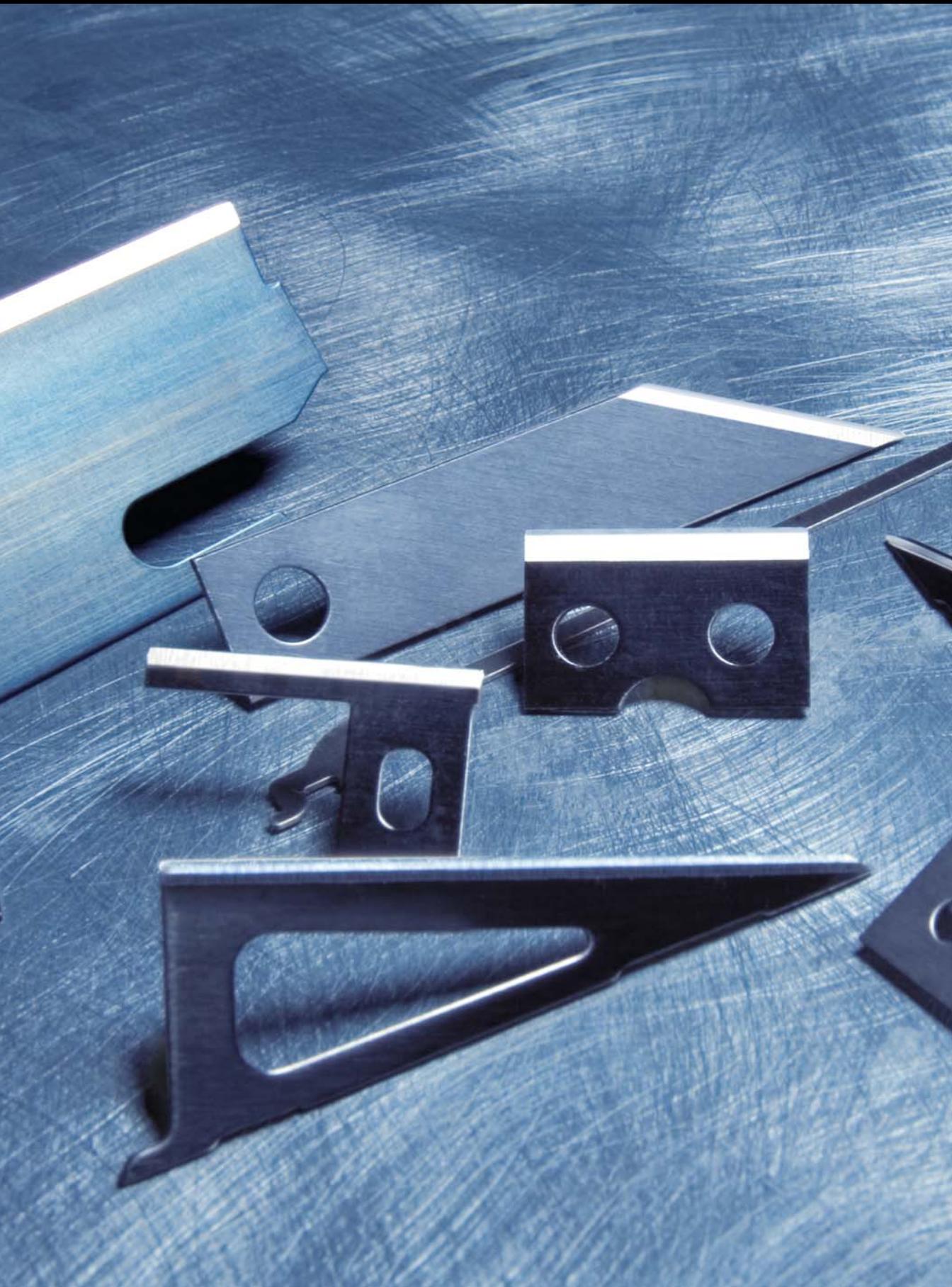
**Customization** Crescent is sought out by many industries for the engineering of custom blades. Our knowledge and experience give us the edge in creating and refining blades to any specification. We also offer on-site assistance to clients in order to ensure a full understanding of the technical challenges and quality considerations that must be met.

**Creativity** We pride ourselves in our knowledge, ingenuity and our ability to adapt to changing needs with creative solutions. You can feel confident that when you bring us an idea for a blade, we'll find a way to engineer it.

**Craftsmanship** Through a combination of talent, experience and dedication, the craftsmanship behind each blade Crescent produces is unsurpassed. We are our own toughest critics when it comes to quality and look forward to meeting your standards of excellence.

Crescent has the expertise and creativity to provide solutions for your most complex blade-making challenges. For an initial consultation, please call 1-800-537-1330, or contact us online at [www.crescentblades.com](http://www.crescentblades.com).





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