

# MULTICUT



Advanced machined components for the most demanding customers in the world.





*“When I founded Multicut back in the nineties, it was because I had a vision: I knew we could take on the toughest machining projects – the ones others would back down from. I also knew how important it is to be able to scale production once a component has been perfected. My guiding lights have always been perfection, dedication, skill, and passion for the craft. That’s Multicut, and we will always be like that.”*

*Lars Rasmussen – CEO / Owner*

Industry.



Aerospace and defense.



Greentech.



Energy.



## THE NEXT LEVEL OF MACHINING.

Multicut was founded in the nineties by Lars Rasmussen as a machine shop – but not just any machine shop: A machine shop with the capabilities, capacity, and craftsmanship to tackle truly demanding tasks for the most discerning customers across the globe.

Today we produce advanced machined components to the most demanding industrial production sectors in the world: To Greentech, to the energy sector, to defense and aerospace applications and to any industry that requires supreme standards of precision and workmanship.

It's not just about having the right machines. Our machine list is impressive, but it's not unique. Others out there have the same kind of kit that we use. It's the way we use it that makes all the difference.

We design our own fixtures and tools, we have an in-house testing facility to rival the best in the world, and – most importantly – we have dedicated, experienced technicians and operators who treat their job as a craft in which they take enormous pride. Is your component super-challenging to make? Is it made from exotic materials that no one else dares touch? Does it need advanced assembly and surface treatment? And do you foresee the need to scale from a few handmade prototypes to thousands upon thousands? Then you've found the partner for you.

We have the will and the power to invest to grow with our customers – and we know the value of true craftsmanship, scalability, and repeatability.

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“We don't just deliver a machined component. We deliver much more than that – a full production setup, assembly, surface treatment, logistics, documentation, certifications, and an in-depth understanding of the challenges you face in your industry. We believe in long-lasting relations with our customers; it's the only way we can create mutual growth and success. So that's what we strive to achieve every day.”

*John S Andersen – CSO / Sales director*







Aerospace and defense.

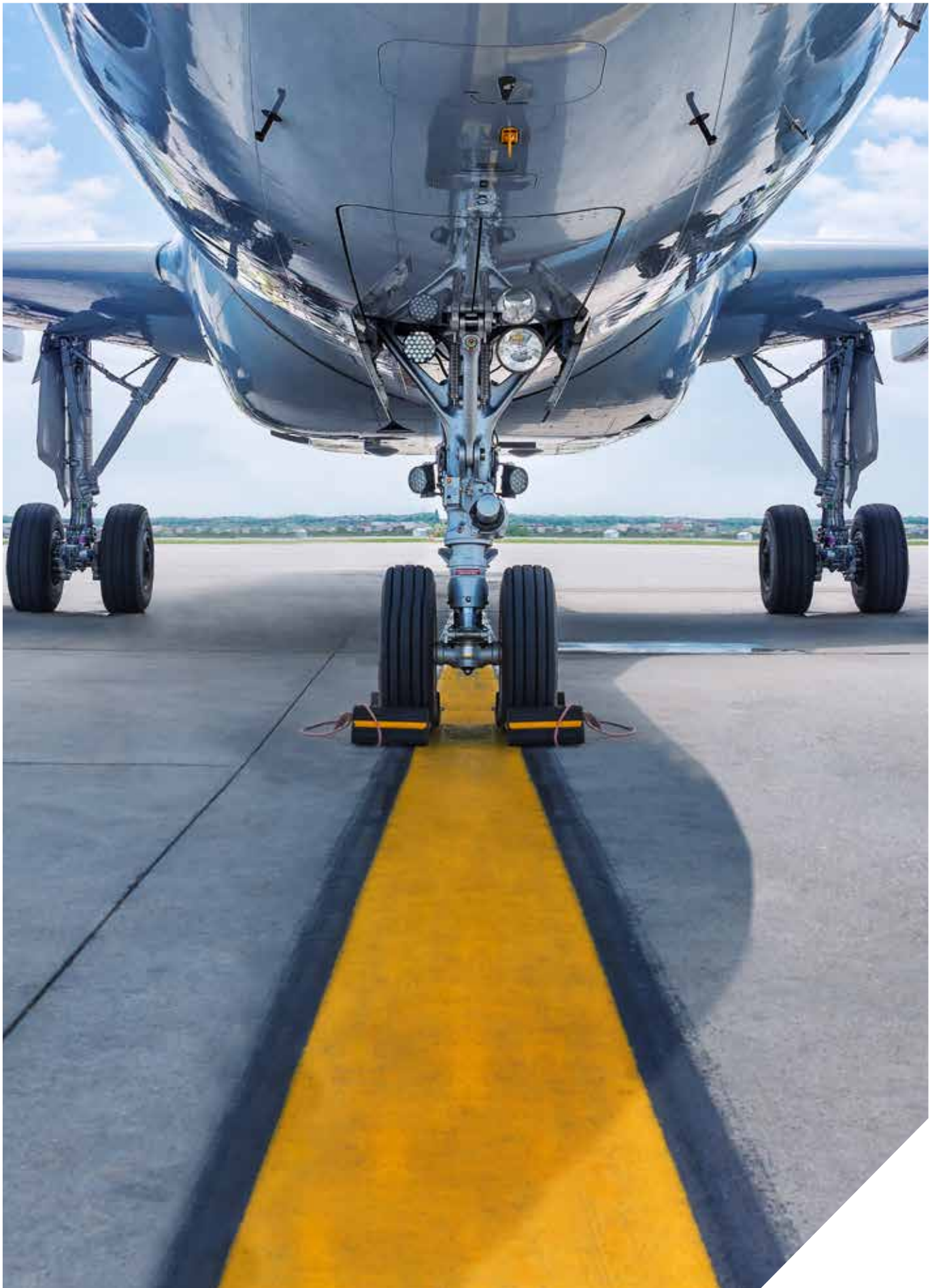
In the aerospace and defense industry, it is critical to know that you are teaming up with a supplier that has been there and done that. We have. For decades.

Multicut has a strong presence in the United States, and, since Denmark is a founding member of NATO, we produce aerospace and defense components at our secure facility in Denmark. We are a trusted US government supplier with full ITAR/EAR compliance and have worked on defense-related projects for decades with the leading manufacturers of military hardware. The components we produce are intended to work

in mission-critical applications and need to be machined, surface-treated and assembled to the highest standards imaginable.

Our dedication, knowledge and experience within this industry have enabled us to become of the most preferred partners when it comes to ultra-precision machining of complex components such as:

- Control surfaces for aircraft and missiles
- Precision airframe and airfoil components
- Ultra-precision mechanical optical components





## FROM PROTOTYPE TO MASS PRODUCTION OF MISSION-CRITICAL COMPONENTS.



### Aerospace and defense.



Production of parts for aerospace and defense applications typically follows a standard flow in which a long development process culminates in production runs that can last for years, even decades.

The ability to follow our customers all the way from first draft to mass production has always been a key skill for us. Once a product design has matured beyond mere proof of concept, Multicut steps in with our financial muscle to ramp up the production to the level you require.

We know that the production run must never fail, and we invest in staff and equipment all the time – even at the request of our customers.

## WHEN SECURITY IS PARAMOUNT.

Our secure production facility is located in Denmark where we offer both high mix/low volume and low volume/high mix production. All relevant employees are screened and cleared by relevant intelligence agencies in the United States and in Denmark, and all communications take place via a network of top-security servers and VPN connections.





Greentech.

Greentech can be... well, anything really. New technologies in wave energy. New motor designs for ships that reduce CO2 emissions. Groundbreaking ideas in energy storage and battery technology. Novel ways of designing pumps or solar cell panels. The list goes on and on.

What all of this has in common is that it all begins with a great idea by some people with sharp minds and a vision of a better tomorrow. At some point an idea becomes a product. Most often a prototype developed in someone's garage using whatever tools and materials come to mind. Or a company creates an innovative solution to a problem facing a specific industry. Again, a prototype is created.



Most machine shops can help you develop a prototype or a small series of finished products for proof of concept and for the first, tentative sales and roll-out to the market.

Where most machine shops fail is when your great idea becomes a successful product. Suddenly it becomes impossible to manufacture the components needed in the quantity and consistent quality required. For most, but not for us.

This has always been one of our core skills: Scalability of production of machined components with a high degree of repeatability and complexity. We invest to grow with our customers. That goes for you, too.



WHEN SCALABILITY IS AS  
IMPORTANT AS A GOOD IDEA.





Energy/Wind.

Since Multicut was founded, the global wind industry has been among our most important focus areas. We manufacture critical components for wind turbines such as mandrels and axles, where both the size and the precision of the component are equally impressive. The largest components we machine are central axles for offshore wind turbines – such axles weigh up to 35 tons once completed, but still need to comply to tolerances down to hundredths of millimeters.

A modern offshore wind turbine requires up to 180 mandrels to fit just a single wing to the rotor – again, such components need to conform to incredibly tight

standards and tolerances and also require advanced surface treatment using e.g. Oxsilan® treatment.

We have the capability and the experience to mass-produce components such as these for the global wind industry, for oil and gas and for all types of renewable energy applications.



# MASS PRODUCTION OF CRITICAL COMPONENTS FOR WIND TURBINES.









**THE KEY WORD IS SCALABILITY,  
AND WE LIVE IT EVERY DAY.**



## Industry.

We excel when it comes to creating an optimized production flow where we reduce the costs of the component and increase the speed of production - without ever sacrificing quality. If you are looking for a machine shop that is miles ahead of the competition, you've come to the right place.

Our customers have several things in common: They are looking for a partner that can deliver the ultimate in terms of quality, precision, documentation, and logistics. They are looking for long-term relations that focus on constant optimization. And they are looking for a partner with the will, financial power, and production to ensure fast, seamless ramp-up from small series to large production runs in a very short time. The key word is scalability, and we live it every day.



## CUTTING EDGE AND BEYOND.

High mix/low-to-medium volume is our specialty, and we are continuously updating our production facility to stay ahead of the rest, employing robotic technology such as Industry 4.0 and always exploring new ways to improve production in standard and in exotic materials.







**THE WILL TO  
INVEST IN YOU.**

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Multicut is growing. From humble beginnings with a couple of guys, a couple of machines and a lot of ideas, we are now a major player in the market for advanced and complex machining solutions. One of the main reasons that we have been able to expand is that we grow with our customers.

We believe in long-lasting and mutually beneficial customer relations and always try to assess whether there is a potential for long-term growth when we en-

ter a new partnership with a customer. We have the financial power and the determination to invest in our production facilities when required to do so by our customers. This is a conscious strategy on our part: To always be ready to grow when you grow.





# PRODUCTION AND QUALITY ASSURANCE.

Multicut constantly invests in the most modern production equipment available, working only with top suppliers of milling, turning, and measuring equipment. You can always check out the current machine list on our website [Multicut.dk](http://Multicut.dk)

Following the groundbreaking ideas that go under the catch-all phrase Industry 4.0, we operate several fully automated production lines, in which robots oversee picking and placing tools in the drilling/milling machines, collecting, and placing raw components, completing all milling and cutting operations in our Mazak machines – all with minimum human interference. Our automated production lines can run around the clock all days of the week.

### Common or exotic materials

One of our core skills is the capability of working in just about any material you require. Steel, stainless, cast iron, aluminum, POM – that goes without saying. But what about Super Duplex, advanced titanium alloys, Inconel? Those, too. We excel in the machining of exotic materials, and we love a challenge!

### Quality assurance and testing

We operate our own sophisticated testing and measuring centres with the capability of performing in-depth quality assurance and testing on components up to 35 tons in weight.

For most of our customers, traceability is of the utmost importance. Operating after the AS/EN9100 standard whenever needed, we document materials, finished or half-finished products and all processes meticulously.

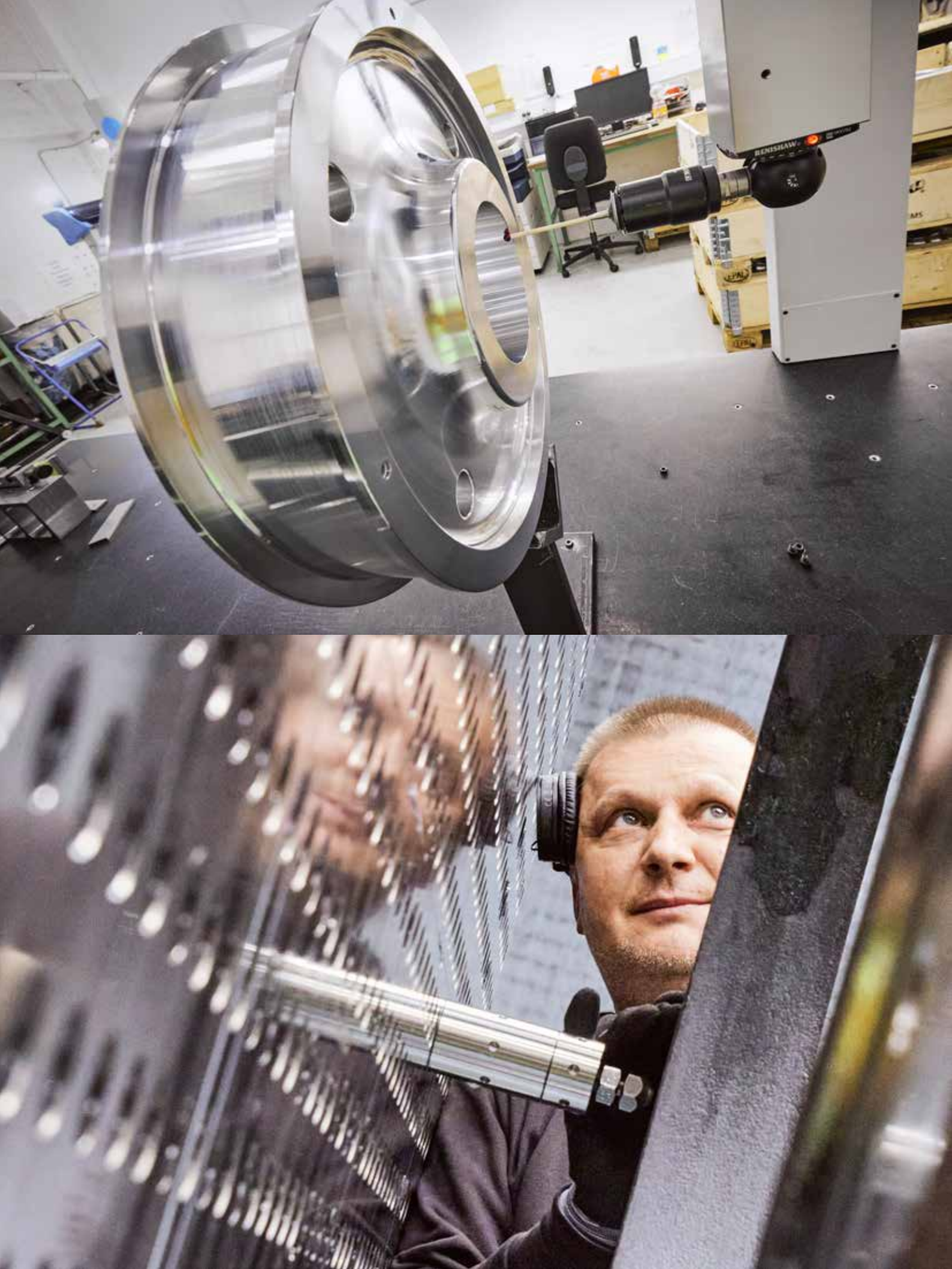
For every single production run we create bespoke tools lists and keep our tools in fighting shape using the Zoller Tool Management System.

### 8D reporting

In our quality assurance, we follow the 8D methodology to identify and correct any issues that may arise. We are also willing to work according to your specifications.

### Certifications

- AS/EN 9100 (Manufacturing & Assembly)
- ISO 9001 (Manufacturing & Assembly)
- EN 1090 (Machining processes)









# LOCAL PRODUCTION REDUCES YOUR CARBON FOOTPRINT. AND OURS.

Multicut believes strongly in reducing our and your carbon footprint. As an energy-intensive industrial operation, even small improvements go a long way, and we constantly work on optimizing our energy consumption. For European customers, demonstrating a low carbon footprint is rapidly becoming a competitive parameter that must be taken into consideration.



Moving large metal components around has an impact, and we do our best to reduce it as much as possible. Metal component production is energy-intensive, and having a local production partner such as Multicut reduces your overall carbon footprint significantly. And of course: Delivery time is always strongly in focus.

Most of our scrap material is recycled and by recycling it takes 75% less energy than the production of raw material. Saving not only the resources from the earth but the fossil fuels required to construct them.

**Optimizing your production flow**  
In industrial machining, repeatability is key. You need to rely on your supplier delivering consistent quality, always, without fail. But just doing the same thing over and over is not everything. At Multicut we always strive to improve and optimize the way we manufacture your components: In the purchase of raw materials and in the choice of the best materials. In new ideas for better, faster manufacturing, for instance by optimizing fixtures, tools, and processes.

In surface treatment, assembly, or logistics. You can rely on us to be as innovative as you are.





# MULTICUT

More info online at  
[Multicut.dk](http://Multicut.dk)

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