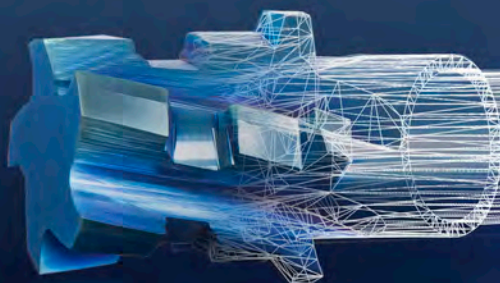




WEDCO
Tool Competence

SOLID CARBIDE CUSTOM TOOLS



Technical parameters and symbols floating in the background:

- f_z
- Z
- μ
- mm
- \pm
- V_c
- 30°
- m/min
- ap
- ae
- 12
- U/min
- l_1

From the idea to the perfect tool

The WEDCO range of catalogue tools offers suitable solutions for very many applications. However, manufacturing processes can often be profoundly optimized by using customized tools: They are designed to save you processing steps, increase your efficiency and thus drastically reduce your tool costs.

We as WEDCO specialize in the conception of a perfect machining strategy and the development of a custom tool optimised for your respective application. The fact that all our product development, engineering and manufacturing takes place under one roof is the key to us belonging to the fastest and most flexible custom tool providers on the market. Only this high level of vertical integration enables us to act as quickly as we do. Customization is our standard.





Quality & Precision

We have over 25 years of experience of manufacturing solid carbide tools and produce all our tools on the most modern 5-axis machining-centres at our headquarters in Vienna.



Engineering & Production from two pieces

Special tools lead to savings even when used in small quantities. Therefore, we have set up our manufacturing process to be extremely flexible whilst maintaining the highest quality standards – that is why we can take orders with batch sizes as small as 2 pieces.



Fastest delivery thanks to concentrated competence

Consulting, creation of an optimal machining strategy, engineering, and production – all from a single source – the shortest possible paths for the fastest delivery of your special tools.



Provision of all digital data

Do you map your machining virtually? We not only supply the tool, but also the data for your virtual process.







100% MADE IN AUSTRIA

As an Austrian company we are proud that all our products bear the "Made in Austria" seal. This enables us to have short supply chains and keeps a large of our value creation in Austria. All our tools are made here in our state-of-the-art production centre. From here they go to machining professionals all over the world, to make a difference in the most challenging industries.



Custom tools never came faster...

In 15 days we realise your special designed tool!

To make the way to your special tool as quickly and efficiently as possible our special tooling service is subject to a clearly structured process.

01

REQUEST

INQUIRY

Contact us at anfrage@wedco.at, by phone at **+43 (0)1 480 27 70 0** or personally in conversation with one of our sales representatives!



REQUIREMENTS

Determination of the tool type (milling tool, profile tool, step drill), specification of the individual technical requirements profile



TOOL DESIGN

Conversion of the requirement into a tool solution by the engineering team (selection of the cutting material, geometry and coating)

02

OUR OFFER

2D-CAD DESIGN DRAWING

Creation of a technical CAD drawing considering all requirements according to definition



SIMULATION OF THE GRINDING PROCESS

Computer simulation of the production process at the tool grinder for optimization of the individual processing steps



CALCULATION & QUOTATION

The data is recorded in our ERP system and automatically transformed into an offer

03

APPROVAL

BY THE CUSTOMER

After receipt of the drawing approval by the customer, our ERP system creates an order confirmation which subsequently triggers the production of the custom tool





Efficient production through concentrated competence (engineering, production and sales under one roof) enables us to react to your needs as quickly as possible.

04

PRODUCTION

PROGRAMMING THE MACHINE

Software-supported control of the machining steps on the fully automatic 5-axis CNC machining centre



PRODUCTION

The ordered and approved number of pieces of your tool is produced and checked during production



COATING

Increasing tool life by optimizing the cutting edge through the latest PVD or CVD coatings

05

QUALITY CONTROL

LASERSIGNATURE

Permanent marking with the tool ID and additional batch number for complete traceability



MEASUREMENT AND QUALITY CONTROL

100% control of all relevant test criteria according to drawing specification. We even accept orders which require an inspection report per piece

06

DELIVERY TO THE CUSTOMER

REAL FAST

You will receive your custom tool within 15 days after approving the drawing – that's the WEDCO guarantee



EXPRESS-SERVICE

WEDCO offers a special express service for emergencies: Under optimal conditions, your custom tools can be produced and delivered within 24 hours

STILL BROWSING...

or do you already perform?

Well, it's a pleasure to flip through our catalogue. WEDCO's range of standard tools offers suitable solutions for many applications. However, the efficiency of production can often be massively increased by using special tools. Longer tool life, better performance, no need for retooling: Our special tools are geared precisely to your requirements. Because what you produce is not just any "standard product", it's your product, for which you should have not just any, but your own custom tool. Therefore: Don't just adapt to any catalogue tool. Let the tool adapt to your requirements - with a customized product from WEDCO.

VAR-X barrel cutter

Vc: 420 m/min
fn: 0,08mm

Info: 70% time saving in machining compared to conventional ball cutters.

Material: 1.2379



Double T-slot cutter

Objective: To provide the customer with a reduction of the machining time of internal grooves/grooves. Through the combination of 2 grooving tools to one special tool the desired time saving was achieved.

Savings: approx. 30% due to the reduction of tool changes and the time required for grooving and chamfering.



Step drill with cooling channel

Vc: 85 m/min

fn: 0,16mm

Info: 3 special tools were combined to form this new customized tool. The machining performance could thus be significantly increased.

Material: 42CrMo4



Profile cutter

Design of a tool with the required flexibility, which enables a profile to be profile in a given cycle time and in one go to the instead of using 5 or more or more standard tools standard tools for this purpose.



THE RIGHT TOOL FOR YOUR MACHINING STRATEGY

Do you have a special application and a concrete idea for the right tool for your machining process? Or are you simply looking for creative new ways to reduce costs in your current production and to rethink your tool strategy? No problem, we will turn your ideas into reality and manufacture the tool you need to level up.

Form cutter

The tool makes 3 grooves in an existing bore plus additional chamfering. With this tool, several tools were combined into one special tool in order to save tool changes and to improve the economic efficiency (cycle time / tool change / work preparation ...).



Drilling-milling-turning-combo

Customized upright tool for turning, that performs several work steps in one and thus saves on tools. First, a stepped hole is drilled. After subsequently being offset, internal recesses are milled and chamfered with the second side of the tool.



individual

Profile end mill

Vc: 105m/min

fz: 0,07mm

Info: Several operations are carried out in one step by this customized tool. The result is reduced machining time and a better surface finish.

Material: 1.2316



Profile end mill

The required profile is applied to the component in one go. This saves several operations and thus tool changes.

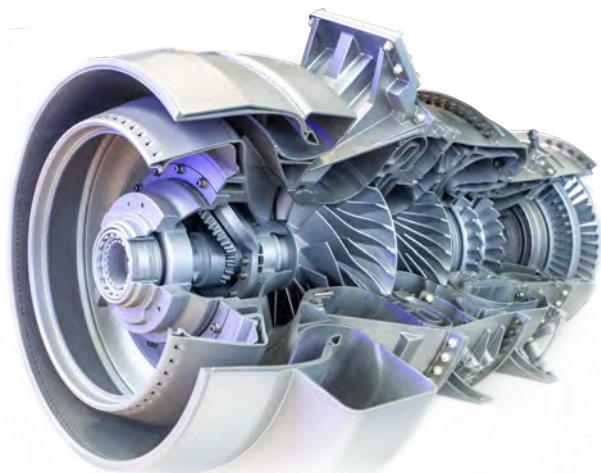


INDUSTRY SOLUTIONS

active in all sectors!

WEDCO customized tools –
in use wherever precision and quality count!

WEDCO has decades of experience and expertise in all major industries, such as aerospace, automotive, die & mould, medical technology, energy technology and jewellery production.



AEROSPACE

Turbine blades in jet engines rotate at extremely high speeds under the harshest environmental conditions. To ensure absolute safety, they are made of difficult-to-machine, heat-resistant superalloys that place the highest demands on the tool edge.

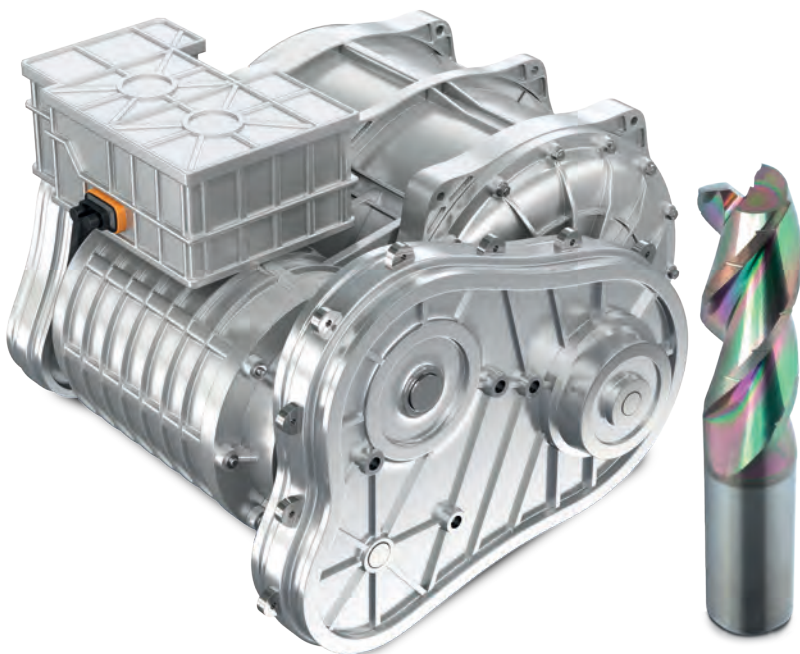
Milling the blade surface with the VAR-X barrel cutter

- Improvement of machining efficiency
- Reduction of cutting forces during high feed milling
- High performance for 5-axis machining
- Ensuring high part precision



AUTOMOTIVE

The mobility concepts of the future require modern lightweight materials and correspondingly sophisticated machining strategies. In the automotive sector in particular, alternative drive systems - like electromobility - demand completely new components, materials and machining strategies. To keep pace with these requirements, the use of customized special tools usually offers decisive competitive advantages.



MEDICAL TECHNOLOGY

WEDCO is the partner for professional cutting tools in the medical sector. We rely on our decades of experience in micro tool production as well as in special tool development. In design and production, we start where it counts: The highest standards for precision, service life and efficiency for your applications.

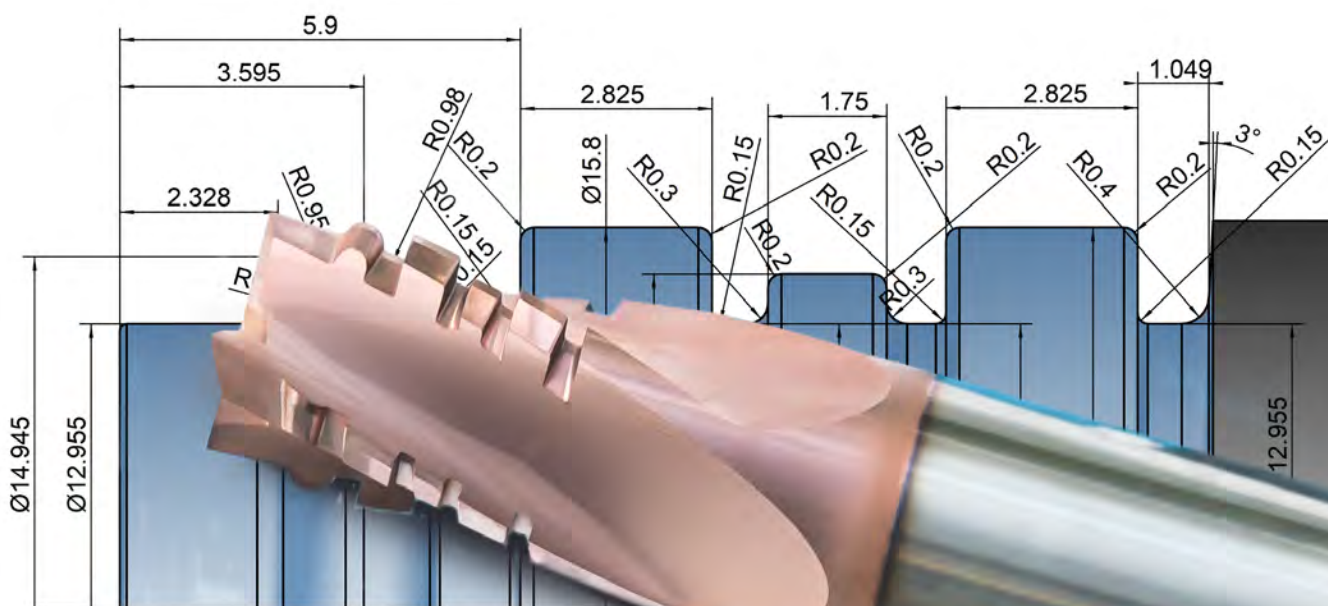
ENGINEERED BY WEDCO

when every detail counts!

The WEDCO Plus for customer success

Special tools are used to optimize production processes and reduce manufacturing costs. The prerequisite for this is the right communication between customers and tool supplier. We are as close to the customers as possible and deliver individualized, holistic turnkey solutions.

Target-oriented, fast and professional: Thanks to WEDCO Tool Competence, there are hardly any limits for what you can achieve in the field of special tools for machining.



±0,03 auf die schneidende Kontur

Anzahl der Schneiden	4
Schaft	DIN 6535 HA
Drallrichtung	Rechts
Steigungswinkel	20.0°



Datum:	28.09.2020	Beschreibung:	unbeschichtet
Ers. für:		Ers. durch:	Herr Kolb



Fast and innovative for the perfect tool solution: The focus of our engineering experts is always on realizing the highest possible customer benefit.



We turn your ideas into reality and manufacture your desired tool.

It's our engineers claim to develop optimal tooling concepts for new workpieces and to support in greatly simplifying existing processes: The development of a customized special tool is always preceded by a detailed consideration of the customers individual task description, whether it comes as a workpiece sketch or as a problem description. Our specialists develop the appropriate machining strategy and the corresponding tool, with a focus on geometry, layout and cutting material. In this way, you save work steps and tool change procedures with optimized machining quality.

