



**GDS-AT ROBOTICS**  
Octagon of automation



grinding deserves SOLUTIONS



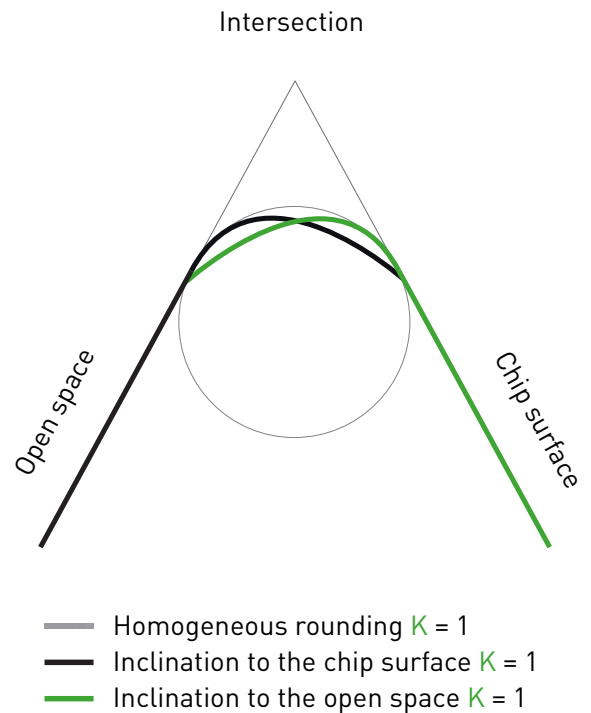
# Cutting edge optimization with

# MAGICEDGE

GDS has been known for process solutions in grinding operations for many decades. We are the market leader in the areas of clamping devices, balancing technology and solutions for processes. Our team of master cutting tool mechanics, engineers and service technicians is always there for our customers to bring further developments forward. Our many years of experience help you to re-design processes, reduce downtime and produce more economically.

GDS AT - Automation Technology for Tool Manufacturers - Grinding Shops and Resharpener Shops 2023 GDS - Made in Germany has acquired AT Robotics. AT Robotics has been known for years for automation solutions in the field of cutting edge preparation. Perfect solutions with Magic Edge Automated, standardized and is very easy to handle.

However, GDS AT goes even further. We automate various processes in your company. Simple and uncomplicated. Plug and Play is our motto. Simple programming, standardized and cost-effective. Simply select the modules you need from our AT construction kit, or realize a customized concept with us, tailored to your needs.



# The next level of cutting edge optimization



## What makes us...

An economical machining process can be achieved with more efficient tools. This is effectively achieved with targeted optimization of the cutting edge. This in turn primarily leads to better wear behavior of the tool and to an increase in tool life.

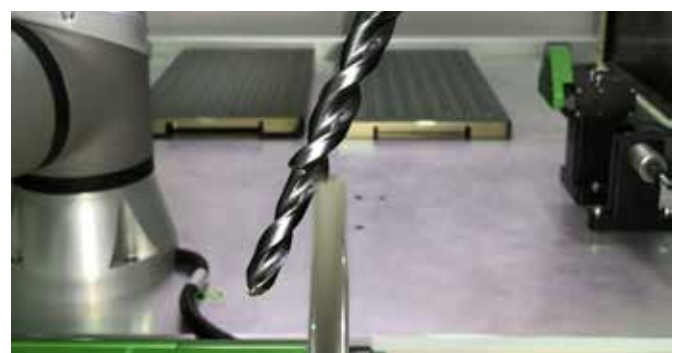
These are precisely the aspects that rounding of the cutting edge by brushing with our MAGICEDGE robot system brings with it. Here, the rounding size on the cutting edge can be adapted to the material to be machined and its application.

Cutting edge preparation creates a fillet or chamfer on the cutting edge in the micro range (up to 80% fillet).

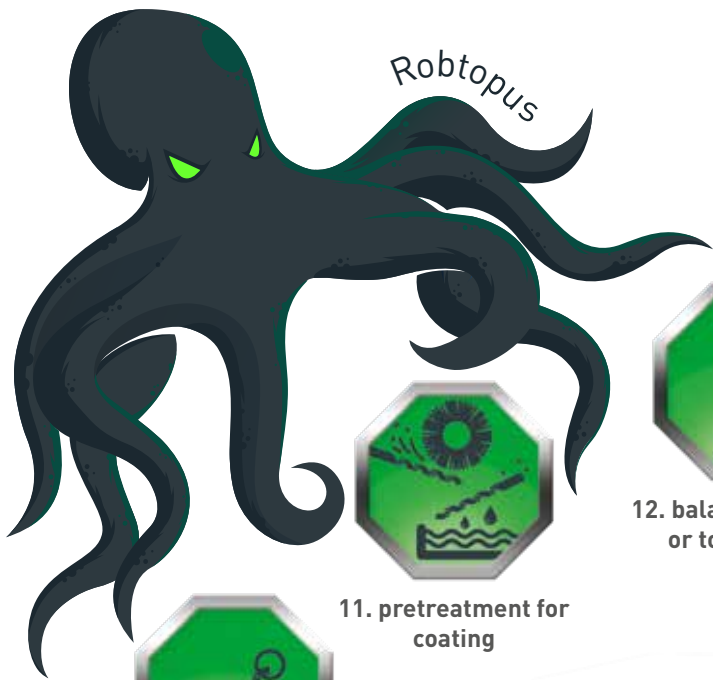


## Why do we speak of optimization and not of filleting?

Optimize means improve, a fillet is just a dulling of the cutting edge by a radius. We optimize, whether rounding in precise, consistent quality or through processes such as K-Land optimization. Even if you want to realize a new type of optimization, our tool technologists and engineers are at your side.

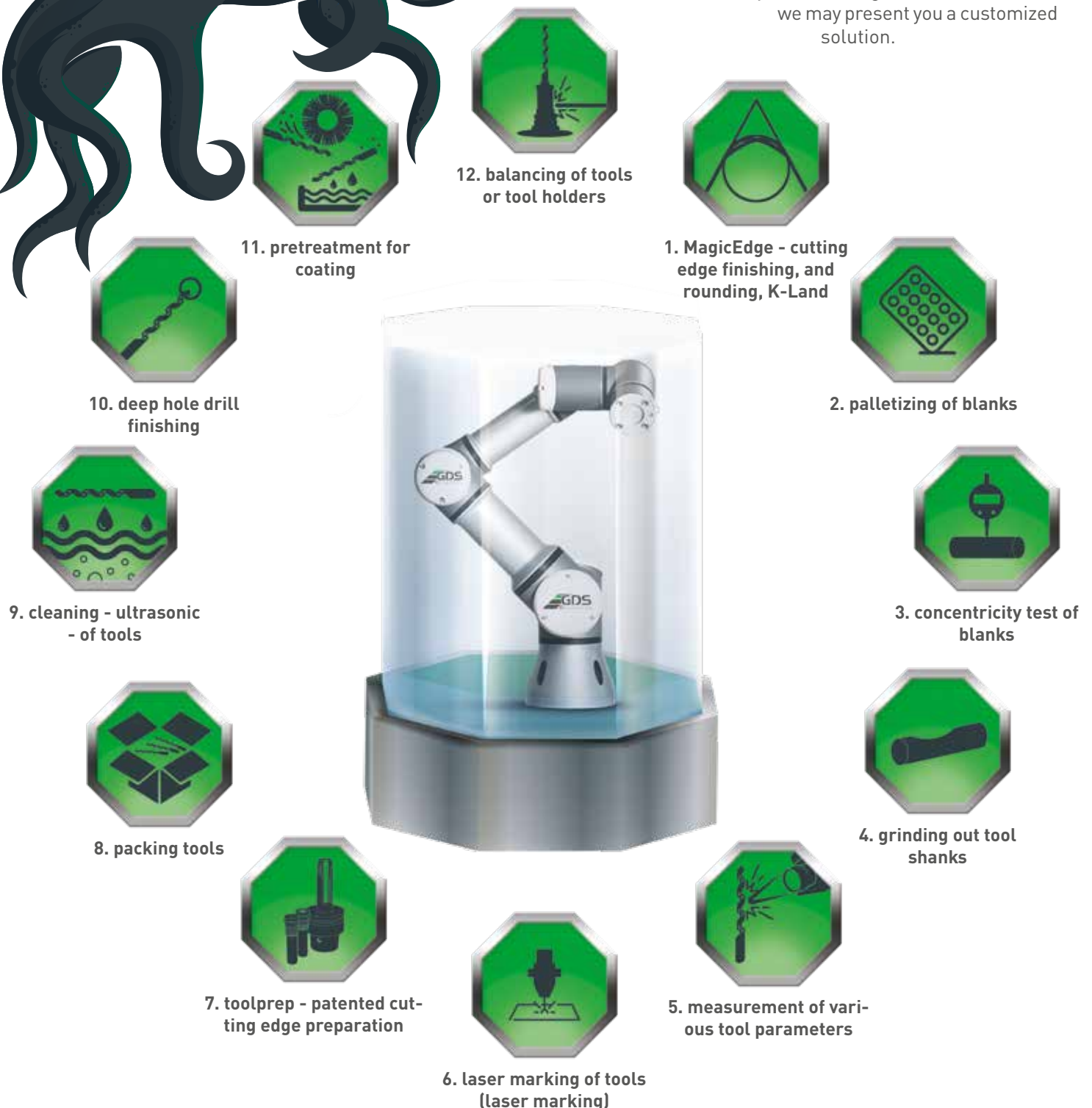


# GDS AT Robotics offers you standardized, fully automated solutions in the areas of:



These individual standardized processes can be combined with each other in one robotic cell. You simply select and receive a cost-effective plug and play solution in a very short delivery time.

You have other processes that we can realize for you? Challenge our team in which we may present you a customized solution.



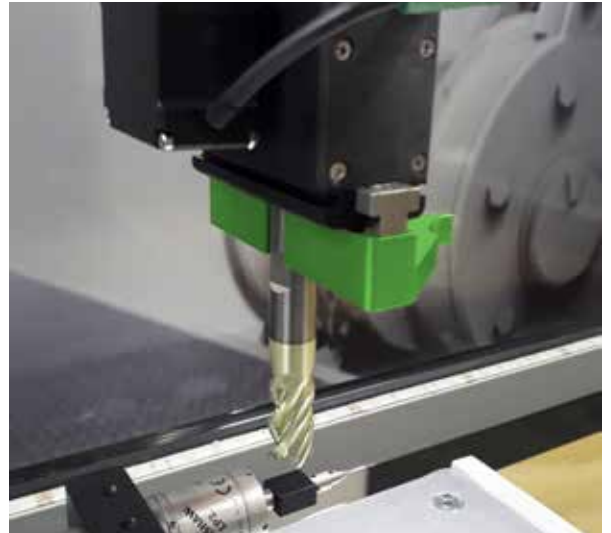
# Brush, round off, PERFORM!



With our MAGICEDGE automation cell, we are setting a milestone in cutting edge optimization, based on years of technological know-how from tool technology. The rounding of the cutting edge is done precisely and reproducibly with the robot technology, with consistently high quality!

Robot kinematics allow our system to significantly determine the shape (K-value), size and course of the cutting edge radius. Only the desired edge is treated.

Possible applications of the MAGICEDGE standard system are cutting edge preparation on shank tools and on WSP (indexable insert). Further customized automation solutions are pick and place, glass bead blasting, quality assurance, polishing and others.



## MAGICEDGE

a milestone in cutting edge optimization



- Only the desired edge is treated
- High process reliability and flexibility
- Short set-up times and easy handling
- Fast amortization

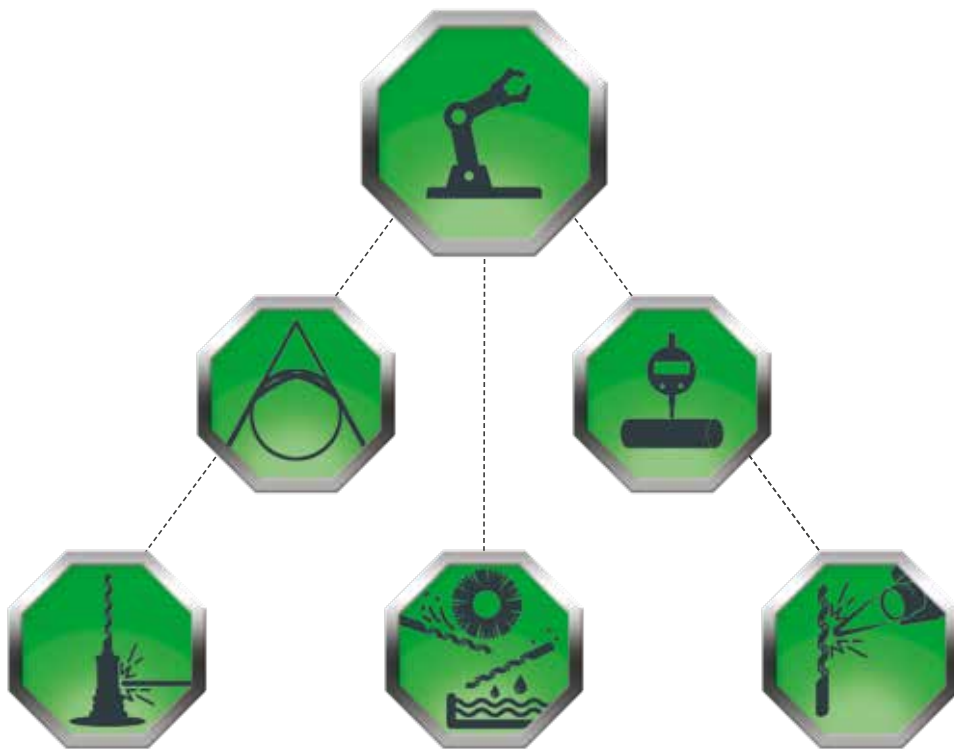
## Services

Together with our customers, we develop the optimal automation solution, with the best cost-benefit factor.

The focus is on the technical implementation of our visions, which is specifically tailored to our customers.



# GDS AT ROBOTICS



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