

Quality Made in Germany since 1924



Edge rounding and polishing  
of metal drills and cutters

# Edge rounding and polishing

You have the surfaces - we take care of the finish. Our products are always called for when surfaces cannot be further refined with conventional vitrified or resin-bonded grinding wheels. Contrary to abrasive belts, they can also be used to finish hard to reach surfaces.

In ARTIFEX tools, abrasive grains such as silicon carbide or aluminium oxide are flexibly embedded in elastic materials, such as foamed polyurethane (P) or rubber (Rplus). As a result, our grinding and polishing wheels are sponge-soft, finely porous or hard, but always elastic. Depending on the application, the specifically matched composition of grain and bonding results in the desired finish.

## WORKPIECES

Cutters | Drills

## MATERIAL

Hard metal

## MACHINES

CNC tool grinding machines

## PROCESS DESCRIPTION

Edge rounding and polishing  
(Drillpolish Patent DE 10 2011 054 276)

## PROCESS SETUP

Drilling depth $L_t$ :	1.5 mm
Cutting speed $v_c$ :	25 m/s
Spindle speed $n_w$ :	1,650 min <sup>-1</sup>
Feed rate $v_{fa}$ :	6 mm/min

## RESULT

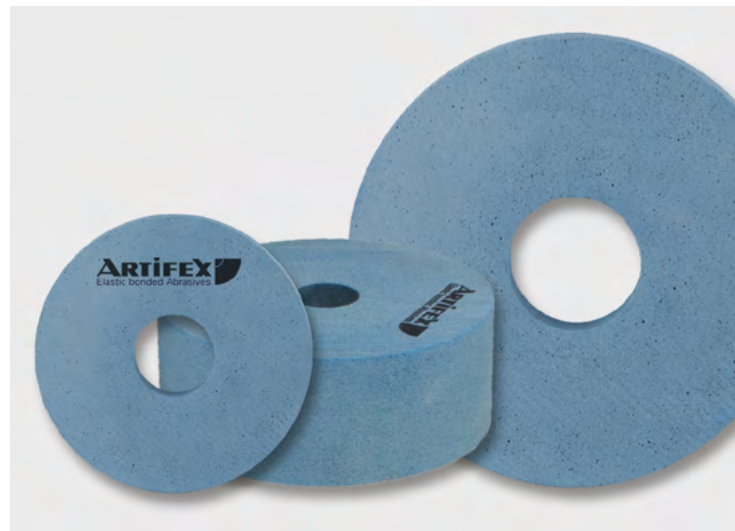
Chipping of cutting edge : Rs 1.2  $\mu\text{m}$   
Reduction of micro-defects

## TOOL

Product :	ARTIFEX SC - HDR
Bonding :	Special rubber bonding
Hardness :	H (hard)
Delivery form :	Peripheral wheels   Rolls
Dimension :	$\varnothing$ 100 x 20 x 20 mm

## ADVANTAGES

Repeatable result of rounding  
Increasing the life span of the drills and cutters up to 300 %  
Low processing costs



## The ARTIFEX promise

We stand for tools that guarantee the highest quality standards. All ARTIFEX products are „Made in Germany“ and their above-average service life speaks for itself.

**Our service:** You have individual requirements, we offer customised solutions regardless of the material, shape or dimensions. We will gladly advise you on your premises.