

# Quality Made in Germany since 1924



Polishing of circular saw blades and circular knives

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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**

Circular saw blades | Circular knives

#### **MATERIAL**

Hard metal | hardened steel | High alloy steel

#### **MACHINES**

Gerling | Kähny | Kirschner | Petschauer and all other reknowned manufacturers

#### PROCESS DESCRIPTION

Removal of scratches, scale stains, colors, welding beads and solding residues Cleaning of used circular saw blades

## PROCESS SETUP

Cutting speed  $v_c$ : 30 m/s Infeed  $a_e$ : 50 - 200  $\mu$ m Feed rate  $v_c$ : 6 - 10 mm/s

Cooling lubricant: Emulsion | Water | Oil

# **RESULT**

Evenly finished surface

Roughness : Rz  $3 - 12 \mu m$ Material removal :  $50 - 100 \mu m$ 

#### **TOOLS**

Product: ARTIFEX NK 46 HZP
Bonding: Foamed Polyurethane | hard
Grit size: Aluminium oxide F46

Application: Removal of deep scratches

High stock removal

Product: ARTIFEX NK 80 HZP

Bonding : Foamed Polyurethane | hard

Grit size : Aluminium oxide F80

Application: Saw blades with slots and grooves

Delivery form: Peripheral wheels
Dimension: OD Ø 250 - 400 mm

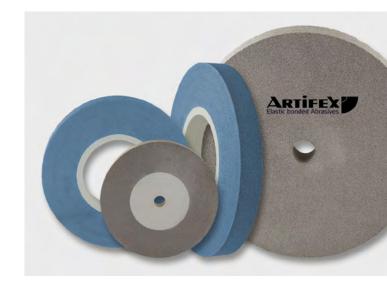
### **ADVANTAGES**

Best replacement of traditional cork polishing wheels Less residues in the machine

No clogging of the wheel and long service life

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# 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.

