

Quality Made in Germany since 1924



Automated polishing with a CNC machining center in mold making

Automated polishing in mold making | CNC

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 order to transform a manual polishing process for mold making into an automated process inside of a CNC machining center, one needs two things. The matching spindles and the perfect tools. Specially designed radial or axial deflectable spindles are made by companies like son-x, SN-Spindeltechnik or Biax. ARTIFEX offers the matching polishing tools.

WORKPIECES

Molds for injection molding | Forming dies

MATERIAL Tool steel | Hot die steel

MACHINES Standard CNC Machining centers

PROCESS DESCRIPTION

Removal of tooling marks Polishing track wise with a mounted point

PROCESS SETUP

Tool speed v_c : Form feed v_{fa} : Infeed a_e : Cooling lubricant : 20 m/s 1,000 mm/min 0.5 µm Water | Emulsion | Oil

Ra < 0.1 µm

M (medium)

F120 | F240

Mounted points

OD Ø 4 - 60 mm

ARTIFEX EK - MG

Foamed polyurethane | hard

White fused Aluminium

RESULT

Surface roughness :

TOOL

Product : Bonding : Hardness : Grit size :

Delivery form : Dimension :

ADVANTAGES

High wear resistance, therefore high lifespan of the polishing tools Tool runs without any dressing Little to non cooling lubricant necessary No polishing paste or other media necessary Reducing the over all process time compared to the manual process by up to 50%





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.