

# DRESSING TOOLS



KAPP NILES

## diamond profile rolls



We offer you dressing rolls for flexible, workpiece specific or topological dressing of ceramic tools or CBN tools for **continuous generating grinding** of external gears.

All rolls in our product portfolio are characterised by the following production and quality features:

- tool geometry calculated with special mathematically based software to ensure the customer requirements regarding the amount of bias, profile modifications and gear root design
- delivered with machine-specific tool data sheet
- highly wear-resistant **chemical vapor deposit-diamond** inserts for edge reinforcement on the tip of the tool (for rolls with a small module); if necessary, also available over the entire dressing profile
- runout inspection surfaces for precisely aligning in the machine
- the rolls are repeatedly regrindable
- completely reclaimable
- design for module < 1.0 mm is possible
- profile accuracy < 2.0 µm is realisable

Our dressing tools are used for generating grinding with natural entanglement and topological generating grinding with influenceable bias.

In addition to the multi-ribbed profile rolls for fast and efficient dressing, dressing rolls with or without tip dresser are also available.

### Diamond profile rolls for dressing of the worm gap:



**multi-ribbed diamond profile roll W-L-VPX**

dressing of the gap



**diamond profile roll W-L-OK**

dressing of the gap without tip dresser



**diamond profile roll W-L-MK-MZ**

dressing of the gap with tip dresser grinding of the root



**diamond profile roll W-L-MK-OZ**

dressing of the gap with tip dresser without grinding of the root

### Diamond profile rolls for dressing of the worm tooth:



**diamond profile roll pair W-Z**

dressing of the tooth for use on double spindle dressing unit



**diamond form roll W**

topological dressing, universally applicable



**diamond profile roll W-Z-MK-MZ**

dressing of the tooth with tip dresser with grinding of the root



**diamond profile roll W-Z-MK-OZ**

dressing of the tooth with tip dresser without grinding of the root