

DIAMETAL

Success with precision



MNTplus from Diametal – Your Advantage when Flute Grinding

Cost-effectiveness is a key factor for success in series production: unproductive interruptions and downtime must therefore be kept as short as possible in the production process.

This is particularly true in the manufacture of milling and drilling tools, where the grinding of flutes generally takes up the most time. To keep the process time short, the removal rate of the grinding tool that is used must be as high as possible. However, along with any improvement in material removal performance, the mechanical stress on the tool usually increases as well – and therefore the wear it is subjected to. But a high level of wear can quickly offset any advantage provided by high removal rates when grinding flutes. With the new MNTplus grinding wheel, Diametal is now presenting an effective solution to this problem. The aim of development has been to produce a wheel for flute grinding that successfully combines the benefits of minimal wear and maximum removal rates from the workpiece.

Thanks to the development of a new formulation for the binding components, MNTplus is able to meet this requirement in an impressive manner. The newly developed grinding wheel enables the wear to be reduced by almost half in comparison with previous solutions. The advantages are obvious: the wheel only needs to be dressed half as often and the life time is increased accordingly. The grinding process for flutes and grooves is significantly more economical as a result while enhancing the precision of the tool at the same time.

Efficiency, precision and cost-effectiveness – you're one crucial step ahead of the competition when using MNTplus!



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DIAMETAL AG/SA

Solothurnstrasse 136 · 2500 CH-Biel/Bienne 6

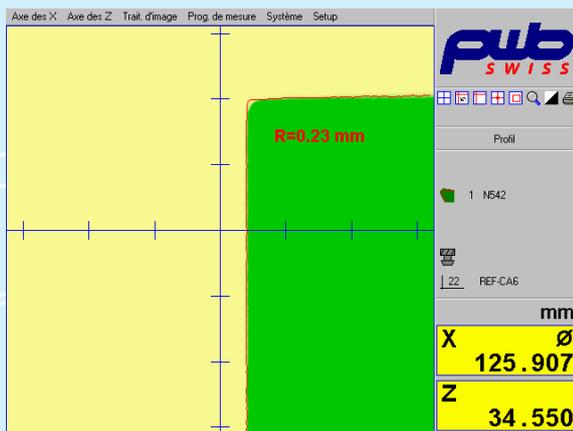
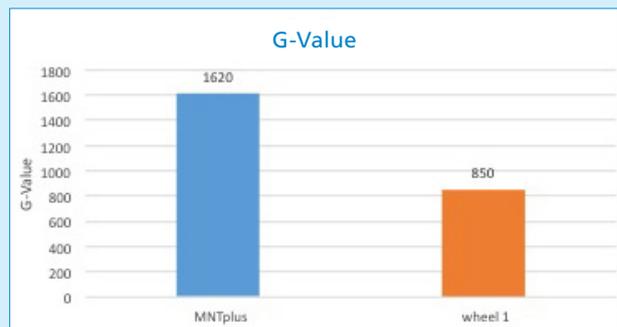
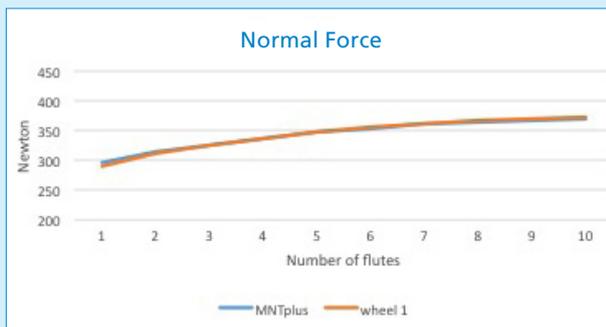
Tel +41 (0)32 344 33 33 · Fax +41 (0)32 344 33 44

info@diametal.ch · www.diametal.com

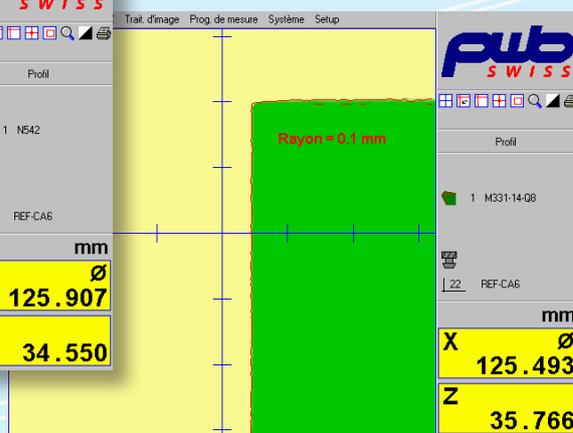


Flute grinding of carbide metal RX10

Infeed: ae 4,0 mm
Feed Rate: 110mm/min
Qw': 7,3 mm³/mm/min
Vs: 15 m/s
Wheel: 4A1 Ø125 T6 X8 D64
Cooling: Oil 8bar



Wheel 1
Wheel edge radius after 8 flutes



MNTplus
Wheel edge radius after 8 flutes