NANOERA WHEELS



Characteristics of Nanoera

High Dispersion Mixing of Sub-micron particles

Contributing fewer chipping and scratching

Structure of breking off loading during grindi ng

Prevent low efficiency by continued grinding efficiency

particle arrangement able to no-dressing grinding

Applic ation

urging to self-dressing of grinding wheel

Evoloved Super Fine Grinding

Loading and grazing using a conventional wheel resulted in decreased during the process. Therefore in order to improve efficiency dressing for rove grinding is required, however during this process a lot of grinding wear occurs.

Therefore Nanoera wheel was developed to solve this problem.

The structure of Nanoera wheels were designed considering our original mixing technology to minimize cohesion of abrasive grains in sub-micron grade, in addition to the effect of particle arrangement after curing to prevent loading.

At the same time as loading occurs sutable self-dressing mechanism enables the optimal surface condition for each grinding condition and work material.

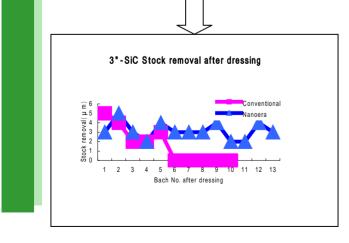
Therefor unwanted wheel wear by dressing is reduced and also prolonged grinding time with loading is avoided, so the grinding cost performance is much improved.

Μ	es	h s	ize
1 1 1	03	1 3	120

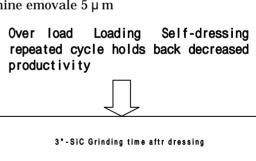
Bond	Mesh size	
Original fine ceramics bond NF08(super finish)	#4000 ~ #50000	

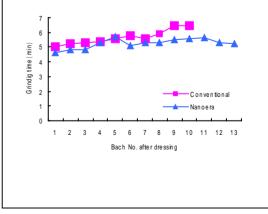
Grinding wheel SD #30,000 Machine infeed rotary grinding machine Grinding rate 1 µ m/min Ra 1nm TTV 1 µ m machine emovale 5 µ m

No dressing grinding by coming to sharp grain of grinding surface by self-dressing again



*Grinding mechanism is continually grinding by the set stock removal





株式会社 **Nitolex**