

NEXOPART UFA

Ultrasonic frequency variation for sieve support.

NEXOPART

simplicity for your lab

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With the NEXOPART UFA you have an important tool in your hand if you want to analyze your fine bulk material e.g. fine powders with critical separation cuts of $\leq 300 \mu\text{m}$ successfully via a vibrating sieve instrument. By using the UFA unit the sieve mesh is stimulated with a continuously varying ultrasonic frequency. The high-frequency vibrations that are generated reduce the frictional resistance between particles and sieve cloth. Sieve support with the NEXOPART UFA significantly speeds up the process of reaching the end point of sieving. For some bulk materials, sieving with vibratory test sieve shakers is only now possible correctly for the first time. The special feature of this process is the frequency variation, which does not require any complex tuning of the mechanics to be stimulated (test sieves) – in contrast to the usual resonance methods.

Advantages of the NEXOPART UFA:

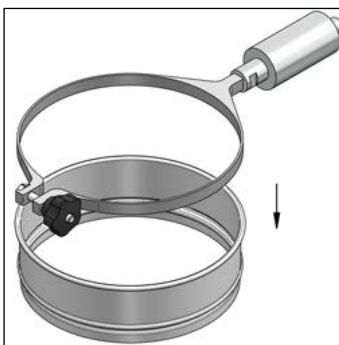
- increased sieve throughput of bulk materials $\leq 300 \mu\text{m}$
- clogging tendency is minimized and destruction of agglomerates is promoted
- sieving capacity is increased and sieving time is shortened
- permanent cleaning effect of the sieve cloth with low mechanical load on the sieve bottom
- parallel processing of several test sieves with only one generator (possibility to connect two converters, twin operation)

TECHNICAL SPECIFICATIONS AT A GLANCE.

AGS 35-100

DGS 35-50-S

Clamping ring:	Ø 50 mm, 76,2 mm, 200 mm, 203 mm, 300 mm, 305 mm, 315 mm, 350 mm, 400 mm, 450 mm	Ø 50 mm, 76,2 mm, 200 mm, 203 mm, 300 mm, 305 mm, 315 mm, 350 mm, 400 mm, 450 mm
Converter:	C35-LP1 including connection cable	C35-LP1 including connection cable or C35-SD8 including connection cable
Generator type:	analog	digital
Ultrasonic power:	20-100 W (adjustable)	50 W max. (adjustable)
Operating modes:	continuous / pulsing	continuous / pulsing
Protection class:	IP 65	IP 65
Weight:	3,3 kg	3,6 kg



Clamping ring and converter before using the test sieve to be stimulated



Analog generator for stimulation of a test sieve (AGS35-100)



Digital generator for excitation of test sieves with expanded analysis and setting options with additional SweepParam software

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Photos: Walkenhorst, supervisuell, NEXOPART

The use of the NEXOPART UFA enables the sieving of adhesive bulk materials

