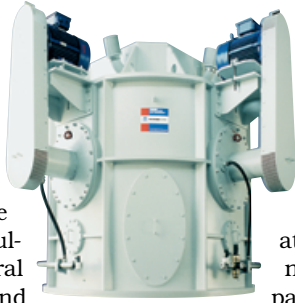




SIZE REDUCTION

Classy classifier

Hosokawa Alpine took advantage of Achema to show off a new multi-wheel classifier head for fine milling and grinding applications. The 500/4 ATP-NG Turboplex classifier offers higher throughput at finer size fractions than its predecessors. Alpine Turboplex classifiers are used for the classification of ultra-fine mineral fillers, ceramics and waxes. They produce powders in the size range $d_{97} < 3-20 \mu\text{m}$, at throughputs that formerly required several classifiers operating in parallel. To improve performance, the speed of the new 500/4 ATP-NG has been increased by ten percent compared to the standard ATP classifier. Used with mills such as the Hosokawa Alpine SO and SF ball mills or the ATR agitated



ball mill, the new classifiers can provide fineness values of $d_{50} = 0.5 \mu\text{m}$, as well as sharp size distributions. The 500/4 ATP-NG classifier shown at Achema achieves $d_{97} = 5 \mu\text{m}$ at 1.8 t/h, while the larger 630/4 ATP-NG yields $d_{97} = 7.0 \mu\text{m}$ at 5.8 t/h, and the 750/4 ATP-NG manages 11.0 t/h at $d_{97} = 10 \mu\text{m}$. The new units are compact, exceptionally smooth-running, and easy to maintain thanks to articulated arms that support the classifying wheels. Wear protection options include classifying wheels made from Al_2O_3 or SiC, or steel coated with tungsten carbide, and linings of polyurethane, ceramic or hard alloy.

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