



Hosokawa Micron Corp Reduce Synthetic Rubber For Continuous Dissolving System Cavitron

Hosokawa Micron Corporation has recently completed the first phase of a prestigious front-end synthetic rubber primary reduction and continuous dissolving system based around the Hosokawa Micron PB15 Rubber Chopper unit and CAVITRON CD1060 Rotor / Stator Dissolver on behalf of Shanghai Huayi Bulk Polymer..

The process is for the production of ABS using the customer's own developed mass-ABS process technology that is claimed to offer a technically superior and more stable product in comparison to other license technologies available in the marketplace.

Shanghai Huayi is one of China's largest chemical manufacturing groups with many processing centres across mainland China.

Hosokawa has previously completed similar joint-engineering projects with Cavitron (Germany) who offer proven continuous dissolving technology with their CD1060 unit; between the two companies we have excellent process & project engineering experience within this specialised industrial area.

The Hosokawa Micron Rubber Chopper provides the primary reduction of the synthetic rubber bales, having the ability to reduce each 35kg block quickly and efficiently. The following Cavitron (continuous) dissolver unit accepts, reduces and intensely processes the rubber granules with styrenemonomer to produce highly dissolved, uniform rubber slurry, typically 95% dissolved. The resultant product is transferred to a heated and agitated large volume storage vessel for the final dissolving process.

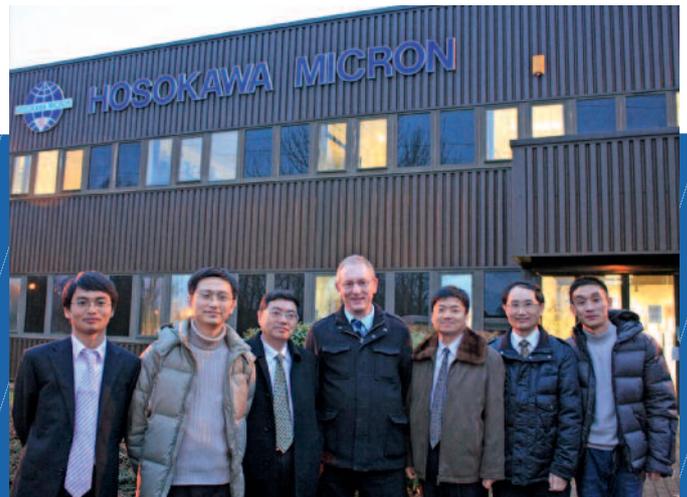
The Rubber Chopper & Cavitron process gives a much shorter processing time and a highly consistent, high stability product.

The Rubber Chopper was additionally supplied with our pneumatic bale feeder device and gravity roller track feeder for correct bale presentation and to ensure trouble-free primary crushing.

The delivered system has the ability to receive, reduce and continuously dissolve commercially available synthetic rubber bales (typically around 750mm long x 400mm wide x 175mm thick and 35kg mass) at processing rates typically around 4 tonnes per hr producing a final styrene-monomer based rubber solution around 12% solution.

Both machines are essentially of standardised design for this demanding application and are fully proven by many globally installed and operable systems.

A delegation of Shanghai Huayi engineers (accompanied by a representative of Hosokawa Shanghai) attended pre-despatch factory inspection both at Hosokawa Micron and Cavitron.



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