



# Hosokawa Rietz In-Line Disintegrator Stars in the Latest Soaps

The Hosokawa Rietz In-line Disintegrator is the machine of choice for large and smaller scale detergent manufacturers across the world looking for product consistency and continuous production, offering effective mixing and de-lumping of thick suspensions or slurries for efficient spray drying of powder detergents.

In detergent production dry and liquid ingredients are combined into slurry before being pumped at low pressure through the Hosokawa Rietz In-line Disintegrator. The unique centrifugal grinding action of the unit passes every particle through perforated screens to ensure a lump free product. The efficiency of the unit is such that there is no need for additional strainers with their associated blocking and cleaning problems.



Materials are subjected to repeated impact and attritional forces from a series of high speed rotating hammers, centrifugal force carrying the mixture through the perforated screens. The fast mixing and de-lumping action delivers smooth slurry which is pumped at high pressure by piston pump to a spray dryer where the detergent powder itself is formed. The dryer sprays the liquid mix through nozzles under high pressure to create small droplets which are dried in rising air to form hollow powder particles.

The use of the RI Disintegrator to create a consistent, lump free mixture means that dryer spray heads do not become blocked and mal-operation of the high pressure pump is prevented allowing continuous production without costly downtime for cleaning. Manufacturers also see product consistency of the mixture which is increasingly important in end performance of the product and also for high density packaging.

The compact and robust Hosokawa Rietz In-line Disintegrator is belt driven for flexibility and easy speed adjustment. It is designed for quick opening to facilitate rapid screen and hammer changeover and fast and easy cleaning for minimal downtime. Manufactured with all contact parts from stainless steel the RI Disintegrator is available in vertical or horizontal system designs and can readily be installed in pipe systems operating at up to 10barg.