Gericke

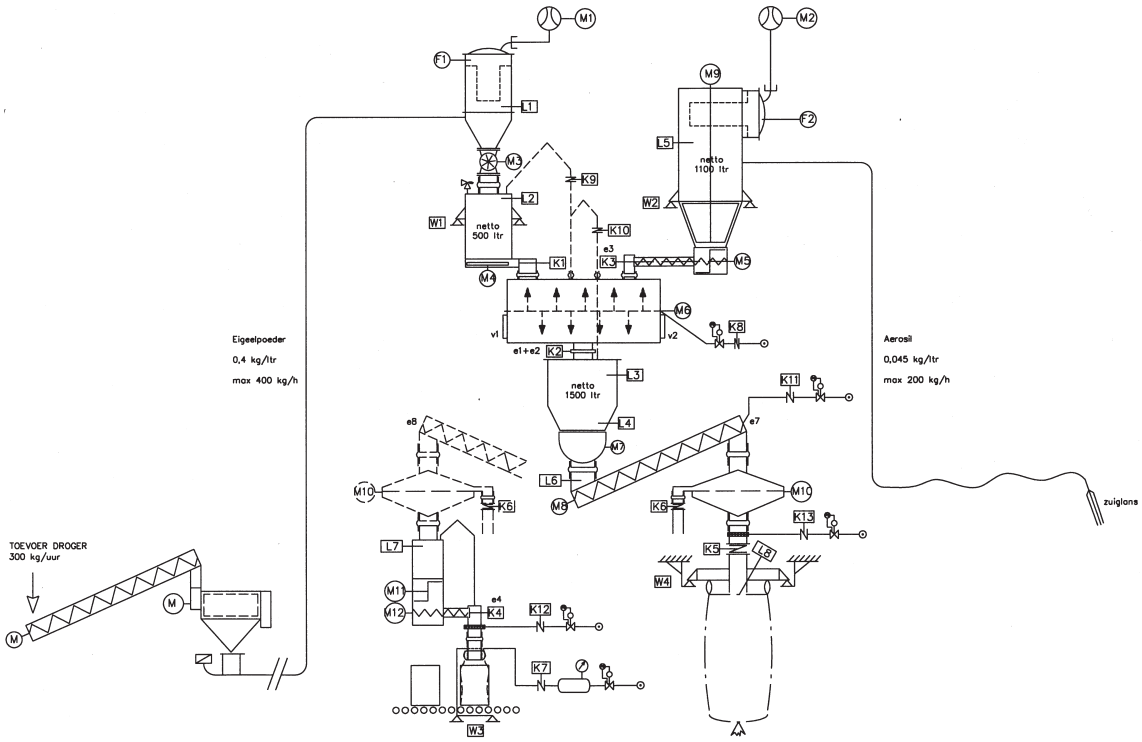
Case Study No 7

MIXING AND FILLING SYSTEM FOR YOLK EGG POWDER

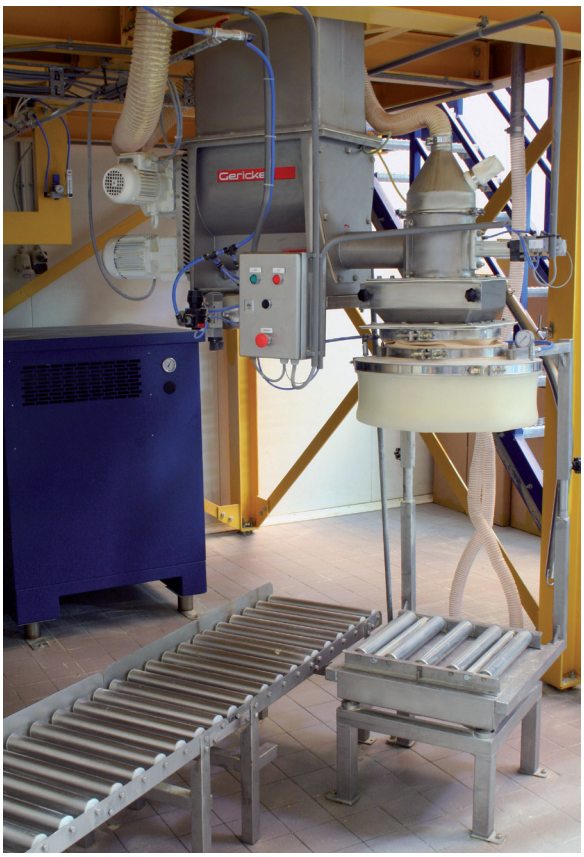
Subject	To improve the handling and application characteristics of yolk powder. Filling of drums and big bags.
Client	Adriaan Goede (NL).
Process	After drying the egg yolk is homogenised in a centrifugal sifter. A special vacuum conveying system is lifting the very difficult flowing powder to a weighing hopper. Feeding with RA bin discharger into a horizontal double shaft mixer GMS (Multiflux). Automatic filling of either big bags or drums and boxes.
Gericke Technology	Egg yolk is extremely sensitive on pressure and cakes immediately. Pneumatic conveying systems transport the powder to the weighing hoppers. Gericke GMS Multiflux double shaft mixer ensures a minimal pressure application on the yolk powder. The RA bin discharger is emptying and dosing the poor flowing yolk egg powder. A GAC 232 feeder is used for feeding the silica into the mixer before a GDU 451 feeder with weighing platform and roll conveyor is filling the drums and boxes.
Materials conveyed	Yolk and Silica (Aerosil).
Bulk density	Yolk: 0,3 – 0,4 kg/l Silica (Aerosil): 0,05 – 0,15 kg/l.
Capacity	700 kg/h.
System requirements	Yolk powder asks for a very gentle handling and processing. Otherwise it bridges and cakes. Gericke equipment has been adapted to fulfil the.

Gericke has delivered this complete installation as a turn-key project. Yolk powder is a very difficult product to handle, especially when it is warm.
By doing product tests in our test facilities, we are aware of the product characteristics.
The wide range of Gericke products and technologies, and the knowledge of our experienced project engineers makes it possible to deliver a complete and satisfied functioning installation.

Flow diagram



RA Bin Discharger feeding yolk to mixer.



GDU 451 feeder with weighing platform and roll conveyor is filling the drums and boxes.

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