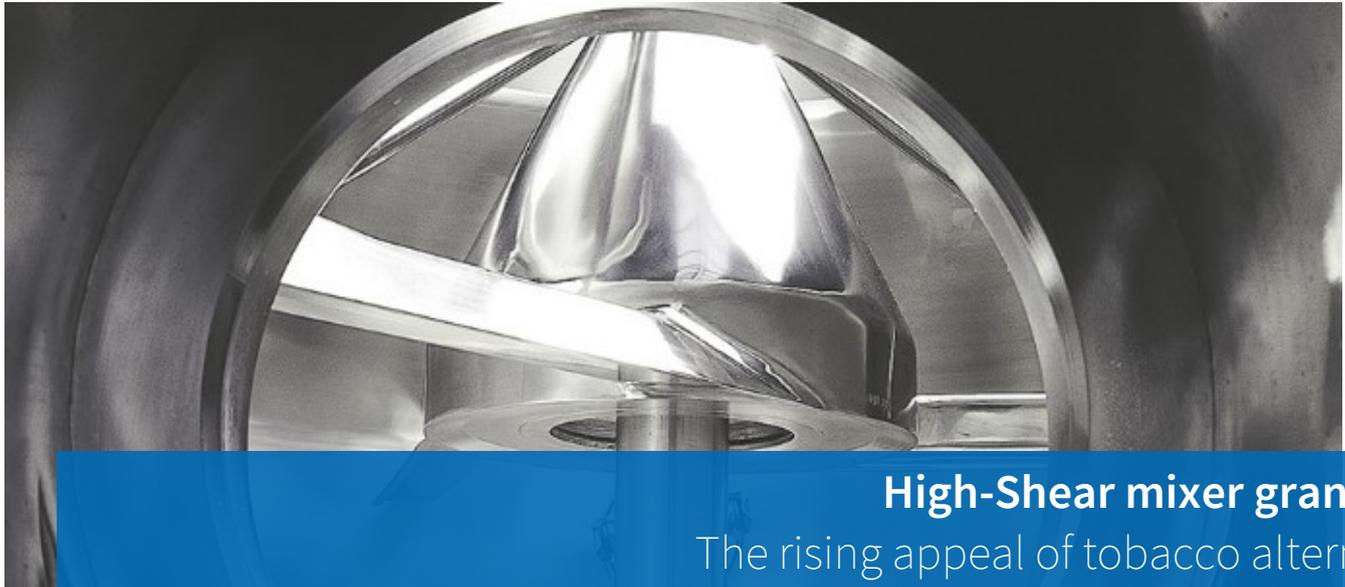


Case Study



High-Shear mixer granulator The rising appeal of tobacco alternatives

The growing global trend towards tobacco alternatives is leading to larger production plants and/ or new facilities for tobacco manufacturers. A manufacturer also follows this trend and expands its market towards the production of smoking alternatives such as chewing pouches or snus.

After investing in one P 400 high-shear mixer granulator by DIOSNA, the customer was very convinced by the quality outcome of the product regarding homogeneity but also by the processing speed. In the result the customer decided to expand its production capacity by 200% with two more P 400s.

Material flow

Once the P 400 has been loaded via vacuum transfer the excipients are preblended for the first time. The ethanol-dissolved liquid active ingredients stored in bins are added via adjustable spray nozzles for the wet granulation in the high-shear mixer. After two granulation steps the flavours are added with spray nozzles through the additional 2" charging port in the lid.

Main features

- Allen-Bradley control HMI
- Two built in binder pumps, for high and low viscosity binders.
- 2" charging port in the lid
- Industrial PC with touch screen
- Through the wall installation, without a technical are behind the machine (see drawings).
- Mixer delivered in parts, reassembled inside the room

Fact Box

Customer:	Snus manufacturer
Country:	USA
Year:	2023
Delivered system and services:	High-shear mixer granulator, Assembly supervision, Start-up, Calibration and operator training, SAT
Size:	P 400
Client's success factors:	Excellent granules, Granulation speed, Automatic operation, Expansion of production capacity

