

Chemical

- High shear homogenisation of intermediate products
- Emulsification of waxes, creams, polishes, plastics etc.
- Dispersion/Desagglomeration of abrasive solids or pigments
- Dispersion and homogenisation of polymer melts
- Liquid-gas reactions
- Homogenisation of lined and multi-component adhesives
- Saponification and neutralization reactions
- Preparation of metallo-organic compounds

Bitumen

- Production of polymer modified bitumen
- Production of bitumen emulsions
- Production of crumb rubber modified bitumen (CRMB)

Food/Bio-derivative

- Processing of fruit and vegetables
- Homogenisation of creams and fillers
- High shear homogenisation of coffee extract with an insoluble gas
- Homogenisation and dispersion of wheat dough
- Wet grinding and dispersion of corn slurry

Paper

- Grinding and disintegration of rejects
- Deflaking, coating slip preparation

Mineral Oil

- Homogenisation of oil and grease products

Working Principle & Processing

Supraton machines are dynamic Rotor-Stator Homogenisers with a multistage tool set. The pumpable product passing through the homogeniser is subject to several physical processes:

- Multistage hydrodynamic high shear
- High-frequency oscillating forces
- Intensive micro-volume mixing
- Pressure increase

These effects enable processes with highest demands like:

- Homogenising
- Dispersing
- Disintegration
- Emulsifying
- Dissolving
- Reacting
- Wet grinding

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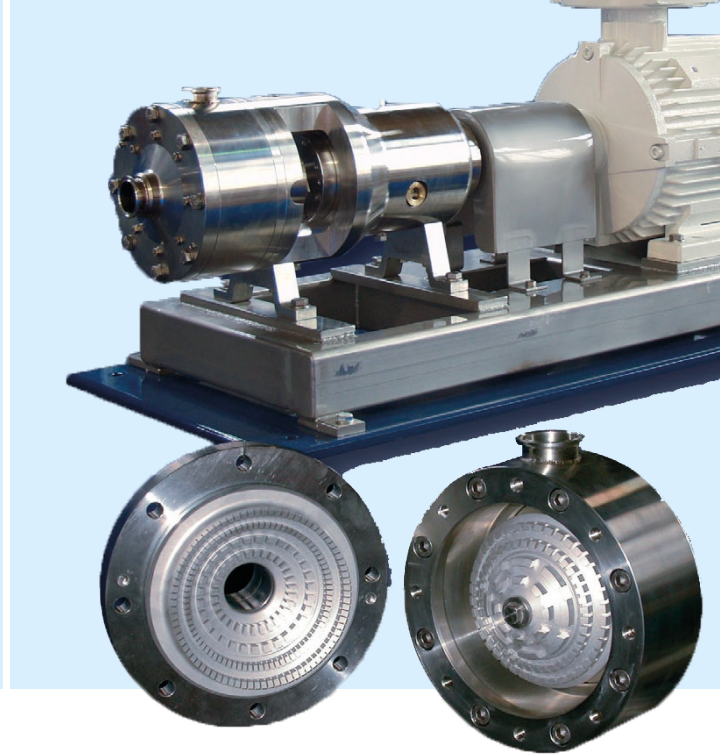


**SUPRATON
HIGH SHEAR
INLINE HOMOGENISER**



Supraton S-Series

- Product viscosity up to 200,000 cP
- Temperature up to 240 °C
- Pressure up to 20 bar
- Pressure head up to 12 bar
- Circumferential speed up to 57 m/s
- Step less adjustable grinding gap
- Symmetrical tool design
- Stator injection



Supraton Sanitary Series

- Corresponds to the requirements of Hygienic design (QHD, GMP)
- Gapless multistage rotor and stator tools
- Capable CIP process
- Product contacted parts stainless steel
- O-ring compliant with FDA regulations



Supraton Bitumen Homogeniser

- Patented Supraton high shear Inline Homogeniser for polymer modified bitumen production
- Progressive turned, wedge-shaped shear gap followed by a toothed rotor-stator system
- Tool material carbon steel cast, hardened for long lifetime
- Working gap set by hydraulic axial shaft adjustment
- Polymer portion up to 20 %
- Capacity up to 70 m³/h
- Single pass or circulation process