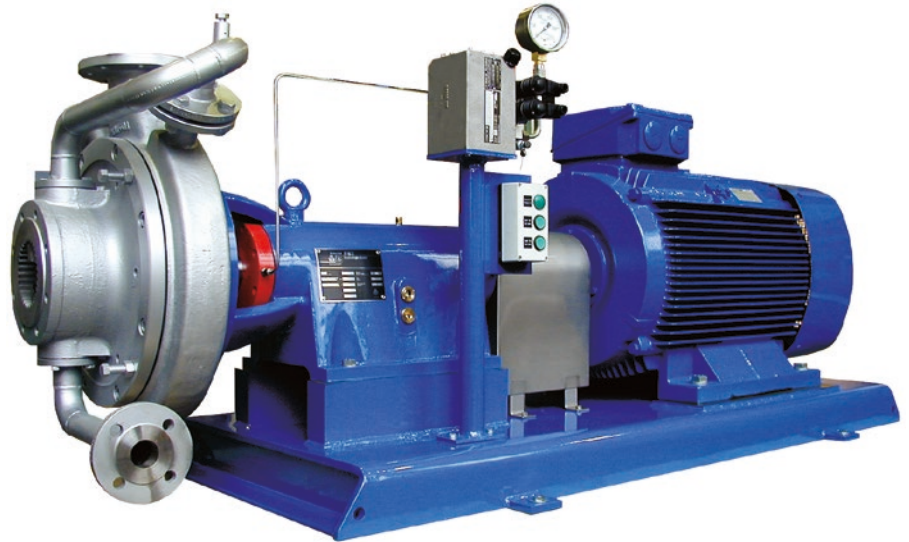


# SUPRATORON BITUMEN-HOMOGENISERS

Supratoron Bitumen Homogenisers are designed for the production of polymer modified bitumen and have been successfully in use for more than 25 years. Due to their special design the processing of polymers in bitumen is very efficient, especially in the form of pellets. The machines have successfully been employed for many decades and are based on a three-stage rotor/stator tool.

**The features of the Supratoron Bitumen Homogenisers 349-5.03, 449-5.03 and 549-5.03 are unique:**

- Special tool geometry for different sorts of bitumen, particularly advantageous in single pass processes with high polymer concentration
- Three-stage rotor/stator tool for the intrusion, shearing/ grinding and dispersion especially of polymers in the form of pellets and similar substances
- Adjustment of the gap for energy-saving starts by hydraulic and axial shaft movements
- The standard adjustment open/ close for start, shut down and pump over can be completed with a stepless hydraulic setting
- The strong pumping effect of the machine supports the supply pump and mostly supersedes it
- High stability due to selection of appropriate tool material



## Operating principle

### Step 1:

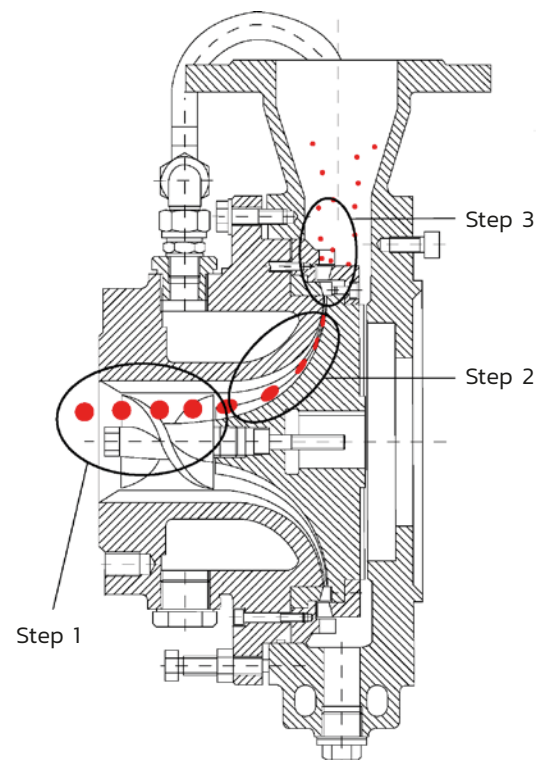
The drawing-in of high viscous bitumen-polymer premix is supported by the helical rotor attachment

### Step 2:

Disintegrating of polymer granules by grinding and squeezing along the progressively curved shearing gap (between rotor and stator)

### Step 3:

The required fine dispersing performance and homogeneity of bitumen is provided by the gear ring rotors – commonly in single pass operation



# SUPRATON BITUMEN-HOMOGENISERS

Technical Data				
Type		349-5.03	449-5.03	549-5.03
Tool Set	Progressively-turned, wedge-shaped shear gap and toothed ring rotor-stator system			
Materials (DIN)	1.4408, 1.2288, 1.4112			
Bearing	Splash lubrication			
Speed	rpm	4,800	3,000	2,000
Drive	kW	45-75	90-160	160-300
Throughput rate	m <sup>3</sup> /h	≤ 15	≤ 30	≤ 60
Polymer Content	%	3-20 mass		
Heating Jacket	Heatable up to 240 °C			
Working Gap	Hydraulically-actuated axial shaft movement			
Gap Setting	Standard: open-closed, Optional: stepless hydraulic setting available			

## SERVICE UNLIMITED

Supraton Bitumen Homogenisers are at work for our customers around the world. And our service is there as well: We are at your side with consultation and service to help and give advice - throughout your project.

### Our Services

- Process consultation for the engineering and operation of plants
- Assembly and commissioning
- 24-hour spare part service
- Service and repair
- Test and rental machines



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