ViscoTec – Newsletter 01 / 2010
Product information and advantages of Degassing unit ViscoTreat-Inline

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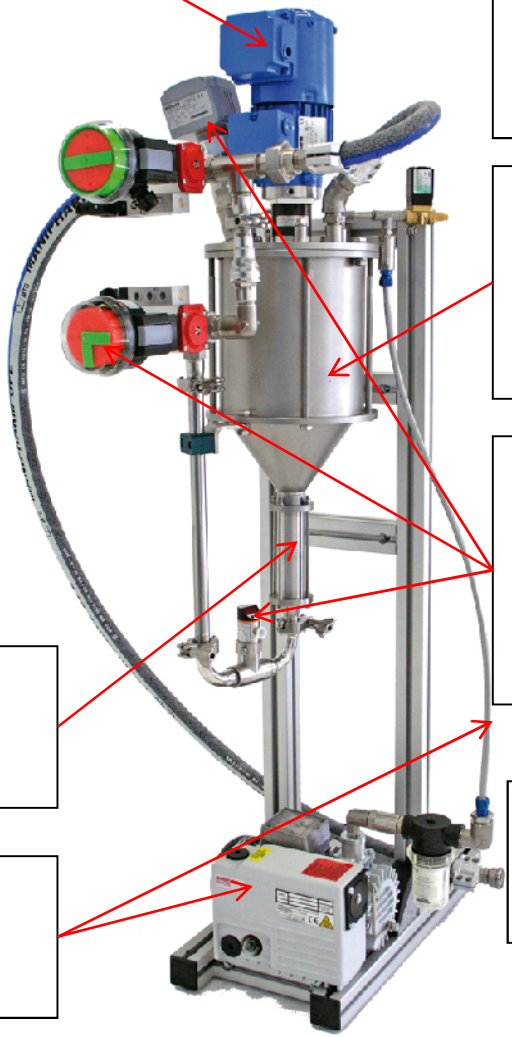
ViscoTreat-Inline for degassing:

Motor unit for flexible shaft- / rotor axis

General features:
⇒ General advantages of ViscoTec-technology
⇒ Automated process easy to integrate at customer process and control
⇒ Only system in the world which could dearate continuously without production-stop. ViscoTec-technology makes it possible to suck out the fluid of the vacuum.
⇒ Compact degassing unit for getting complete gas- and air-free fluids
⇒ Easy to integrate, because of modular ViscoTec-philosophy
⇒ At the same time the ViscoTreat-Inline is a buffering system



Easy to integrate and combine:
⇒ Combination with ViscoMT-unit for product supply Pressure control function
⇒ Dispensing and dosing unit e.g. ViscoPro-system

Degassing tank unit:
⇒Special way of filling in the fluid to get the best degassing results
⇒ Separate motor and axis-unit for the stirring device
⇒ Tank content: 3 liters

Fully automated and controlled process:
⇒ Level sensor for control refilling from bucked into tank
⇒ Pressure sensor for controlling important process parameters
⇒ Ball valves for controlling the filling or circulation process

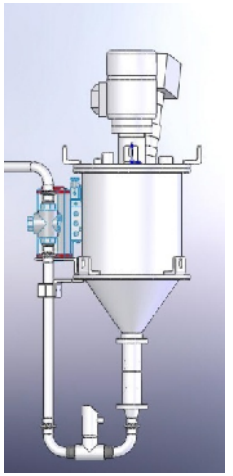
Rotor / Stator- principle:
⇒ Through the rotor –stator principle (sealed chambers) sucking out from the vacuum is possible.

Vacuum pump- unit:
⇒ Minimum degassing pressure 2 mbar
⇒ Automatically controlled

Several process options:
⇒ Only circulation of the fluid in the system
⇒ Continuous degassing and supplying of the dosing pump

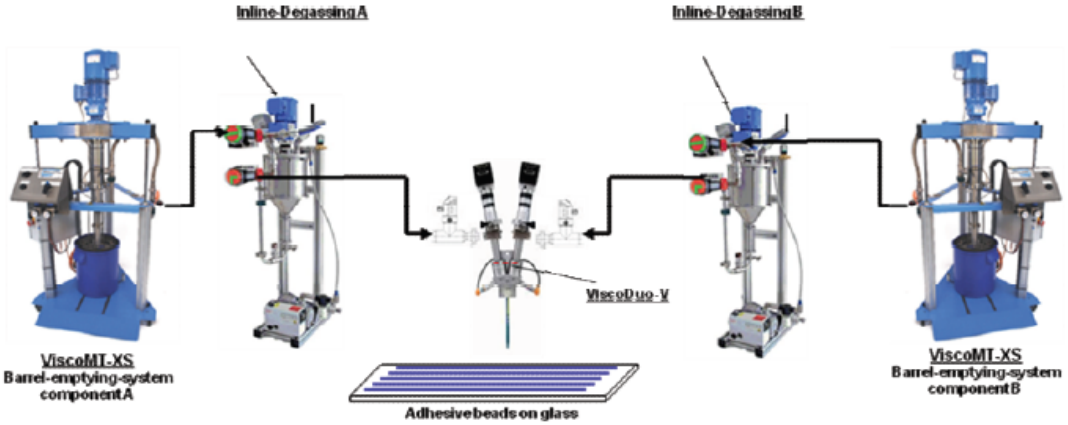
Advantages:

⇒ Only system and technology in the world which could suck-out from the vacuum to have a continuous process.
⇒ Easy to integrate in customers production line or to combine with other modular ViscoTec-device
⇒ Several features in one system: degassing unit, buffering system and product supply system.
⇒ Compact degassing unit for viscous and high-viscous fluids.
⇒ Valve-free pump system
⇒ Excellent dosing results, excellent emptying results at product supply system (barrel-emptying-system)
⇒ Cost situation: shorter time at barrel change, no pre-degassing necessary; barrels could be emptied completely (sucked air will be degassed anyway); buffering function: continuous process saves costs



Markets and Possibilities:

⇒ A wide range of adhesives or silicones could be degassed with the help of the ViscoTreat-Inline.
⇒ Potential markets and application are for example in the automotive or electronics industry.
⇒ Especially for small dosing quantities in the electronics it is very important to have air- and gas-free adhesives or silicones.
⇒ Beside automotive and electronic all kind of industries are interesting, where it is absolutely necessary to have gas-free-fluids, e.g. also at the solar industry (wafer manufacturing), where air-bubbles could cause a lot of costs at the precise wafer-sawing-process.



Examples of projects / references with the ViscoTreat-Inline:

Fluid type:	Application:	Customer:
Soldering paste	Automotive parts, gear parts	ZF
Technical greases	Grease dosing at doors-manufacturing	ISE / Automotive company
Silicones (1-and 2-component)	Sealing of automotive electric parts	Bosch
Adhesive (2-component)	Solar wafer cutting process / ingot bonding	Solar companies (worldwide)
Etching gel / paste	Solar cell manufacturing process	Solar companies (worldwide)