



I Applications

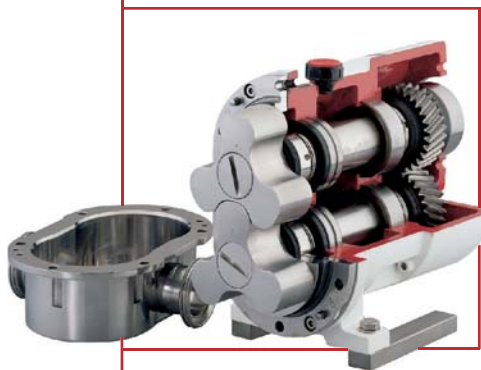
The TLS pump is a positive displacement lobular rotating pump of a sanitary design providing high performance and maximum reliability with a reduced size. This pump is perfect for managing all kinds of fluid, of either low or high viscosity, in the food-processing, dairies, and cosmetics industries, as well as for filtering and bottling applications. Fluids containing fragile solids such as junket, can be pumped without damage thanks to the specially designed lobes.

I Operating principles

The TLS pumps basically consist of two lobe rotors which rotate synchronously inside a casing without touching each other. As the rotors rotate, the spaces between the lobes and the casing are successively filled with fluid, which is transported to the discharge nozzle with a fixed amount of displacement. The pumped fluid forms a continuous stream thanks to the tolerances between the lobes and the pump casing, thus ensuring an efficient pumping.

I Design and features

- Close-coupled construction.
- Casing and cover in stainless steel investment casting.
- Tri-lobe rotors.
- Health-safe design of the attachment of the rotors.
- DIN connections (standard).
- Sanitary mechanical seals.
- Easy cleaning and maintenance.



I Materials

Parts in contact with pumped media	AISI 316L
Other parts	AISI 304
Support	GG-15
Gaskets (standard)	EPDM (FDA)
Mechanical seals (standard)	C/SiC/EPDM
Internal surface finish	Ra < 0.8 µm
External surface finish	polished



