

## T.Sano smooth design

News about ACHEMA:

The TORNADO® Smooth hygienic rotary lobe pump: now also heated

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The TORNADO® rotary lobe pump T.Sano® recently generated buzz with the new smooth design, now available. This smooth housing, with no unnecessary corners, edges or dead spaces, is dirt- and dust-resistant and easy to clean. Because not only the materials that contact the media and the cleanability of the pump chamber are subject to strict requirements, a great deal of importance is attached in numerous production processes to hygiene and thus the outer contours of the components as well.



The TORNADO® rotary lobe pump T2 series featuring an all-metal design is generally useful for processes with high hygienic requirements due to its dead space-free interior and lack of oil. This pump is driven by a toothed belt drive that simultaneously synchronises the pistons. This technology is absolutely oil-free and nearly maintenance-free. The installer can replace the toothed belt in the field in just a few simple steps.

For maintenance, the pistons and mechanical seals can be replaced without having to remove the pumps from the piping. Replacing the rotary lobes is especially simple, because the pistons are not screwed to the shaft, but rather fixed with taper lock ringsets easily accessible from the outside. This external fixation eliminates the usual screw union on the shaft and the pump room is completely free of dead space. Therefore, the pump room is 100% easy to clean and achieved the best results in the EHEDG certification.

The pistons, which can be independently installed and removed, also speak to the ease of maintenance. They are fitted onto the shaft together with mechanical seals with a cartridge design. They are positioned with an installation and mounting gauge integrated in the front cover. NETZSCH offers this technology with the comfort of “full-service-in-place”.

Since numerous media like fats must be conveyed at a consistent temperature, the compact TORNADO® Smooth can now also be heated to maintain the desired temperature throughout various process steps. The pulsation is kept as low as possible with wing or multi-lobe helical rotors.

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