

## TORNADO® Rotary Lobe Pumps

T.Sano™ – The new face in the food and beverage industry



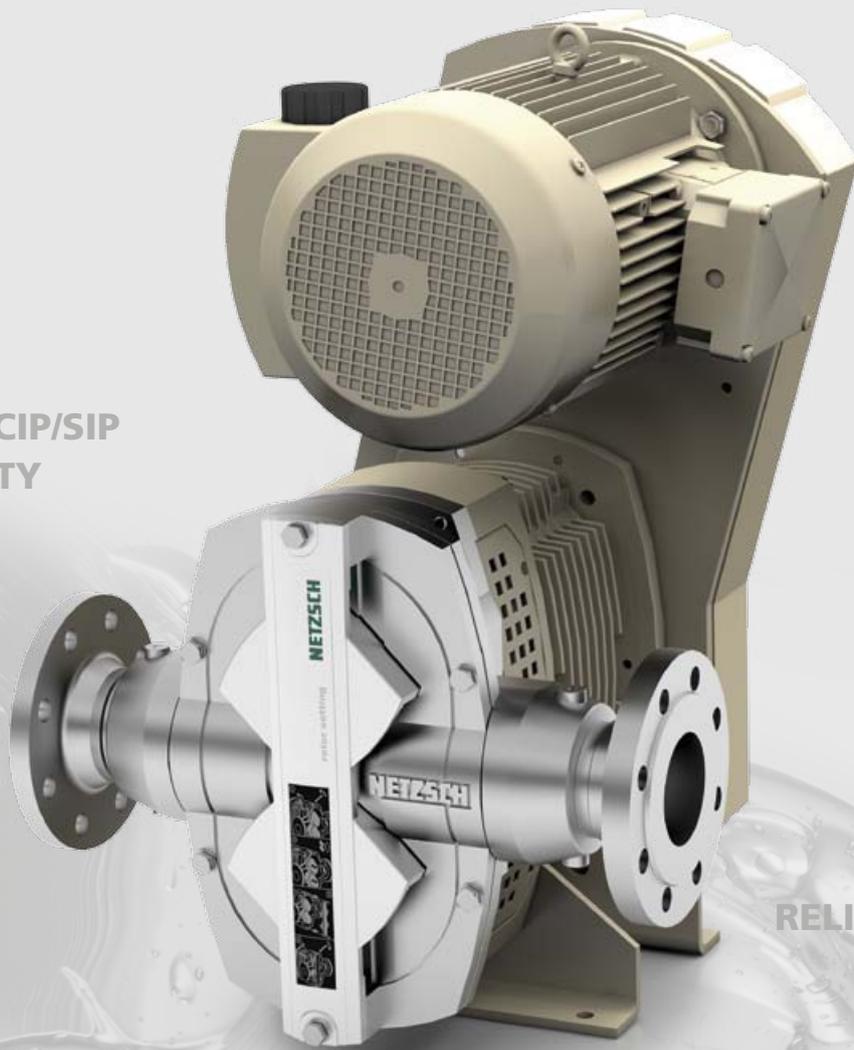
# TORNADO® Rotary Lobe Pumps T.Sano™

Designed for applications in the food and beverage industry

**NO DEAD AREAS**

**SERVICE FRIENDLY**

**EXCELLENT CIP/SIP  
CLEANABILITY**



**ECONOMIC**

**RELIABLE**



## The most suitable solution for each application

The demands in applications in the food and beverage industry require various pump systems. NETZSCH rotary lobe and progressing cavity pumps, as well as as well as grinders, provide the optimum solution for your process.

For some applications the use of either rotary lobe or progressing cavity pump is potentially possible. NETZSCH as producer of both pump technologies is ideally positioned to offer impartial and qualified advice, which pump technology is best suited to your application.

## COMPACT

## GENTLE MEDIA HANDLING AND LOW PULSATION

# TORNADO® T.Sano™ – the right choice for your application

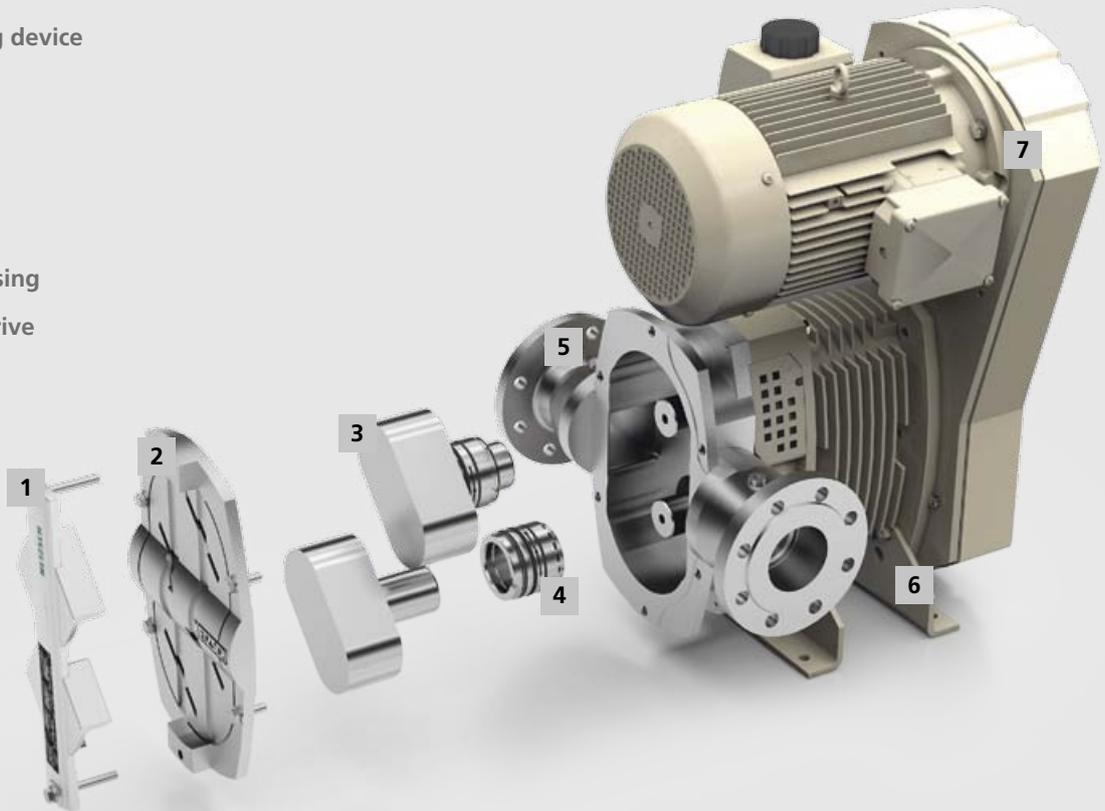
NETZSCH TORNADO® Rotary Lobe Pumps T.Sano™ – Operating Parameters

Range	Model	Flowrate at nominal speed range (theoretical)	Speed (nominal) recommended range	Flowrate at max. speed (theoretical)	Speed max.
		appr. m <sup>3</sup> /h	rpm	m <sup>3</sup> /h	rpm
T2	08/45	<b>8 to 39</b>	100 to 500	46	600
T2	06/70	<b>12 to 58</b>	100 to 500	70	600
T2	08/100	<b>16 to 82</b>	100 to 500	99	600
T2	06/140	<b>24 to 119</b>	100 to 500	142	600



Discharge pressure (max.) continuous/ intermitted	Displacement (theoretical)	Flange connections	Pump head materials (wetted)
bar	l/r	mm	material
8/10	1,27	80	all metall
6/8	1,90	100	all metall
8/10	2,74	125	all metall
6/8	3,95	125	all metall

- 1** Rotor setting device
- 2** Front cover
- 3** Rotor
- 4** Seal
- 5** Rotor case
- 6** Bearing housing
- 7** Tooth belt drive

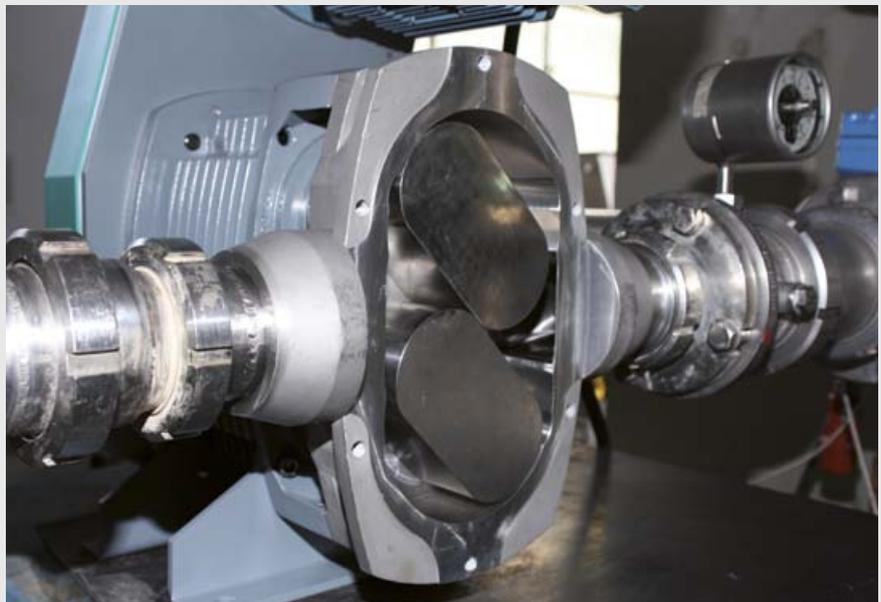


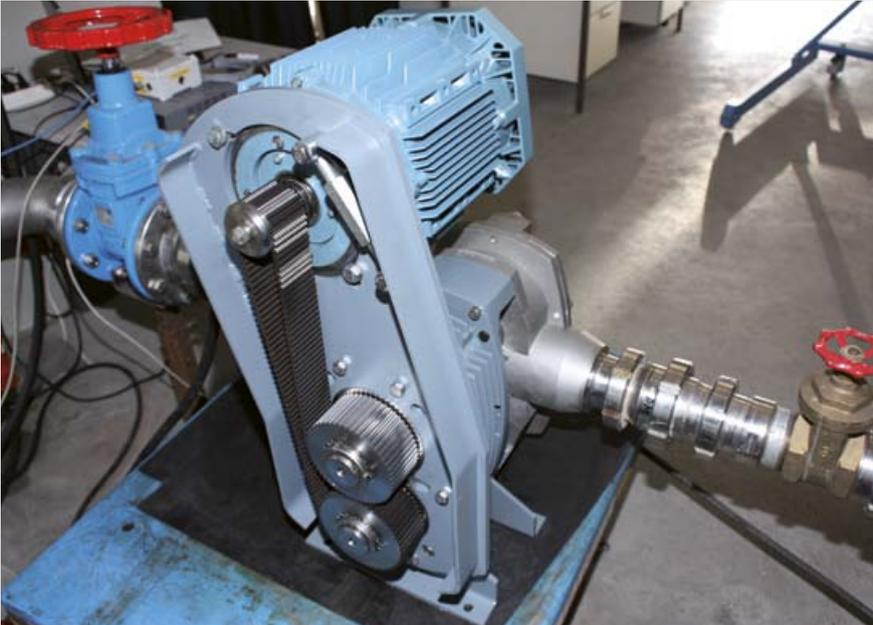
## TORNADO® Rotary Lobe Pumps – totally reliable everywhere

Concentrated fruit juice. Flowrate  
appr. 20 m<sup>3</sup>/h at 2 bar. Temperature  
appr. 8°C. Pump is run in batch  
operation and periodically cleaned



Special pump head design to minimize  
pulsation and prevent dead areas. Lobes  
are fixed outside pump housing.





Synchronisation and drive via maintenance free tooth belt drive. Compact pump runs completely oil free.



Mobile pumps: For applications in the food and beverage industry, where mobility and flexibility are required. Mobile units are designed to meet customer specification and requirement.

The NETZSCH Group is an owner-managed, internationally operating technology company headquartered in Germany.

The three Business Units – Analyzing & Testing, Grinding & Dispersing and Pumps & Systems – provide tailored solutions for highest-level needs. Over 2,500 employees at 130 sales and production centers in 23 countries across the globe guarantee that expert service is never far from our customers.

The NETZSCH Business Unit Pumps & Systems offers with NEMO® progressing cavity pumps, TORNADO® rotary lobe pumps, screw pumps, macerators/grinders, dosing systems and equipment custom built and challenging solutions for different applications on a global base.

NETZSCH Rotary Lobe Team

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