

I Application

TLS Alminox pump is a positive displacement lobe rotor pump of a reduced size that offers high performance and reliability.

The Alminox lobe rotor pump is designed to pump olive mass. The main application is the transfer of the olive mass from the thermobearer to the decanter and the transfer of alperujo from the thermobearer to the decanter.

I Operating principle

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 the product and a fixed amount of the displaced product is conveyed to the discharge nozzle. The pumped product forms a continuous flow thanks to the tolerances between the lobes and the pump casing, thus, ensuring an efficient pumping.

I Design and features

Close-coupled construction.

Stainless steel investment casting casing and cover for work with abrasive media.

Wing lobes for work with abrasive media.

Sanitary design of lobe fixation.

Standard connections: DIN.

Sanitary mechanical seal.

Easy cleaning and maintenance.

I Materials

<i>Casing and seal cover</i>	<i>AISI 420</i>
<i>Rotors</i>	<i>AISI 440C</i>
<i>Shaft seal and screw</i>	<i>AISI 316L</i>
<i>Support</i>	<i>GG-25</i>
<i>Gaskets (standard)</i>	<i>NBR</i>
<i>Mechanical seal (standard)</i>	<i>SiC/SiC/NBR</i>

I Options

Gaskets: FPM (Vitón®).

Motor shroud: AISI 304.

Various types of motors and protections (geared motor with frequency converter, pulley drive).



SOURCE OF SOLUTIONS

motralec

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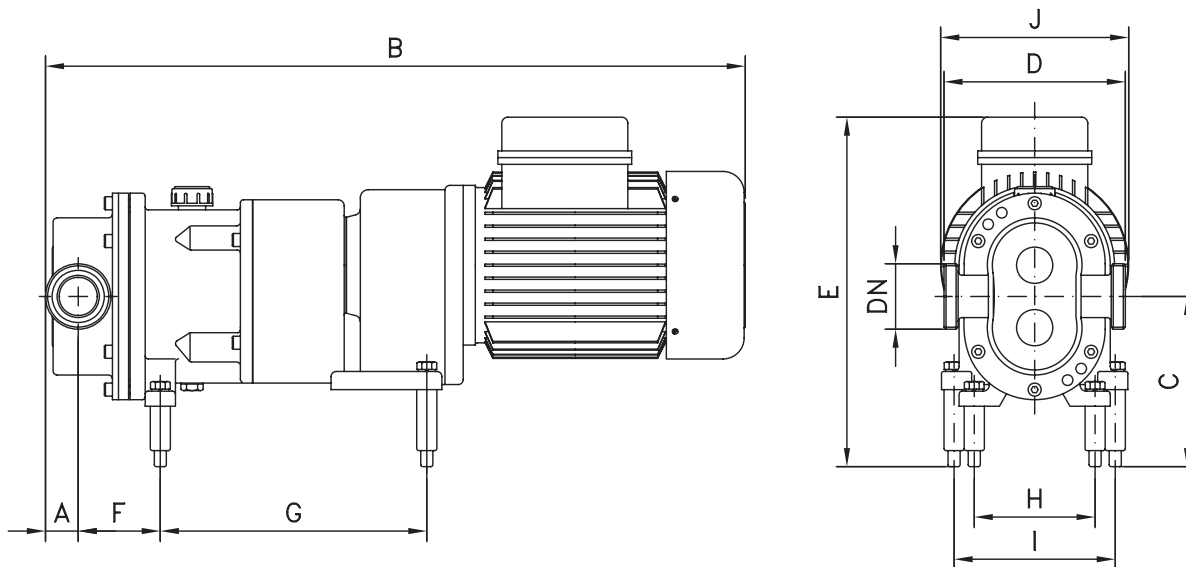
I Technical specifications

Max.flow	150 Tn/day	27,5 US GPM
Max.pressure	5 bar	73 PSI
Max.working temperature	100 °C	194 °F
Max.speed	123 min ⁻¹	



DECANTER Tn/day	PUMP TYPE	CONNECTIONS		POWER		VOLTAGE V	SPEED rpm	FLOW (1) kg/h	HEAD m	CODE
		inlet	outlet	HP	kW					
90	TLS 3-80 AL	80	80	3	2,2	220/380	75	3.750	40	D2234-01402203
120	TLS 3-80 AL	80	80	4	3	220/380	104	4.950	40	D2234-0110403003
140	TLS 3-80 AL	80	80	4	3	220/380	123	5.800	40	D2234-01403003

(1) Flow depending on the density of the mass and the water content.



TYPE	POWER [kW]	WEIGHT ⁽¹⁾ [kg]	DN	A	B	C	D ⁽²⁾	E	F	G	H	I	J
TLS 3-80	2,2	103	80	55	865	227	256	385	108	427	160	155	203
	3	108	3"										

(1) Weight of the pump with the drive unit.

(2) Dimensions with DIN 11851 connections.



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