Progressive Cavity Pump with Feeder

Kiber NTEA

I Application

The NTEA pump has a very compact and robust design and it is intended for pomace transfer. This pump is supplied with a "bridge breaker" to provide a correct entry of the product to the feeder screw.

I Operating principle

Friction between the rotor and the stator creates a vacuum in the inlet area thereby helping the entry of the product into the pump.
The turning motion of the rotor makes the cavities between the rotor and the stator move forward and transport the product to the outlet.
The feeder consists of a rotating blade actuated by a gear motor, it transports the product to the feeder screw avoiding the formation of a "bridge" that impedes the pass of the product to be pumped.

I Design and features

Highly versatile.
Easy to clean.
Hopper with drain.
Robust construction.
Motor 3 ph 400/690 V, 50 Hz, IP-55.
Helical-bevel gear units.
Pump mounted on trolley.
CE electric panel with ON/OFF switch, inverter and emergency stop push button.
Standard connection: spherical coupling.
Rotary wheels with brakes.
Red painted RAL3003.

Hopper with feeder

Control panel

Level sensor

I Materials

Parts in contact with the media	*AISI 304*
Lantern	*Carbon steel*
Stator	*NBR (special composition for these applications)*
Packing gland	*PTFE*
Surface finish	*blasted*

I Options

Liquid detector Max / Min.
Remote control.
Frequency converter (Control Range).
Connections: Garolla, Clamp, Flanges, DIN, etc.
Electromagnetic brakes in motor.
St.St. electric panel.

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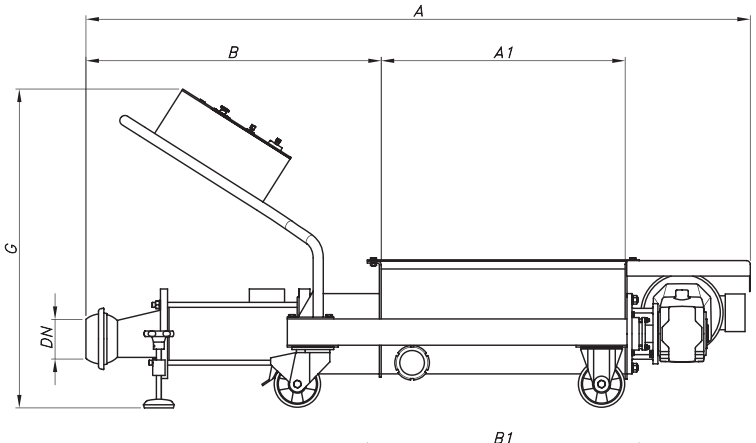
I Technical specifications

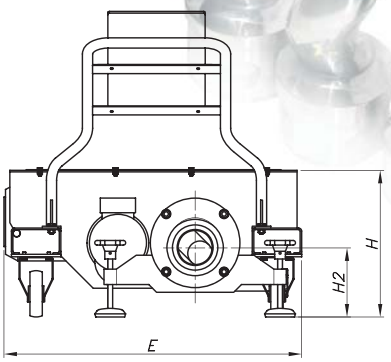
Max. flow	*55 Tn/h*	*242 US GPM*
Max. working pressure	*6 bar*	*87 PSI*
Max. working temperature	*85 ºC*	*185 ºF*

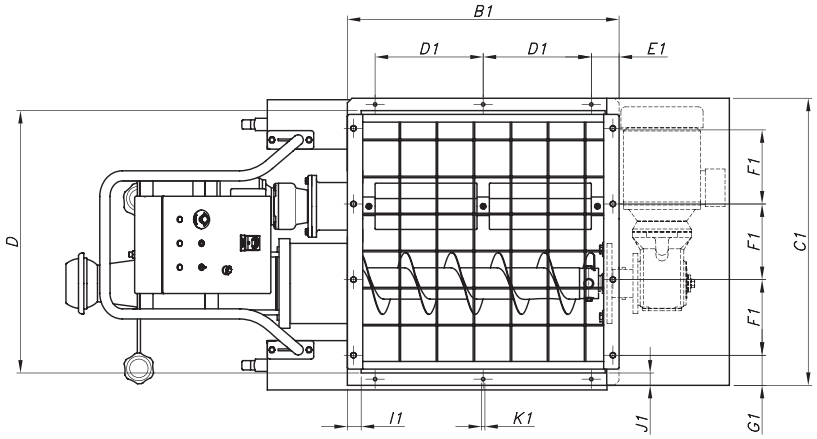
Type	Flow[1] [Tn/h]	Speed [rpm]	Power [kW]	Feeder		Weight [kg]
				Speed [rpm]	Power [kW]	
NTEA -80	10 – 18	185	5,5	60	1,1	365
NTEA-100	20 – 38	169	7,5			415
NTEA-120	40 - 55	150	15		2,2	570

(1) Nominal flow for destemmed grapes at 2 - 4 bars

I General dimensions







Type	DN	A	A1	B	D	E	G	H	H2	Code
NTEA-80	120	2150	790	955	850	950	1000	475	225	D4108-2519005510
NTEA-100	150	2250		1060					210	D4110-2517007511
NTEA-120	150	2930		1240	925	1025		480	205	D4412-2516015017

Type	Hopper								
	B1	C1	D1	E1	F1	G1	I1	J1	K1
NTEA-80	880	930	350	90	245	97,5	45	40	11
NTEA-100									
NTEA-120		1005		120	255	120			

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