

INDUSTRIAL LINES FOR CITRUS JUICE EXTRACTION

BASIC LINE

**PRODUCTION LINE FOR FRESHLY SQUEEZED
AND BOTTLED CITRUS JUICE FOR A
PRODUCTION UP TO 120 GAL/ HOUR**

**AUTOINSTALABLE
FOR MEDIUM PRODUCTIONS**



PRODUCTION LINE FOR FRESHLY SQUEEZED AND BOTTLED CITRUS JUICE FOR A PRODUCTION OF UP TO 120 gal / HOUR (AUTOINSTALABLE)

1 TECHNICAL DESCRIPTION

Automatic equipment for industrial processing of all kind of citrus (lemons, oranges, pommegranate, mandarines, grapefruit...) to produce freshly squeezed juice using a rotating mechanical juicing unit. The necessary parts for the correct operation of the machinery are described below.

1.1 LIFTING UNIT

This lift is 7ft 3in long, made of AISI-304 stainless steel with 9.8in wide scoops, actuated by an aluminium alloy gear motor unit and is operated from the control panel through an electronic speed shifter so that optimal feed is achieved to the squeezing area. It has a large AISI-304 stainless steel fruit collecting hopper.

1.2 TRANSPORTER UNIT

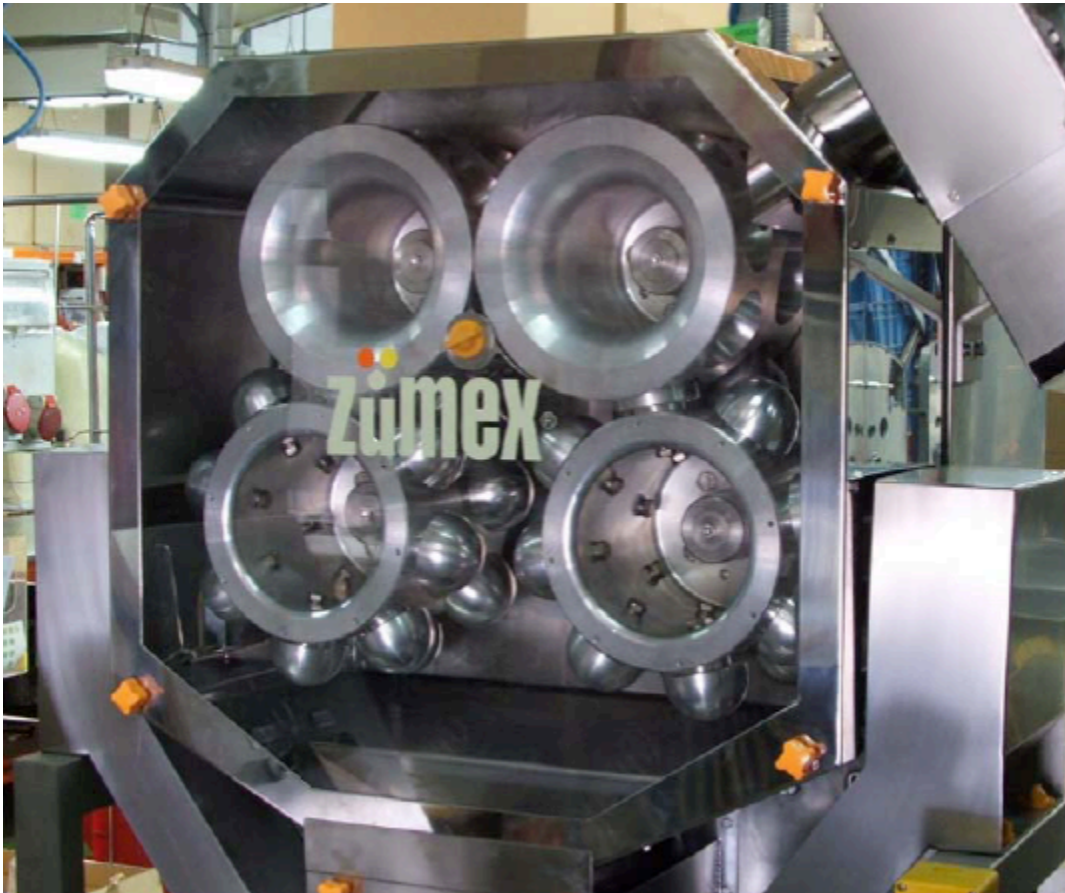
This is a vertical transporter which returns extra fruit to the AISI-304 stainless steel hopper. It has an aluminium alloy gear motor controlled together with the lift, nylon transporter rollers with AISI-304 stainless steel cores and food-safe silicone transport belt.

1.3 JUICER HEAD

This AISI 304 stainless steel juicer head has a removable front for cleaning the heads, a shiny polished stainless steel outside frame and a control window made of food-safe transparent plastic. It is actuated by an aluminium alloy gear motor unit with an intermediate gear train lubricated by pulleys and controlled by the control panel. Its self-moving and adjustable height structure consists entirely of AISI-304 stainless steel.

The juicer heads are made of food-safe aluminium alloy and an AISI-304 stainless steel conical bushing for facilitating rapid set-up and takedown (change of juicer Kit).

The filter has 0.08" perforations and a rotating strainer with a removable front actuated by an independent gear motor unit. This filter evacuates seed and pulp remains to a container. It is made of AISI-304 stainless steel with the leading edges of the strainer made of food-safe silicone.



1.4 PEEL CART

100 gal AISI-304 stainless steel peel cart with a large tip-up door and wheels for facilitating movement.

1.5 CONTROL PANEL

Electric control panel for operating all of the equipment.

1.6 TECHNICAL SPECIFICATIONS OF THE ZUMEX Z-450

Juicing Kit (series) : 8 cavity intermediate Kit (standar)

Production : 100 - 120 gal / hour

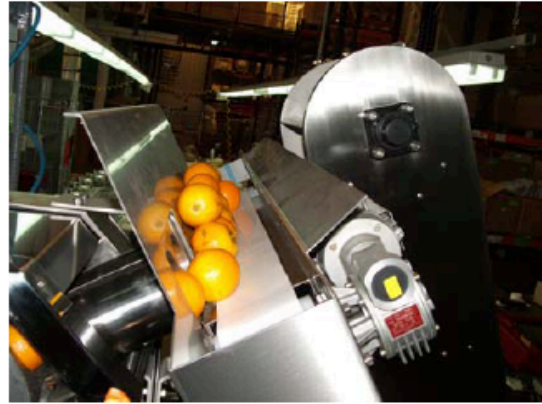
Diameter of fruit : minimum Ø2.2 in ; maximum Ø3.8 in

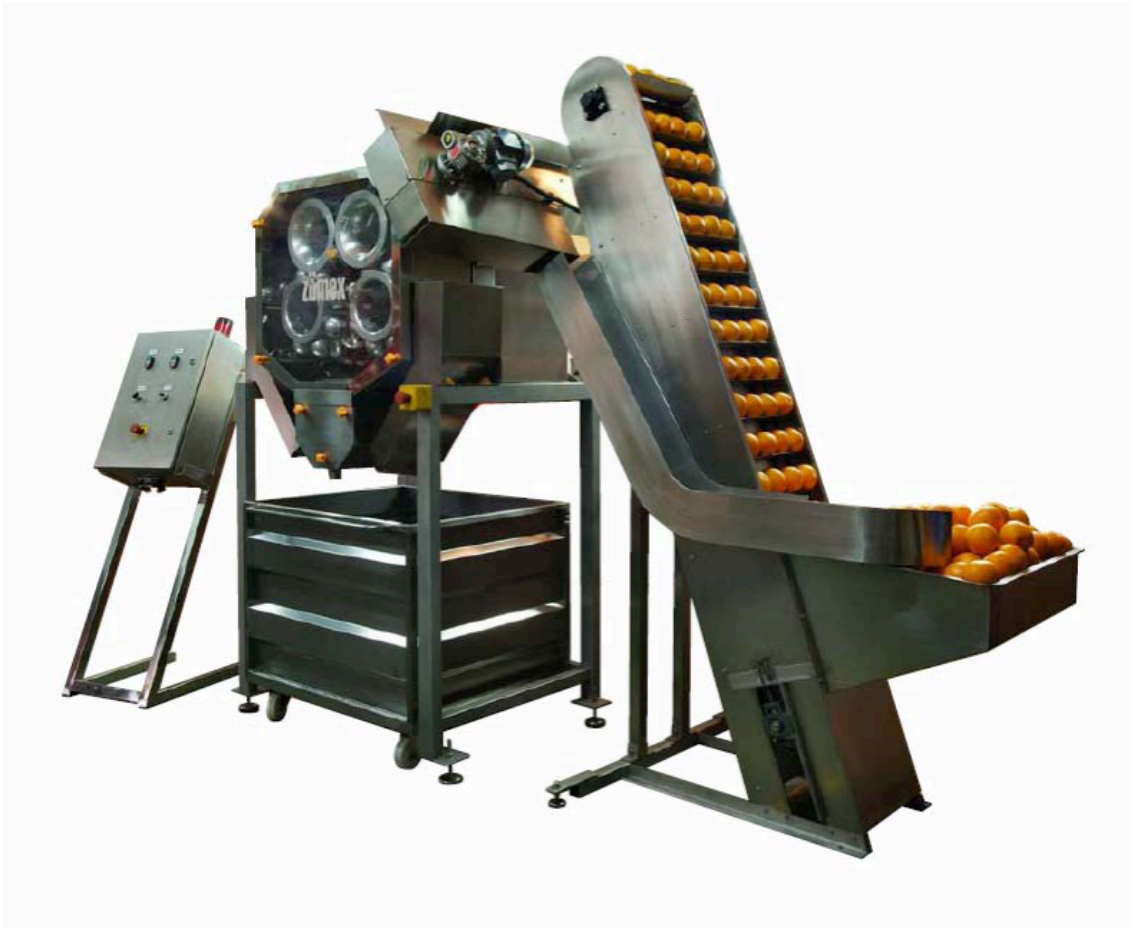
Weight : 1540 Lb (approximate)

Measurements (H x L x W) : 7.5ft x 8.5ft x 3.5ft

Consumption : 2,010 W

Voltage : 110 V - 220V – 380 V 50-60 Hz. // 380V





ESTIMATED PRODUCTION OF THE LINE				
(ESTIMATE FOR CITRUS WITH 40% JUICE YIELD)				
Citrus size Ø	Head	Citrus per minute	Pounds per hour	Gallon per hour
2.2" – 2.8"	KIT 9	150	1988	95
2.5" – 3.3"	KIT 8	133	2524	120
3.0" – 3.8"	KIT 7	117	5154	247

¡ WARNING !

For proper processing of fruits in the installation, the fruit should be previously measured and cleaned, according to the size of the squeezing kit installed in the machine.

1.7 SEMIAUTOMATIC FILLER ZUMEX ZL-1000.

- **FRAMING:** Made of AISI-304 stainless steel with 4 protective doors over the

framing made of Inox 304. and polycarbonate transparencies in accordance with E.E.C. directives.

- **TRANSPORT OF PACKAGING** : 3.5” hinged belt mounted on a 6.7” long AISI-304 profile with adjustable-width lateral guides.
- **BOTTLE CENTRING DEVICE** : Manually adjustable universal double clamps which centre the mouths of the bottles with the axes of the nozzles during dispensing. Anti-drip channel for when the bottles are passing through.
- **NOZZLE** : 1 AISI-316L stainless steel completely unblocked nozzle for the passage of juice with pulp with Teflon guides and viton sealing and rapid channel changing. Pneumatic anti-drip system.
- **NOZZLE MOVEMENT** : Automatic and programmable 2-option system with speed adjustment system and raising of nozzles during measuring.
- **33 gal AUXILIARY TANK** : This is a decanting tank and an Inox 304, 33 gal capacity, hinged cover.
- **DISPENSING UNIT** : Automatic dispensing adjustment system, complete mechanical actuation with digital indicator in cubic centimetres (cc). Dispensing precision of over 99.5%, regardless of product viscosity and bottling speed.
- **CONTROL PANEL AND OPERATION** : Made of INOX AISI-304 steel joined at one side of the main framing with IP 65 protection.

1.8 TECHNICAL SPECIFICATIONS OF THE ZUMEX ZL-1000.

Nozzle : 1 Aisi-316L

Weight : 770 Lb (approximate)

Measurements (h x l x w) : 3.3 ft x 7 ft x 6.5ft

Consumption 1.000 W

Voltage : 110 V - 220V - 380V // 50-60



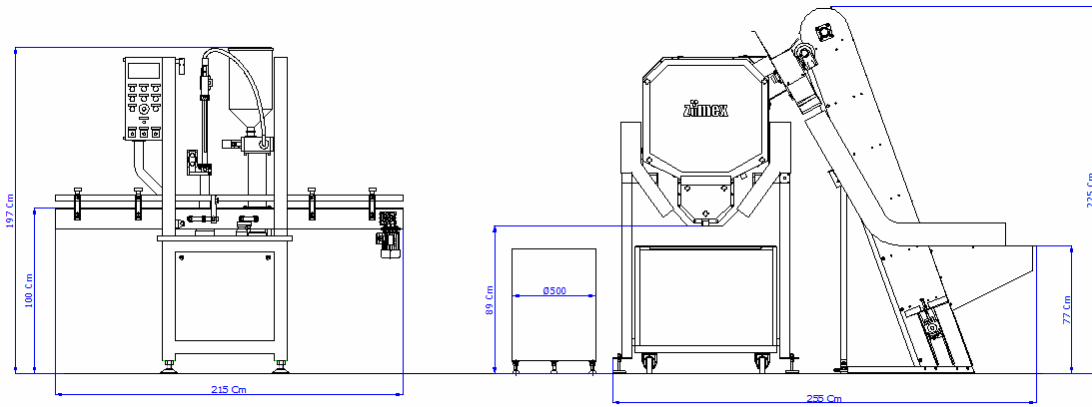
ESTIMATED PRODUCTION ZUMEX ZL-1000		
Bottle 8 ½ oz	15 units / minute	59 gal / hour
Bottle 17 oz	12 units / minute	95 gal / hour
Bottle 0.25 gal	10 units / minute	158 gal / hour
Bottle 0.5 gal	7 units / minute	222 gal / hour

2 ACCESSORIES

7 CAVITY JUICING KIT (fruit diameter 3.0” – 3.8” – 247 gal / Hour)

9 CAVITY JUICING KIT (fruit diameter 2.2” – 2.8”– 95 gal / Hour)

- 2 male food-safe aluminium pressing units with 2 rows of 7 or 9 hubs each, stainless steel fixed bushing, watertight V-Ring gasket and stainless steel bolts for fixing the bushing and hubs to the pressing unit.
- 2 female food-safe aluminium pressing units with 2 rows of 7 or 9 hubs each, stainless steel fixed bushing, watertight V-Ring gasket and stainless steel bolts for fixing the bushing and hubs to the pressing unit.
- 1 feed tube for the stainless steel Kit.



ANNEX 1 : OPTION MANUAL FILLER

