



TECNA ISO-P

**FILLING SYSTEM FOR BEVERAGES
IN PET BOTTLES**



WORKING PRINCIPLE:

The TECNA ISO-P is the electro-pneumatic filling solution suitable for the filling of carbonated and non carbonated beverages, as well as for the hot filling of beverages into PET bottles using a NECK HANDLING bottles distribution into the filling machine. The machine is equipped with 1 mt of air conveyor that is connected to Neck handling inlet star.

The bottle coming from Air conveyor is lifted onto the filling valve using a pneumatic lifter equipped with neck-handling device. Single CO2 empty bottle rinsing, can be performed according to filling recipes selected on the touch-screen by operator. After bottle pressurization the filling valve will open and the product flows along the bottle wall, thus allowing gentle and no

foam filling. The inflowing product displaces the gas in the bottle, which is returned to the filling tank through the vent tube. When the level in the bottle comes to close the vent tube the filling will stop and the filling valve will close again. After a settling phase, the snifting valve reduces the pressure in the bottle neck (can be multiple stages) and than the container leaves the filling machine.

APPLICATIONS:

Filling of carbonated beverages (CSD, Carbonated Water, Beer or RTD) in PET bottles.

OUTPUT RANGE:

Filler from 20 to 70 valves, depending on the product to be bottled, this system can fill from 2.000 up to 30.000 bottles per hour.

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DESIGN FEATURES:

- Filling valves electro-pneumatically controlled;
- Short-tube filling system
- Precise fill level definition with quick-change insertable vent tube;
- Counterpressure filler working by level;
- Quick change over times because the system is equipped with Bottle NECK HANDLING Distribution System (The machine is not adjustable in Height);
- Hot and Cold filling possibility;
- Filling Valves mounted outside the product filler tank;
- No springs in contact with product;
- Filling phases managed by pneumatically driven PTFE membrane valves;
- No part of the filling valve needs replacing during format changeovers;
- Independent movement of centering bell driven by roller;
- Wide production range: the broad choice of pitches and sizes allows customers to select the most suitable model;
- Rotary distributor and all parts contacting product or gas are

made of stainless steel Aisi 304 or higher grade;

- Manifoldd snifting circuit involved in CIP step;
- Cleaning in the closed circuit via CIP Dummy Bottles;
- Spray Balls into filler tank for optimal cleaning and fast product change-over;
- Easy & intuitive touch-screen operation;
- Filling Steps can be individually set and saved in the PLC for each product or bottle;
- Bottle Rinsers can be integrated;
- Up to 2 cappers can be integrated.

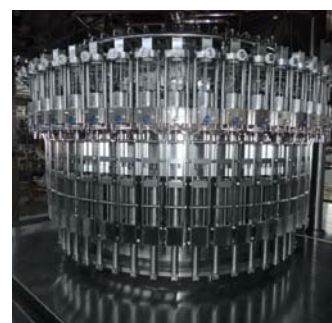
MODELS: TECNA ISO P.

USER BENEFITS:

- **Versatility**, this filling system is suitable for a wide range of product from Water, CSD Beer and RTD.
- **Flexibility**, change over of different product or CO2 contents is done quickly, easily



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and it is reproducible by working recipes stored on PLC.

- **Quick change over times**, Short change over of different bottle size (only the capping area is necessary). The entire machine is equipped with NECK HANDLING System.
- **Hygienic bottling conditions**, no dynamic gaskets in contact with product, the valve is sealed by a simple PTFE membrane valves.
- **Easy maintenance**, the machine is well accessible so that all maintenance and service job can be done easily.

- **Product Quality**, low oxygen pick up by CO2 rinsing of empty bottle ensures high product quality during the S.L.

ADDITIONAL EQUIPMENT:

- **ULTRACLEAN BASE FRAME**. Upon request, the base frame is available in ultraclean version, characterized by the double slope of the upper surface. This special design guarantees complete rapid draining of all product & water residue.
- **MODEM**. Upon request, remote maintenance possibility.

Filling System mod.TECNA ISO-P				
Machine Ø (mm)	Machine Pitch (mm)			
	150,72	129,20	125,60	113,04
960	20	-	24	-
1152	24	28	-	32
1440	-	-	36	40
1800	-	-	45	50
2160	-	-	54	60
2520	-	-	63	70

Monoblock configuration with Capper				
Machine Ø (mm)	Machine Pitch (mm)			
	150,72	129,20	125,60	113,04
960	20/5	-	24/6	-
1152	24/6	28/7	-	32/8
1440	-	-	36/6	40/10
1800	-	-	45/9	50/10
2160	-	-	54/9	60/15
2520	-	-	63/9	70/15

Triblock configuration with a Rinsers and Capper				
Machine Ø (mm)	Machine Pitch (mm)			
	150,72	129,20	125,60	113,04
960	20/5	-	24/6	-
1152	24/6	28/7	-	32/8
1440	-	-	36/6	40/10
1800	-	-	45/9	50/10
2160	-	-	54/9	60/15
2520	-	-	63/9	70/15



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All data are indicative.