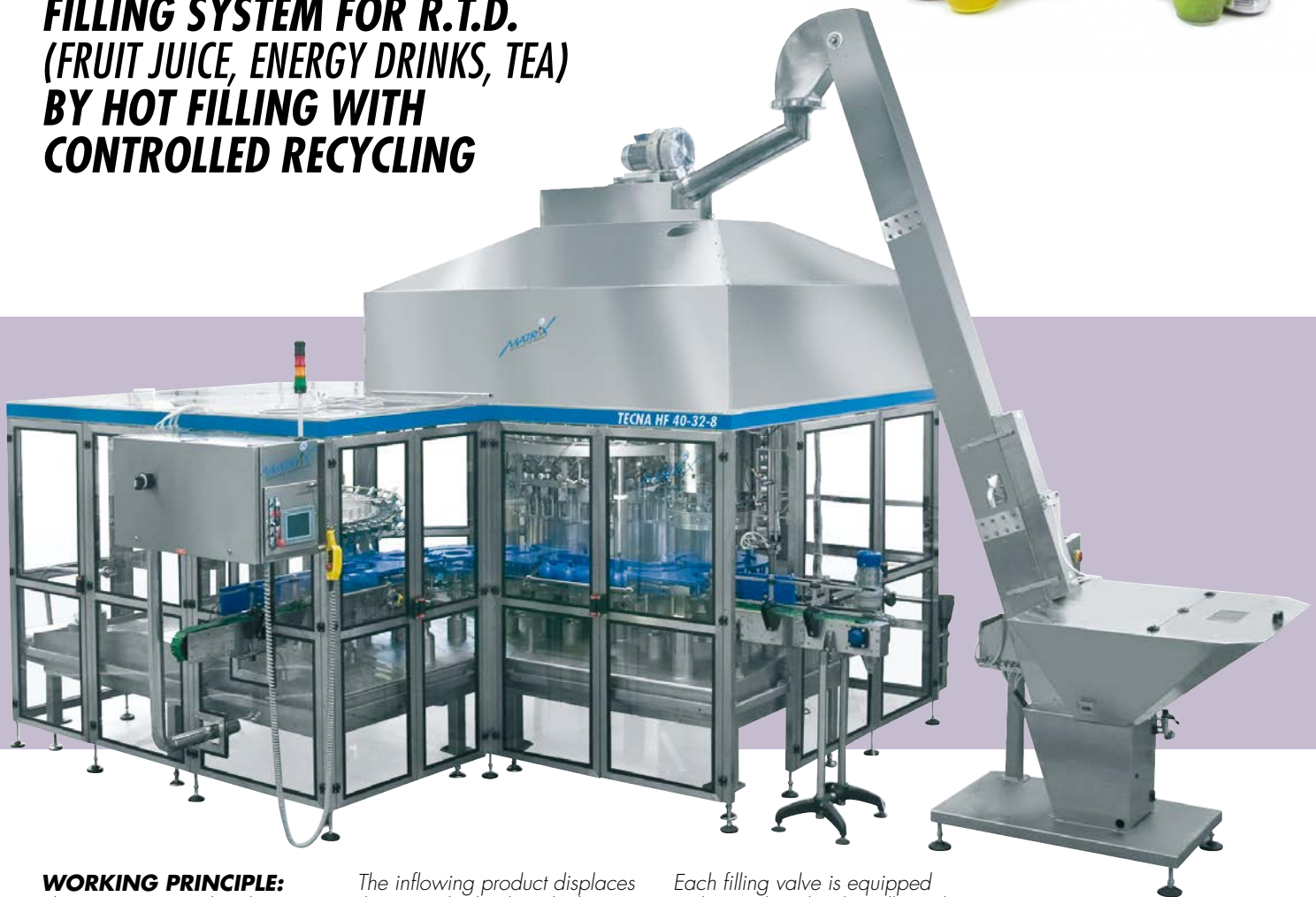




TECNA HF

**FILLING SYSTEM FOR R.T.D.
(FRUIT JUICE, ENERGY DRINKS, TEA)
BY HOT FILLING WITH
CONTROLLED RECYCLING**



WORKING PRINCIPLE:

The TECNA HF is the electro-pneumatic HOT filling solution suitable for non carbonated beverages (with ACID PH) to be filled at 85-90°C without preservatives in PET & Glass bottles with CONTROLLED RECYCLING in the filling valve. The machine is equipped with Mobile Shorttube filling system which is lowered on bottle ensuring a perfect sealing. The filling valve is pneumatically open and the product flows along the bottle wall, thus allowing gentle and no foam filling.

The inflowing product displaces the air 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. Once the filling time is finished, the valve closes and a proper mechanical cam lifts-up the valve, allowing the full bottle outlet. During full bottle outlet from filler carousel, the spillage effect (product overflow due to high level) will be reduced since the bottle is never lifted-up nor lowered-down.

Each filling valve is equipped with recycle valve that allows the bottles entrance in the filler only if the product temperature inside valves, is correct. During continuous and steady production, the recycle valves are closed guaranteeing RECYCLE=0.

The recycle is activated only in case of temperature lowering or line stoppage. Only when machine is in stand-by (without bottles presence) a continuous recycle will be inside the valve.

APPLICATIONS:

HOT Filling of non carbonated beverages R.T.D. (Fruit Juice, Energy Drinks & Tea) in PET or GLASS bottles.

OUTPUT RANGE:

Filler from 20 to 60 valves, depending on the product to be bottled, this system can fill from 5.000 up to 36.000 bottles per hour.

TECNA HF

www.matrix-srl.com

BOTTLING LINES FOR FRUIT JUICE PRODUCTION

USER BENEFITS:

Recycled product quantity
Optimization, that in phase of steady production is non-existent.
Processes Optimization thanks to the possibility to integrate filler TECNA HF with pasteurizer PROTHERM HF, both realized by Matrix, to facilitate the various CIP and production phases (the first bottle comes out from filler at the desired temperature).
Product Quality, no product temperature change thanks to the controller cycle.

3 RINSING FILLING CAPPING TRIBLOCK FOR HOT FILL, PET & GLASS.



4 TWIST OFF LINEAR CAPPER.

5 CAPS ELEVATOR.



7 TILTING CONVEYOR FOR CAPS PATEURISATION (CONTACT TIME 20").



8 AUTOMATIC CONTINUOUS TUNNEL COOLER.



9 EMPTY BOTTLE AIR CONVEYOR.



10 BOTTLE DRYER.



11 AUTOMATIC SLEEVE LABELER FOR HOT FILL PET BOTTLES WITH STEAM TUNNEL.



6 13 FULL BOTTLES/CAPSLABELS INSPECTION MACHINE.




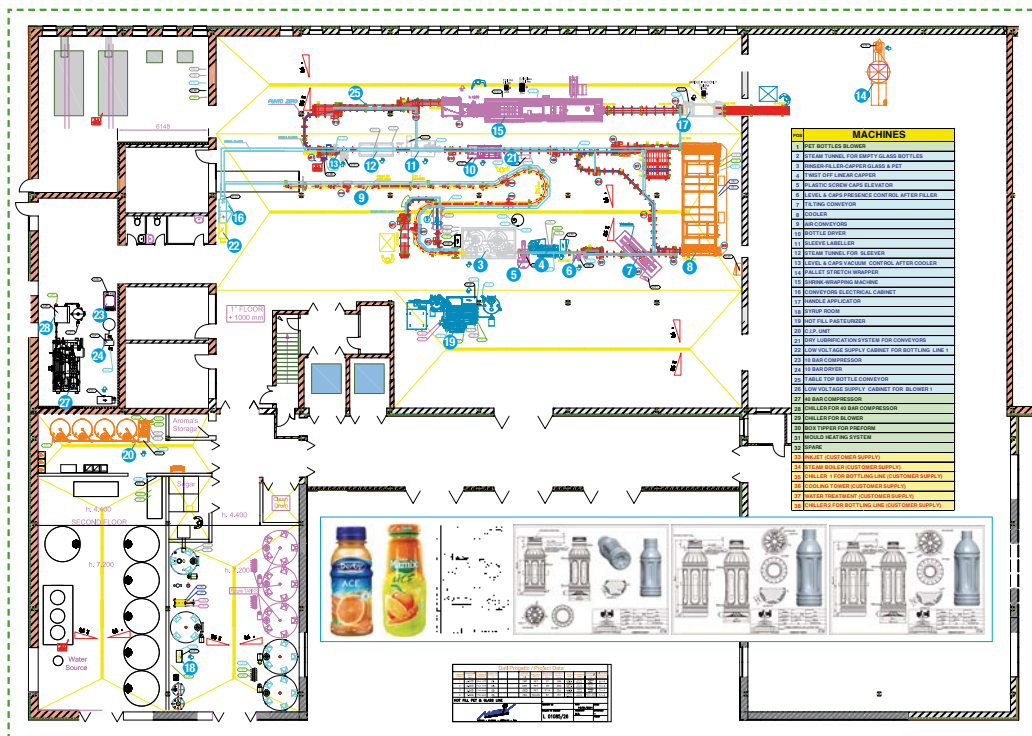
14 SEMIAUTOMATIC PALLET STRETCH WRAPPER.



15 AUTOMATIC SHRINK-WRAPPING.



16 ELECTRIC PANEL TO CONTROL CONVEYOR SYSTEM.

18 SEMI AUTOMATIC BEVERAGE PREPARATION UNIT MOD. PROSYRUP.



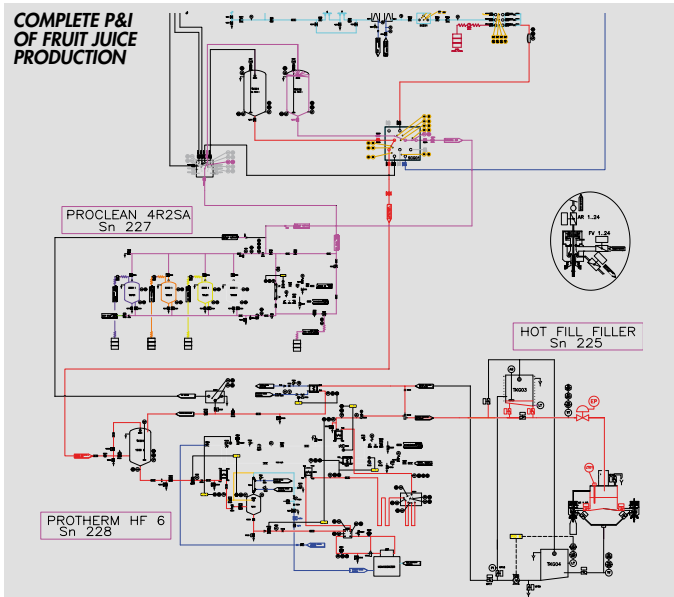
19 FLASH HOT FILL PASTEURIZER MOD. PROTHERM HF6.



20 MANUAL CLEANING IN PLACE UNIT MOD. PROCLEAN.



25 BOTTLES AND PACKS CONVEYOR SYSTEM WITH TEFLON LUBRIFICATION SYSTEM.

Filling System mod. TECNA HF

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



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All data are indicative.