MEET US AT

NPE2024 | MADE The Plastics Show | FOR YOU

South Hall Level 1
Bottle Zone | Booth # \$19096

SOLUTIONS TO DIFFERENTIATE PACKAGING XTRA PH SFL FLEX



# A UNIQUE EXPERTISE: FROM PELLET TO PALLET

THE ONLY COMPANY WITH FULL IN-HOUSE COMPETENCE



# **SOLUTIONS TO DIFFERENTIATE PACKAGING**

Since about 40 years, Sipa is leading the market of packaging production equipments as one-stopshop solution player.

Sipa's booth at the **NPE 2024** will showcase the **unique expertise in design and manufacturing**, emphasizing economic viability and sustainability.

Highlighted solutions at NPE address critical parameters such as weight reduction, container behavior, and cost-effectiveness while delivering attractive bottles and optimizing production costs.





# **COMPLEX PACKAGING GROWTH TRENDS**



### **Spirits:**

2024 Total Packaging: **34.5** billion units Rigid Plastics Packaging: **9%** (PET= **99%** of rigid plastics)

#### **CAGR 24-27:**

Total Packaging 2% PET 2.3%



#### **Home Care:**

2024 Total Packaging: **106** billion units Rigid Plastics Packaging: **34%** (PET= **29%** of rigid plastics)

#### CAGR 24-27:

Total Packaging 2.5% PET 2.7%



#### **Beauty & Personal Care Packaging:**

2024 Total Packaging: **162** billion units Rigid Plastics Packaging: **44%** (PET= **14%** of rigid plastics)

#### CAGR 24-27:

Total Packaging 1.9% PET 2.4%



# SIPA'S SYSTEMS FOR CHALLENGING PACKAGING



















### **MACHINES ON DISPLAY AT NPE 2024**

### THE BENEFITS OF OUR 2 CUTTING-EDGE SYSTEMS

# XTRA 10 PH

Sipa's Xtra rotary blowing system offers industry-leading benefits, including the flexibility to produce a wide array of containers at high speed (standard, complex, Hot Fill, large sizes, asymmetrical with preferential heating), energy efficiency, and quality, leading to reduced total cost of ownership.

# SFL FLEX

Additionally, explore the **SFL Flex linear blow molding system**, ideal for producing virtually all type of containers, **in a compact and flexible way**.

JOIN US TO EXPLORE THE FUTURE OF PACKAGING INNOVATION AND SUSTAINABILITY



# **XTRA UNIQUE FEATURES**

XTRA10

#### EASE OF USE

→Ultra Quick tool-less mold change-over (30" per cavity), new HMI: simple, easy, quick. Process Wizard

### SUSTAINABILITY

→ Big **energy saver** with green oven.

Lower blowing pressure:
air consumption
reduction, air recovery



#### QUALITY

→ Best process angle; precise & consistent; solid kinematic, simple 
• preform handling

### **FLEXIBILITY**

→ Hot fill & Cold Fill on same machine,
 Preferential heating for oval containers,
 BIG size containers (up to 12 L)
 rPET, TiO<sub>2</sub>, PP, bio-

### TOTAL COST

higher output/cavity in the market (2,800 b/h/c); Simple maintenance; lower re-tooling cost; accept legacy molds

based resin)

# **XTRA FLEXIBLE**

### **Hot fill version can handle Cold fill with no compromise:**

- Hot Fill at 2200 bhc
- Cold Fill at 2800 bhc

**Same machine** with **dual configuration**, based on bottle diameter.

Use of **legacy shell** (150mm), with **simple adaptation kit** on mold base.

Hot Fill in aluminum mold with heating elements and individual thermo-control.







# **XTRA EASY**

### **ULTRA Quick mold change-over**

Multiple access point
Effortless manual press opening
Mold changeover in 30" tool-less

Easy & quick neck change-over, standard
Anti-nesting on preform chute
Mainly Tool-less or quick change parts

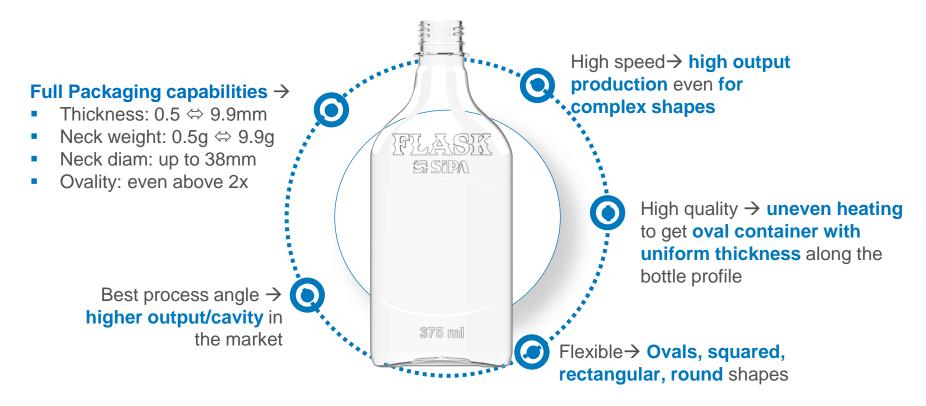
### XTRA 12, bottle to bottle

same neck in 10min different neck in 2h



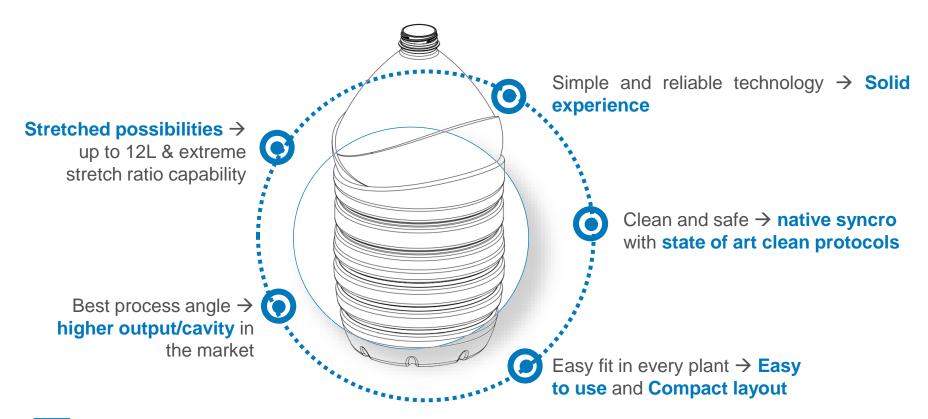


# **XTRA PH | PREFERENTIAL HEATING FOR OVALS**





# **XTRA BIG | A NEW SOLUTION FOR LARGE SIZES**





# **XTRA ADDED VALUES IN FEW NUMBERS**



HIGHER OUTPUT,
LIGHTWEIGHT CONTAINERS,
LOWER MAINTENANCE AND
CONSUMPTIONS





PRODUCE PET
CONTAINERS
VS PREVIOUS GENERATION

HIGHER PERFORMANCE



ADDITIONAL ACTIVE TIME AVAILABLE TO PRODUCE CONTAINERW WITH NO STRESS

MOLD CHANGEOVER TIME



TOOL-LESS
MOLD CHANGEOVER
PER CAVITY





### **SFL FLEX – SOLUTION FOR CRAFTING QUALITY**

- 1. Small and Flexible: compact, flexible, and easy to use
- **2. High-Quality Output:** very high-quality PET bottles (like SFL family)
- **3. Versatile Applications:** PET, rPET, other polymers
- **4. Size and Capacity** Up to 3 liters/100oz (max to 4000 bph) or up to 5L/1,5 UsGal (single cavity), Neck from 14 to 48mm



### SFL FLEX - SPACE-SAVING EFFICIENCY

- **5. Optional Features:** numerous options to expand its capabilities
- **6. Quick Changeovers** mold in 10 minutes, few parts for neck changes
- 7. Compact Footprint just 8 m<sup>2</sup>/86 ft<sup>2</sup>, suitable for limited space installations
- **8.** Flexibility can host any kind of existing mold (shell or block, from SFL, XTRA or other OEMs / mold producers). Majority of the perso-parts are interchangeable with SFL family Mold opening adjusted from HMI Digital Suite ECHO



# **SPECIAL FEATURES FOR COMPLEX PACKAGING**

### **PREFERENTIAL HEATING:**

Special Focus on PH EVO feature to deliver best packaging The system is available on SFL and XTRA

SIPA 5D PH – **full HMI control** of preform heating







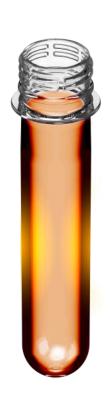




# 1°/5D PH - CYLINDRICAL HEATING

As it normally happen on heating oven, preform can be heated 360° **homogeneuously**, using the 8/9 lamps

On Oval container, this process is important to achieve the perfect thickness distribution on container's **portion** with axisimmetric shape (round or square)







### 2°/5D PH – OVAL HEATING

As it normally happen on Preferential Heating oven, preform is heated more, specifically on **opposite** (180°) portions

These lamps (8 on one side and 8 on the opposite side) heat up areas corresponding to narrow size of the container, for each oven module!

This provide the perfect thickness distribution on container's *portion* with **oval/rectangualr shape**.

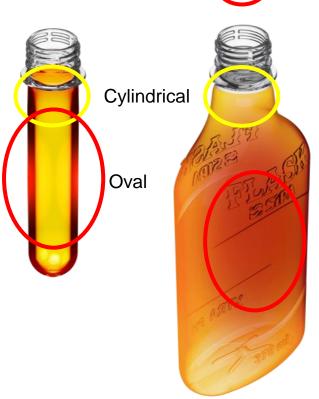




# 3°/5D PH - MIX HEATING

In SIPA PH oven, it's easy to control the **mix** of cylindrical and oval heating, **at any level** 

This proper mix allows the perfect thickness distribution on complete container, reflecting **real bottle shape**, both in cylindrical and oval area.



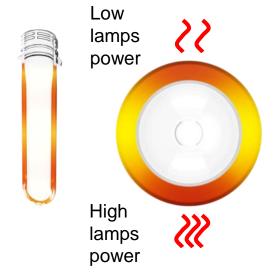


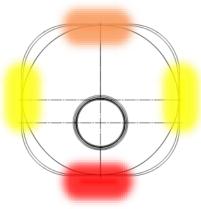
# 4°/5D PH - NOT AXIAL-SIM HEATING

SIPA PH oven allow a further freedom

It's possible to use different lamps power in the PH side (**left different** than **right** module), producing a further customized heating.

This 3-way heating allows **special design features**: off-center neck, dedicated single-side higher thickness or innovative reinforcement





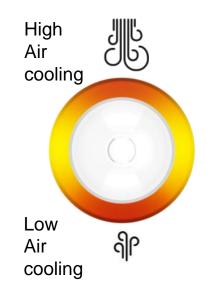


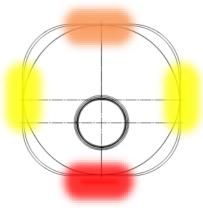
### 5°/5D PH - NOT AXIAL-SIM COOLING

SIPA PH oven allow an even further freedom!

It's possible to use different **ventilation** in the PH side (**left** module **different** than **right** module), producing a further customized conditioning.

This custom *cooling* allows **further special** design features, supporting 3-way heating, like off-center neck or special distribution





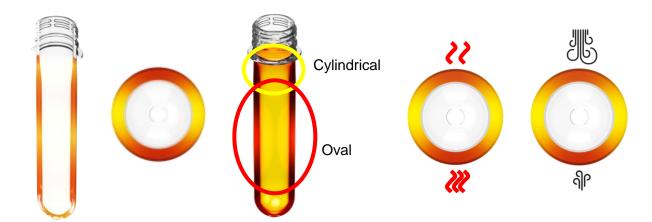


### **5D PH - ALL COMBINED**

SIPA PH EVO oven is a **combination** of all these options

ALL the oven configurations (every single lamp, and all ventilation power) are set-up and **stored in HMI.** 

So it's easy and repeatable to restore multiple special conditioning





### **RUNNING THE MACHINE SMOOTHLY**





**Automatic** process configuration

Simple and repeatable set-up

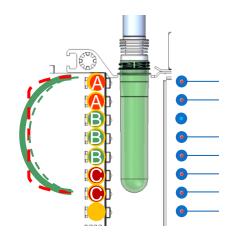
Easy tool to support new test (new preform, new mold)

Support training, operators' self-learning





### **RUNNING THE MACHINE SMOOTHLY**



### **OVEN PLUS - MAIN BENEFITS**

Better **knowledge** of heating process

**Detect** small/local temperature variations

Adapt thermal profile vs external variabilities

Reduce scraps: precise control of right preform temperature profile





# **MEET US IN ORLANDO!**

# There is a COMPLEX PACKAGING growth TRENDS





SIPA has SOLUTIONS to produce them in a SMOOTH & SUSTAINABLE WAY

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Thank you for your attention

**Zoppas Industries** 





