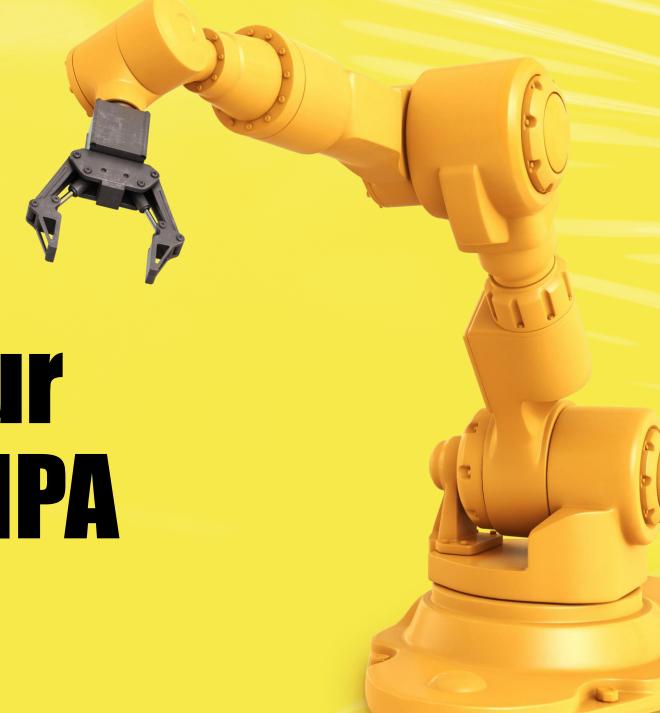
NPE2024 | MADE The Plastics Show | FOR YOU





May 7, 2023 • SIPA booth #S19096



NPE2024 | MADE FOR YOU





Solutions to differentiate PET packaging XTRA PH | SFL FLEX

Paolo De Nardi

Product Manager Stretch Blow Molding • SIPA spa



O 1 A unique expertise: from PELLET to PALLET

The only company with full in-house competence





Solutions to differentiate PET packaging

- Since about 40 years, Sipa is leading the market of packaging production equipments as one-stop-shop 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%

Source: Euromonitor April'24





Complex packaging growth trends | Americas



Spirits: North America

2024 Total Packaging: 2.5 billion units PET Packaging: 43% of total packaging

CAGR 24-27:

Total Packaging 2.0%

PET 1.1%

Latin America

2024 Total Packaging: 1.3 billion units PET Packaging: 4% of total packaging

CAGR 24-27:

Total Packaging 3.5%

PET 3.8%



Home Care: North America

2024 Total Packaging: 8.5 billion units

HDPE: 36%

PET= 19%

CAGR 24-27:

Total Packaging 0%

PET 1%

Latin America

2024 Total Packaging: 14.7 billion units

HDPE: 35%

PET= **20**%

CAGR 24-27:

Total Packaging 2.1%

PET 3.6%



Beauty & Personal Care Packaging: North America

2024 Total Packaging: **18.5** billion units

HDPF: 14%

PET= 14%

CAGR 24-27:

Total Packaging 0.7%

PET 1.2%

Latin America

2024 Total Packaging: 28.3 billion units

HDPE: 14%

PET= 3%

CAGR 24-27:

Total Packaging 1.8%

PET **1.4%7** Source: euromonitor



SIPA's systems for challenging packaging



















Machines on display at NPE 2024

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





12 XTRA unique features



XTRA unique features

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, TiO₂, PP, bio-based resin)

TOTAL COST

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





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

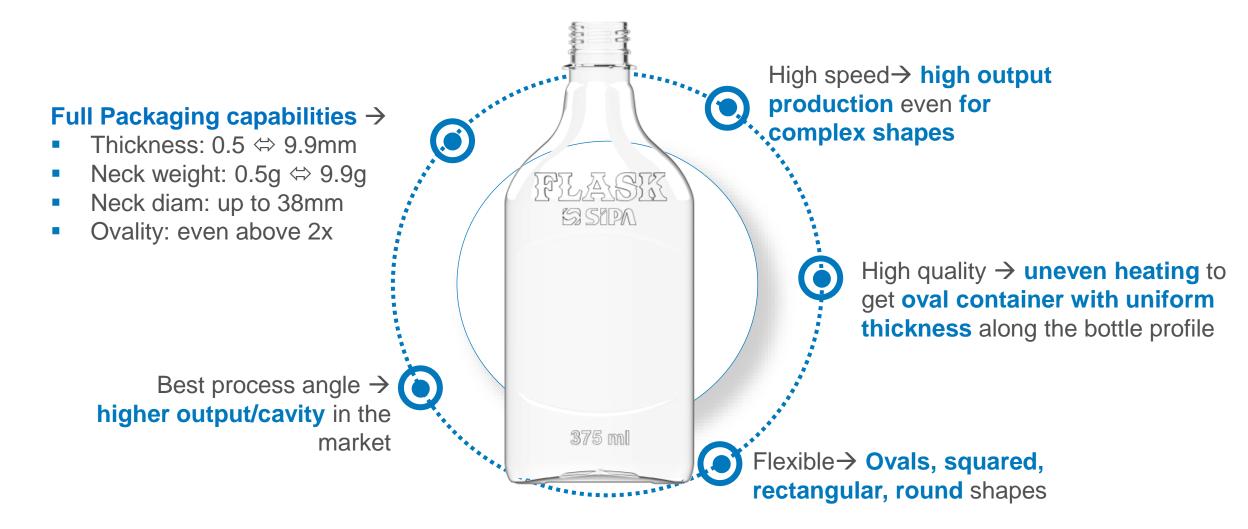
same neck in **10min** different neck in **2h**







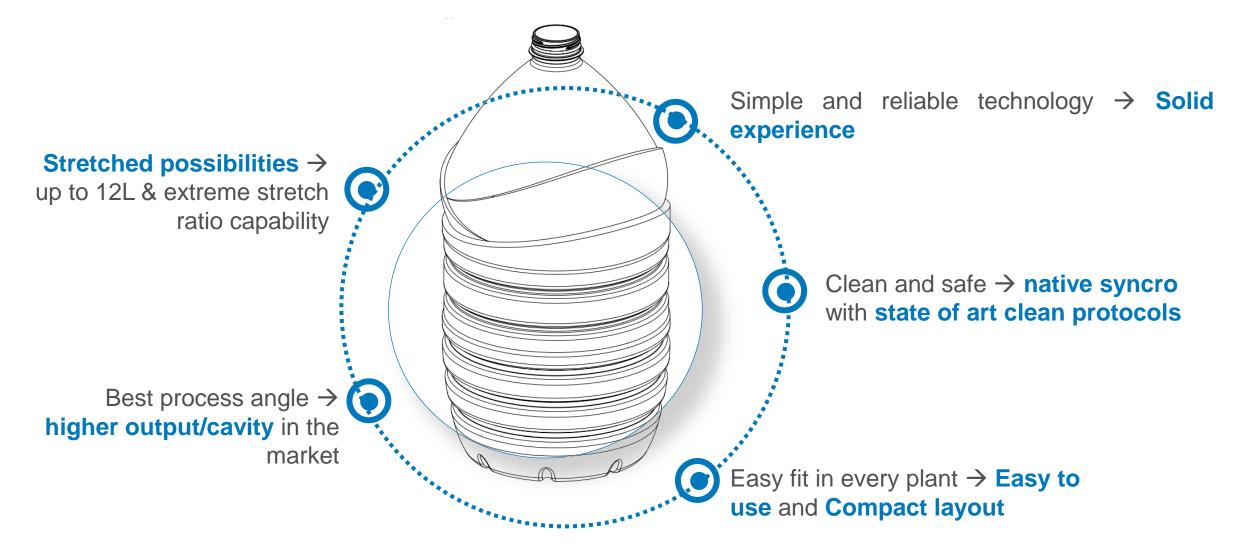
XTRA PH | Preferential heating for ovals







XTRA BIG | A new solution for large sizes







O3 SFL FLEX unique features



SFL FLEX | Packaging flexibility







Home Care



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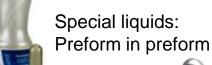




Milk,dairy & food

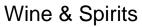


Hot fill & Nitro HF





Special resins: Tritan, Biobased, PE, PP, ...





SFL FLEX | solution for crafting quality

- Small and Flexible: compact, flexible, and easy to use
- 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
- Optional Features: numerous options to expand its capabilities







SFL FLEX | space-saving efficiency

- 5. Quick Changeovers mold in 10 minutes, few parts for neck changes
- Compact Footprint just 8 m²/86 ft², suitable for limited space installations
- 7. 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





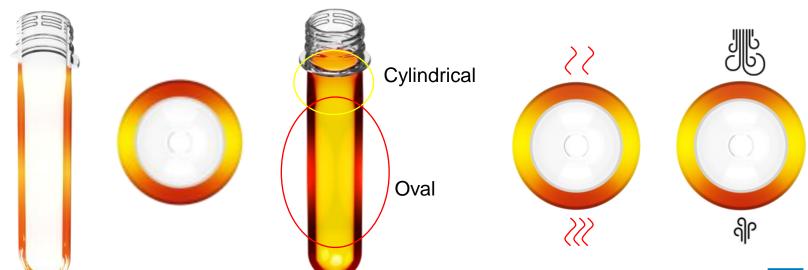






Multiple conditioning – All combined

- SIPA PH EVO oven is a combination of preferential heating, at multiple levels
- Vertically, horizontally, indipendently controlled: a complete mix of cylindrical and oval heating
- 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





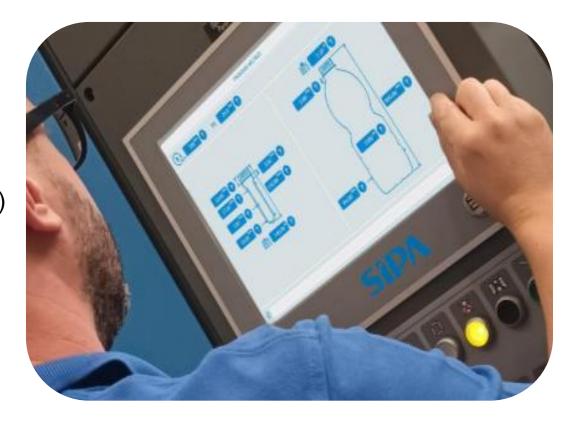


Running the machine smoothly

PROCESS WIZARD - MAIN BENEFITS

- Automatic process configuration
- Simple and repeatable set-up
- Easy tool to support new test (new preform, new mold)
- Support training, operators' self-learning







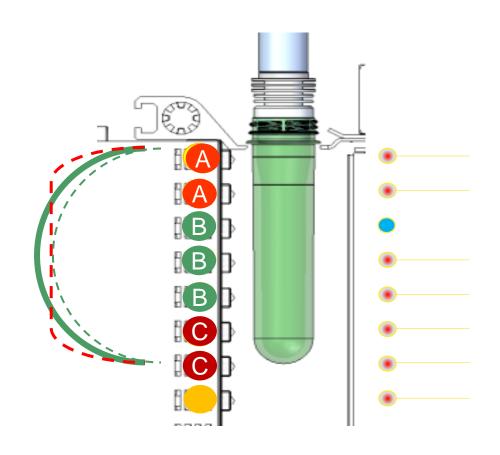


Running the machine smoothly

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 live at our booth # S19096

There is a TREND for COMPLEX PACKAGING.

SIPA HAS SOLUTIONS TO PRODUCE THEM IN A SMOOTH & SUSTAINABLE WAY.







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