

PET Container Manufacturing

ECS - PPS - SFR - SFL

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SIPA S.p.A.

Via Caduti del Lavoro, 3
31029 Vittorio Veneto (TV) ITALY
Tel: +39 0438 911511
Fax: +39 0438 912273
E-mail: sipa@zoppas.com
Website: www.sipa.it

SIPA FILLING & PACKAGING DIVISION

Via Provinciale, 36
43038 Sala Baganza (PR) ITALY
Tel: +39 0521 548111
Fax: +39 0521 548112
E-mail: sipaberchi@zoppas.com
Website: www.sipa.it

SIPA RUSSIA

Ul. Ordzhonikidze, 11 Str. 1/2
115419 Moscow - RUSSIA
Tel: +7 495 2324191
Fax: +7 495 2324190
E-mail: sipa_russia@co.ru

SIPA UKRAINE

Office 37, 9 Turovs'ka St., Kyiv
254655 Kiev - UKRAINE
Tel: +38 044 4636817
Fax: +38 044 4257275
E-mail: sipa.ukraine@zoppas.com

SIPA ENGINEERING S.r.l.

Str. Mangalia, 61
300186 Timisoara - ROMANIA
Tel: +40 356 434200
Fax: +40 356 434280
E-mail: sipa.romania@zoppas.com

SIPA TURKEY

SIPET
Kisikli Caddesi No: 2 A Blok Kat: 3
34662 Altunizade - Uskudar - Istanbul
TURKEY
Tel: +90 216 4749780
Fax: +90 216 4749779
E-mail: sipet@sipet.com.tr

SIPA NORTH AMERICA

3800 Camp Creek Parkway
Building 2400, Suite 106
Atlanta, Georgia 30331 - U.S.A.
Tel: +1 404 3493966
Fax: +1 404 3493858
E-mail: sipa-na@zoppas.com

SIPA SUL AMERICA Ltda

Wt Empresarial Parque
Av. Gupê, 10.767 - Galpão 08 Bloco II
Jardim Belval
06422-120 Barueri - SP - BRAZIL
Tel: +55 11 47728300
Fax: +55 11 47728301
E-mail: sipa@sipa.com.br

SIPAMERICAN INDUSTRIES

ZOPPAS TOOLS & MACHINERY S.A. DE C.V.
Circuito Mexico 120
Parque Industrial Tres Naciones
San Luis Potosi S.L.P. CP 78395 - MEXICO
Tel: +52 444 8047400
Fax: +52 444 8047499
E-mail: sipamerican.industries@zoppas.com

SIPA ANDINA Ltda

Avenida El Dorado 68 C 61
Oficina 628, Piso 6
Bogota, Colombia
Tel: +571 479 5252
Fax: +571 4763444
E-mail: Sipa_Andina@zoppas.com

SIPA JAPAN Ltd.

Komai Bldg. 2F, 3-2-9 Nihombashi Muromachi,
Chuo-ku, Tokyo 103-0022, JAPAN
Tel: +81 352554848
Fax: +81 352554849
E-mail: tanigaki@sipajapan.com

SIPA CHINA

19/F, unit 1905, Zhong Yu Plaza,
No. jia-6 Gongtibe Road,
Chaoyang District
100027 Beijing - CHINA
Tel: +86 10 65120447 - 48
Fax: +86 10 65120449
E-mail: sipachina@sipacina.com.cn

SIPA MACHINERY HANGZHOU

3 Road 14, Economic & Technology Development Zone
310018 Hang Zhou, Zhejiang province - CHINA
Tel: +86 571 86913106
Fax: +86 571 86913548

SIPA THAILAND

Bangna Complex 947/150 4th Floor,
Moo 12 Bangna - Trad Road,
Bangna
Bangkok 10260 - THAILAND
Tel: +66 27695451
Fax: +66 27695452
E-mail: sipa.fareast@zoppas.com

SIPA INDIA

B 101, Mangalya
Off Marol Maroshi Road
Marol, Andheri (East)
Mumbai - INDIA 400 059
Tel: +91 22 29201785
Fax: +91 22 29201795
E-mail: sipa.india@zoppas.com

zoppas.com

360° FROM PELLET TO PALLET EXPERTISE

Pictures and technical data are correct as time of publication, however may be subject to change without advice.

SIPA

Zoppas Industries

SIPA

Packaging Solutions

- Extensive expertise in containers development: lightweight, standard & tailor-made; heat set & pasteurizable, aseptic & ultra-clean, wide mouth, oval & asymmetrical, big sizes, improved barrier to gas and oxygen.
- Wide range of plastic materials used: PET, PP, PLA, PEN containers (plain or coated bottles).
- Wide expertise in preform and bottle design.
- Primary packaging solutions: bottle, caps, labels.
- Packaging design, to optimize functional demands or to develop innovative shapes.
- Food technologists within the R&D staff.
- Quick container prototyping & samples testing.
- Shelf life tests, on-field trials and industrial tests.

Engineering & Turn-Key Solutions

- More than 25 years' history as system integrator.
- Engineering and implementation of turn-key solutions based on "best component" methodology.
- Extensive engineering know-how from PET silo storage to packaging equipment.
- Optimization of plant lay-out (machine & ancillaries).
- Line designed together with customer: tailored solutions to provide an optimized result.
- Experience both as machinery supplier and bottler.
- Experience to manage complex process and projects.

Manufacturing Solutions

- Extensive expertise in all available bottle manufacturing technologies: linear and rotary blowmolders, injection machines, integrated machines, tooling for SIPA and non-SIPA platforms.
- Unique know-how in preform and container design and manufacturing processes.
- Technological partner: SIPA proposes the manufacturing scenario that better fits the Customer's requirements, taking into account factors such as container cost and flexibility demand.
- 360° competence driven by innovation. High quality manufacturing solutions and wide range of primary packaging solutions.

Global Service Solutions

- SIPA service is designed to be close to your business and guarantee expert, quick and punctual interventions.
- The objective of SIPA Team is total customer satisfaction. A mission pursued through constant efforts in researching and developing new personalized solutions.
- Training, technical assistance and spare parts via 20 company operated centers: comprehensive service wherever you are.
- Branch offices in 14 countries: USA, Canada, Mexico, Brazil, Argentina, Romania, Turkey & Asian Republics, Russia, Ukraine, UAE, India, China, Japan, Thailand.
- Manufacturing facilities in Italy, Romania, China, Brazil.
- SIPA On Line: real time on-line interactive connection (through a modem or GPRS) to customers' machines worldwide for troubleshooting purposes (TELESERVICE) and daily diagnostic and production reports (TELEMANAGEMENT).



Models	Number of cavities Injection	Blowing	Maximum size (l)	Max neck Ø mm	Output* (b/h)
ECS FX 20/80 EVO	80	40	1.0	38	up to 36,000
	40	20	2.5	38	up to 18,000
	64	32	2.0	45	up to 28,800
ECS FX 20/64 EVO	32	16	2.3	63	up to 14,400
	48	24	3.0	45	up to 21,600
ECS FX 20/48 EVO	24	12	3.8	83	up to 10,800
	48	24	3.0	73	up to 13,500
ECS FX 20/48 EVO WM	48	24	3.0	73	up to 13,500
ECS FX 20/40 EVO WM	40	20	3.0	89	up to 11,250
ECS FX 20/32 EVO WM	32	16	3.0	90	up to 9,000
ECS HS12-150/32	32	16	2.0	32	up to 16,500
ECS HS12-150/24	24	12	3.0	38	up to 12,300
ECS HS12-150/16	16	8	7.0	48	up to 8,200
ECS HS12-250/40	40	20	1.0	38	up to 18,000
ECS HS12-250/32	32	16	2.0	43	up to 14,400
ECS HS12-250/24	24	12	3.0	53	up to 10,800
ECS HS12-250/20	20	10	7.0	58	up to 9,000
ECS HS12-250/16	16	8	7.0	63	up to 7,200
ECS HS6-150/20	20	10	1.0	38	up to 7,200
ECS HS6-150/16	16	8	2.0	43	up to 5,760
ECS HS6-150/12	12	6	3.0	63	up to 4,320
ECS HS6-150/8	8	4	3.0	83	up to 2,880
ECS HS6-150/6	6	3	7.0	96	up to 2,160
ECS HS6-150/8 special	8	4	7.0	53	up to 2,880
ECS HS6-150/4 special	4	2	7.0	120	up to 1,440



Models	Blowing Cavities	Maximum size (l)	Output* (b/h)
SFR 9/27 Triple	27	0.6	up to 40,500
SFR 9/27 Single	9	3	up to 16,200
SFR 24 EVO	24	3	up to 48,000
SFR 20 EVO	20	3	up to 40,000
SFR 16 EVO	16	3	up to 32,000
SFR 12 EVO	12	3	up to 26,400
SFR 8 EVO	8	3	up to 17,600
SFR 6 EVO	6	3	up to 13,200



Neck dimensions
Diameter: up to 43 mm
Height: up to 23 mm

ECS

Containers

PET, OPP, PEN, PLA, Recycled PET, Reground PET

- Lightweight, standard & tailor-made
- Heat Set & pasteurizable
- Aseptic & Ultra-Clean
- Wide mouth
- Oval & asymmetrical

- Light barrier
- Gas and oxygen barrier
- Moisture barrier
- Active packaging
- Retortable

Applications

- Mineral water
- Soft drinks
- Juices, isotonic
- Teas, coffees
- Milk and dairy products
- Edible oil
- Beer and liquors
- Paste & semi-paste products
- Salad dressings
- Cosmetics & detergents
- Pharmaceuticals

SFR

Containers

PET, OPP, Multilayer

- Lightweight, standard & tailor-made
- Heat Set & pasteurizable
- Ultra-Clean

- Light barrier
- Gas and oxygen barrier
- Moisture barrier
- Active packaging

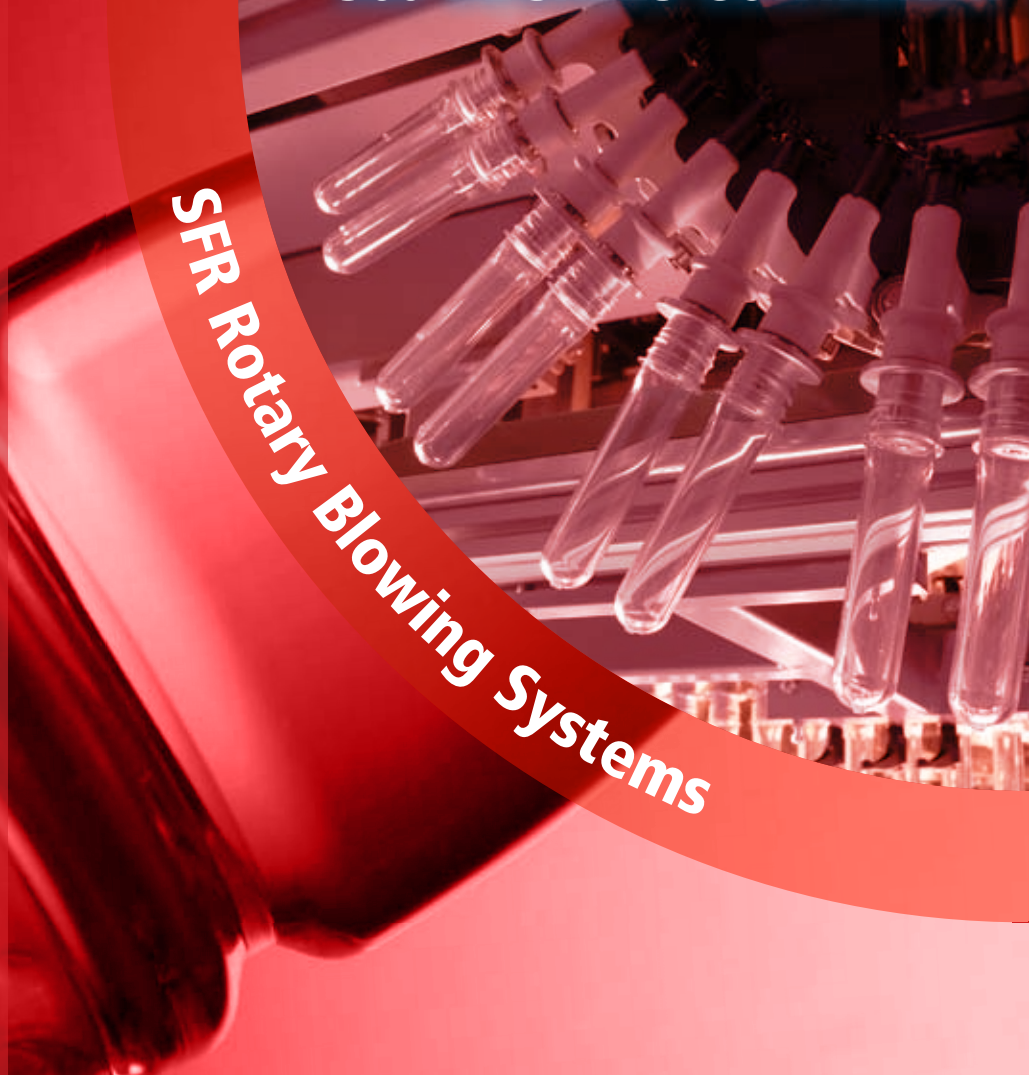
Applications

- Mineral water
- Soft drinks
- Juices, isotonic
- Teas, coffees
- Milk and dairy products
- Edible oil
- Beer and liquors



ECS Integrated Systems

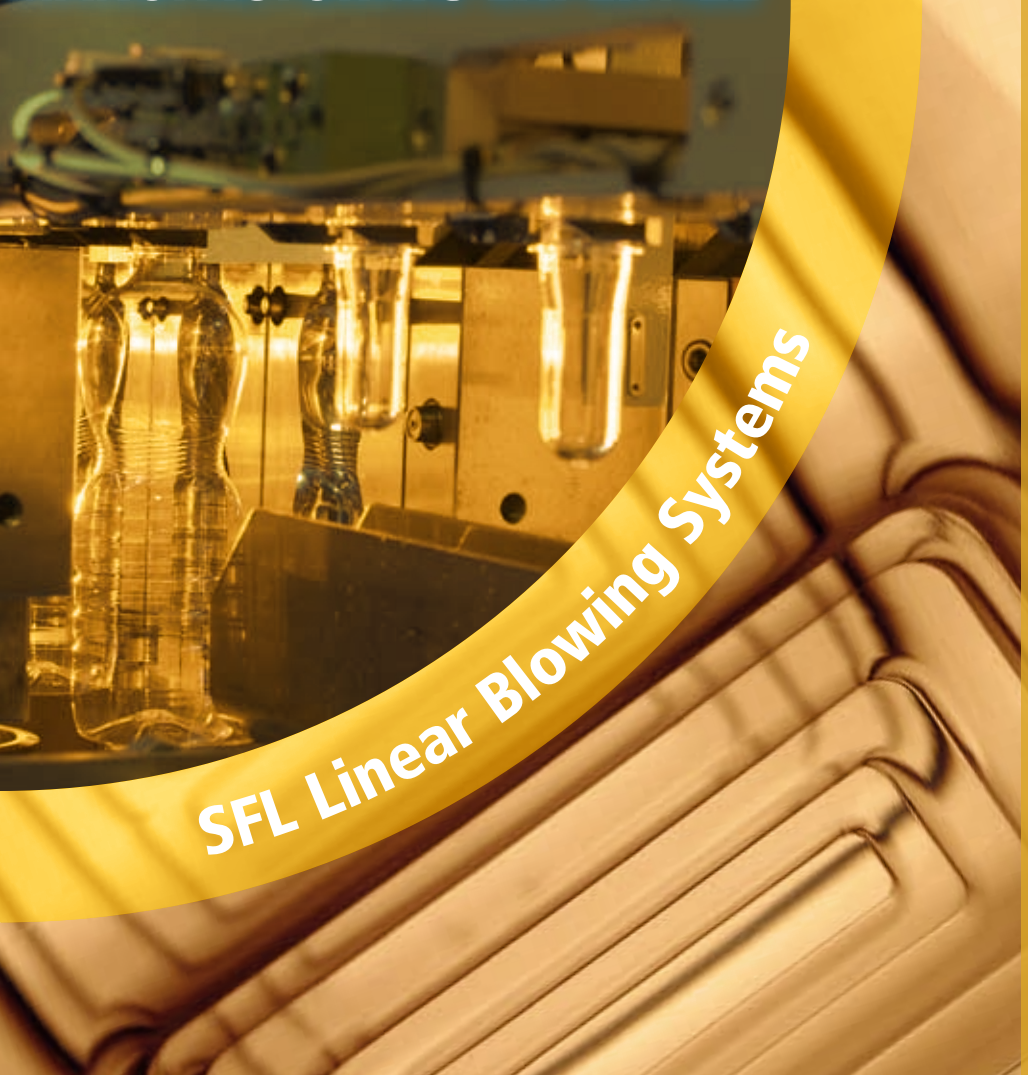
360 DEGREES CONTAINER MANUFACTURING EXPERTIZE



SFR Rotary Blowing Systems



PPS Preform Injection Systems



SFL Linear Blowing Systems

PPS

Preforms

PET, OPP, Recycled PET, Reground PET

- Lightweight (mineral water, edible oil)
- Thick-wall (carbonated soft drinks)
- Hot fill
- Wide mouth

Applications

- Mineral water
- Soft drinks
- Juices, isotonic
- Teas, coffees
- Milk and dairy products
- Edible oil
- Beer and liquors
- Salad dressings
- Cosmetics and detergents
- Paste & semi-paste products

SFL

Containers

PET, OPP, Multilayer

- Lightweight, standard & tailor-made
- Heat Set & pasteurizable
- Oval & asymmetrical
- Big sizes (up to 30 liters)

- Light barrier
- Gas and oxygen barrier
- Moisture barrier
- Active packaging

Applications

- Mineral water
- Soft drinks
- Juices, isotonic
- Teas, coffees
- Milk and dairy products
- Edible oil
- Beer and liquors
- Salad dressings
- Cosmetics and detergents



Models	Injection Cavities	Cavity pitch (mm)	Max neck diameter (mm)
PPS 96/96	96	50x120	30 mm
PPS 96/72	72	60x120	38 mm
PPS 96/48	48	75x172	48 mm
PPS 72/72	72	50x120	30 mm
PPS 72/56	56	50x152	30 mm
PPS 72/48	48	60x152	38 mm
PPS 72/32	32	75x152	48 mm
PPS 300/48	48	60x152	38 mm
PPS 300/32	32	75x172	48 mm
PPS 300/24	24	75x172	48 mm
PPS 300/16	16	75x172	48 mm
PPS 300/16	16	75x172	48 mm
PPS 300/12 L	12	110x210	65 mm



* Output rates are indicative and subject to confirmation by our technical dept. for any specific application.

Models	Blowing Cavities	Maximum size (l)	Output* (b/h)
SFL 6/6	6	3	up to 9,600
SFL 6/6 XXL	6	5	up to 6,000
SFL 6/4 L	4	5	up to 5,000
SFL 6/3 L	3	10	up to 3,300
SFL 6/2 L	2	12	up to 2,200
SFL 4/4	4	3	up to 7,200
SFL 4/3 XL	3	5	up to 3,750
SFL 4/2 XL	2	12	up to 2,200
SFL 2/2	2	25	up to 1,000
SFL 2/1	1	30	up to 500