

GENERAL CATALOG









6





























MACHINES' FEATURES:

the highest possible level of customization and adjustment to your needs and also to specific, often atypical containers and unique dosing modes





ALL STAINLESS STEEL
/ NO ALUMINIUM
technology related to all machine

metal elements

- built exclusively from stainless steel without aluminum
 their hygienic character is also reflected in open construction
 and frames made of massive profiles
- made with the use of best quality components of reputed suppliers with world-wide distribution chains, ensuring exploitation and production continuity safety, also in post-warranty period
- 1





built-in Internet modem for remote diagnosis, service and monitoring as a part of "teleservice"



ICE GROUP GENERAL CATALOG CONTENTS

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Ice Group - industrial ice cream machines manufacturer with:

- stable position on the market as a result of 25 years' experience in food machinery business (anniversary 2016)
- own production facilities with stainless steel machining, enabling production of over 90% components IN-HOUSE
- qualified and open-minded staff working under direct owners supervision for short communication channels and the quickest possible reaction to daily challenges
- almost 100 employees, and among them 12 full-time machinery designers and 7 automation engineers creating software IN-HOUSE and providing distance independent tele-service
- self-reliant technical assistance department supporting Customers to maintain machines in working order
 7 days a week
- OVER 1000 PROJECTS CARRIED OUT WORLDWIDE





















FROSTO ELECTRONIC





Double piston pump easy to operate and servicing

TECHNICAL DATA	Frosto 200*	Frosto 350*	Frosto 550*	Frosto 1200
Output capacity [l/h]	200	350	550	1200
Overrun	30-130%			
Supply voltage	3x400V~50Hz			
Power installed [Kw]	9	13,5	16	45
Tap water consumption at max 15°C [m3/h]	0,9	1,5	2,2	8
Water Tower consumption at max 25°C [m3/h]	2,1	3,5	4,8	16
Refrigerant	R404A, R507			
Width [mm]	500	600	500	700
Lenght [mm]	1400	1700	2000	2300
Height [mm]	1700	2000	1600	2000
Net weight [kg]	700	800	750	1400

^{*}Hermetic compressor with plate heat exchanger

Freezer is used to change ice cream mix into solid ice cream with adequate overrun and structure. Freezers are usually divided into semi-automatic and automatic. The automatic freezer is characterised by a more precise control of the production process.

FROSTO ELECTRONIC at a glance:

- semi-hermetic compressor with a tubular heat exchanger
- easy to operate thanks to a controller with full-color touch screen panel
- nergy and production space saving, compact construction
- low maintenance and exploation costs



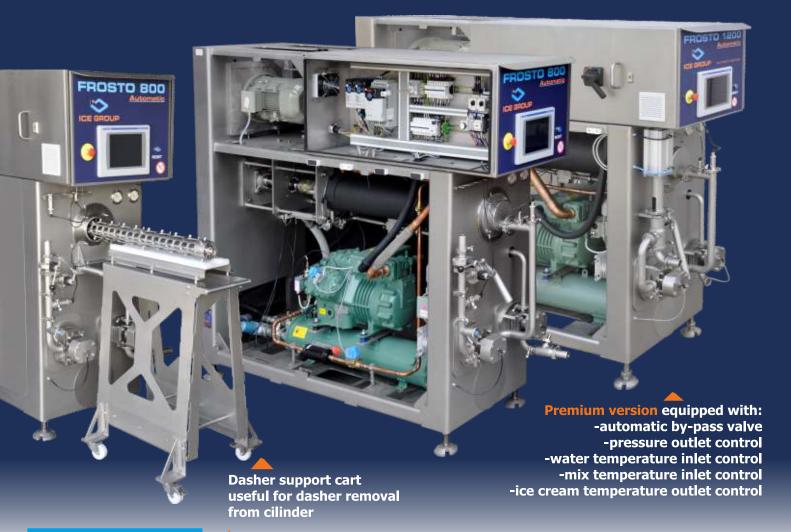
FROSTO HYBRID combines two key cooling components, i.e. semi-hermetic Bitzer compressor and plate heat exchanger, which gives an optimal value of price in relation to components' quality and saves operating costs.

TECHNICAL DATA	Frosto 700	Frosto 1400
Output capacity [I/h]	700	1400
Overrun	30-130%	
Supply voltage	3x400V~50Hz	
Power installed [Kw]	21	44
Tap water consumption at max 15°C [m3/h]	2,7	5
Water Tower consumption at max 25°C [m3/h]	6	13
Refrigerant	R404A / R507	
Width [mm]	700	700
Lenght [mm]	1900	2100
Height [mm]	1750	2000
Net weight [kg]	970	1600

FROSTO HYBRID at a glance:

- semi-hermetic compressor and plate heat exchanger
- fully automatic working mode with regard to production, diagnosing and cleaning
- large cylinder = better overrun and ice cream stability
- highest hygienic standards
- wide range of capacities within each machine model
 - reasonable and foreseeable spare parts' costs







Lobe pumps, easy to disassemble, ensure stable work with constant pressure and reasonable exploitation costs

	ocal Message I	Display			
CE CREAM FLOW	OVERRUM	VISCOSITY	ICE CREAM PRESSURE	COMPRESSOR CAPACITY	KCE CREAM TEMPERATURE
	THE RESERVE			H	####C MIX TEMPERATURE
A	A	A	A		## #*C WATER OUT TEMPERATURE
V	V	V	V		## #"G
					TEMPERATUR
or #####/h	SET ###9%	MOTE ###96	set ###Bat	100%	ICE CREAM OU PRESSURE ##.#Bal
HALL MIT FLORE	WHI PLENE	DASHER SPEED		400000000000000000000000000000000000000	RUN

touch screen panel - easy to operate and translated to local language

TECHNICAL DATA	Frosto 400*	Frosto 800	Frosto 1200	Frosto 1600
Output capacity [l/h]	400	800	1200	1600
Overrun	0-130%			
Supply voltage	3x400V~50Hz			
Power installed [Kw]	15	29	47	57
Tap water consumption at max 15°C [m3/h]	2	5,5	8	9
Water Tower consumption at max 25°C [m3/h]	4,5	11,5	16	18
Refrigerant	R404A, R507			
Width [mm]	700	700	700	1000
Lenght [mm]	1700	2150	2300	2450
Height [mm]	1900	2050	2000	2000
Net weight [kg]	820	1250	1500	2000

*(on special request)

FROSTO AUTOMATIC at a glance:

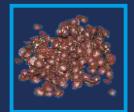
- 🌼 semi-hermetic compressor and tubular heat exchanger
- fully automatic working mode with regard to production, diagnosing and cleaning
- two flowmeters (for mix and for air) as a standard
- large cylinder = better overrun and ice cream stability
- highest hygienic standards
- wide range of capacities within each machine model
- reasonable and foreseeable spare parts' costs
- excellent ice cream texture, even with low-overrun 'artisanal' ice cream

ICE GROUP

MASTER FF 2000

INGREDIENT AND FRUIT FEEDERS









"stracciatella" effect



Master FF 2000 special model on request with separate control panel









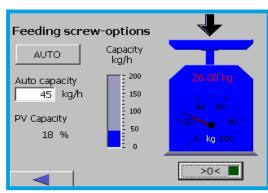


Basic version electric panel with potentiometers (instead of PLC) for controlling 3 motors

MASTER FF is a device mixing ice cream in flow with solid pieces, such as: fresh fruits, candied fruits, raisins, nuts or chocolate pieces. Standard scope of dosing components is 5 to 25% in relation to ice cream amount. The device is designed to work with Frosto continuous freezers, as well as other freezers. Master can be connected to filling machines or extruding lines.



Touch screen panel, full color 5,6" (Allen Bradley) or 7" (Siemens)



Tensometric weighing system ("loss-in-weight" system)



Paddle-type mixing pump, easy to disassemble and servicing

MASTER FF 3000/4000

NGREDIENT AND FRUIT FEEDERS



Extra-large solid pieces (like pecan nuts) can be fed using a Direct Vibration Feeder or Crispies Constant Feeder placed directly over the fruit feeder's mixing pump



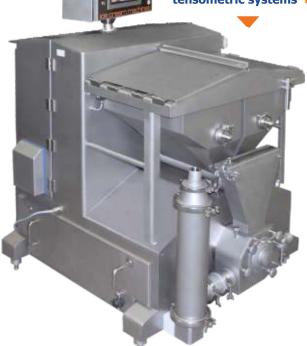




Sanitary Rotary Lobe Pump (cam type)



- two hoppers (tanks),
- two mixing units,
- two augers,
- two independent tensometric systems







higher inclusions concentration and preventing solid pieces clogging, thanks to their gradual feeding: first through fruit feeder's main tank, then through CCF's tank NOTE: CCF's auger is servo-driven.



CCF

JUMBO MULTI

SEMI-AUTOMATIC FILLER / DECORATOR



Double column version for 0,5-litre, 2-litre, up to 5-litre containers



Single column version









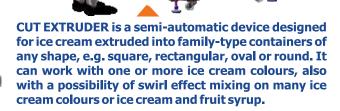
JUMBO MULTI is a semi-automatic filler/decorator with mechanical dosing column.











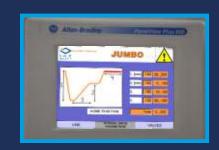




JUMBO SERVO DOUBLE

FILLING AND EXTRUDING STATIONS

JUMBO SERVO DOUBLE, with servo-driven PLC-controlled up and down movement, is designed to work with different size family tubs (e.g. "carte d'or"-type product, 5-litre scooping tubs) and cakes decorations. The device can be equipped with one or several dosing heads working simultaneously. It can be applied in small or medium-size industrial production and is often used as a test device for short series of new products.





Jumbo Servo Double with a special doser

and cup rotation during dosing







Jumbo Servo Double with cutting/extruding station







JUMBO SERVO DOUBLE WITH SERVO-DRIVEN CONVEYOR allows filling automation of atypical, unique, often unstackable containers, such as glass or plastic champagne flutes, ceramic bowls.



JUMBO ROBOT







JUMBO ROBOT 6-axis version for more complicated patterns

JUMBO ROBOT is a versatile device designed for dosing and decorating family products, layer cakes and other formats. Programmable dosing patterns are based on various dosing nozzles and approved by the Customer. Precision and repeatability of dosing means savings in relation to labour and raw material costs and results in better product image.



www









JUMBO ROBOT

ROBOTIZED BULK FILLER / CAKE DECORATOR













- cup destacking
- pre-dosing
- main dosing with 4,5 or 6-axis robot
- sauce or syrup topping
- dry topping
- lid closing
- ready product ejection





























Expert CRF 4000 is a compact, automatic, rotary filler, applied in production of cups, cones and squeeze-ups. Each machine is made individually, in accordance with the Customer's needs and at the same time maintaining its universal possibilities. For many, today serious, ice cream cups and cones producers, Expert CRF 4000 was the first step in their production automation.



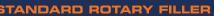
cup version



TECHNICAL DATA	EXPERT CRF 4000
Supply voltage	3x400V~50Hz
Power installed [Kw]	2
Width [mm]	1000
Lenght [mm]	1350 - 1900
Height [mm]	1950
Maximum capacity	3900 pcs/h

PACKAGING MAXIMUM DIAMETERS		
RECTANGULAR		
Width [mm]	75	
Lenght [mm]	75	
Height [mm]	100	
ROUND		
Diameter [mm]	95	
Height [mm]	110 (190 - calippo)	

EXPERT SRF





























EXPERT SRF automatic, rotary filler:

- 1-wide for family packs
- 2 or 3-wide for cups and cones EXPERT SRF features:
- modern, compact construction based on servo-motors
- high capacity and completely automatic work, even with complicated products (10-50 cycles per minute)
- simple operation, quick and easy change-over (few machine operators required)



3-wide cups version



2-wide cones version on perimeter







2-wide 1-litre version



1-wide 0,5-litre tub version

1-wide 1-litre tub version



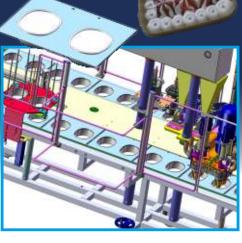
TORTICA MULTI-STATION CAKES AND BULKS FILLER









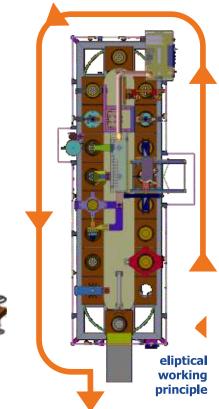


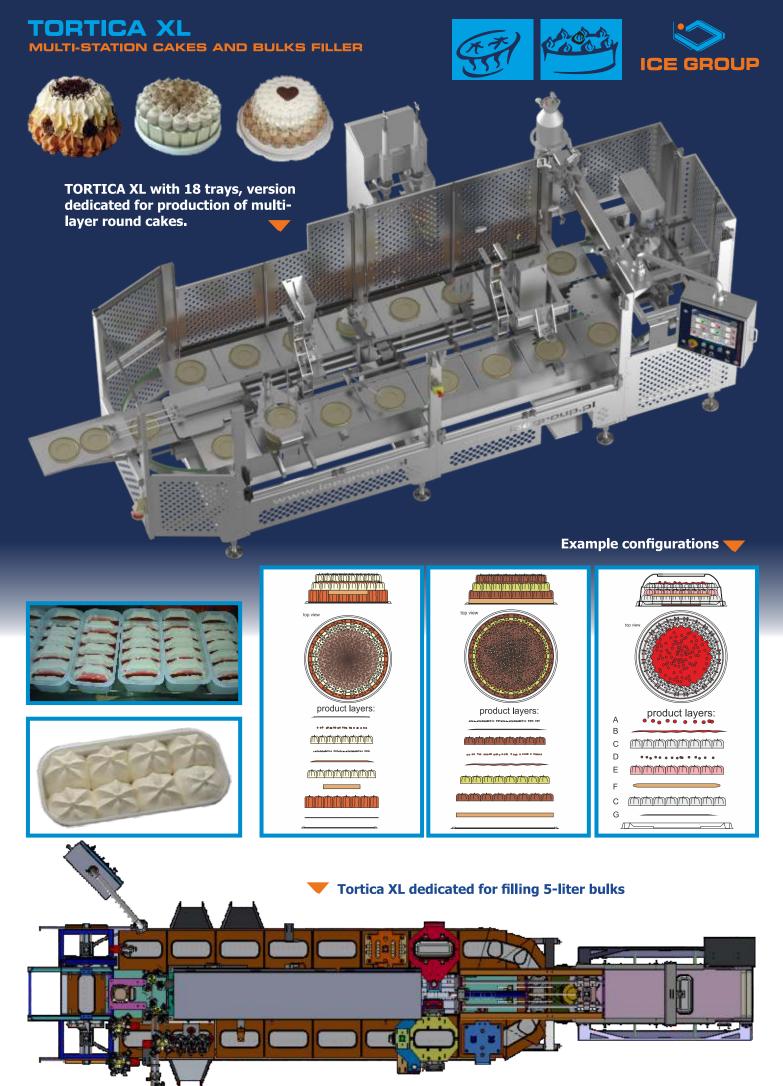
Special execution - silicone moulds filling



TORTICA is an advanced, multistation production line, characterized by fully automatic production process. Tortica is a machine for production of various ice cream formats, including layer cakes, family tubs and 5-litre scooping bulks. The advantage of TORTICA is that it is not limited to one product range.

Version for layer cake with Jumbo Robot 6 for additional decoration







EXPERT LVF LINEAR VERSATILE FILLER





with different fillers and closing stations. It can be adapted to various

operations for a particular type of packaging and products.











Standard model range*	products	max. capacity	high speed version max. capacity
Expert LVF 1	1-5 liters tub	1,200 pcs/h	
Expert LVF 2	cups, cones, 1-5 liters tub	4.400 pcs/h	
Expert LVF 2+2	cups, cones, 1-2 liters tub	8,800 pcs/h	
Expert LVF 3	1-2 liters tub	6.600 pcs/h	
Expert LVF 3+3	cups, cones	13.200 pcs/h	
Expert LVF 4	cups, cones	8.800 pcs/h	12.000 pcs/h
Expert LVF 6	cups, cones	13,200 pcs/h	18,000 pcs/h
Expert LVF 8	cups, cones	17.600 pcs/h	24.000 pcs/h
Expert LVF 9	cups, cones	19.800 pcs/h	
Expert LVF 12	cups, cones	26.400 pcs/h	36.000 pcs/h
Expert LVF 4 DP Combo	cups, cones	8.800 pcs/h	





Expert LVF 3+3 for standard cone and mini cone



Expert LVF 4 for squeeze-ups with sealing station



Expert LVF 9 for cups



Expert LVF 3 for 2-colour tubs

EXPERT LVF DP

LINEAR VERSATILE FILLER - DOUBLE PITCH VERSION







Low-overrun ice cream (500ml cup of ca. 440g weight), with large inclusions (even up to 10x10 mm) and irregular stripes of caramel, fruit or chocolate sauce

Dosing up to the edge of the cup

Cup sealed with thermo-sealable material and covered with additional (cardboard or plastic) lid

Complete filling
line consist of:
- Expert LVF 4 DP
(4-wide filling
machine for two
sizes of paper cups)

Unscrambler unit for unstackable lids

- 2 Master FF 3000 fruit feeders

 3 sanitary rotary pumps for syrups (toppings)





EXPERT LVF DP

LINEAR VERSATILE FILLER - DOUBLE PITCH VERSION





Double Pitch version, 4-wide in-line machine for Ø75mm and Ø95mm cups

Movable dosing stations: endless possibilities of products

combinations

EXPERT LVF 4 DP 4-wide in-line machine, working on double pitch principle (two types of packaging to choose from alternately, without the need of changing lamelas with seats) for Ø75mm and Ø95mm cups multi-layer filling with ice cream, mousses, syrups and dry ingredients (e.g. cookie crumbles, nuts, chocolate pieces)





DOUBLE PITCH, MULTI TASK COMBO



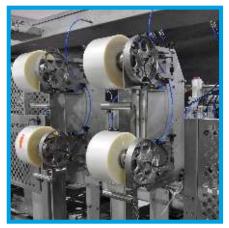








Vibration unit for dry ingredients







Transfer robot to outfeed conveyor







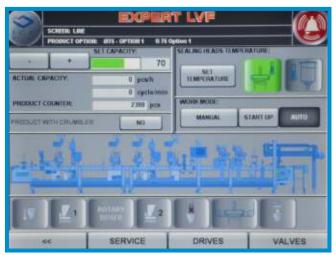
Expert LVF 4 DP - 4-wide version



Automatic choco disk placing station



4-wide in-line machine for oval and cubic cups



touch screen panel - easy to operate and translated to local language



Automatic wooden spoons dispenser



3-axis servo-driven dosing unit





IGLO LINE "P" EXTRUDING AND HARDENING











Iglo line tray tunnel is a complete and universal line for ice cream production. The result of its work are frozen and packed products, such as: stick ice cream, ball-top cones, sandwiches, stickless products etc. Iglo Line is also used for hardening of ice cream produced on other machines. Ice Group offers automatic product picking and transfer system e.g. from Expert LVF machine to Ice Group tunnels.

Ice Group offers customized Iglo Line construction adjusted to Customer's space and production flow, combination of product types, and to future extension possibilities or individual requirements regarding specific technical solutions and components.



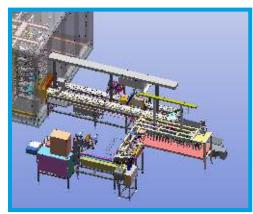








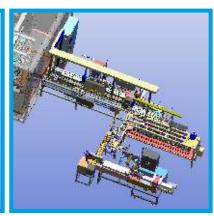




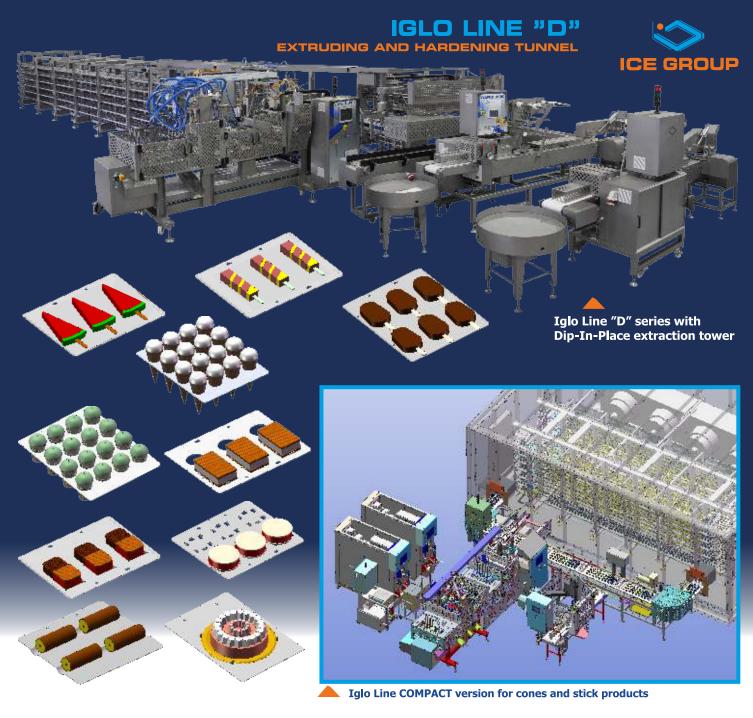
Iglo Line 7000 P for cones, wafer cups and stick products



Iglo Line 9000 P for stick products with enrobing section for fully chocolate coated stickless products



Iglo Line 9000 P for stick products and sandwiches





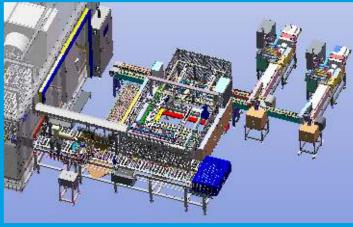








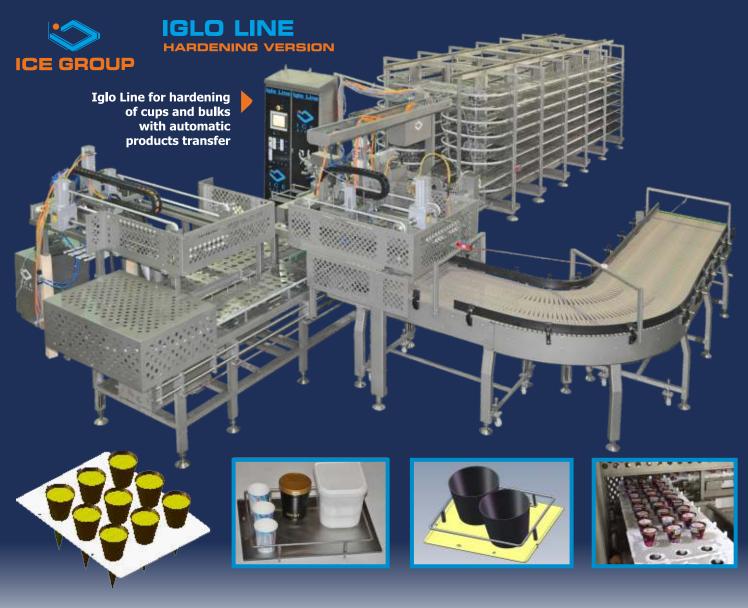


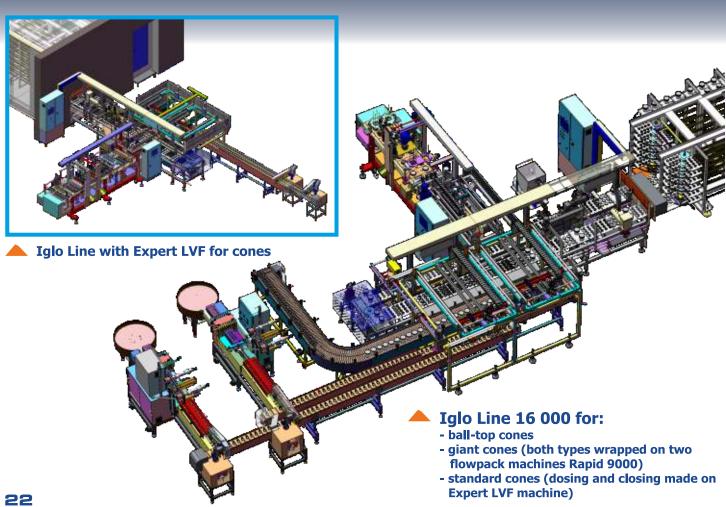






Iglo Line 16 000 D for cones and stick products

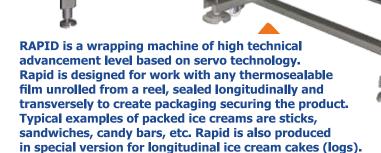




ENROBER CHOCOLATE ENROBING MACHINE Version with single chocolate courtain ENROBER is a chocolate coating device, Version with double developed especially for ice-cream products. chocolate courtain Features: - made of stainless steel of high sanitary standards - construction enabling easy disassembling for cleaning and maintenance - working width 150-1200 mm with a variable speed belt conveyour - automatic control of chocolate temperature and capacity of air flow curtain - supplied with chocolate pump, single or double chocolate courtain (on the customer's request) and after-cooling tunnel. Complete line with enrobing section and aftercooling

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Sequence of functions:

 bottom wafer/ biscuit loading,

flow-pack machine.

- ice cream slice extruding and cutting,
- top wafer/biscuit placing,
- wrapping







longitudinal and transverse sealing













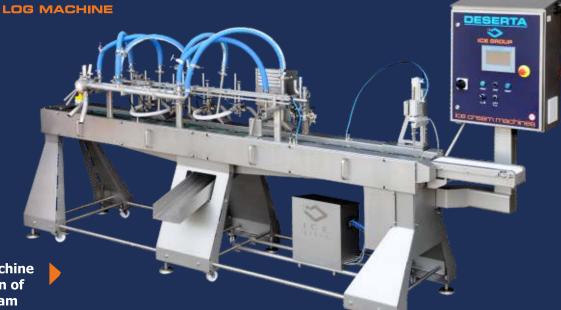












DESERTA 2000 is a machine designed for production of 1, 2 or 3-colour ice cream logs, as well as "vienetta" type product and other horizontally extruded ice cream desserts. Products may be formed in many combinations, also with additional decorations, crumbles and chocolate icing.



DESERTA

















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FILL & CLIP

AUTOMATIC MACHINE FOR ICE CREAM "SAUSAGES"













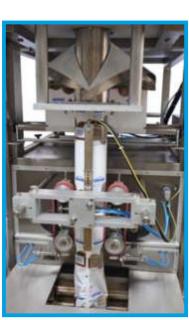


AUTOMATIC "POUCHES" (BAGS) FILLER

BAGPACK is a vertical transwrap packaging machine for ice cream sold "by weight" in bags or pouches







Forming and sealing unit



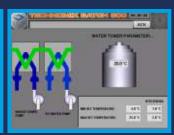
ICE GROUP

TECHNOMIX BATCH

PASTEURISATION PLANT



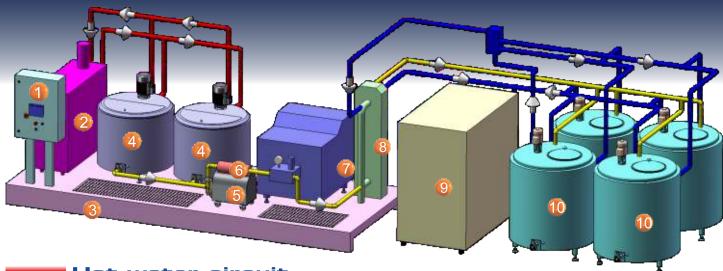








Complete line with ageing tanks, dissolving unit, batch pasteurisation unit, homogeniser, control panel, ice water generator and water tower





lce water circuit

____ Mix circuit

- **1** Control panel
- 2 Hot water generator
- 8 Base
- 4 Pasteurising tank
- 6 Pump
- 6 Filter
- Homogenizer
- 8 Plate heat exchanger
- 🧐 FRIGO ice water generator
- **MT-C TANK** maturation tank



TECHNOMIX HTST PASTEURISATION PLANT





Complete HTST pasteurisation plant with triblender, dissolving unit and homogenizer













SUPPORTING EQUIPMENT



Extruders and mixers



Cobra mixer for two ice cream colors or ice cream with syrup

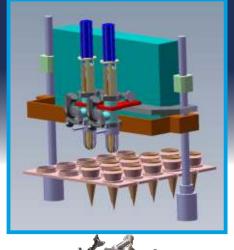




Independent, servo-driven dosing stations and dosers

Mixing unit for "ZAP" effect

















Syrup and chocolate pumps





Injection, time operated, pump with heated hopper

applied on in-line or rotary filling machines for cups or cones, or moulded stick ice cream machines



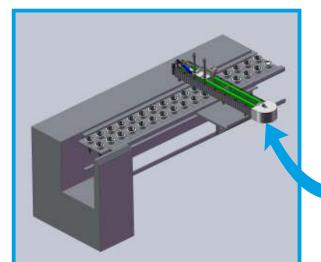
Two injection pumps with devided hopper for two syrup colours



Worm pump (screw type) for continuous feeding of syrup, also with fruit pieces

Special dosing station





Pump Kit for freezers

Independent device designed to replace piston pumps in semi-automatic continuous freezers







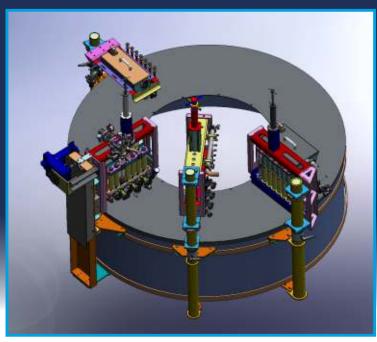
STICK NOVELTY SYSTEMS



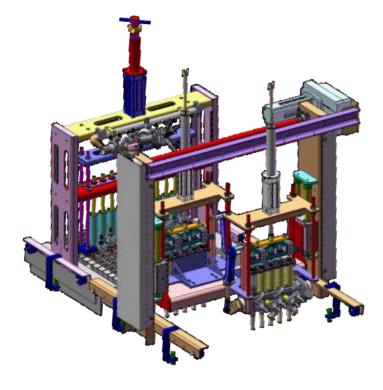


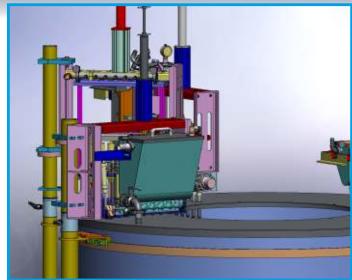


Mold strips and segments for every linear and rotary stick novelty system



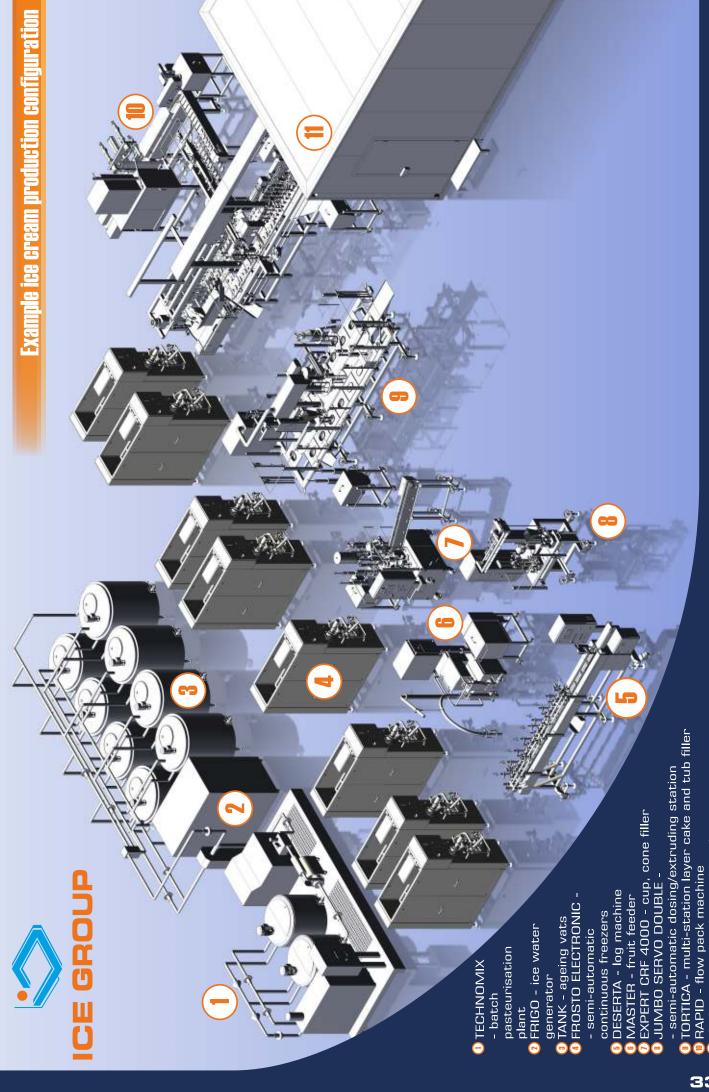
Filling - sucking - stick insertion stations





4

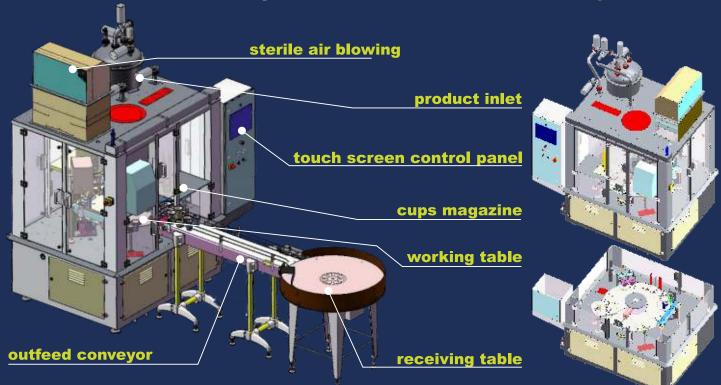
Servo driven bottom-up filling station (to maintain overrun rate and to fill semi-liquid ice cream with large ingredients) for any in-line or rotary machines



IGLO LINE - extruding and hardening tunnel



Expert RVF (Rotary Versatile Filler - Dairy Version)















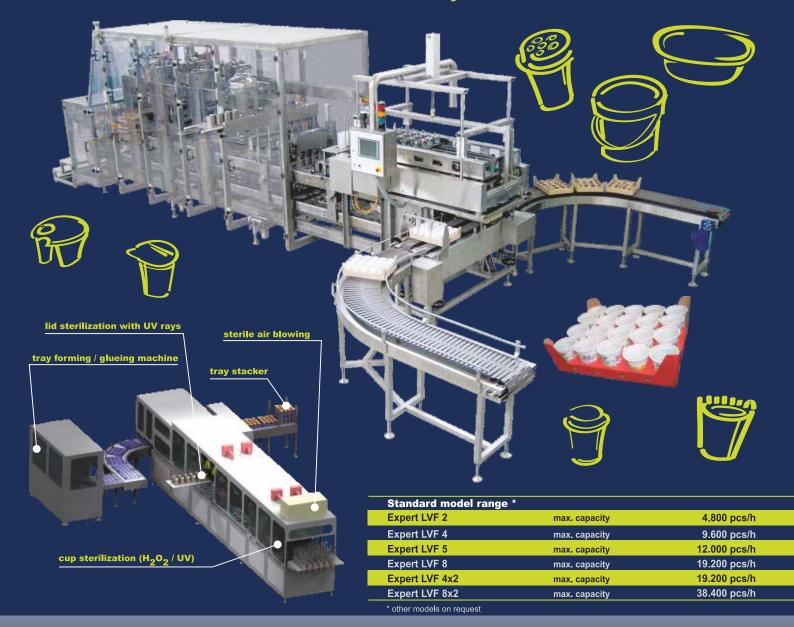


lids sealing

Standard model	l range *	
Expert RVF 1	max. capacity	2.400 pcs/h
Expert RVF 2	max. capacity	4.800 pcs/h
Expert RVF 3	max. capacity	7.200 pcs/h
Expert RVF 4	max. capacity	9.600 pcs/h
Expert RVF 6	max. capacity	14.400 pcs/h



Expert LVF (Linear Versatile Filler - Dairy Version)







safety shields closing the working zone



cabinet with sterile air blowing





cabinet with sterile air blowing and cups and lids sterilization (H₂O₂ / UV)